



**PUB. 113**  
**LIST OF LIGHTS**

RADIO AIDS AND FOG SIGNALS

**2019**

THE WEST COASTS OF EUROPE AND  
AFRICA, THE MEDITERRANEAN SEA,  
BLACK SEA AND AZOVSKOYE MORE (SEA  
OF AZOV)

**IMPORTANT**

**THIS PUBLICATION SHOULD BE CORRECTED  
EACH WEEK FROM THE NOTICE TO MARINERS**

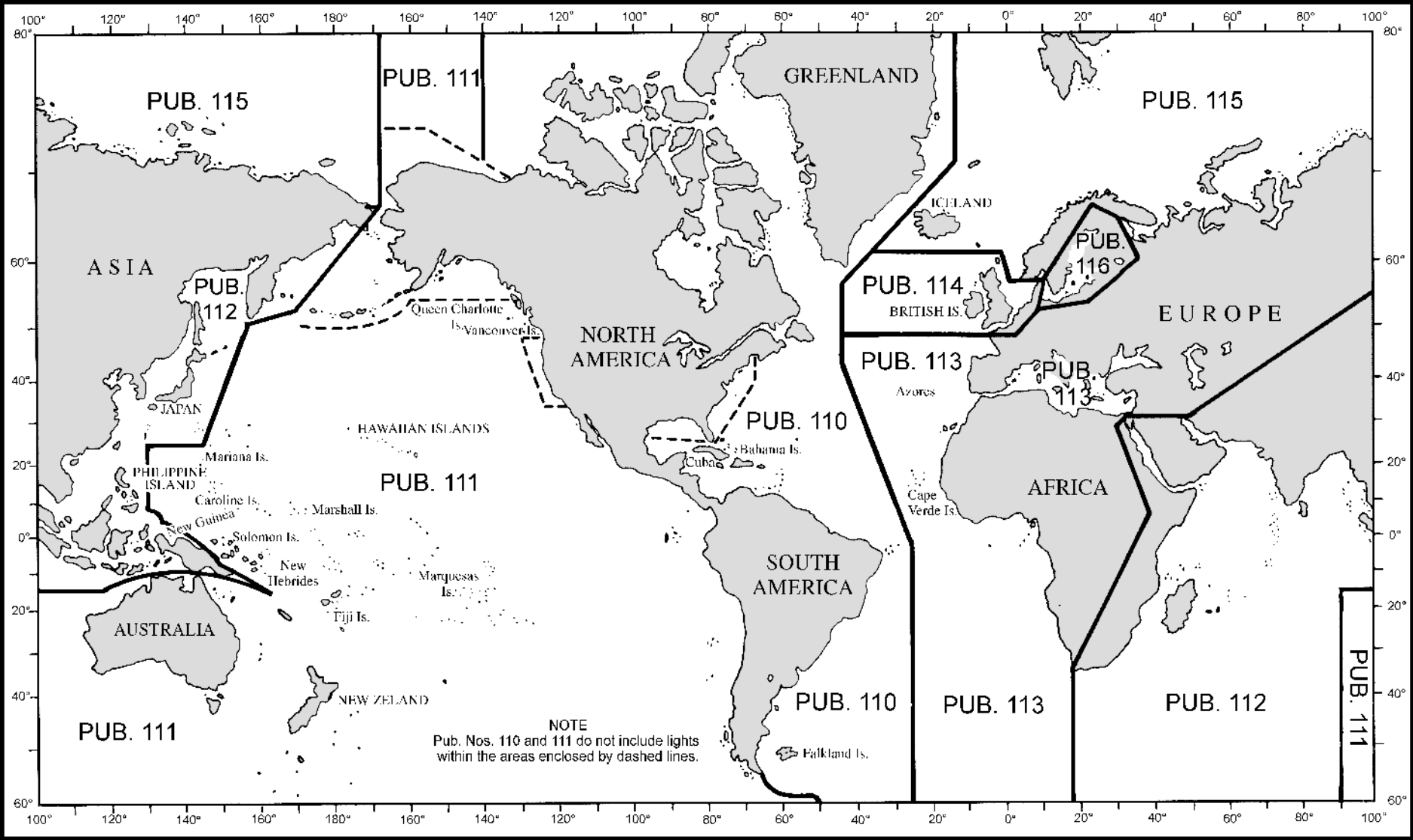


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NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY  
Springfield, VA

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# LIST OF LIGHTS LIMITS

## NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



## WARNING ON USE OF FLOATING AIDS TO NAVIGATION TO FIX A NAVIGATIONAL POSITION

The aids to navigation depicted on charts comprise a system consisting of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid.

The buoy symbol is used to indicate the approximate position of the buoy body and the sinker which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecisions in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice or other natural causes, collisions, or other accidents.

For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks.

## PREFACE

The 2019 edition of Pub. 113, List of Lights, Radio Aids and Fog Signals for the West Coasts of Europe and Africa, the Mediterranean Sea, Black Sea and Azovskoye More (Sea of Azov), cancels the previous edition of Pub. 113.

This edition contains information available to the National Geospatial-Intelligence Agency (NGA) up to 29 June 2019, including Notice to Mariners No. 26 of 2019.

A summary of corrections subsequent to the above date will be in Section II of the Notice to Mariners which announced the issuance of this publication.

In the interval between new editions, corrective information affecting this publication will be published in the Notice to Mariners and must be applied in order to keep this publication current.

Nothing in the manner of presentation of information in this publication or in the arrangement of material implies endorsement or acceptance by NGA in matters affecting the status and boundaries of States and Territories.

## RECORD OF CORRECTIONS PUBLISHED IN WEEKLY NOTICE TO MARINERS

### NOTICE TO MARINERS

YEAR 2019				YEAR 2020			
1.....	14.....	27.....	40.....	1.....	14.....	27.....	40.....
2.....	15.....	28.....	41.....	2.....	15.....	28.....	41.....
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## INTRODUCTION

The National Geospatial-Intelligence Agency publishes a List of Lights, Radio Aids and Fog Signals in seven volumes divided geographically as shown on the index chartlet on the inside front cover of this book. Major fixed and outermost floating aids to navigation, such as sea buoys, safety fairway buoys, traffic separation buoys, etc., are listed. Other floating aids are not generally listed. Storm signals, signal stations, radio direction finders, radiobeacons, RACONs and RAMARKs located at or near lights are found in this List. Radiobeacons are listed in a separate section in the back of this publication.







The date to which this publication has been corrected can be found in the Preface. In the interval between new editions, corrective information affecting this publication will be published in Section II of Notice to Mariners, and must be applied to keep this publication current. All of these corrections should be applied in the appropriate places and their insertion noted in the "Record of Corrections."

Mariners and other users are requested to forward new or corrective information useful in the correction of this publication to:

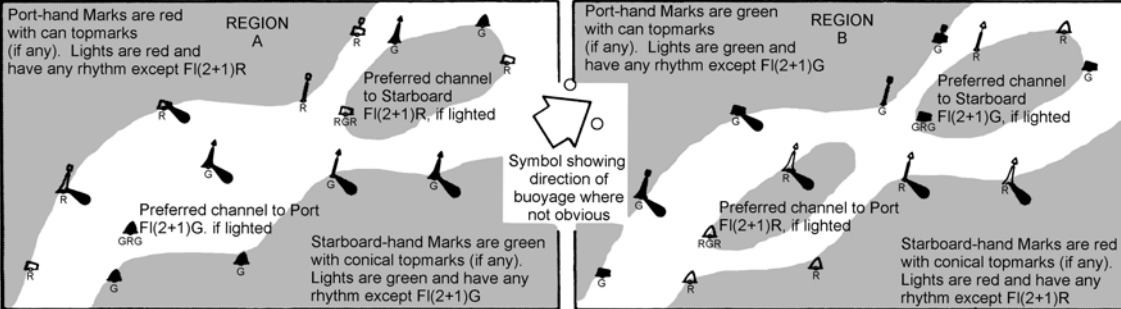
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# Buoys and Beacons IALA\* Buoyage System

Where in force, the IALA System applies to all fixed and floating marks and occasionally lighthouses, sector lights, range marks, lightships and LANBY's (large automatic navigational buoys).

The standard buoy shapes are cylindrical (can) , conical , spherical , pillar (including high focal plane) , and spar , but variations may occur, for example lightfloats . In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lighted or unlighted), only the shape of the topmark is of navigational significance.

**Lateral Marks** (used in conjunction with a conventional direction of buoyage) are generally for well-defined channels. There are two international Buoyage Regions-A and B-where Lateral marks differ.

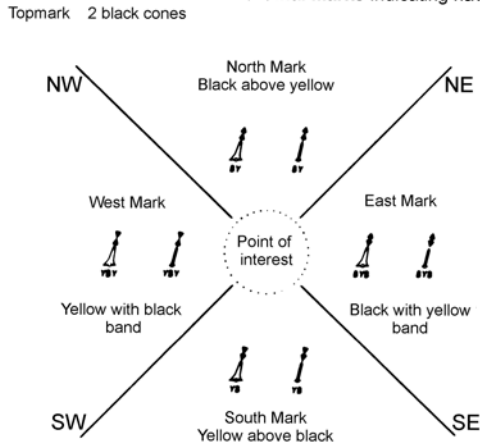


A preferred channel buoy may also be a pillar or a spar All preferred channel marks have three horizontal bands of color

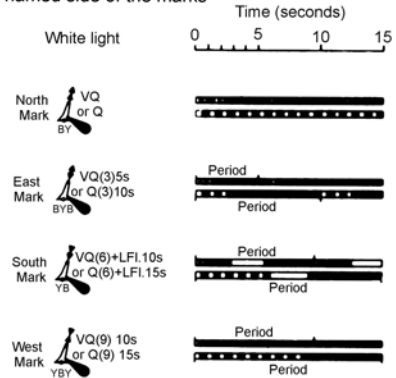
All marks other than Lateral Marks are the same in REGIONS A and B

## UNLIGHTED MARKS

**Cardinal Marks** indicating navigable water to the named side of the marks



## LIGHTED MARKS



\* The same abbreviations are used for lights on spar buoys and beacons The periods, 5s, 10s and 15s, may not always be charted.

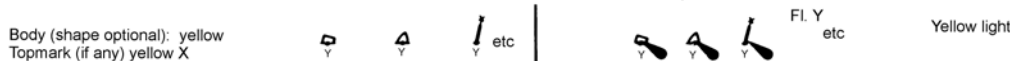
**Isolated Danger Marks**, stationed over dangers with navigable water around them.


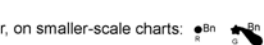


**Safe Water Marks**, such as mid-channel and landfall marks.



**Special Marks**, not primarily to assist navigation but to indicate special features.



BEACONS with IALA System topmarks are charted by upright symbols. eg:  (minor beacon) or, on smaller-scale charts: 

Beacon towers are charted:  (occasionally lighted)

RADAR REFLECTORS on buoys and beacons are not generally charted.

COLOR ABBREVIATIONS under symbols, especially those of spar buoys, may be omitted, or may be at variance with symbols shown above.

LIGHTFLOATS: The IALA System is not usually applied to large lightfloats (replacing manned lightships) but may be applied to smaller lightfloats.

\* IALA is an abbreviation of International Association of Lighthouse Authorities

## **THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY MARITIME SAFETY WEBSITE**

The National Geospatial-Intelligence Agency (NGA) Maritime Safety Website provides worldwide remote query access to extensive menus of maritime safety information 24 hours a day.

Databases made available for access, query and download include Chart Corrections, Publication Corrections, NGA Hydrographic Catalog Corrections, Chart and Publication Reference Data (current edition number, dates, title, scale), NGA List of Lights, USCG Light Lists, WorldWide Navigational Warning Service (WWNWS) Broadcast Warnings, Maritime Administration (MARAD) Advisories, Department of State Special Warnings, Mobile Offshore Drilling Units (MODUs), Anti-Shipping Activity Messages (ASAMs), World Port Index, and Radio Navigational Aids. Publications that are also made available as PDF files include the U.S. Notice to Mariners, U.S. Chart No. 1, The American Practical Navigator (Bowditch), International Code of Signals, Radio Navigational Aids, World Port Index, Distances Between Ports, Sight Reduction Tables for Marine and Air Navigation, and the Radar Navigation and Maneuvering Board Manual.

The Maritime Safety Website can be accessed via the NGA Homepage ([www.nga.mil](http://www.nga.mil)) under the Products and Services link or directly at <https://msi.nga.mil/NGAPortal/MSI.portal>. Any questions concerning the Maritime Safety Website should be directed to:

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## DESCRIPTION

(Lights, Buoys, RACONs, RAMARKs)

Information is tabulated in eight columns as follows:

**Column 1:** The number assigned to each light, RACON or RAMARK by this Agency. International numbers are listed below this number in italic type and in a cross reference in the back of the book. RACONs and RAMARKs located at a light are listed with the light. Those not located at a light are assigned separate numbers.

**Column 2:** Name and descriptive location of the light or buoy, RACON or RAMARK. A dash (-) or dashes (--) in this column is used to reduce repetition of principal geographic names. This column is intended to describe the location of the navigational aid and to distinguish it from others in proximity. Differences in type indicate the following:

**Bold-faced:** Lights intended for landfall or having a visibility (range) of 15 miles or more.

*Italics:* Floating aids.

*ITALICS CAPITALS:* Lightships and LANBYs.

Roman: All other lights not mentioned above.

**Column 3:** Approximate latitude and longitude of a navigational aid to the nearest tenth of a minute, intended to facilitate chart orientation (use column 2 and the appropriate chart for precise positioning).

**Column 4:** Light, buoy, RACON or RAMARK characteristic (see Characteristics of Lights chart for explanation of lights).

**Column 5:** Height of light in feet (Roman type) equivalent measurement (below) given in meters (Bold-faced type).

**Column 6:** Range. The distance, expressed in nautical miles, that a light can be seen in clear weather or that a RACON or RAMARK can be received.

**Column 7:** Description of the structure and its height in feet.

Note—Stripes are vertical. Bands are horizontal. The use of the term “diagonal stripes” is the exception.

**Column 8:** Remarks—sectors, fog signals, radar reflectors, minor lights close by, radiobeacons, storm signals, signal stations, radio direction finders, and other pertinent information.

Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the

United States Government.

The names of lights may differ from geographic names on charts.

### ABBREVIATIONS


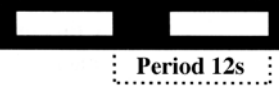








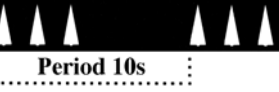


Where the lights of different countries intermingle in the list they are distinguished by the following letters:






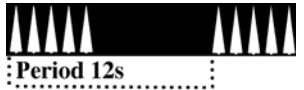




(A.)	Albania	(L.)	Liberia
(Bu.)	Bulgaria	(P.)	Portugal
(E.)	Egypt	(Ro.)	Romania
(F.)	France	(S.)	Spain
(Gr.)	Greece	(T.)	Turkey
(I.)	Italy	(U.K.)	United Kingdom

Other abbreviations:

Al.—alternating	lit.—lit
bl.—blast	Mo.—Morse code
Bu.—blue	min.—minute
Dir.—directional	obsc.—obscured
ec.—eclipsed	Oc.—occulting
ev.—every	Or.—orange
F.—fixed	Q.—quick flashing
Fl.—flashing	R.—red
fl.—flash	s.—seconds
G.—green	si.—silent
horiz.—horizontal	U.Q.—ultra quick flashing
intens.—intensified	unintens.—unintensified
I.Q.—interrupted quick flashing	vert.—vertical
Iso.—isophase	Vi.—violet
I.V.Q.—interrupted very quick flashing	vis.—visible
Km.—kilometer (0.62137 mile)	V.Q.—very quick flashing
L.Fl.—long flashing	W.—white
	Y.—yellow

## CHARACTERISTICS OF LIGHTS

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Fixed	F.	A continuous and steady light.	
Occulting	Oc.	The total duration of light in a period is longer than the total duration of darkness and the intervals of darkness (eclipses) are usually of equal duration. Eclipse regularly repeated.	
Group occulting	Oc.(2)	An occulting light for which a group of eclipses, specified in number, is regularly repeated.	
Composite group occulting	Oc.(2+1)	A light similar to a group occulting light except that successive groups in a period have different numbers of eclipses.	
Isophase	Iso.	A light for which all durations of light and darkness are clearly equal.	
Flashing	Fl.	A light for which the total duration of light in a period is shorter than the total duration of darkness and the appearances of light (flashes) are usually of equal duration (at a rate of less than 50 flashes per minute).	
Long flashing	L.Fl.	A single flashing light for which an appearance of light of not less than 2 sec. duration (long flash) is regularly repeated.	
Group flashing	Fl.(3)	A flashing light for which a group of flashes, specified in number, is regularly repeated.	
Composite group flashing	Fl.(2+1)	A light similar to a group flashing light except that successive groups in a period have different numbers of flashes.	
Quick flashing	Q.	A light for which a flash is regularly repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
Group quick flashing	Q.(3)	A light for which a specified group of flashes is regularly repeated; flashes are repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
	Q.(9)		
	Q.(6)+L.Fl.		

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Interrupted quick flashing	I.Q.	A light for which the sequence of quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Very quick flashing	V.Q.	A light for which a flash is regularly repeated at a rate of not less than 80 flashes per minute but less than 160 flashes per minute.	
Group very quick flashing	V.Q.(3)	A light for which a specified group of very quick flashes is regularly repeated.	
	V.Q.(9)		
	V.Q.(6)+L.Fl.		
Interrupted very quick flashing	I.V.Q.	A light for which the sequence of very quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Ultra quick flashing	U.Q.	A light for which a flash is regularly repeated at a rate of not less than 160 flashes per minute.	
Interrupted ultra quick flashing	I.U.Q.	A light for which the sequence of ultra quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Morse code	Mo.(U)	A light for which appearances of light of two clearly different durations are grouped to represent a character or characters in Morse Code.	
Fixed and flashing	F.Fl.	A light for which a fixed light is combined with a flashing light of greater luminous intensity.	
Alternating light	Al.	A light showing different colors alternately.	

NOTE - Alternating lights may be used in combined form with most of the previous types of lights.

## NOMENCLATURE OF LIGHTS

Lights exhibit a distinctive appearance by which they are recognized, e.g. Fixed, Flashing, Group Flashing, etc. The properties of their appearance, by which they are distinguished, are referred to as the *characteristics* of the light. The principal characteristics are generally the sequence of intervals of light and darkness, and, in some cases, the sequence of colors of light exhibited.

*Fixed lights*—those which exhibit a continuous steady light.

*Rhythmic lights*—those which exhibit a sequence of intervals of light and eclipse (repeated at regular intervals) in a manner described in Chart No. 1 and this volume.

*Alternating lights*—rhythmic lights which exhibit different colors during each sequence.

*Period of a light*—the time occupied by an entire cycle of intervals of light(s) and eclipse(s).

*Range: Meteorological visibility*—the greatest distance at which a black object of suitable dimensions can be seen and recognized against the horizon sky or, in the case of night observations, could be seen and recognized if the general illumination were raised to the normal daylight level.

*Luminous range of a light*—the greatest distance at which a light can be seen merely as a function of its luminous intensity, the meteorological visibility, and the sensitivity of the observer's eyes.

*Nominal range of the light*—the luminous range of a light in a homogeneous atmosphere in which the meteorological visibility is 10 nautical miles.

*Geographical range of a light*—the greatest distance at which a light can be seen as a function of the curvature of the earth, the height of the light source and the height of the observer.

The visibility of a light is usually the distance that it can be seen in clear weather and is expressed in nautical miles. Visibilities listed are values received from foreign sources.

*Range lights*—two or more lights at different elevations, so situated to form a range (leading line) when brought into transit. The light nearest the observer is the *front light* and the one farthest from the observer is the *rear light*. The front light is normally at a lower elevation than the rear light.

*Directional lights*—lights illuminating a sector of very narrow angle and intended to mark a direction to be followed.

*Vertical lights*—Two or more lights disposed vertically or geometrically to form a triangle, square, or other figure. If the individual lights serve different purposes, those of lesser importance are called *Auxiliary lights*.

*Occasional lights*—lights exhibited only when specially

needed:

(a) *Tidal light*—shown at the entrance of a harbor, to indicate tide and tidal current conditions within the harbor.

(b) *Fishing light*—for the use of fishermen and shown when required.

(c) *Private light*—maintained by a private authority for its own purposes. The mariner should exercise special caution when using a private light for general navigation.

*Seasonal lights*—usually shown only during the navigation season or for a lesser time period within that season.

*Articulated lights*—offshore aids to navigation consisting of a length of pipe attached directly to a sinker by means of a pivot or such other device employing the principle of the universal joint. The positional integrity is intermediary between that of a buoy and a fixed aid.

*Aeronautical lights*—lights of high intensity which may be the first lights observed at night from vessels approaching the coast. Those lights situated near the coast are listed in the List of Lights in order that the navigator may be able to obtain more information concerning their description.

These lights are not designed or maintained for marine navigation and they are subject to change without prompt notification.

These lights are indicated in this List by the designation AVIATION LIGHT and are placed in geographical sequence in the body of the text along with lights for surface navigation.

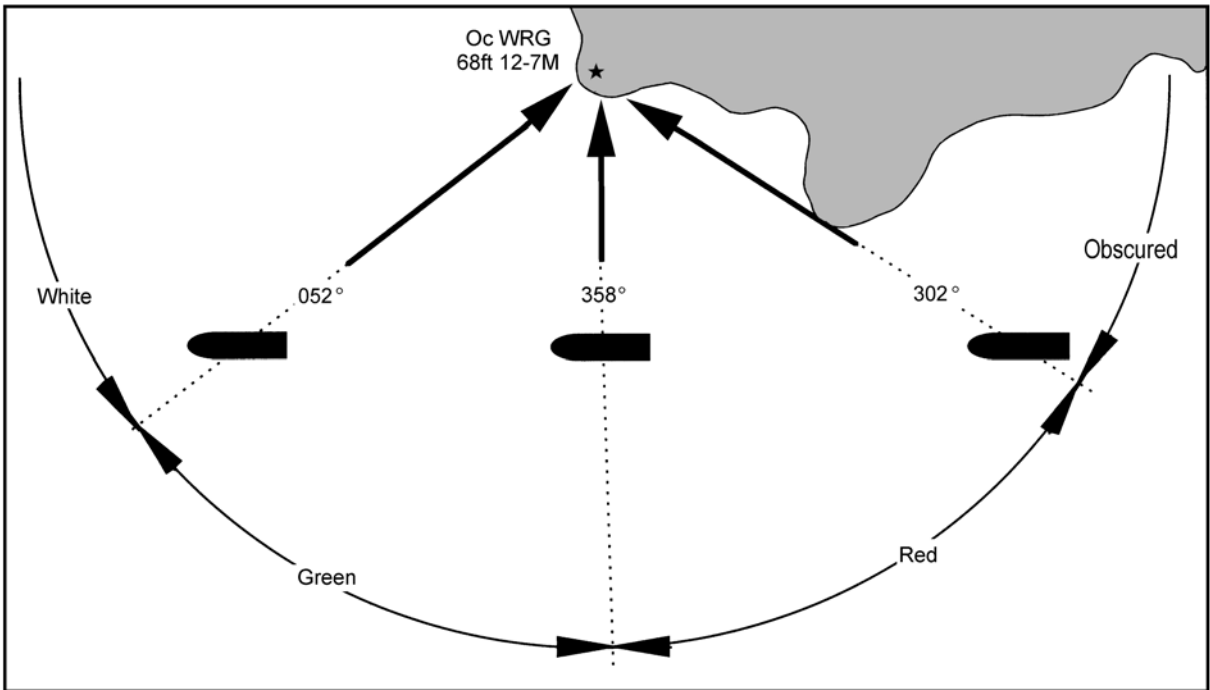
*Aeromarine lights*—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

*Sector limits and arcs of visibility*—these are arranged clockwise and are given from seaward toward the light. Thus, in the diagram, the sectors of the light are defined as: obscured from shore to 302°, red to 358°, green to 052°, white to shore. These are bearings of the light as seen from a vessel crossing the sector lines.

Under some conditions of the atmosphere, white lights may have a reddish hue. The mariner should not judge solely by color where there are sectors but should verify this position by taking a bearing of the light. On either side of the line of demarcation between white and red there is always a small sector of uncertain color, as the edges of a sector of visibility cannot be clearly defined.

When a light is obscured by adjoining land and the arc of visibility is given, the bearing on which the light disappears may vary with the distance from which it is observed. When the light is cut off by a sloping point of land or hill, the light may be seen over a wider arc by a ship farther off than by one closer.

*Bearings*—all bearings are true, measured clockwise from 000°, and given in degrees or degrees and minutes.





## LIGHTSHIPS, SUPERBUOYS, AND OFFSHORE LIGHT STATIONS

Courses should be set to pass all floating aids to navigation with sufficient clearance to avoid the possibility of collision from any cause. Experience shows that floating aids to navigation cannot be safely used as leading marks to be passed close aboard, but should always be left broad off the course, whenever searoom permits.

When approaching a lightship, superbuoy, or a station on a submarine site on radio bearings, the risk of collision will be avoided by insuring that the radio bearing does not remain constant.

Most lightships and large buoys are anchored with a very long scope of chain and, as a result, the radius of their swinging circle is considerable. The charted position is the location of the anchor. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers which are certain to hazard a vessel attempting to pass close aboard.

During extremely heavy weather and due to their exposed locations, lightships may be carried off station. The mariner should, therefore, not implicitly rely on a lightship maintaining its precisely charted position during and immediately following severe storms. A lightship known to be off station will secure her light, fog signal, and radiobeacon and fly the International Code signal "LO" signifying "I am not in my correct position."

*Russian* lightships are on station during periods of navigation and leave their stations only when forced to because of ice and are then replaced as soon as possible. Lightships by day show a ball over a yellow flag with a blue St. George's cross. If a vessel is seen standing into danger the signal "NF" of the International Code of Signals is hoisted, and if not immediately seen, rockets with two explosions and bright stars may be fired every minute: by night the rockets only are used.

When not on their proper stations, the light vessels discontinue their characteristic lights and fog signals and, if possible, will lower their daymarks. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the International Code signal "LO" or will show a

red and a white flare-up light or flash simultaneously at least every 15 minutes.

Red flags in place of the black balls and red and a white light shown simultaneously may be used in place of the flare-up light or flash.

A lightship under way shows the same lights and makes the same sound signals as other vessels under way and, if preceding under its own power, hoists two black balls, one forward and one aft.

Relief lightships are painted red, with two masts. By day they display a red ball at each mast, and by night exhibit a fixed red light from the same positions. Fog signals are sounded and the warning signals described above are employed.

Fog bells at *Russian* lighthouses and lightships are sounded, unless stated otherwise, in the following uniform manner:

(a) at lighthouses: in groups of double strokes, the interval between the groups being not more than 3 minutes.

(b) at lightships: in groups of triple strokes, the interval between the groups being not more than 2 minutes.

When the fog signal of an approaching vessel is heard, the intervals between the double and triple strokes in the groups are reduced and the bell is sounded continuously in double or triple strokes until the vessel is past the light or clear of danger.

Due to a lack of information it is not possible to ensure that the details of navigational aids are correct.

In *France*, *Lebanon* and *Tunisia* lights may be shown by day in poor visibility.

In *Spain* and *Morocco* lights are shown from 15 minutes after sunset until 15 minutes before sunrise.

Oil rigs in *Angolan* waters marked by Mo(U) W 18s Siren 20s are moored inside the 600 fathom contour. Such lights are not included in this list.

It has been reported that the lights of *Guinea* and *Liberia* are unreliable.

## FOG SIGNALS

The function of a fog signal in the system of aids to navigation is to warn of danger and to provide the mariner with an audible means of approximating his position relative to the fog signal when the station, or any visual signal which it displays, is obscured from view by atmospheric conditions.

Fog signals depend upon the transmission of sound through air. As aids to navigation, they have certain inherent defects that should be considered. Sound travels through the air in a variable and frequently unpredictable manner.

It has been established that:

fog signals are heard at greatly varying distances and that the distance at which a fog signal can be heard may vary with the bearing of the signal and may be different on different occasions;

under certain conditions of atmosphere, when a fog signal has a combination of high and low tones, it is not unusual for one of the tones to be inaudible. In the case of sirens, which produce a varying tone, portions of the blast may not be heard;

there are occasionally areas close to the signal in which it is wholly inaudible. This is particularly true when the fog signal is screened by intervening land or other obstructions;

fog may exist a short distance from a station and not be observable from it, so that the signal may not be in operation;

even though a fog signal may not be heard from the deck or bridge of a ship when the engines are in motion, it may be heard when the ship is stopped, or from a quiet position. Sometimes it may be heard from aloft though not on deck;

the intensity of the sound emitted by a fog signal may be greater at a distance than in immediate proximity.

All these considerations point to the necessity for the utmost caution when navigating near land in fog. Particular attention should be given to placing lookouts in positions in which the noises in the ship are least likely to interfere with hearing a fog signal. Fog signals are valuable as warnings, but the mariner should not place implicit reliance upon them in navigating his vessel. They should be considered solely as warning devices.

Among the devices in common use as fog signals are:

Radiobeacons which broadcast simple dot-and-dash combinations by means of a transmitter emitting modulated continuous waves;

Diaphones which produce sound by means of a slotted reciprocating piston actuated by compressed air. Blasts

may consist of two tones of different pitch, in which case the first part of the blast is high and the last of a low pitch. These alternate pitch signals are called "two-tone;"

Diaphragm horns which produce sound by means of a diaphragm vibrated by compressed air, steam, or electricity. Duplex or triplex horn units of differing pitch produce a chime signal;

Nautophones, electrically operated instruments, each comprising a vibrating diaphragm, fitted with a horn, which emits a high note similar in power and tone to that of the reed;

Reed horns which produce sound by means of a steel reed vibrator by compressed air;

Sirens which produce sound by means of either a disk or a cup-shaped rotor actuated by compressed air or electricity;

Whistles which produce sound by compressed air emitted through a circumferential slot into a cylindrical bell chamber;

Bells which are sounded by means of a hammer actuated by hand, wave motion, by a descending weight, compressed gas, or electricity;

Guns and explosive signals which are produced by firing of explosive charges, the former being discharged from a gun, and the latter being exploded in midair;

Fog Detector Lights—certain light stations, in addition to the main light, are equipped with fog detector lights for automatic detection of fog. These lights sweep back and forth through an area over which the fog watch is necessary, showing a powerful bluish-white flash of about 1 second in duration. The interval between successive flashes will vary with the position of the vessel within the sector. At the limits of the sector the duration of the flash may be considerably longer than 1 second.

Fog detector lights operate continuously.

Standby fog signals are sounded at some of the light and fog signal stations when the main fog signal is inoperative. Some of these standby fog signals are of a different type and characteristic than the main fog signal.

Radiobeacons, RACONs, RAMARKs, and radio direction-finders are mentioned in the List of Lights, but for detailed information, including the synchronization of radio signals and sound signals for distance finding, the navigator should consult Pub. 117, Radio Navigational Aids.

Note—use Chart No. 1 for the complete list of symbols and abbreviations commonly used in presenting the essential characteristics of lights, fog signals, and radio aids found on charts.

## VISIBILITY TABLE

*Table of distances at which objects can be seen at sea according to their respective elevations and the elevation of the eye of the observer.*

Height in Feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles
1	1.2	23	5.6	45	7.8	135	13.6	340	21.6	600	28.7
2	1.7	24	5.7	46	7.9	140	13.8	350	21.9	620	29.1
3	2.0	25	5.9	47	8.0	145	14.1	360	22.2	640	29.5
4	2.3	26	6.0	48	8.1	150	14.3	370	22.5	660	30.1
5	2.6	27	6.1	49	8.2	160	14.8	380	22.8	680	30.5
6	2.9	28	6.2	50	8.3	170	15.3	390	23.1	700	31.0
7	3.1	29	6.3	55	8.7	180	15.7	400	23.4	720	31.4
8	3.3	30	6.4	60	9.1	190	16.1	410	23.7	740	31.8
9	3.5	31	6.5	65	9.4	200	16.5	420	24.0	760	32.3
10	3.7	32	6.6	70	9.8	210	17.0	430	24.3	780	32.7
11	3.9	33	6.7	75	10.1	220	17.4	440	24.5	800	33.1
12	4.1	34	6.8	80	10.5	230	17.7	450	24.8	820	33.5
13	4.2	35	6.9	85	10.8	240	18.1	460	25.1	840	33.9
14	4.4	36	7.0	90	11.1	250	18.5	470	25.4	860	34.3
15	4.5	37	7.1	95	11.4	260	18.9	480	25.6	880	34.7
16	4.7	38	7.2	100	11.7	270	19.2	490	25.9	900	35.1
17	4.8	39	7.3	105	12.0	280	19.6	500	26.2	920	35.5
18	5.0	40	7.4	110	12.3	290	19.9	520	26.7	940	35.9
19	5.1	41	7.5	115	12.5	300	20.3	540	27.2	960	36.3
20	5.2	42	7.6	120	12.8	310	20.6	560	27.7	980	36.6
21	5.4	43	7.7	125	13.1	320	20.9	580	28.2	1000	37.0
22	5.5	44	7.8	130	13.3	330	21.3				

**Explanation.**—The line of sight connecting the observer and a distant object is at maximum length tangent with the spherical surface of the sea. It is from this point of tangency that the tabular distances are calculated. The table must accordingly be entered twice to obtain the actual geographic visibility of the object—first with the height of the object, and second with the height of the observer’s eye—and the two figures so obtained must be added. Thus, if it is desired to find the maximum distance

at which a powerful light may be seen from the bridge of a vessel where the height of eye of the observer is 55 feet above the sea, from the table:

	Nautical Miles
55 feet height of observer (visible) . . . . .	8.7
200 feet height of light (visible) . . . . .	<u>16.5</u>
Distance visible . . . . .	25.2

## CONVERSION TABLE — FEET TO WHOLE METERS

(FOR HEIGHTS OF LIGHTS)

**1 foot = 0.3048 meter**

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
		40	12	80	24	120	37	160	49	200	61
1	0	41	12	81	25	121	37	161	49	300	91
2	1	42	13	82	25	122	37	162	49	400	122
3	1	43	13	83	25	123	37	163	50	500	152
4	1	44	13	84	26	124	38	164	50	600	183
5	2	45	14	85	26	125	38	165	50	700	213
6	2	46	14	86	26	126	38	166	51	800	244
7	2	47	14	87	27	127	39	167	51	900	274
8	2	48	15	88	27	128	39	168	51	1000	305
9	3	49	15	89	27	129	39	169	52		
10	3	50	15	90	27	130	40	170	52		
11	3	51	16	91	28	131	40	171	52		
12	4	52	16	92	28	132	40	172	52		
13	4	53	16	93	28	133	41	173	53		
14	4	54	16	94	29	134	41	174	53		
15	5	55	17	95	29	135	41	175	53		
16	5	56	17	96	29	136	41	176	54		
17	5	57	17	97	30	137	42	177	54		
18	5	58	18	98	30	138	42	178	54		
19	6	59	18	99	30	139	42	179	55		
20	6	60	18	100	30	140	43	180	55		
21	6	61	19	101	31	141	43	181	55		
22	7	62	19	102	31	142	43	182	55		
23	7	63	19	103	31	143	44	183	56		
24	7	64	20	104	32	144	44	184	56		
25	8	65	20	105	32	145	44	185	56		
26	8	66	20	106	32	146	45	186	57		
27	8	67	20	107	33	147	45	187	57		
28	9	68	21	108	33	148	45	188	57		
29	9	69	21	109	33	149	45	189	58		
30	9	70	21	110	34	150	46	190	58		
31	9	71	22	111	34	151	46	191	58		
32	10	72	22	112	34	152	46	192	59		
33	10	73	22	113	34	153	47	193	59		
34	10	74	23	114	35	154	47	194	59		
35	11	75	23	115	35	155	47	195	59		
36	11	76	23	116	35	156	48	196	60		
37	11	77	23	117	36	157	48	197	60		
38	12	78	24	118	36	158	48	198	60		
39	12	79	24	119	36	159	48	199	61		

# RADIOBEACONS

## RADIO DIRECTION-FINDER SETS ON SHIPS

Radio direction-finder sets on board ship enable bearings to be taken of transmissions from other ships, aircraft, shore stations, marine radiobeacons, and the coastal stations of the radio communication network. When located in the pilothouse or on the navigating bridge, the direction-finder enables the navigating officer to obtain bearings himself without reference to others and without delay.

Due to the great value of radio bearings, particularly when visibility is poor and when celestial observations cannot be obtained, the radio direction-finder on board ship deserves the same consideration and care as are given to the sextant and compass. It has the following characteristics in common with the two latter navigational instruments: the readings are subject to certain errors; these errors may be reduced by skillful and intelligent operation; the dangers of using erroneous readings may be greatly reduced by the intelligence and good judgment of the mariner. In order to acquire experienced judgment in the operation of the instrument, it is essential that the mariner use it as much as practicable.

Troubles from interference and weak signals are greatly reduced by the use of direction-finders of proper selectivity. The bearings must be corrected for radio deviation as shown by the calibration curve of the set.

### Types of Radiobeacons

1. Directional radiobeacons which transmit radio waves in beams along fixed bearings.
2. Rotating radiobeacons by which a beam of radio waves is resolved in azimuth in a manner similar to the beam of light sent out by rotating lights.
3. Circular radiobeacons which send out waves of approximately uniform strength in all directions so that ships may take radio bearings of them by means of the ship's radio direction-finder sets. This is the most common type of radiobeacon.

To extend the usefulness of marine radiobeacons to ships and aircraft employing automatic radio direction finders, U.S. marine radiobeacons on the Atlantic and Pacific Coasts and Great Lakes have been modified to transmit a continuous carrier signal during the entire radiobeacon operating period with keyed modulation providing the characteristic signal. Unless a beat frequency oscillator is installed, the continuous carrier signals are not audible to the operator of an aural null direction finder. A ten second dash has been included in the characteristic of these radiobeacons, to enable the navigator using a conventional aural null direction finder to refine his bearing. Vessels with direction finders will be able to use the United States

radiobeacons located on the Atlantic and Pacific Coasts, and Great Lakes at any time in their assigned sequence.

### Aeronautical Radio Aids

Aeronautical radiobeacons and radio ranges are often used by navigators of marine craft in the same manner as marine radiobeacons are used for determining lines of positions. They are particularly useful along coasts where marine broadcast coverage is inadequate. Aeronautical aids situated inland become less trustworthy, so far as ships are concerned, when high land intervenes between them and the coast. They are established to be of primary usefulness to aircraft, and surface craft should use these aids with caution. Only those aeronautical radiobeacons considered to be of use to the mariner have been selected for inclusion in this publication.

**AERONAUTICAL RADIOBEACONS.** Like marine radiobeacons, these aids broadcast a characteristic signal on a fixed frequency.

**NOTE:** The assigned frequency of aeronautical radiobeacons is normally from 200 to 415 kHz while the frequency of marine radiobeacons is normally from 285 to 325 kHz. Aeronautical radiobeacons not within the marine radiobeacon band will not normally be listed in this publication.

The range signals are interrupted at intervals to permit broadcast of the identification signal. In aviation publications the range leg bearings are most often given as magnetic bearings toward the station; in this publication they are given as true bearings toward the station. Unless otherwise stated in the station details, aeronautical radio aids mentioned in this publication transmit continuously.

**NOTE:** Mariners are advised that changes to and deficiencies in aeronautical radio facilities are not always immediately available to maritime interests and the positions are approximate and listed to the nearest minute only.

### Obligations of Administrations Operating Radiobeacons

The obligations of nations and other administrations operating radiobeacons are given in Article 43 of the Radio Regulations of the International Telecommunication Union, Geneva.

### Accuracy of Bearings Taken Aboard Ship

No exact rules can be given as to the accuracy to be expected in radio bearings taken by a ship as the accuracy depends to a large extent upon the skill of the ship's operator, the condition of the ship's equipment, and the accu-

racy of the ship's calibration curve. Mariners are urged to obtain this information by taking frequent radio bearings when their ship's position is accurately known and by recording the results. Normally, United States radiobeacons are operated in a group of six, each station in a group using the same frequency and transmitting for one minute in its proper sequence, and operate during all periods, either sequenced or continuously, regardless of weather conditions.

**SKILL OF OPERATOR:** Skill in the operation of the radio direction-finder can be obtained only by practice and by observing the technical instructions for the set in question. For these reasons the operator should carefully study the instructions issued with the set and should practice taking bearings frequently.

**OPERATOR'S ERROR:** As the operator obtains bearings by revolving the direction-finder coil until the signal disappears or becomes a minimum, the operator can tell by the size of the arc of silence or of minimum strength approximately how accurately the bearing has been taken. For instance, if the minimum is broad and the residual signal covers about  $10^\circ$  with equal strength, it is doubtful if the bearing can be accurately estimated. On the other hand, if a sharp minimum can be obtained, the operator can determine the bearing to within a half of a degree.

In this connection it should be noted that a properly operating and correctly adjusted direction-finder should in no case produce other than a point or arc of absolute silence. That is, there should be no "residual" signal at the point or arc of observation. The sharpness and completeness of the arc of silence are the best indications of a properly operating direction-finder, and their absence is the best indication of the presence of "night effect."

**SUNRISE, SUNSET, OR NIGHT EFFECT:** Bearings obtained from about half an hour before sunset to about half an hour after sunrise may be subject to errors due to night effect. On some nights this effect is more pronounced than on others and effect is usually greatest during the hours of twilight. Night effect may be detected by a broadening of the arc of minimum signals and by a fluctuation in the strength of the signals. It may also be indicated by difficulty in obtaining a minimum or by a rapidly shifting minimum. It is sometimes accompanied by an actual shift in the direction of the bearings. If it is essential to obtain a bearing when the night effect is pronounced, several bearings should be taken over a short period of time and an average taken of them.

**RADIO DIRECTION FINDER WITHOUT GYRO REPEATERS:** The ship's compass must be read as the bearing is taken or an error may be introduced equal to the amount that the ship has yawed in the interval between taking the bearing and reading the compass. Any error in the ship's compass must be applied to the bearing.

**RECIPROCAL BEARINGS:** In some direction-finder sets, the operator cannot tell from which side of the ship the signals are coming. With these sets the operator shall correct both bearings for their respective deviations and give both corrected bearings to the person who is plotting the bearings on the chart. If the mariner is in doubt as to the side of the ship from which the bearings are coming, this difficulty can usually be solved by having another bearing taken after the ship has steamed a short distance and noting in which direction the bearing is changing.

**CALIBRATION:** It is essential that the radio direction-finder be accurately calibrated in order that the bearings may be corrected for deviation. While the bearings are being taken, other radio antennas on board must be in the same condition as they were when the calibration was made; movable parts of the ship's superstructure such as booms, davits, wire rigging, etc., must be secured in the positions which they occupied when the direction-finder was calibrated. Unusual cargoes such as large quantities of metals and extraordinary conditions of loading may cause errors.

The direction-finder should be recalibrated after any changes have been made in the set or its surroundings (this includes alterations to or changes in position of antennas, wire rigging, boat davits, booms, etc.) whenever there is reason to believe that the previous calibration has become inaccurate, and also at periodic intervals.

The calibration must be made on approximately the same frequency or frequencies as will be used to take bearings because the deviation for several frequencies is not likely to be the same. It is believed that one calibration curve is satisfactory for the normal radiobeacon frequency (285 to 325 kHz), but the instructions issued by the manufacturer of the particular direction-finder in question should be studied in this connection.

To facilitate the calibration of ship's direction-finders, special arrangements have been made by some services for operation of their radiobeacons at times other than their published schedules. Information as to the arrangements made by the United States stations in this respect is as follows:

Sequenced radiobeacons cannot broadcast at any time other than on their assigned operating minute for the purpose of enabling vessels to calibrate their radio direction finders without causing interference. Special radio direction finder calibration transmitters of short range are operated at certain localities to provide continuous calibration service.

The position given for the antenna is the point from which the radiobeacon signal is emitted.

If it is not practicable to determine the time of calibration sufficiently in advance to contact the district commander, request may be made directly to the stations by means of telephone, telegraph, or a whistle signal consisting of three long blasts; followed by three short blasts.

This whistle signal is to be repeated until it is acknowledged by the station through the starting of the transmitter. The same group of signals should be sounded at the termination of calibration.

The work of the station personnel is not confined to standing watch and there may be times when the whistle request for calibration is not immediately heard, due to the noise from operating station machinery, etc. Usually, a repeated signal not too far from the station will attract attention.

**“COMPENSATED” RADIO DIRECTION-FINDERS:** Many radio direction-finders are “compensated” and no calibration chart or curve is used. Attention is invited to the fact that such compensation is just as vulnerable as the calibration data due to changes made in the set or its surroundings.

**CHECK THE CALIBRATION:** The calibration of compensation should be checked frequently by taking bearings when the ship’s position is accurately known and the results should be recorded for future reference.

**CALIBRATION RADIOBEACONS:** In the United States and certain other areas special radiobeacons, primarily for calibrating shipboard direction-finders are in operation. These radiobeacons transmit either continuously during scheduled hours or upon request, as indicated in station details.

**COASTAL REFRACTION (OR LAND EFFECT):** Errors may occur in bearings taken by ships so located that the line of observation to the radiobeacon passes over land or along the shore line. However, many observations seem to indicate that such errors are negligible when the observing vessel is well out from the shore. Bearings secured entirely over water areas are to be preferred since “land effect” is thus eliminated. Bearings taken at sunset and sunrise are likely to be erratic, and observations taken at these hours should therefore be repeated and checked as may be feasible.

**PROGRAM BROADCASTING STATIONS:** Before taking bearings on a station broadcasting entertainment programs a mariner should consider that frequency may differ widely from the frequency for which the set is calibrated, that the published location of the station may be that of its studio and not that of its transmitting antenna, that if the station is synchronized with other stations it may be impossible to tell on which station the bearing was taken, and that as the majority of these stations are inland, the coastal refraction may be excessive.

### **Station Details**

**FREQUENCY:** The frequency listed is that used by the station in transmitting its “Characteristic Signal.” Calling frequencies, if any, will be given under “remarks.”

**RANGE:** In this book the range of radiobeacons is only approximate and is given merely to assist mariners in

planning their voyages and to inform them of several radiobeacons they will probably hear first. Frequently, when conditions for radio reception are good, radiobeacons may be heard at greater distances than indicated. The mariner who is at a greater distance than the range indicated should attempt to obtain bearings when necessary, and not assume that the radiobeacon will be unheard beyond its indicated range.

**GROUP SEQUENCE:** Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary returning.

**ANTENNA LEAD-IN:** Included in the details of many radiobeacons located at or near light stations is a statement of the distance and bearing of the radiobeacon transmitting antenna from the light tower. Use should be made of this information when calibrating the ship’s direction-finding equipment by means of simultaneous visual and radio bearings.

### **Plotting Radio Bearings**

The procedure for converting radio (great circle) bearings as received by direction-finder equipment aboard ship is identical with that used in converting radio bearings supplied by direction-finder stations on shore and is described in section 100E “Plotting Radio Bearings” of Pub. 117, Radio Navigational Aids.

### **Synchronization for Distance Finding**

At some radiobeacon stations, sound signals, either submarine or air or both, are synchronized with the radiobeacon signals for distance finding. Ordinarily, the sound signals do not operate during the transmission period of the radio signal in clear weather. The methods in use employ, as a rule, distinctive signals to indicate the point of synchronization, and make use, for determining distance, of the lag of signals traveling through air or water as compared to the practically instantaneous travel of the radio signals.

In the case of some sound signals, a series of short radio dashes is transmitted at intervals following the synchronizing point, so that by counting the number of such short dashes heard after the distinctive radio signal and before hearing the corresponding distinctive sound signal, the observer obtains the distance, in miles equal to the number of dashes counted, from the sound signal apparatus unless stated otherwise.

In the case of other signals, the observer notes the number of seconds intervening between the reception of the distinctive radio signal and the corresponding sound signal and uses a factor to determine distances in miles as follows:

Submarine signals—multiply the observed numbers of seconds by 0.8 or divide by 1.25 distance in nautical miles.

Air signals—multiply the observed number of seconds by 0.18 or divide by 5.5. For more approximate results or for statute miles, multiply the observed number of seconds by 0.2 or divide by 5.

*Tables for finding distance*

Interval in seconds	Distances in nautical miles from sound signal source	
	Air	Submarine
1	0.18	0.8
2	0.36	1.6
3	0.54	2.4
4	0.72	3.2
5	0.90	4.0
6	1.08	4.8
7	1.26	5.6
8	1.44	6.4
9	1.62	7.2
10	1.80	8.0
20	3.60	16.0
30	5.40	24.0
40	7.20	
50	9.00	
60	10.80	

REMARKS: Average speed of sound travel in water is 1 nautical mile in 11/4 seconds.

The speed of sound travel is influenced by a number of conditions making it impracticable to state a factor that will give exact results under all conditions. The results obtained by the methods described may be accepted as being accurate to within 10 percent of the distance.

Methods of synchronizing the signals vary and are described or illustrated in official announcements regarding them. It is essential to note carefully the point of synchronization used so that no error will be made through taking time on the wrong signal or the wrong part of it.

In observing air signals it is usually sufficient to use a watch with second hand, although a stop watch is helpful. For submarine signals where the interval is shorter and a time error correspondingly more important, it is essential that a stop watch or other timing device be used. Where the radiobeacon and submarine signals are not received at the same point on the vessel, means of instant communication between two observers should be available or synchronized stop watches provided for each.

Ships not equipped with a DF receiver can take advantage of the distance-finding feature of a radiobeacon station, if equipped with a radio receiver capable of receiving

the transmission. In the case of obtaining distance from a radiobeacon station which is synchronized with a submarine sound signal, the ship must also be equipped with a device for picking up submarine sound signals.

### Rotating Loop Radiobeacon

#### MODE OF OPERATION:

(1) The radiobeacon consists of a rotating loop transmitter having directional properties by which an observer in a ship can obtain his bearing from the beacon without the use of a direction-finder. Any ordinary receiving set capable of being tuned to the radiobeacon's frequency may be used. The only other equipment required is a reliable stop watch or chronograph with a sweep second hand. Stop watches and clocks with dials graduated in degrees may be used, from which bearings may be read directly without any mathematical calculation.

(2) During each revolution of the beacon, the signals received by the observer will rise and fall in intensity, passing through a maximum and a minimum twice each minute. The positions of minimum intensity, which occur at intervals of thirty seconds from one another, are very sharp and can be accurately observed. These are, therefore, used for navigation purposes.

The beacon may be regarded as having a line or beam of minimum intensity which rotates at a uniform speed of 360° in 1 minute (i.e. 6° in 1 second) based on the true meridian as starting point. Therefore, if the observer can (a) identify the beacon and (b) measure the number of seconds which this minimum beam takes to reach their position starting from the true meridian, this number multiplied by six will give their true bearing from the beacon or its reciprocal.

The signals which enable the beacon to be identified and the bearing to be calculated are described in the following paragraphs:

Signals transmitted by the beacon: Each transmission from the beacon lasts for 4 minutes; the beacon is then silent for 8 minutes, and automatically starts again at the end of the silent period. Each transmission consists of two parts: (a) the identification signal of the station set at a slow speed for the first minute, commencing when the minimum beam is true east and west and followed by a long dash of about 12 seconds duration; (b) the signal group commencing when the minimum beam is approaching the true meridian, and consisting of (i) the north starting signal, which is the letter V followed by two dots (•• — ••); (ii) a long dash of about 12 seconds duration; (iii) the east starting signal, which is the letter B followed by two dots (— •• ••); and (iv) a long dash for about 42 seconds.

The navigation signals are repeated during the remainder of the transmission and signals cease when the minimum beam is in the east and west position.



## INSTRUCTIONS FOR TAKING BEARINGS

- (i) Set stop watch to zero.
- (ii) Listen for identification signal.
- (iii) When the first long dash begins (at A on diagram) get ready for the "north signal."
- (iv) After the "north signal," start stop watch exactly at beginning of long dash (see "00 seconds" on diagram) counting one-two with the two preceding dots, and 3 for the start of the stop watch.
- (v) Listen for minimum and note its exact time by stop watch.

NOTE: If stop watch is graduated in degrees note exact angle, which is the bearing.

- (vi) Multiply number of seconds by  $6^\circ$  for bearing.
- (vii) Determine whether bearing is direct or reciprocal.
- (viii) If the "north signal" is faint, use the "east signal," but add  $090^\circ$  to final bearing.

Particular attention is directed to the following:

(a) The stop watch must be started exactly at the beginning of the long dash for each series of observations.

(b) The time of occurrence of the minimum must be read to the nearest fifth of a second.

(c) The bearing obtained will be either the direct bearing or its reciprocal.

(d) When using the east signal, add  $090^\circ$  to obtain bearings from true north.

(e) The beacon is set up on the true meridian, and no correction is required for magnetic variation.

(f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.

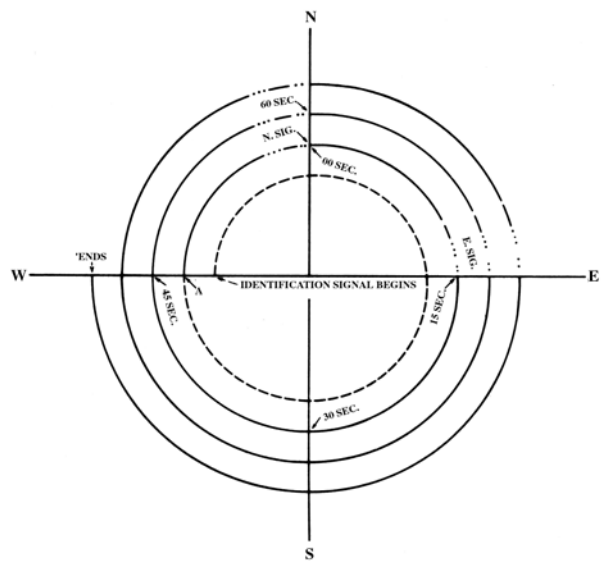
(A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)

(g) A comparatively large error of bearing may occur due to inaccuracy in the stop watch, and to obviate this,

observers or navigators should check their stop watches on the beacon station before taking bearings. This can easily be done by checking the time by stop watch of the complete revolution of the beacon transmission. Any error found can then be allowed for.

### Caution

Due to the many factors which enter into the transmission and reception of radio signals, a mariner cannot practically estimate its distance from a radiobeacon either by the strength of the signals received or by the time at which the signals were first heard. Mariners should give this fact careful consideration in approaching radiobeacons. A diagram showing the signals used is given below.



ROTATING RADIOBEACON  
SIGNAL DIAGRAM

## DESCRIPTION

(Radiobeacons)

Information is tabulated in eight columns as follows:

**Column 1:** The number assigned to each radiobeacon by this Agency.

**Column 2:** Name and/or descriptive location of the radiobeacon.

**Column 3:** Approximate latitude and longitude of the radiobeacon to the nearest tenth of a minute.

**Column 4:** Radiobeacon characteristics. Included in this column are the Morse code, period in seconds, length of transmission and silence time.

**Column 5:** Range (approximate) in nautical miles.

**Column 6:** Group sequence. Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary return.

**Column 7:** Frequency (given in kilohertz) and amplitude modulation (see Table Symbols).

**Column 8:** Remarks. Transmission synchronization, type of radiobeacon (marine, aero, etc.), calibration, antenna lead-in, calling frequencies, distance-finding information, service charges, hours of transmission, directional signals and other pertinent information.

## ABBREVIATIONS

aero ..... aeronautical  
tr ..... transmission  
si ..... silence  
s ..... seconds  
(4) ..... 4 times  
Transmission is continuous unless otherwise stated.

## TABLE OF SYMBOLS

### LEGEND

- (1) Type of modulation of the main carrier.
- (2) Nature of signal(s) modulating the main carrier.
- (3) Type of “information” to be transmitted. “Information” does not include information of a constant, unvarying nature such as provided by standard frequency emissions, continuous wave and pulse radars, etc.

### AMPLITUDE MODULATION:

#### **N0N**

- (1) Emission of an unmodulated carrier.
- (2) No modulating signal.
- (3) No information transmitted.

#### **A1A**

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

#### **A2A**

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

#### **A3E**

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

#### **R3E**

- (1) Single-sideband (reduced or variable level carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

#### **B8E**

- (1) Independent sidebands.
- (2) Two or more channels containing analog information.
- (3) Telephony (including sound broadcasting).

#### **H2A**

- (1) Single-sideband (full carrier).
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

**H3E**

- (1) Single-sideband (full carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

**J3E**

- (1) Single-sideband (suppressed carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

**A3C**

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Facsimile.

**A3F**

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Television (video).

**B7D**

- (1) Independent sidebands.
- (2) Two or more channels containing quantized or digital information.
- (3) Data transmissions, telemetry, telecommand.

Note: With 6 kHz. EDW operation in the bands below 30 MHz allocated exclusively for Maritime Mobile Service (FC, MO).

**FREQUENCY (OR PHASE) MODULATION:****F1B**

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

**F2A**

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

**F3E**

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

### **F3C**

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Facsimile.

### **F3F**

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Television (video).

### **P1B**

- (1) Sequence of unmodulated pulses.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

Pulse Modulation:

GHz = gigahertz

kHz = kilohertz

MHz = megahertz

## **DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)**

Differential Global Positioning System (DGPS) is a radio-based navigation system that eliminates errors in a GPS receiver that will allow the accuracy level to be significantly enhanced. DGPS accuracy can be 10 meters or better, compared with 100 meters or better with GPS. This is possible by placing a high-performance GPS receiver (reference station) at a known location. Because the receiver knows its exact location, it can determine the errors in the satellite signals. The satellite measures the ranges to each satellite using the signals received and comparing these measured ranges to the actual ranges calculated from its known position. The total error is the difference between the measured and calculated range. The error data for each tracked satellite is formatted into a correction message and transmitted to GPS users. The correction message format follows the standard established by the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM-SC104). These differential corrections are then applied to the GPS calculations, thus removing most of the satellite signal error and improving accuracy.

Terms for understanding DGPS:

### **DGPS Correction Receiver**

A DGPS correction receiver decodes the signals received from a reference site. Data is formatted into a serial RTCM SC104 data stream and provided to the remote GPS receiver. There are many types of DGPS correction receivers.

### **GPS Receivers**

The GPS receiver measures ranges to each satellite, but before the measurements are used to calculate position, corrections received from the DGPS receiver are applied to the measurements. The position is then calculated using the corrected range measurements providing vastly increased accuracy.

### **Modulator**

Depending on the transmission format, the modulator encodes the data as necessary for transmission.

### **Reference Station**

The reference station GPS receiver knows exactly the position of its antenna, therefore it knows what each satellite range measurement should be. It measures the ranges to each satellite using the received signals just as if it was going to calculate position. The measured ranges are subtracted from the known ranges and the result is range error. The range error values for each satellite are formatted into messages in the RTCM SC104 format and transmitted continuously.

### **Transmitter**

The transmitter is basically a power amplifier which is connected to an antenna system. The modulated carrier is amplified and driven to the antenna. In the United States Coast Guard system, the transmitter is 250-1000 Watts and operates in the 300Khz frequency range. The amplified signal is radiated via the antenna to remote DGPS receivers for real-time position correction.

## DESCRIPTION

(Differential GPS Stations)

Information is tabulated in eight columns as follows:

**Column 1:** The number assigned to each DGPS Station by this Agency.

**Column 2:** Name of the DGPS Station

**Column 3:** Approximate latitude and longitude of the DGPS Transmitting Station to the nearest tenth of a minute.

**Column 4:** Station ID which can be found in the IALA Master list. No two stations have the same ID. **T** denotes the Transmitting Station, **R** denotes the Reference Station.

**Column 5:** Range (approximate) in nautical miles.

**Column 6:** Frequency in kHz.

**Column 7:** Transfer Rate which equates to the baud rate and will be published as a whole number without any additional abbreviations such as "bps" (bits per second)

**Column 8:** Remarks. This column contains information about the reference stations and messages types transmitted. GPS Message Type Numbers are 1, 3, 4, 5, 6, 7, 9, 15 and 16. (*Refer to message type descriptions below*)

### GPS MESSAGE TYPE NUMBER INDICATORS

1	Differential GNSS corrections (full set of satellites)
3	Reference stations parameters
4	Datum used
5	Constellation health
6	Null frame (no information)
7	Radiobeacons Almanacs
9	Sub-set differential GNSS corrections
15	Ionospheric corrections
16	Special messages

# Section 1

## West Coast of France

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
ILE D'OUESSANT:							
4 A 1844	-Pointe de Creach.	48° 27.5' N 5° 07.7' W	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	230 70	30	White tower, black bands; 180.	Visible 255°-247°.
16 A 1842	-Le Stiff.	48° 28.5' N 5° 03.4' W	<b>Fl.(2)R.</b> period 20s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 14.3s	279 85	22	Two adjoining white towers; 105.	Radar tower 0.2 mile N. marked by Q.W. by day and F.R. by night.
18 A 1843	-Port du Stiff, E. mole, head.	48° 28.2' N 5° 03.2' W	<b>Dir.W.R.G.</b>	36 11	W. 10 R. 7 G. 7	White tower, green top; 20.	Q.G. 251°-254°, Q.W.-264°, Q.R.-267°.
20 A 1846	-Nividic.	48° 26.7' N 5° 09.1' W	<b>V.Q.(9)W.</b> period 10s	92 28	6	Gray octagonal tower; 118. Helicopter platform.	Visible 290°-225°.
24 A 1848	-La Jument.	48° 25.3' N 5° 08.0' W	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	118 36	10	Gray octagonal tower, red top; 157.	Visible 241°-199°.
28 A 1852	-Men-Korn.	48° 28.0' N 5° 01.3' W	<b>V.Q.(3)W.R.</b> period 5s	68 21	8	E. CARDINAL BYB, tower, topmark; 95.	W. 145°-040°, R.-145°.
38 A 1850	Men-Tensel (Kereon).	48° 26.2' N 5° 01.6' W	<b>Oc.(3)W.R.</b> period 12s lt. 1.5s, ec. 4.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	125 38	10	Gray tower; 134.	W. 019°-248°, R.-019°.
40 A 1870	Les Trois Pierres, NE. of Molene.	48° 24.7' N 4° 56.8' W	<b>Iso.W.R.G.</b> period 4s	49 15	W. 9 R. 6 G. 6	White column; 52.	G. 070°-147°, W.-185°, R.- 191°, G.-197°, W.-213°, R.-070°.
44 A 1871	Ile Molene, mole, head.	48° 23.8' N 4° 57.3' W	<b>Fl.(3)W.R.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	19 6	W. 9 R. 7 G. 7	Column, hut; 16.	G. 183°-190°, W.-192°, R.- 203°.
			<b>Fl.(2)W.R.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	W. 9 R. 7 G. 7		G. 252°30'-259°30', W.- 262°30', R.-269°30'.
48 A 1854	<b>Le Four.</b>	48° 31.4' N 4° 48.4' W	<b>Fl.(5)W.</b> period 15s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 6.2s	92 28	22	Gray truncated conical tower; 92.	
52 A 1856	Aber Ildut.	48° 28.3' N 4° 45.5' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	40 12	10	White buildings; 16.	G. 078°-081°, W.-085°, R.- 088°.
56 A 1862	Le Faix.	48° 25.7' N 4° 53.9' W	<b>V.Q.W.</b>	52 16	8	N. CARDINAL BY, tower, topmark; 69.	
76 A 1873.9	<b>Trezien.</b>	48° 25.4' N 4° 46.7' W	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	276 84	20	Gray truncated conical tower, white on S. side; 121.	Intensified from 003°-011°. Forms range 007° with 84. <b>AIS</b> (MMSI No 992271309).



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
80 A 1876	Pointe de Corsen.	48° 24.9' N 4° 47.6' W	<b>Dir.W.R.G.</b>	108 33	W. 12 R. 8 G. 8	White hut, walls; 10.	Q.R. 008°-012°, Q.W.-015°, Q.G.-021°. F.R. obstruction light on mast 400 meters ESE. Signal station.
84 A 1874	<b>Kermovan.</b>	48° 21.7' N 4° 47.4' W	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	66 20	22	White square tower; 66.	In line with 76, 88 and 104. <b>AIS</b> (MMSI No 992271316).
84.1 A 1873	Le Conquet.	48° 21.6' N 4° 47.0' W	<b>Fl.G.</b> period 2.5s	16 5	6	Green mast; 13.	
88 A 1880	<b>Lochrist.</b>	48° 20.6' N 4° 45.8' W	<b>Oc.(3)W.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	161 49	22	White octagonal tower, red top; 56.	Intensified 135°24'-140°24'. In line with 84. <b>AIS</b> (MMSI No 992271310).
92 A 1872	La Grande Vinotiere.	48° 21.9' N 4° 48.4' W	<b>Fl.R.</b> period 4s	39 12	5	Red octagonal tower; 62.	
104 A 1874.1	<b>St. Mathieu.</b>	48° 19.8' N 4° 46.3' W	<b>Fl.W.</b> period 15s fl. 0.2s, ec. 14.8s	184 56	24	White truncated conical tower, red top; 121.	<b>AIS</b> (MMSI No 992271318).
			<b>F.W.</b>	177 54	28		Intensified 157°30'-159°30'. Forms range 158° with 84.
108 A 1875	-Auxiliary, about 54 meters 291° from St. Mathieu.	48° 19.8' N 4° 46.3' W	<b>Q.W.R.G.</b>	85 26	W. 12 R. 8 G. 8	White tower.	G. 085°-107°, W.-116°, R.- 134°.
112 A 1884	Les Vieux Moines, Pointe de St. Mathieu, SW. head.	48° 19.3' N 4° 46.6' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	39 12	5	Red octagonal tower; 62.	Visible 280°-133°.
116 A 1886	<b>Les Pierres Noires.</b>	48° 18.7' N 4° 54.9' W	<b>Fl.R.</b> period 5s fl. 0.4s, ec. 4.6s	89 27	19	White truncated conical tower, red top; 92.	
136 D 0820	La Parquette.	48° 15.9' N 4° 44.3' W	<b>Fl.R.G.</b> period 4s fl. 1s, ec. 3s	56 17	6	White octagonal tower, black diagonal stripes; 82.	R. 244°-285°, G.-244°.
140 D 0818	<b>Pointe du Toulanguet.</b>	48° 16.8' N 4° 37.7' W	<b>Oc.(3)W.R.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	161 49	W. 15 R. 11	White square tower, building; 46.	W. 299°-028°, R.-090°, W.- 268°.
144 D 0816	Camaret-Sur-Mer, N. mole extension.	48° 16.9' N 4° 35.3' W	<b>Iso.W.G.</b> period 4s	23 7	W. 12 G. 9	White and green pylon; 23.	W. 135°-182°, G.-027°.
148 D 0817	-S. mole.	48° 16.6' N 4° 35.3' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	5	Red pylon; 26.	
152 D 0790	<b>Pointe du Petit-Minou.</b>	48° 20.2' N 4° 36.9' W	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	105 32	W. 17 R. 13	Gray tower, white on SW. side, red top, attached to smaller white tower, black bands; 85.	W. 070°30'-108°, R.-252°, W.-260°, R.-307°, W.(unintensified)-015°, W.-065°30'. <b>AIS</b> (MMSI No 992271300).
			<b>Q.W.</b>	98 30	22		Intensified 067°18'-068°48'. Forms range 068° with 160.
			<b>FG.</b>				Fog detection light, 420 meters NW.
154 D 0792	Roche Mengam, in Goulet de Brest.	48° 20.3' N 4° 34.6' W	<b>Fl.(3)W.R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10	W. 9 R. 6	ISOLATED DANGER BRB, tower beacon, topmark; 49.	R. 034°-054°, W.-034°.
156 D 0794	I.F.R.E.M.E.R., dolphin, SE. side.	48° 21.6' N 4° 33.0' W	<b>Fl.R.</b> period 2s fl. 0.4s, ec. 1.6s	16 5	2	Gray dolphin; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
160 <i>D 0790.1</i>	<b>Pointe Du Portzic.</b>	48° 21.5' N 4° 32.0' W	<b>Oc.(2)W.R.</b> period 12s lt. 2.5s, ec. 1.5s lt. 6.5s, ec. 1.5s	184 56	W. 17 R. 13	Gray octagonal tower; 115.	W. 070°30'-219°, R.-259°, W.-338°, R.-000°, W.- 065°30'. Visible W. of Le Goulet 041°- 069°.
			<b>Q.W.</b>	177 54	<b>22</b>		Intensified 065°-071°. In line with 152.
			<b>Q.(6)+L.Fl.W.</b> period 15s	177 54	<b>22</b>		Intensified 045°-050°.
BREST:							
-Rade-Abri:							
176 <i>D 0798</i>	--E. breakwater, head.	48° 22.2' N 4° 29.2' W	<b>Q.G.</b>	33 10	6	STARBOARD (A) G, tower, topmark; 33.	
178 <i>D 0796</i>	--W. breakwater, head.	48° 22.1' N 4° 29.4' W	<b>Q.R.</b>	33 10	6	PORT (A) R, tower, topmark; 30.	
180 <i>D 0799</i>	--Range, front.	48° 22.8' N 4° 29.6' W	<b>Q.W.R.G.</b>	79 24	W. 9 R. 6 G. 6	White tower.	G. 334°-342°, W.-346°, R.- 024°.
			<b>F.W.</b>		3		Visible 338°-349°. Shown by day.
180.1 <i>D 0799.1</i>	---Rear, 100 meters 344° from front.	48° 22.9' N 4° 29.6' W	<b>Q.W.</b>	105 32	9	Building.	Intensified 342°-346°.
			<b>F.W.</b>		3		Visible 338°-349°. Shown by day.
182 <i>D 0801</i>	--Jean-Bart Quay Range, front.	48° 22.9' N 4° 29.9' W	<b>Iso.R.</b> period 5s	30 9		White pylon, red top; 26.	Intensified 309°-319°.
182.1 <i>D 0801.1</i>	---Rear, 17 meters 314° from front.	48° 22.9' N 4° 30.0' W	<b>Iso.R.</b> period 5s	52 16		Building; 49.	Intensified 309°-319°. Synchronized with front.
-Commercial Port:							
184 <i>D 0806</i>	--Breakwater, W. entrance, S. side.	48° 22.6' N 4° 29.1' W	<b>Iso.G.</b> period 4s	33 10	6	White tower, green top, green triangular daymark point up; 33.	
188 <i>D 0804</i>	--W. jetty, head.	48° 22.7' N 4° 29.1' W	<b>Iso.R.</b> period 4s	33 10	6	White column, red top; 36.	
192 <i>D 0802</i>	--Detached breakwater, E. entrance, S. side.	48° 22.7' N 4° 28.5' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	White pylon, red top, red square daymark; 23.	
196 <i>D 0803</i>	--W. jetty, head.	48° 22.8' N 4° 28.5' W	<b>Oc.(2)G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	White tower, green top, green triangular daymark point up; 30.	
POINTE DE L'ILE LONGUE							
200 <i>D 0814.5</i>	-Range, front.	48° 18.4' N 4° 30.1' W	<b>F.R.</b>				Occasional.
200.1 <i>D 0814.51</i>	-- Rear, 60 meters 281° from front.	48° 18.4' N 4° 30.1' W	<b>F.R.</b>				Occasional.
BAIE DE DOUARNENEZ:							
208 <i>D 0829</i>	-Basse Vielle Buoy.	48° 08.3' N 4° 35.7' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	4	ISOLATED DANGER BRB, pillar, topmark.	<b>Radar reflector.</b>

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
212 <i>D 0826</i>	<b>-Pointe de Morgat.</b>	48° 13.2' N 4° 29.8' W	<b>Oc.(4)W.R.G.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	253 77	W. 15 R. 11 G. 10	White square tower, dwelling, red top; 49.	W. 180°-281°, G.-301°, W.-021°, R.-043°.
-Douarnenez:							
220 <i>D 0830</i>	--Ile Tristan.	48° 06.1' N 4° 20.2' W	<b>Fl.(3)W.R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	115 35	6	Gray tower, white band, black top; 36.	W. 029°-138°, R.-153°, W.-299°.
224 <i>D 0831</i>	--Bassin Nord, N. mole, head.	48° 06.0' N 4° 19.3' W	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	6	White and green pylon; 26.	Synchronized with 228.
228 <i>D 0831.2</i>	---S. mole, head.	48° 05.9' N 4° 19.3' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6	6	White and red pylon; 16.	Synchronized with 224.
232 <i>D 0832</i>	--Rosmeur, mole.	48° 05.9' N 4° 19.3' W	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	4	White pylon, green top; 20.	
236 <i>D 0834</i>	--Treboul, Epi de Biron.	48° 06.1' N 4° 20.4' W	<b>Q.G.</b>	23 7	6	White metal column, green top; 23.	
240 <i>D 0836</i>	<b>-Point du Millier.</b>	48° 05.9' N 4° 27.9' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	112 34	W. 16 R. 12 G. 11	White dwelling; 26.	G. 080°-087°, W.-113°, R.-120°, W.-129°, G.-148°, W.-251°, R.-258°. AIS (MMSI No 992271015).
CHAUSEE DE SEIN:							
248 <i>D 0852</i>	<b>-Ar-Men.</b>	48° 03.0' N 4° 59.9' W	<b>Fl.(3)W.</b> period 20s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 11.6s	94 29	21	White tower, dark base, black top; 121.	AIS (MMSI No 992271044).
252 <i>D 0856</i>	<b>-Ile de Sein.</b>	48° 02.6' N 4° 52.0' W	<b>Fl.(4)W.</b> period 25s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 15.9s	161 49	28	White truncated conical tower, black top; 167.	AIS (MMSI No 992271043).
						<b>Dir.W.R.G.</b>	W. 8 R. 6 G. 6
256 <i>D 0860</i>	<b>-Men-Brial.</b>	48° 02.3' N 4° 50.9' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	W. 12 R. 9 G. 7	White and green tower; 45.	G. 149°-186°, W.-192°, R.-221°, W.-227°, G.-254°.
RAZ DE SEIN:							
268 <i>D 0862</i>	<b>-Le Chat.</b>	48° 01.5' N 4° 48.9' W	<b>Fl.(2)W.R.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	90 27	W. 9 R. 6 G. 6	Tower, two triangular daymarks points down; 102.	G. 096°-215°, W.-230°, R.-271°, G.-286°, R.-096°. Radar reflector.
272 <i>D 0870</i>	<b>-La Vielle.</b>	48° 02.4' N 4° 45.4' W	<b>Oc.(2+1)W.R.G.</b> period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	108 33	W. 15 R. 11 G. 11	Gray square tower, black top; 88.	W. 290°-298°, R.-325°, W.-355°, G.-017°, W.-035°, G.-105°, W.-123°, R.-158°, W.-205°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
274	<i>Chaussee de Sein Buoy.</i>	48° 03.8' N 5° 07.7' W	<b>V.Q.(9)W.</b> period 10s	30	4	W. CARDINAL YBY, pillar, topmark.	<b>AIS</b> (MMSI No 992271305). <b>Whistle.</b> <b>Radar reflector.</b>
	RACON		<b>O(---)</b> period 120s		10		(3cm).
276 <i>D 0866</i>	--Tevennec.	48° 04.3' N 4° 47.7' W	<b>Q.W.R.</b>	92	W. 9 R. 6	White square tower, dwelling; 49.	R. 345°-090°, W.-345°.
			<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	79 24	12		Intensified 324°-332°. Reserve light.
284 <i>D 0872</i>	La Plate.	48° 02.4' N 4° 45.6' W	<b>Q.(9)W.</b> period 15s	56 17	6	W. CARDINAL YBY, tower, topmark; 75.	
AUDIERNE:							
288 <i>D 0877.1</i>	-Kergadec.	48° 01.0' N 4° 32.8' W	<b>Q.W.R.G.</b>	141 43	W. 12 R. 9 G. 9	White octagonal tower, red top; 49.	G. 000°-005°18', W.-006°42', R.-017°.
292 <i>D 0875</i>	-Jeteo de Ste. Evette, head.	48° 00.3' N 4° 33.1' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 2	4	Red cylindrical structure; 7.	Visible 090°-000°.
296 <i>D 0877</i>	-Raoulic, jetty, head.	48° 00.5' N 4° 32.5' W	<b>Fl.(3)R.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	36 11	6	White tower; 36.	G. 034°-085°, R.-034°.
300 <i>D 0874</i>	-Pointe de Lervily.	48° 00.0' N 4° 33.9' W	<b>Fl.W.R.</b> period 4s	66 20	W. 14 R. 11	White tower, red top; 39.	W. 236°-269°, R.-294°, W.- 087°, R.-109°.
304 <i>D 0884</i>	Pors-Poulhan, entrance, W. side.	47° 59.1' N 4° 27.9' W	<b>Q.R.</b>	45 14	6	White square tower, red top; 20.	
308 <i>D 0890</i>	<b>Pointe de Penmarc'h.</b>	47° 47.9' N 4° 22.4' W	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	197 60	23	Gray octagonal tower; 213.	
SAINT GUENOLE:							
312 <i>D 0886</i>	-Groumilli Range, front.	47° 48.1' N 4° 22.7' W	<b>Q.G.</b>	30 9	7	Black column, white bands, orange square daymark; 36.	Visible 119°30'-126°30'.
316 <i>D 0886.1</i>	--Rear, 300 meters 123° from front.	47° 48.0' N 4° 22.5' W	<b>Q.G.</b>	43 13	7	Black column, white bands, orange square daymark; 46.	Visible 119°30'-126°30'. Synchronized with front.
328 <i>D 0887</i>	-Range, front.	47° 48.7' N 4° 22.8' W	<b>V.Q.W.</b>	16 5	2	White metal column, green top, platform.	
332 <i>D 0887.1</i>	--Rear, 320 meters 055°24' from front.	47° 48.8' N 4° 22.6' W	<b>V.Q.W.</b>	49 15	4	White metal post, green top, platform.	Visible 040°-070°.
336 <i>D 0893</i>	-Scoedec.	47° 48.4' N 4° 23.2' W	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	20 6	3	Green tower; 23.	
344 <i>D 0892</i>	La Menhir, Penmarc'h, W. extremity of rocks.	47° 47.8' N 4° 24.0' W	<b>Fl.(2)W.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	62 19	W. 7 G. 4	Black and white tower; 69.	W. 315°-135°, G.-315°.
348 <i>D 0894</i>	Locarec Rock.	47° 47.3' N 4° 20.3' W	<b>Iso.W.R.G.</b> period 4s	36 11	W. 9 R. 6 G. 6	Metal column; 26.	G. 063°-068°, R.-271°, W.- 285°, R.-298°, G.-340°, R.-063°. Fl.R. and Fl.G. lights mark channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
GUILVINEC:							
364 <i>D 0896</i>	-Mole de Lechiagat, entrance Range, front.	47° 47.4' N 4° 17.1' W	<b>Q.W.</b>	23 7	8	White pylon; 20.	Visible 233°-066°.
366 <i>D 0896.05</i>	--Middle, 210 meters 053° from front.	47° 47.5' N 4° 16.9' W	<b>Q.W.G.</b>	39 12	W. 14 G. 11	White pylon, red square daymark; 36.	W. 006°-293°, G.-006°. Synchronized with front.
368 <i>D 0896.1</i>	--Rear, 1043 meters 053° from front.	47° 47.8' N 4° 16.4' W	<b>Q.W.</b>	85 26	8	White rectangular tower, red stripe, red square daymark; 82.	Visible 051°30'-054°30'. Synchronized with front.
372 <i>D 0899</i>	-Mole de Lechiagat, head.	47° 47.5' N 4° 17.2' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	6	White hut, green top; 10.	Fl.(2)G. shown at head of spur.
376 <i>D 0900</i>	-Mole de Guilvinec.	47° 47.5' N 4° 17.1' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11	8	White tower, red top; 33.	Fl.(2)R. shown at head of spur.
377 <i>D 0901</i>	-Spur mole.	47° 47.5' N 4° 17.1' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Red structure; 13.	
380 <i>D 0898</i>	-Lost-Moan.	47° 47.0' N 4° 16.8' W	<b>Fl.(3)W.R.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	W. 9 R. 6 G. 6	White tower, red top; 42.	W. 268°-273°, G.-317°, W.-327°, R.-014°, G.-065°, R.-140°, W.-160°, R.-268°.
384 <i>D 0899.2</i>	-Epi.	47° 47.5' N 4° 17.0' W	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Green structure; 6.	Visible 078°-258°.
388 <i>D 0902</i>	Lesconil, on Men-ar-Groas Rock.	47° 47.8' N 4° 12.7' W	<b>Fl.(3)W.R.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	46 14	W. 10 R. 7 G. 7	White tower, green top; 36.	G. 268°-313°, W.-333°, R.-050°.
392 <i>D 0904</i>	-E. breakwater, head.	47° 47.7' N 4° 12.7' W	<b>Q.G.</b>	16 5	5	Green tower; 13.	
393 <i>D 0904.5</i>	--Mole, head.	47° 47.7' N 4° 12.6' W	<b>Oc.R.</b> period 4s	16 5	6	White metal pylon, red top; 13.	
396	<i>Karek-Greis Whistle Buoy.</i>	47° 46.1' N 4° 11.4' W	<b>Q.(3)W.</b> period 10s	23 7	4	E. CARDINAL BYB, buoy, topmark.	
RIVIERE L'ABBE:							
400 <i>D 0906</i>	-Loctudy.	47° 49.9' N 4° 09.6' W	<b>Fl.(4)W.R.G.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	41 12	W. 15 R. 12 G. 11	White tower, red top; 43.	G. 115°-243°, W-257°, G.-284°, W.-295°, R.-318°, W.-328°, R.-025°.
408 <i>D 0909</i>	-Karek-Saoz.	47° 50.0' N 4° 09.4' W	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	10 3	1	Red truncated tower; 33.	<b>Radar reflector.</b>
412 <i>D 0910</i>	-Le Blas.	47° 50.3' N 4° 10.2' W	<b>Fl.(4)G.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	1	Green truncated column; 36.	
416 <i>D 0915</i>	-Pointe du Toulgoet.	47° 52.3' N 4° 06.9' W	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	7 2	1	Red metal mast; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
BENODET:							
420 <i>D 0914.1</i>	-Pointe de Combrit, Odet River entrance, W. side.	47° 51.8' N 4° 06.8' W	<b>Oc.(2)W.R.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	62 19	W. 12 R. 9	White square tower, gray corners; 56.	R. 017°-325°, W.-017°. In line 000°30' with 428.
424 <i>D 0913.9</i>	-Pointe du Coq Range, front.	47° 52.3' N 4° 06.7' W	<b>Fl.(3)G.</b> period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	36 11	10	White tower, green stripe; 43.	Intensified 344°30'-346°30'.
428 <i>D 0914</i>	--La Pyramide, common rear, about 348 meters 345°30' from Pointe du Coq front.	47° 52.5' N 4° 06.8' W	<b>Fl.(3)W.</b> period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	157 48	14	White truncated conical tower, green top; 128.	Visible 338°-016°. Synchronized with front.
436 <i>D 0918</i>	<b>Ile aux Moutons.</b>	47° 46.5' N 4° 01.7' W	<b>Iso.W.R.G.</b> period 2s	59 18	W. 15 R. 11 G. 11	White square tower, white dwelling; 56.	R. 292°-035°, W.-050°, G.-063°, W.-081°, R.-141°, W.-292°. AIS (MMSI No 992271013).
442 <i>D 0923.2</i>	-La Pie.	47° 43.7' N 3° 59.8' W	<b>Fl.(2)W.</b> period 6s	30 9	3	ISOLATED DANGER BRB, beacon, topmark.	
444 <i>D 0922</i>	<b>Ile de Penfret.</b>	47° 43.3' N 3° 57.2' W	<b>Fl.R.</b> period 5s fl. 0.2s, ec. 4.8s	118 36	21	White pyramidal tower, red top; 78.	AIS (MMSI No 992271014).
			<b>Q.W.</b>	112 34	11		Visible 295°-315°.
460 <i>D 0925</i>	Cap Coz, shelter mole, head.	47° 53.5' N 3° 58.3' W	<b>Fl.(2)W.R.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	W. 7 R. 5 G. 5	Gray post, white hut, red lantern; 10.	R. 346°-335°, G.-340°, W.-346°.
464 <i>D 0925.4</i>	--Jetty extension, E. side.	47° 53.6' N 3° 58.4' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	1	Gray post, green lantern, white hut; 23.	
CONCARNEAU:							
468 <i>D 0936</i>	-Le Cochon.	47° 51.4' N 3° 55.5' W	<b>Fl.(3)W.R.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	W. 9 R. 6 G. 6	Green tower; 36.	R. 230°-352°, W.-048°, G.-207°.
472 <i>D 0928</i>	-La Croix Entrance Range, front.	47° 52.1' N 3° 55.1' W	<b>Q.W.</b>	46 14	13	White and red tower; 39.	Visible 006°30'-093°.
476 <i>D 0930</i>	-- <b>Beuzec</b> , rear, 2490 meters 028°30' from front.	47° 53.3' N 3° 54.1' W	<b>Q.W.</b>	285 87	23	Belfry; 105.	Intensified 026°30'-030°30'. Synchronized with front.
484 <i>D 0934</i>	-W. side of Lanriec Passage.	47° 52.3' N 3° 54.8' W	<b>Q.W.R.</b>	13 4	W. 9 R. 6	Red tower; 16.	R. 209°-354°, W.-007°, R.-018°. Passage marked by lighted beacons.
486 <i>D 0935</i>	-Yacht Harbor.	47° 52.3' N 3° 54.7' W	<b>Fl.(4)R.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	1	PORT (A) R, post, topmark; 13.	Visible 018°-340°.
488 <i>D 0933</i>	-La Medee.	47° 52.0' N 3° 54.8' W	<b>Fl.(3)R.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	30 9	4	Red tower; 52.	
492 <i>D 0932</i>	Lanriec, E. of Concarneau entrance.	47° 52.0' N 3° 54.6' W	<b>Q.G.</b>	43 13	8	White gable, green panel; 26.	Visible 063°-078°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
496 <i>D 0940</i>	Baie de Pouldohan.	47° 51.0' N 3° 53.7' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	8	White square tower, green top, green base; 20.	Visible 053°-065°.
498 <i>D 0942</i>	Dragon Rock.	47° 47.9' N 3° 53.4' W	<b>V.Q.(9)W.</b> period 10s		6	W. CARDINAL YBY, tower, topmark; 36.	
500 <i>D 0944</i>	Trevignon, breakwater.	47° 47.6' N 3° 51.3' W	<b>Fl.(2)W.R.G.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	35 11	W. 10 R. 7 G. 7	White square tower, green top; 26.	W. 004°-051°, G.-085°, W.- 092°, R.-127°, R. 322°- 351°.
TREVIGNON:							
504 <i>D 0945</i>	-Shelter, mole, head.	47° 47.7' N 3° 51.3' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	8	White column, green top; 13.	
508 <i>D 0946</i>	Port-Manech, (Pointe de Beg- ar-Vechen).	47° 48.0' N 3° 44.3' W	<b>Oc.(4)W.R.G.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	125 38	W. 10 R. 7 G. 7	White tower, red top; 33.	W. 140°-296°, G.-303°, W.- 311, R.-328°, W.-050°, W.(unintensified)-140°.
512 <i>D 0950</i>	Brigneau.	47° 46.8' N 3° 40.2' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	22 7	W. 12 R. 9 G. 9	White metal column, red top; 23.	G. 280°-329°, W.-339°, R.- 034°.
516 <i>D 0952</i>	Merrien, port, entrance, W. side.	47° 47.0' N 3° 39.0' W	<b>Q.R.</b>	85 26	7	White square tower, red top; 25.	Visible 004°-009°.
520 <i>D 0954</i>	Doelan Range, front.	47° 46.3' N 3° 36.5' W	<b>Oc.(3)W.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	65 20	W. 13 G. 10	White tower, green band, green top; 49.	G. 305°-314°, W.-305°.
524 <i>D 0954.1</i>	-Rear, 326 meters 013°48' from front.	47° 46.5' N 3° 36.5' W	<b>Oc.(3)R.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	88 27	9	White tower, red band, red top; 46.	Synchronized with front.
526 <i>D 0961</i>	Lomener.	47° 42.3' N 3° 25.5' W	<b>Q.W.R.G.</b>	43 13	W. 10 R. 8 G. 8	White tower, red top; 30.	G. 349°12'-355°12', W.- 359°12', R.-005°12'.
528 <i>D 0960</i>	Kerroch.	47° 42.0' N 3° 27.7' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	72 22	W. 11 R. 8 G. 8	White truncated tower, red top; 26.	R. 096°30'-112°30', G.-132°, R.-302°, W.-096°30'. <b>AIS</b> (MMSI No 992271009).
ILE DE GROIX:							
532 <i>D 0962</i>	-Pen-Men.	47° 38.8' N 3° 30.6' W	<b>Fl.(4)W.</b> period 25s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 15.8s	197 60	29	White square tower, black top; 92.	Visible 309°-275°.
536 <i>D 0964</i>	-Port Trudy, E. mole, head.	47° 38.7' N 3° 26.8' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	7	White tower, red top; 33.	Visible 112°-226°. Synchronized with 540.
540 <i>D 0966</i>	--N. mole, head.	47° 38.7' N 3° 26.7' W	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	7	White tower, green top; 33.	Synchronized with 536.
544 <i>D 0968</i>	-Pointe de la Croix, island, E. point.	47° 38.1' N 3° 25.0' W	<b>Oc.W.R.</b> period 4s lt. 3s, ec. 1s	52 16	W. 12 R. 9	White structure, red lantern; 13.	W. 169°-336°, R.-345°, W.- 353°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
548 <i>D 0970</i>	<b>-Pointe des Chats.</b>	47° 37.2' N 3° 25.3' W	<b>Fl.R.</b> period 5s fl. 0.4s, ec. 4.6s	52 16	19	White square tower, dwelling; 49.	
LORIENT AND PORT LOUIS:							
556 <i>D 0974</i>	-Les Trois Pierres.	47° 41.5' N 3° 22.5' W	<b>Q.R.G.</b>	36 11	6	White octagonal tower, black bands, black top; 59.	G. 060°-196°, R.-002°.
560 <i>D 0975</i>	-Ile aux Souris.	47° 42.2' N 3° 21.5' W	<b>Q.W.G.</b>	20 6	W. 3 G. 2	Green tripod, 20.	W. 041°30'-043°30', G.-041°30'.
565 <i>D 0971</i>	-Les Soeurs Range, front.	47° 42.1' N 3° 21.8' W	<b>Q.W.</b>	36 11	13	Red tower, white bands.	Intensified 042°30'-058°30', reduced range 4M 058°30'-042°30'.
565.1 <i>D 0971.1</i>	-- <b>Port-Louis</b> , rear, 740 meters 057° from front.	47° 42.3' N 3° 21.3' W	<b>Q.W.</b>	72 22	18	White pyramidal pylon, red bands.	
576 <i>D 0978</i>	-Passe de la Citadelle Range, front.	47° 43.5' N 3° 21.6' W	<b>Q.G.</b>	26 8	13	White tower, green top; 46.	Intensified 014°30'-017°30'.
580 <i>D 0978.1</i>	--Rear, 306 meters 016°30' from front.	47° 43.6' N 3° 21.6' W	<b>Q.G.</b>	46 14	13	White tower, green top; 62.	Intensified 014°30'-017°30'. Synchronized with front.
582 <i>D 0996.6</i>	-Ste. Catherine.	47° 43.5' N 3° 21.1' W	<b>Q.G.</b>	16 5	2	STARBOARD (A) G, post, topmark; 26.	
584 <i>D 0985</i>	-Port Louis, jetty, NE. head.	47° 42.7' N 3° 21.4' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	23 7	4	White truncated tower, green top; 23.	Visible 043°-301°.
588 <i>D 0984</i>	-Citadelle at Port Louis, channel, E. side.	47° 42.6' N 3° 21.9' W	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	20 6	6	Green tower; 36.	Visible 009°-193°.
592 <i>D 0982</i>	-La Petite Jument, channel, W. side.	47° 42.6' N 3° 22.1' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	16 5	6	Red tower; 39.	Visible 182°-024°.
596 <i>D 0986</i>	-Le Cochon, on rock, channel, W. side.	47° 42.8' N 3° 22.0' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	16 5	5	Red tower, green band; 33.	
598 <i>D 0996.3</i>	-Marina, E. breakwater, head.	47° 43.1' N 3° 22.0' W	<b>Q.(6)+L.Fl.W.</b> period 15s	13 4	2	S. CARDINAL YB, beacon, topmark.	
600 <i>D 0990</i>	<b>-Keroman Range</b> , front.	47° 43.6' N 3° 22.0' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	82 25	15	White hut, red bands; 16.	Intensified 349°-351°.
604 <i>D 0990.1</i>	--Rear, about 91 meters 350° from front.	47° 43.7' N 3° 22.0' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	102 31	15	Gray pylon, red top, red daymark, white bands; 39.	Intensified 349°-351°. Synchronized with front.
608 <i>D 0994</i>	-Keroman, fishing port, S.E. mole, head.	47° 43.6' N 3° 21.9' W	<b>Fl.R.G.</b> period 4s fl. 1s, ec. 3s	23 7	6	White truncated tower, green top; 20.	G. 000°-235°, R.-000°. 2 Q.G. shown in line 350° 260 meters W.
612 <i>D 0996</i>	<b>-Kernevel Range</b> , front.	47° 43.0' N 3° 22.3' W	<b>Q.R.</b>	33 10	15	Red and white pylon, red trapezoidal daymark; 33.	Intensified 215°-219°.
616 <i>D 0996.1</i>	--Rear, about 290 meters 217° from front.	47° 42.9' N 3° 22.5' W	<b>Q.R.</b>	59 18	15	White and red square tower; 52.	Intensified 215°-219°. Synchronized with front.
618 <i>D 0997</i>	-Pengarne.	47° 43.9' N 3° 21.2' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	10 3	3	Green tower; 20.	
620 <i>D 0999</i>	-RoRo pier.	47° 44.4' N 3° 21.0' W	<b>Q.R.</b>	23 7	2	Red metal structure; 66.	
624 <i>D 0998</i>	-Pointe de l'Esperance.	47° 44.5' N 3° 20.7' W	<b>Dir.W.R.G.</b>	26 8	W. 10 R. 8 G. 8	White tower, green top; 23.	Q.G. 034°12'-036°42', Q.W.-037°12', Q.R.-047°12'.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
629 <i>D 1003</i>	-Citadelle of Port Louis.	47° 42.7' N 3° 21.8' W	<b>Dir.W.R.G.</b>	46 14	W. 7 R. 5 G. 5		Q.G.168°-169°30', Q.W.-170°30', Q.R.-173°30'.
632 <i>D 1012</i>	Etel, W. side of river entrance.	47° 38.7' N 3° 12.8' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	43 13	W. 9 R. 6 G. 6	Red pylon; 36.	W. 022°-064°, R.-123°, W.-330°, G.-022°.
636 <i>D 1014</i>	Plateau de Birvideaux.	47° 29.2' N 3° 17.5' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	10	ISOLATED DANGER BRB, tower, topmark; 118.	<b>AIS</b> (MMSI No 992271028).
BELLE ILE:							
640 <i>D 1032</i>	-Anse de Goulphar.	47° 18.6' N 3° 13.6' W	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	285 87	27	Gray tower, red lantern; 171.	
644 <i>D 1030</i>	-Pointe des Poulains.	47° 23.3' N 3° 15.1' W	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	111 34	23	White square tower, dwelling, red lantern; 59.	Visible 023°-291°.
648 <i>D 1044</i>	-Sauzon.	47° 22.4' N 3° 13.1' W	<b>Q.G.</b>	30 9	5	White tower, green top; 30.	Visible 194°-045°.
652 <i>D 1045</i>	--NW. jetty, head.	47° 22.5' N 3° 13.0' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	4	White truncated conical tower, green top; 16.	Visible 190°-078°.
656 <i>D 1046</i>	--SE. jetty, head.	47° 22.5' N 3° 13.0' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	4	White truncated conical tower, red top; 16.	Visible 315°-272°.
660 <i>D 1042</i>	-Le Palais, N. jetty, head.	47° 20.8' N 3° 09.0' W	<b>Q.G.</b>	36 11	7	White tower, green top; 33.	
664 <i>D 1040</i>	--S. jetty, head.	47° 20.8' N 3° 09.1' W	<b>Q.R.</b>	36 11	7	White tower, red lantern; 33.	
668 <i>D 1036</i>	-Pointe de Kerdonis.	47° 18.6' N 3° 03.6' W	<b>Fl.(3)R.</b> period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	161 49	15	White square tower, dwelling, red top; 46.	Visible 155°-225° and 320°-004°.
672 <i>D 1016</i>	S. side of Presqu'île de Quiberon.	47° 28.8' N 3° 07.5' W	<b>Q.W.R.G.</b>	92 28	W. 14 R. 10 G. 10	White tower, green lantern; 82.	R. 017°-051°, W.-081°, G.-098°, W.-143°, W. 246°-252°, W. 291°-297°, G.-340°, W.-017°.
676 <i>D 1015</i>	-Entrance Range, front.	47° 28.6' N 3° 07.2' W	<b>Q.G.</b>	16 5	16	White truncated conical tower, black band, black top; 43.	Intensified 005°-008°. <b>AIS</b> (MMSI No 992271029).
680 <i>D 1015.1</i>	--Rear, about 230 meters 006°30' from front.	47° 28.8' N 3° 07.2' W	<b>Q.G.</b>	42 13	17	White truncated conical tower, black band, black top; 36.	Intensified 005°-008°. Synchronized with front. <b>AIS</b> (MMSI No 992271030).
684 <i>D 1017</i>	-Breakwater, S. entrance.	47° 28.5' N 3° 07.3' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	7	White tower, red lantern; 16.	
686 <i>D 1015.5</i>	--S.	47° 28.3' N 3° 07.3' W	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	20 6	2	Red beacon; 33.	Visible 175°-047°.
688 <i>D 1018</i>	-E. mole, near N. entrance.	47° 28.6' N 3° 07.4' W	<b>Iso.G.</b> period 4s	30 9	7	White tower, green lantern; 23.	
PASSAGE DE LA TEIGNOUSE:							
692 <i>D 1022</i>	-La Teignouse.	47° 27.4' N 3° 02.8' W	<b>Fl.W.R.</b> period 4s fl. 1s, ec. 3s	66 20	W. 15 R. 11	White tower, red top; 66.	W. 033°-039°, R.-033°. <b>AIS</b> (MMSI No 992271007).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
720 D 1082	Ile Houat, St. Gildas, on N. mole.	47° 23.6' N 2° 57.3' W	<b>Fl.(2)W.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 9 G. 6	White truncated tower, green top; 16.	W. 168°-198°, G.-210°, W.-240°, G.-168°.
724 D 1084	Ile de Hoedic, Port of l'Argol.	47° 20.7' N 2° 52.5' W	<b>Fl.W.G.</b> period 4s fl. 1s, ec. 3s	33 10	W. 9 G. 6	White truncated tower, green top; 23.	W. 143°-163°, G.-183°, W.-194°, G.-143°.
728 D 1086	Les Grands Cardinaux, on Grogueues Rock, SE. of Ile Hoedic.	47° 19.3' N 2° 50.1' W	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	92 28	11	Red round tower, white band; 89.	<b>AIS</b> (MMSI No 992271025).
PORT HALIGUEN:							
732 D 1026.2	-New breakwater, head.	47° 29.4' N 3° 05.9' W	<b>Oc.(2)W.R.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	W. 11 R. 8	White truncated tower, red top; 26.	W. 233°-240°30', R.-299°, W.-306°, R.-233°.
736 D 1026	-Old breakwater, head.	47° 29.3' N 3° 06.0' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33 10	5	White truncated tower, red top; 23.	Visible 322°-206°.
740 D 1026.4	-Pier, NW. side of entrance.	47° 29.3' N 3° 06.0' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	30 9	6	White structure, green top; 30.	
CRACH:							
752 D 1050	-Entrance.	47° 34.1' N 3° 00.4' W	<b>Q.W.R.G.</b>	36 11	W. 10 R. 7 G. 7	White truncated tower, green top; 20.	G. 321°-345°, W.-013°30', R.-080°.
760 D 1051	-812 meters 105° from La Trinite-sur-Mer.	47° 35.1' N 3° 01.0' W	<b>Dir.Oc.W.R.G.</b> period 4s lt. 3s, ec. 1s	30 9	W. 13 R. 11 G. 11	White tower; 20.	G. 345°-346°, W.-348°, R.-349°.
764 D 1052	La Trinite-sur-Mer, wharf, head.	47° 35.1' N 3° 01.5' W	<b>Q.W.R.</b>	20 6	W. 9 R. 6	White tower, red top; 20.	R. 090°-293°30', W.-300°30', R.-329°. Iso.R. 4s light shown from head of wharf 274 meters N.
768 D 1054	<b>Port Navalo.</b>	47° 32.9' N 2° 55.1' W	<b>Oc.(3)W.R.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	104 32	W. 15 R. 11 G. 11	White tower, dwelling; 69.	W. 155°-220°, G. 317°-359°, W.-015°, R.-105°.
769 D 1054.5	-Riviere D'Auray, Gregan.	47° 33.9' N 2° 55.1' W	<b>Q.(6)+L.Fl.W.</b> period 15s	10 3	7	S. CARDINAL YB, tower, topmark; 23.	
772	Plateau de la Recherche.	47° 25.6' N 2° 50.4' W	<b>Q.(9)W.</b> period 15s	16 5	3	W. CARDINAL YBY, pillar, topmark.	
776 D 1056	Saint Jacques en Sarzeau, mole, head.	47° 29.2' N 2° 47.4' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	6	White octagonal tower, red top; 16.	
780 D 1062	Le Pignon, entrance of Riviere de Peneff.	47° 30.0' N 2° 38.9' W	<b>Fl.(3)W.R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	W. 9 R. 6	Red tower; 46.	R. 028°30'-167°, W.-175°, R.-349°30', W.-028°30'.
784 D 1060	Ile Dumet.	47° 24.7' N 2° 37.2' W	<b>Fl.(3)W.R.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	46 14	W. 7 R. 4 G. 4	White metal column, green top, fort; 20.	W. 335°-090°, G.-272°, W.-285°, R.-335°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
VILAINE:							
788 <i>D 1063</i>	-Basse Bertrand.	47° 31.1' N 2° 30.7' W	<b>Iso.W.G.</b> period 4s	20 6	W. 9 G. 6	Green tower; 46.	W. 040°-054°, G.-227°, W.-234°, G.-040°.
792 <i>D 1064</i>	<b>-Pointe de Penlan.</b>	47° 31.0' N 2° 30.1' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	85 26	W. 15 R. 11 G. 11	Red tower, white bands; 59.	R. 292°30'-025°, G.-052°, W.-060°, R.-138°, G.-180°.
794 <i>D 1062.5</i>	-Basse de Kenoyal.	47° 30.4' N 2° 32.6' W	<b>Q.W.R.</b>	23 7	W. 6 R. 4	S. CARDINAL YB, tower, topmark; 39.	W. 269°-271°, R.-269°.
800 <i>D 1066</i>	-Pointe du Scal, S. side of river mouth, front.	47° 29.7' N 2° 26.8' W	<b>Q.G.</b>	25 8		4 White square tower, green top; 16.	
808 <i>D 1072</i>	Mesquer, jetty, inner end.	47° 25.3' N 2° 28.0' W	<b>Oc.W.R.G.</b> period 4s lt. 3s, ec. 1s	23 7	W. 10 R. 7 G. 7	White column, green top; 23.	W. 067°-072°, R.-102°, W.-118°, G.-067°.
812 <i>D 1074</i>	Piriac-sur-Mer, jetty, head.	47° 22.9' N 2° 32.7' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 10 R. 7 G. 7	White truncated tower; 26.	R. 066°-148°, G.-194°, W.-201°, R.-221°. <b>Siren:</b> (occasional) 1 bl. ev. 120s (bl. 5s, si. 115s).
PLATEAU DU FOUR:							
820 <i>D 1080</i>	<b>-Le Four.</b>	47° 17.9' N 2° 38.1' W	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	75 23		18 White round tower, black bands, green top; 89.	<b>AIS</b> (MMSI No 992271016).
824	-Bonon du Four Whistle Buoy.	47° 18.5' N 2° 39.3' W	<b>Q.W.</b>	23 7		3 N. CARDINAL BY, pillar, topmark.	<b>Radar reflector.</b>
828	-Basse Capella Whistle Buoy.	47° 15.7' N 2° 44.8' W	<b>Q.(9)W.</b> period 15s	23 7		3 W. CARDINAL YBY, pillar, topmark.	<b>Radar reflector.</b>
832	-Banc de Guerande Whistle Buoy.	47° 08.8' N 2° 42.8' W	<b>V.Q.(6)+L.Fl.W.</b> period 10s			S. CARDINAL YB, pillar, topmark.	<b>Whistle. Radar reflector.</b>
840	-Gouve-Vas du Four Shoal Buoy.	47° 14.9' N 2° 38.2' W	<b>Q.(6)+L.Fl.W.</b> period 15s	23 7		4 S. CARDINAL YB, pillar, topmark.	<b>Radar reflector.</b>
LA TURBALLE:							
844 <i>D 1076</i>	-Jetee Ouest (Garlahy), head.	47° 20.7' N 2° 30.9' W	<b>Fl.(4)W.R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 13	W. 10 R. 7	White column, red top; 36.	W. 315°-060°, R.-315°.
848 <i>D 1075.8</i>	-Entrance Range, front.	47° 20.8' N 2° 30.9' W	<b>Iso.R.</b> period 4s	36 11		3 Mast, orange top; 16.	Intensified 004°-009°.
852 <i>D 1075.81</i>	--Rear, 275 meters 006°30' from front.	47° 21.0' N 2° 30.8' W	<b>Iso.R.</b> period 4s	62 19		3 Pylon, orange top; 39.	Intensified 004°-009°.
856 <i>D 1078</i>	-Dique Sud (Tourlandroux).	47° 20.8' N 2° 30.9' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	13 4		2 Green pole.	
LE CROISIC:							
860 <i>D 1088</i>	-Head of Trehic Jetty, W. side of entrance to port.	47° 18.5' N 2° 31.4' W	<b>Iso.W.G.</b> period 4s	39 12	W. 14 G. 11	Gray truncated tower, green top; 39.	G. 042°-093°, W.-145°, G.-345°.
862 <i>D 1091</i>	-Basso Hergo.	47° 18.6' N 2° 31.7' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	16 5		2 STARBOARD (A) G, tower, topmark; 39.	<b>Radar reflector.</b>

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
864 <i>D 1094</i>	-Grand Mabon.	47° 18.0' N 2° 31.0' W	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	2	Red pylon; 26.	
868 <i>D 1090</i>	-Near beach Range, front.	47° 18.0' N 2° 31.0' W	<b>Q.W.</b>	33 10	13	White pylon, orange daymark; 39.	Intensified 154°-158°.
872 <i>D 1090.1</i>	--Rear, 116 meters 155°30' from front.	47° 17.9' N 2° 31.0' W	<b>Q.W.</b>	46 14	13	White pylon, green top, orange daymark; 49.	Intensified 154°-158°. Synchronized with front. 2 Q.G. lights in range 174° shown inside entrance.
876 <i>D 1093</i>	-Range, front.	47° 17.9' N 2° 30.8' W	<b>Q.R.</b>	20 6	8	White pylon, red top, red and white checkered rectangular daymark; 20.	Intensified 125°30'-143°30'.
880 <i>D 1093.1</i>	--Rear, 52 meters 134°30' from front.	47° 17.9' N 2° 30.8' W	<b>Q.R.</b>	33 10	8	White pylon, red top, red and white checkered rectangular daymark; 33.	Intensified 125°30'-143°30'. Synchronized with front.
ESTUAIRE DE LA LOIRE:							
884 <i>D 1098</i>	-Le Pouliguen, jetty, head.	47° 16.4' N 2° 25.4' W	<b>Q.R.</b>	43 13	9	White column, red lantern; 49.	Visible 171°-081°.
888 <i>D 1100</i>	--Petit Impairs Tower.	47° 16.0' N 2° 24.6' W	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	2	Green metal pylon, hut; 26.	
892 <i>D 1102</i>	-Pornichet, S. breakwater.	47° 15.5' N 2° 21.1' W	<b>Iso.W.R.G.</b> period 4s	36 11	W. 10 R. 7 G. 7	White truncated tower, green top; 33.	G. 303°-081°, W.-084°, R.- 180°.
896 <i>D 1096</i>	<b>-La Banche.</b>	47° 10.6' N 2° 28.1' W	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	72 22	W. 15 R. 11	Black tower, white bands; 98.	R. 266°-280°, W.-266°. <b>AIS</b> (MMSI No 992271020).
912 <i>D 1150</i>	-Pointe de St. Gildas.	47° 08.0' N 2° 14.8' W	<b>Q.W.R.G.</b>	66 20	W. 14 R. 10 G. 10	Column, white house, green top; 56.	R. 264°-308°, G.-078°, W.- 088°, R.-174°, W.-180°, G.-264°. <b>AIS</b> (MMSI No 992271017).
916 <i>D 1105.5</i>	-Port de la Gravette, breakwater, head.	47° 09.6' N 2° 12.7' W	<b>Fl.(3)W.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	W. 8 G. 5	White metal structure, green top; 20.	G. 188°-124°, W.-138°, G.- 183°, W.-188°.
920 <i>D 1105</i>	-Saint Michel-Chef-Chef, Port de Comberge, Jetee Sud, head.	47° 10.5' N 2° 10.0' W	<b>Fl.(2)W.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	W. 9 G. 6	White tower, green top; 16.	W. 123°-140°, G.-123°.
924 <i>D 1152</i>	<b>-Ile du Pilier.</b>	47° 02.6' N 2° 21.6' W	<b>Fl.(3)W.</b> period 20s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 11.9s	108 33	29	Gray pyramidal tower; 112.	<b>AIS</b> (MMSI No 992271019).
	-Auxiliary light.		<b>Q.R.</b>	33 10	11		Visible 321°-034°.
928	<i>-Buoy S.N.1.</i>	47° 00.1' N 2° 39.8' W	<b>L.Fl.W.</b> period 10s fl. 3s, ec. 7s	23 7	4	SAFE WATER RW, pillar, topmark.	<b>AIS</b> (MMSI No 992271002).
	-RACON		<b>Z(- - • •)</b>				(3cm).
944 <i>D 1104</i>	-Le Grande Charpentier, Chenal du Nord, N. side.	47° 12.8' N 2° 19.1' W	<b>Q.W.R.G.</b>	72 22	W. 14 R. 10 G. 10	Gray truncated tower, green lantern; 89.	G. 020°-054°, W.-062°, R.- 092°, W.-111°, R.-310°, W.-020°. <b>AIS</b> (MMSI No 992271026).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
946	-La Couronne Lightbuoy.	47° 07.6' N 2° 20.1' W	<b>Q.G.</b>			STARBOARD (A) G, pillar, topmark.	<b>Radar reflector.</b>
	-RACON		(••••••)		3		
948 D 1106	-Portce Range, front.	47° 14.6' N 2° 15.4' W	<b>Q.W.</b>	20	22 6	White column; 75.	Intensified 024°42'-026°12'. <b>AIS</b> (MMSI No 992271021).
952 D 1106.1	--Rear, 1,350 meters 025°30' from front.	47° 15.2' N 2° 15.0' W	<b>Q.W.</b>	118	24 36	White tower, white rectangular daymark; 62.	Intensified 024°-027°. Shown 24 hours. Synchronized with front. <b>AIS</b> (MMSI No 992271023).
956 D 1114	-Pointe d'Aiguillon.	47° 14.5' N 2° 15.8' W	<b>Oc.(3)W.R.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	89 27	W. 13 R. 10	White tower; 62.	R. 207°-233°, W.-293°, W. 297°-300°, R.-327°, W.-023°, R. 027°-069°. <b>AIS</b> (MMSI No 992271018).
960 D 1104.4	-Le Pointeau, Digue Sud, head.	47° 14.0' N 2° 11.0' W	<b>Fl.W.G.</b> period 4s fl. 1s, ec. 3s	13 4	W. 10 G. 7	White round tower, green top; 13.	G. 050°-074°, W.-149°, G.-030°, W.-050°.
962 D 1104.2	-Pointe de Mindin.	47° 16.2' N 2° 10.2' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	20 6		3 White pylon.	
964 D 1116	--Villes-Martin, jetty, head.	47° 15.3' N 2° 13.7' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10		10 White truncated tower, red top; 46.	
968 D 1118	-Les Morees, Banc des Morees, NE. point.	47° 15.0' N 2° 13.0' W	<b>Fl.(3)W.R.</b> period 12s	39 12	W. 6 R. 4	Green truncated tower; 56.	R. 300°-058°, W.-224°.
	-Saint-Nazaire:						
972 D 1122	--W. jetty, head.	47° 16.0' N 2° 12.2' W	<b>Oc.(4)R.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11		8 White tower, red top; 33.	Synchronized with 976.
976 D 1124	--E. jetty.	47° 16.0' N 2° 12.1' W	<b>Oc.(4)G.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11		11 White tower, green top; 33.	Synchronized with 972. Fl.R. and Fl.G. lights mark lock entrance 500m N. and channels between basins.
980 D 1126	--Old mole, head.	47° 16.3' N 2° 11.8' W	<b>Q.(3)W.</b> period 10s	59 18		11 White turret, red top; 56.	Visible 153°30'-063°30'.
982 D 1127	--Old ferry dock.	47° 16.4' N 2° 11.8' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	16 5		1 Red pile; 30.	
984 D 1128	--Old dock entrance.	47° 16.5' N 2° 11.9' W	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9		9 Red pylon; 23.	
985 D 1128.7	--Bassin de Pehoet Range, front.	47° 17.1' N 2° 12.0' W	<b>FR.</b>	66 20		17 Red beacon, white bands.	Visible 340°-345°. Occasional.
985.1 D 1128.8	---Rear, 160 meters 344° from front.	47° 17.1' N 2° 12.1' W	<b>FR.</b>	66 20		17 Red beacon, white bands.	Visible 340°-345°. Occasional.
986 D 1129	--Shipyard slipway.	47° 17.0' N 2° 10.9' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	16 5		1 White pylon; 10.	
988 D 1130	--Bridge.	47° 17.1' N 2° 10.2' W	<b>Iso.W.</b> period 4s	180 55			On upstream and downstream side marking center of channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
992 D 1130.4	--Gron.	47° 17.4' N 2° 10.1' W	<b>Iso.R.</b> period 4s			2 Red column; 10.	
996 D 1131	--Le Village, No 1.	47° 17.9' N 2° 08.7' W	<b>Q.R.</b>	23	7	8 Red and white structure; 13.	Visible 225°-135°.
1008 D 1137	-Arceau Oil Jetty.	47° 18.4' N 2° 05.5' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33	10	9 White tower, red top; 26.	
1015 D 1138	--SW. dolphin.	47° 18.1' N 2° 05.0' W	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	23	7	2 Gray octagonal column, green top, hut; 13.	
1016 D 1139	--NE. dolphin.	47° 18.1' N 2° 04.8' W	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	23	7	2 Green octagonal column, hut; 13.	
-Donges:							
1024 D 1140	--Jetty, head.	47° 18.3' N 2° 04.2' W	<b>Fl.(2)R.</b> period 6s	29	9	9 Red metal tower; 26.	Visible 225°-135°.
1028 D 1142	-Paimboeuf, mole, head.	47° 17.4' N 2° 01.9' W	<b>Oc.(3)W.G.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	29	W. 10 9 G. 7	White tower, green top; 30.	G. 065°-123°, W.-297°.
BAIE DE BOURGNEUF:							
1031 D 1154.5	-Notre Dame.	47° 05.4' N 2° 08.3' W	<b>V.Q.(9)W.</b> period 10s	23	7	3 W. CARDINAL YBY, tower, topmark; 36.	
1032 D 1156	-Pornic, entrance, W. side.	47° 06.6' N 2° 06.9' W	<b>Oc.(4)W.R.G.</b> period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	75	W. 13 23 R. 9 G. 9	White square tower, green top, white dwelling; 49.	G. 238°-051°, W.-079°, R.-105°.
1036 D 1156.7	-Port de Peche, N.	47° 06.9' N 2° 06.2' W	<b>Fl.(2)R.</b> period 6s	6	2	7 White metal structure; 3.	
1040 D 1156.72	--South.	47° 06.9' N 2° 06.2' W	<b>Fl.(2)G.</b> period 6s	6	2	7 White metal structure; 3.	
1044 D 1155.2	--Yacht basin, SW. jetty, head.	47° 06.5' N 2° 06.7' W	<b>Fl.(2)R.</b> period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13	4	2 Black column, red top; 30.	
1048 D 1155	--SW. jetty, elbow.	47° 06.4' N 2° 07.0' W	<b>Fl.W.</b> period 2.5s fl. 0.5s, ec. 2s	13	4	3 Gray post; 3.	
1052 D 1155.4	--E. jetty, head.	47° 06.5' N 2° 06.7' W	<b>Fl.(2)G.</b> period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13	4	2 Black column, green top; 30.	
1056 D 1156.6	-Jetee de Gourmalon.	47° 06.5' N 2° 06.7' W	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	13	4	7 White metal post, green top; 16.	
1060 D 1156.8	-La Bernerie-en-Retz, jetty, head.	47° 04.6' N 2° 02.3' W	<b>Fl.R.</b> period 2s	13	4	5 White post, red top; 10.	
1064 D 1157	-Le Collet.	47° 01.8' N 1° 58.9' W	<b>Oc.(2)W.R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23	W. 7 7 R. 5	White hut, red top; 20.	W. 278°-093°, R.-156°. About 900 meters SW., 2 Q.G. lights form range 118°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
1068 <i>D 1160</i>	-Etier des Brochets.	46° 59.9' N 2° 01.8' W	<b>Oc.(3)W.R.G.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	26 8	W. 10 R. 7 G. 7	White tower; 23.	G. 071°-091°, W.-102°30', R.-116°30', W.-119°30', R.-164°30'.
1072 <i>D 1161</i>	-Bec de l'Epoids, bay, SE. shore.	46° 56.4' N 2° 04.5' W	<b>Iso.W.R.G.</b> period 4s	26 8	W. 10 R. 7 G. 7	White square tower, red top; 23.	G. 106°-113°30', R.-122°, G.-157°30', W.-158°30', R.-171°30', W.-176°.
ILE DE NOIRMOUTIER:							
1080 <i>D 1162</i>	-Pointe des Dames.	47° 00.7' N 2° 13.3' W	<b>Oc.(3)W.R.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	112 34	W. 19 R. 15 G. 15	White square tower; 62.	R. 057°-124°, G.-165°, W.-191°, R.-267°, W.-357°, R.-016°30', G.-057°.
1084 <i>D 1164</i>	-Heaux Jetty, head.	46° 59.3' N 2° 13.1' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	19 6	6	White column, red top; 23.	
1088 <i>D 1154</i>	-Pierre Moine Tower.	47° 03.4' N 2° 12.4' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	7	ISOLATED DANGER BRB, tower, topmark; 59.	
1092 <i>D 1153</i>	-Basse du Martroger.	47° 02.6' N 2° 17.1' W	<b>Q.W.R.G.</b>	36 11	W. 9 R. 6 G. 6	N. CARDINAL BY, tower, topmark; 52.	G. 033°-055°, W.-060°, R.-095°, G.-124°, W.-153°, R.-201°, W.-240°, R.-033°.
1096 <i>D 1166</i>	-L'Herbaudiere, jetty, head.	47° 01.6' N 2° 17.9' W	<b>Oc.(2+1)W.G.</b> period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	29 9	W. 10 G. 7	White hut, green mast; 23.	W. 187°30'-190°, G.-187°30'. 2 Q.W. 7M in line 187°30' mark entrance to harbor.
1100 <i>D 1167</i>	--E. jetty, head.	47° 01.6' N 2° 17.9' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	4	Red metal tripod mast; 20.	
1102 <i>D 1165</i>	--Entrance Range, front.	47° 01.6' N 2° 17.8' W	<b>Q.W.</b>	16 5	7	Gray post, red top; 13.	Visible 098°-278°.
1102.1 <i>D 1165.1</i>	--Rear, 310 meters 187°30' from front.	47° 01.4' N 2° 17.9' W	<b>Q.W.</b>	69 21	7	Gray post; 49.	Visible 098°-278°.
1104 <i>D 1168</i>	-Pointe du Devin, W. side of island.	46° 59.2' N 2° 17.6' W	<b>Oc.(4)W.R.G.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	33 10	W. 11 R. 8 G. 8	White column, hut, green top; 23.	G. 314°-028°, W.-035°, R.-134°.
GOULET DE FROMENTINE:							
1108	-Approach Bell Buoy.	46° 53.1' N 2° 11.4' W	<b>L.Fl.W.</b> period 10s fl. 3s, ec. 7s	10 3	6	SAFE WATER RW, spherical, topmark.	<b>Radar reflector.</b>
1112 <i>D 1170</i>	-Middle Tower.	46° 53.6' N 2° 09.6' W	<b>Fl.(4)R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	20 6	5	Red truncated tower; 39.	
1116 <i>D 1174</i>	-Fromentine Bridge, W. head.	46° 53.5' N 2° 09.0' W	<b>Iso.W.</b> period 4s	105 32	18	On center span.	Shown 24 hours. <b>AIS</b> (MMSI No 992271033). On upstream and downstream sides marking the center of the channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
1120 <i>D 1172</i>	-Pointe Notre Dame-de Monts.	46° 53.3' N 2° 08.5' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 13 R. 10 G. 10	White tower, black top; 33.	G. 000°-043°, W.-063°, R.-073°, W.-094°, G.-113°, W.-116°, R.-175°, G.-196°, R.-230°.
1124 <i>D 1189</i>	Saint-Jean-de-Monts, on jetty.	46° 47.1' N 2° 05.1' W	<b>Fl.(2)R.</b> period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	33 10	1	White post, red top; 30.	
ILE D'YEU:							
1128 <i>D 1176</i>	-Main.	46° 43.0' N 2° 22.9' W	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	184 56	24	White square tower, green lantern; 125.	<b>AIS</b> (MMSI No 992271031).
1132 <i>D 1178</i>	-Les Chiens Perrins, about 800 meters off NW. extremity of island.	46° 43.6' N 2° 24.6' W	<b>Q.(9)W.G.</b> period 15s	52 16	W. 7 G. 4	W. CARDINAL YBY, tower, topmark; 62.	G. 330°-350°, W.-200°.
1136 <i>D 1180</i>	-Joinville (Port-Breton), NW. jetty, head.	46° 43.8' N 2° 20.8' W	<b>Oc.(3)W.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	20 6	W. 11 G. 8	White four-sided structure, green top.	G. 090°-150°, W.-232°, G.-279°, W.-285°, G.-333°.
1140 <i>D 1183</i>	-Quai du Canada Range, front.	46° 43.7' N 2° 20.9' W	<b>Q.R.</b>	36 11	6	Pylon; 30.	Visible 169°-269°.
1140.1 <i>D 1183.1</i>	--Rear, about 85 meters 219° from front.	46° 43.6' N 2° 20.9' W	<b>Q.R.</b>	52 16	6	Metal mast; 49.	Visible 169°-269°.
1144 <i>D 1184</i>	-Quai du Canada, head.	46° 43.6' N 2° 20.8' W	<b>Iso.G.</b> period 4s	23 7	6	White truncated tower, green top; 16.	Unintensified 337°-067°.
1148 <i>D 1186</i>	<b>-Pointe des Corbeaux.</b>	46° 41.4' N 2° 17.1' W	<b>Fl.(2+1)R.</b> period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 5.9s fl. 0.4s, ec. 5.9s	82 25	20	White square tower, red top; 62.	
1152 <i>D 1188</i>	-La Meule, W. side of entrance.	46° 41.6' N 2° 20.7' W	<b>Oc.W.R.G.</b> period 4s lt. 3s, ec. 1s	30 9	W. 9 R. 6 G. 6	Gray tower, red top; 20.	G. 007°-30'-018°, W.-027°-30', R.-041°-30'.
SAINT-GILLES-SUR-VIE:							
1160 <i>D 1190</i>	<b>-Croix de Vie Quay</b> Range, front.	46° 41.5' N 1° 57.3' W	<b>Q.W.</b>	23 7	15	White square tower, red top; 23.	Visible 033°-30'-053°-30'. <b>AIS</b> (MMSI No 992271027).
1164 <i>D 1190.1</i>	--Rear, 260 meters 043°42' from front.	46° 42.0' N 1° 56.6' W	<b>Q.W.</b>	92 28	15	White pyramidal tower, red top; 79.	Visible 033°-30'-053°-30'. <b>AIS</b> (MMSI No 992271034). Synchronized with front.
1168 <i>D 1189.6</i>	<b>-Pointe de Grosse Terre.</b>	46° 41.5' N 1° 57.9' W	<b>Fl.(4)W.R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	82 25	W. 18 R. 15	White truncated tower; 56.	R. 290°-339°, W. -125°, R.-145°.
1172 <i>D 1193</i>	-Jetee de la Garenne.	46° 41.6' N 1° 57.1' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	6	White structure, green top; 26.	Channel into port marked by lighted buoys.
1176 <i>D 1191</i>	-Jetee de Boisvinet.	46° 41.6' N 1° 57.2' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	6	Red metal column, white hut; 20.	
LES SABLES-D'OLONNE:							
1180 <i>D 1196</i>	<b>-L'Armandeche.</b>	46° 29.4' N 1° 48.3' W	<b>Fl.(2+1)W.</b> period 15s fl. 0.1s, ec. 2.5s fl. 0.1s, ec. 6.1s fl. 0.1s, ec. 6.1s	138 42	24	White hexagonal tower, red top; 128.	Visible 295°-130°.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
1184 <i>D 1198</i>	-Les Barges.	46° 29.7' N 1° 50.5' W	<b>Fl.(2)R.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	82 25	13	Gray tower; 95.	
1196 <i>D 1207</i>	-L'Estacade Range, front.	46° 29.4' N 1° 46.4' W	<b>Iso.W.</b> period 4s	39 12	16	Metal post; 39.	
1200 <i>D 1207.1</i>	--Rear, 330 meters 032°30' from front.	46° 29.6' N 1° 46.2' W	<b>Iso.W.</b> period 4s	108 33	16	White square tower, white house; 66.	Shown 24 hours. <b>AIS</b> (MMSI No 992271024).
1204 <i>D 1210</i>	-Entrance Range, front.	46° 29.7' N 1° 47.7' W	<b>Iso.R.</b> period 4s	20 6	9	White hut, red top, red rectangular daymark; 20.	
1208 <i>D 1210.1</i>	--Rear, 65 meters 328°06' from front.	46° 29.8' N 1° 47.7' W	<b>Iso.R.</b> period 4s	30 9	9	White tower, red lantern, red rectangular daymark; 30.	Visible 324°-330°. Synchronized with front.
1212 <i>D 1200</i>	-Jetee St. Nicolas, head.	46° 29.2' N 1° 47.5' W	<b>Q.R.</b>	52 16	8	White tower, red top; 46.	Visible 143°-094°.
1216 <i>D 1204</i>	-Jetee des Sables, head, front.	46° 29.4' N 1° 47.5' W	<b>Q.G.</b>	36 11	8	White truncated tower, green top; 30.	<b>AIS</b> (MMSI No 992271032).
1220 <i>D 1204.1</i>	-Tour de La Chaume, W. side of entrance, rear 465 meters 320° from front.	46° 29.6' N 1° 47.7' W	<b>Q.W.</b>	108 33	12	Gray square tower; 89.	Synchronized with front. <b>AIS</b> (MMSI No 992271022).
1222 <i>D 1211</i>	-Bourgenay Range, front.	46° 26.3' N 1° 40.6' W	<b>Q.G.</b>	30 9	7	White tower, green rectangular daymark, white border; 26.	Visible 020°-060°.
1222.1 <i>D 1211.1</i>	--Rear, 162 meters 040° from front.	46° 26.4' N 1° 40.5' W	<b>Q.G.</b>	62 19	7	White pylon, green rectangular daymark, white border; 56.	Visible 010°-070°.
PERTUIS DU BRETON:							
1240 <i>D 1214</i>	-Pointe Grouin du Cou.	46° 20.7' N 1° 27.8' W	<b>Fl.W.R.G.</b> period 5s fl. 0.4s, ec. 4.6s	94 29	W. 20 R. 16 G. 16	White octagonal tower, black lantern; 52.	R. 034°-061°, W.-117°, G.- 138°, W.-034°.
1244 <i>D 1215</i>	-La Tranche-sur-Mer, Estacade, estremity.	46° 20.6' N 1° 25.6' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	6	Red pole; 13.	
1248	-Anse de l' Aiguillon Approach Buoy.	46° 15.8' N 1° 11.3' W	<b>L.Fl.W.</b> period 10s fl. 3s, ec. 7s	10 3	5	SAFE WATER RW, pillar, topmark.	<b>Radar reflector.</b>
1256 <i>D 1242</i>	-Port du Plomb, W. mole, head.	46° 12.1' N 1° 12.2' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	7	White metal column, red top; 39.	
1260 <i>D 1216</i>	-Haut Banc du Nord.	46° 15.8' N 1° 35.2' W	<b>V.Q.W.</b>	75 23	7	Gray tower; 105.	
ILE DE RE:							
1268 <i>D 1218</i>	-Les Baleines.	46° 14.7' N 1° 33.7' W	<b>Fl.(4)W.</b> period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	174 53	27	Gray octagonal tower, red lantern; 187.	3 F.R. lights shown on semaphore tower 0.1 miles SW.
1272 <i>D 1220</i>	-Fier d'Ars.	46° 14.1' N 1° 28.6' W	<b>Oc.W.R.G.</b> period 4s lt. 3s, ec. 1s		W. 10 R. 7 G. 7		G. 257°30'-267°30', W.- 268°30', R.-274°30'.
1280 <i>D 1223</i>	-Ars-en-Re Range, front.	46° 12.8' N 1° 30.6' W	<b>Q.W.</b>	16 5	9	White hut, red lantern; 20.	
1284 <i>D 1223.1</i>	--Rear, 370 meters 232°30' from front.	46° 12.6' N 1° 30.8' W	<b>Q.W.</b>	42 13	11	White pylon, green top, black rectangular daymark; 46.	Visible 142°-322°.
1286 <i>D 1224</i>	-Les Islattes.	46° 14.0' N 1° 23.4' W	<b>Q.W.</b>	43 13	3	N. CARDINAL BY, tower, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
1292 <i>D 1226</i>	-St. Martin, 100 meters SE. of entrance to port.	46° 12.4' N 1° 21.9' W	<b>Oc.(2)W.R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	W. 10 R. 7	White truncated tower, red top; 43.	W. 083°-245°, R.-281°, W.-300°.
1296 <i>D 1228</i>	--Mole, head.	46° 12.5' N 1° 21.9' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	33 10		White tripod, green top; 23.	
1300 <i>D 1230</i>	-La Flotte, mole, head.	46° 11.3' N 1° 19.3' W	<b>Fl.W.G.</b> period 4s fl. 1s, ec. 3s	33 10	W. 12 G. 9	White tower, green top; 33.	G. 130°-205°, W.-220°, G.-257°.
1304 <i>D 1232</i>	-Rivedoux-Plage Range, front, jetty, head.	46° 09.8' N 1° 16.6' W	<b>Q.G.</b>	20 6		White tower, green top; 16.	
1308 <i>D 1232.1</i>	--Rear, 100 meters 194°30' from front.	46° 09.7' N 1° 16.7' W	<b>Q.G.</b>	30 9		White columns, green top, green and white checkered daymark; 26.	Synchronized with front.
1312 <i>D 1234</i>	-Pointe de Sablanceaux, pier, head.	46° 09.8' N 1° 15.2' W	<b>V.Q.(3)W.</b> period 5s	33 10		E. CARDINAL BYB, post, topmark; 23.	
PERTUIS D'ANTIOCHE:							
1316 <i>D 1240</i>	-Pointe de Chanchardon, Ile de Re, reef, S. side.	46° 09.7' N 1° 28.4' W	<b>Fl.W.R.</b> period 4s fl. 1s, ec. 3s	49 15	W. 9 R. 6	Black octagonal tower, white base; 66.	R. 110°-290°, W.-110°.
1324 <i>D 1238</i>	<b>-Pointe de Chauveau.</b>	46° 08.0' N 1° 16.4' W	<b>Oc.(3)W.R.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	89 27	W. 15 R. 11	White truncated tower, red top; 102.	W. 057°-094°, R.-104°, W.-342°, R.-057°.
-La Pallice:							
1328	<b>--Mole d'Escale, (Maritime Station).</b>	46° 09.5' N 1° 14.5' W	<b>Q.W.R.G.</b>	108 33	W. 15 R. 11 G. 11	Gray square metal tower; 75.	G. 007°-012°45', W.-015°15', R.-029°. Oc.W. 4s 3M by day. In line 014° with 1340.
1332 <i>D 1244.6</i>	---NW. angle.	46° 09.8' N 1° 14.4' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5		Green round post; 3.	
1336 <i>D 1244.4</i>	---SE. angle, on caisson.	46° 09.5' N 1° 14.4' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	23 7		Red metal mast; 10.	
1340 <i>D 1244</i>	-Oil pier, extremity.	46° 09.4' N 1° 14.5' W	<b>Q.(6)+L.Fl.W.</b> period 15s	20 6		S. CARDINAL YB, tower, topmark; 10.	Oc.W. 4s 3M by day. In line 014° with 1328.
1344 <i>D 1245</i>	-N. jetty, head.	46° 09.5' N 1° 13.9' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10		Gray tower, red top; 30.	R. 234°-144°, R.(unintensified)-184°.
1344.5 <i>D 1246</i>	--S. jetty, head.	46° 09.5' N 1° 13.5' W	<b>Oc.(3)G.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	19 6		Gray masonry structure; 13.	
1345 <i>D 1247</i>	-Basin Range, front.	46° 09.5' N 1° 12.6' W	<b>Q.R.</b>	69 21		Red structure; 62.	
1345.1 <i>D 1247.1</i>	--Rear, 154 meters 085° from front.	46° 09.6' N 1° 12.5' W	<b>Q.R.</b>	89 27		White column, red top, red rectangular daymark, white stripe; 95.	Synchronized with front.
1348 <i>D 1244.8</i>	-W. jetty, head.	46° 09.3' N 1° 14.0' W	<b>Oc.(2)G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	42 13		White structure, green top; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
LA PALLICE:							
1351 <i>D 1247.5</i>	-Chef de Baie Fishing Harbor.	46° 08.9' N 1° 13.3' W	<b>Oc.(3)W.R.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	33 10	W. 10 R. 7 G. 7	White round metal tower, red bands.	G. 096°-101°, W.-103°, R.-108°.
1351.5 <i>D 1248</i>	--W. jetty, head.	46° 08.9' N 1° 13.6' W	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	23 7	4	White tower, red top.	
1351.7 <i>D 1248.5</i>	--S. jetty, head.	46° 08.9' N 1° 13.6' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	23 7	4	White tower, green top.	
1352 <i>D 1243</i>	-Le Lavardin, on reef.	46° 08.1' N 1° 14.5' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	7	ISOLATED DANGER BRB, tower, topmark; 69.	
1360 <i>D 1253</i>	-Pointe des Minimes.	46° 08.3' N 1° 10.8' W	<b>Fl.(3)W.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	W. 8 G. 5	Octagonal tower, metal post; 49.	G. 313°-059°, W.-213°.
1364 <i>D 1251</i>	--Entrance Range, front.	46° 09.4' N 1° 09.1' W	<b>Q.W.</b>	49 15	14	White tower, red top, white bands; 46.	Visible 056°-062°. Fl.W. 4s by day.
1368 <i>D 1251.1</i>	---Rear, 235 meters 059° from front.	46° 09.4' N 1° 09.0' W	<b>Q.W.</b>	82 25	14	White octagonal tower, green top; 75.	Visible 044°-074°. Obscured 061°-065°. Synchronized with front. Fl.W. 4s by day.
1380 <i>D 1250</i>	--Tourelle Richelieu.	46° 08.9' N 1° 10.3' W	<b>Fl.(2)R.</b> period 6s	33 10	6	Red octagonal tower; 56.	
1381 <i>D 1254</i>	-Port of Minimes, W. jetty, head.	46° 08.8' N 1° 10.2' W	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	5	White tower, green top; 23.	
1384 <i>D 1256</i>	<b>-Ile d'Aix.</b>	46° 00.6' N 1° 10.7' W	<b>Fl.W.R.</b> period 5s fl. 0.3s, ec. 4.7s	79 24	W. 24 R. 20	Two white towers, red tops; 56.	W. 118°-103°, R.-118°. One tower for the light, the other as a screen to make N. limit of red sector more pronounced.
1385 <i>D 1256.3</i>	-Fort Boyard.	46° 00.0' N 1° 12.9' W	<b>Q.(9)W.</b> period 15s			W. CARDINAL YBY, tower, topmark.	Marks platform close W. Mussel racks marked by Fl.Y. lights 1.4 and 1.9 miles W.
1388 <i>D 1258</i>	-Fouras, jetty, head.	45° 59.8' N 1° 05.8' W	<b>Oc.(3+1)W.R.G.</b> period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s lt. 3s, ec. 1s	30 9	W. 11 R. 7 G. 7	White pylon, green top; 23.	G. 084°-127°, W.-137°, R.-180°, W.-084°.
1390 <i>D 1259</i>	--Range, front.	45° 59.0' N 1° 05.7' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	White two column, platform, red top; 13.	Visible 315°-135°.
1391 <i>D 1259.1</i>	---Rear, 75 meters 042°30' from front.	45° 59.1' N 1° 05.6' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	62 19	6	White two column platform, red top; 20.	Visible 315°-135°. Synchronized with front.
1392 <i>D 1259.4</i>	-Fourao (Port Sud), jetty, head.	45° 59.0' N 1° 05.7' W	<b>Fl.W.R.</b> period 4s fl. 1s, ec. 3s	20 6	W. 9 R. 6	White tripod, red top; 16.	W. 177°-115°, R.-177°.
1396 <i>D 1258.5</i>	-Jetee de la Fumee, head.	46° 00.3' N 1° 07.1' W	<b>Q.G.</b>	16 5	5	Green post; 26.	

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<b>FRANCE-WEST COAST</b>							
-Charente:							
1400 <i>D 1257</i>	--First Range, front.	45° 58.0' N 1° 04.4' W	<b>Q.R.</b>	26	<b>19</b>	White square tower, red top; 30.	Intensified 113°-117°.
1404 <i>D 1257.1</i>	--Rear, about 600 meters 115° from front.	45° 57.8' N 1° 04.0' W	<b>Q.R.</b>	69	<b>20</b>	White square tower, red top; 75.	Intensified 113°-117°.
			<b>Q.R.</b>	69	8		Visible 322°-067° from berth of Port des Barques.
1408 <i>D 1264</i>	--Port des Barques, second Range, front.	45° 56.9' N 1° 04.2' W	<b>Iso.G.</b> period 4s	16	9	White square tower; 20.	Intensified 125°-145°.
1412 <i>D 1264.1</i>	--Rear, 490 meters 134°18' from front.	45° 56.8' N 1° 03.9' W	<b>Iso.G.</b> period 4s	43	11	White square tower, black band on W. side, black top; 52.	Intensified 125°-145°. Synchronized with front.
ILE D'OLERON:							
1416 <i>D 1272</i>	-Rocher d'Antioche, Ile D'Oleron, N. shore.	46° 03.9' N 1° 23.7' W	<b>Q.W.</b>	66	11	N. CARDINAL BY, tower, topmark; 89.	
1420 <i>D 1270</i>	- <b>Chaussiron.</b>	46° 02.8' N 1° 24.6' W	<b>Fl.W.</b> period 10s fl. 0.2s, ec. 9.8s	164	<b>28</b>	White tower, black bands; 151.	
1422 <i>D 1274</i>	-Saint-Denis-d'Oleron.	46° 02.1' N 1° 22.1' W	<b>Fl.(2)W.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36	W. 9 G. 6	Square stone hut, post; 13.	G. 205°-277°, W.-292°, G.- 165°.
1422.5 <i>D 1274.6</i>	--S. pier, head.	46° 02.1' N 1° 22.2' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30	6	Square stone hut; 3.	
1423 <i>D 1274.4</i>	-Directional light.	46° 01.6' N 1° 21.9' W	<b>Iso.W.R.G.</b> period 4s	46	W. 11 R. 8 G. 8	White concrete post, gallery; 33.	G. 190°-204°, W.-206°, R.- 220°.
1424 <i>D 1276</i>	-La Perotine, training wall, head.	45° 58.2' N 1° 13.8' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26	5	White tripod, hut, red top; 23.	
1428 <i>D 1277</i>	-Tourelle Juliar.	45° 54.1' N 1° 09.5' W	<b>Q.(3)W.G.</b> period 10s	39	W. 8 G. 5	E. CARDINAL BYB, tower, topmark; 69.	W. 147°-336°, G.-147°.
1432 <i>D 1278</i>	-Chateau Range, front.	45° 53.0' N 1° 11.5' W	<b>Q.R.</b>	36	7	White tower, red top, red rectangular daymark; 10.	Visible 191°-087°.
1436 <i>D 1278.1</i>	--Rear, about 240 meters 319° from front.	45° 53.1' N 1° 11.6' W	<b>Q.R.</b>	79	7	White truncated tower, red top; 66.	Synchronized with front.
1440 <i>D 1287.5</i>	-St. Trojan.	45° 50.8' N 1° 12.4' W	<b>Fl.G.</b> period 2.5s	26	2	Gray electric post; 26.	Viaduct d'Oleron marked by F.W. light 2 kilometers ENE.
-La Cotiniere:							
1444 <i>D 1284</i>	--Approach.	45° 54.3' N 1° 18.6' W	<b>Oc.W.R.G.</b> period 4s lt. 3s, ec. 1s	43	W. 11 R. 9 G. 9	White metal column, white rectangular daymark, black border; 20.	G. 033°-046°, W.-050°, R.- 063°.
1448 <i>D 1285</i>	--Entrance Range, front.	45° 54.7' N 1° 19.7' W	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	20	13	White tower, red top; 16.	Visible 329°-349°.
1452 <i>D 1285.1</i>	---Rear, 425 meters 339°30' from front.	45° 54.9' N 1° 19.8' W	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46	12	White pylon, red bands; 33.	Intensified 329°-349°. Synchronized with front.
1456 <i>D 1286</i>	--Jetty elbow.	45° 54.8' N 1° 19.7' W	<b>Fl.(2)R.</b> period 6s	36	8	White tower, red top; 36.	Unintensified 133°-218°.

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<b>FRANCE-WEST COAST</b>							
1460 <i>D 1286.4</i>	--Head.	45° 54.6' N 1° 19.7' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33 10	6	White tower, red top; 33.	
1464 <i>D 1286.6</i>	--S. jetty, head.	45° 54.8' N 1° 19.6' W	<b>Fl.(2)G.</b> period 6s	30 9	6	White tower, green top; 26.	
1468 <i>D 1287</i>	--Epi du Colombier, E. side of entrance.	45° 54.8' N 1° 19.7' W	<b>Q.(6)+L.Fl.W.</b> period 15s	20 6	2	White tower, two triangular daymarks points down; 16.	
<b>GIRONDE:</b>							
1476 <i>D 1290</i>	<b>-Pointe de la Coubre.</b>	45° 41.8' N 1° 14.0' W	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	210 64	28	White truncated conical tower, red top; 213.	
			<b>Q.R.</b>	138 42	10		Visible 030°-110°.
1480 <i>D 1300</i>	<b>-Plateau de Cordouan.</b>	45° 35.2' N 1° 10.4' W	<b>Oc.(2+1)W.R.G.</b> period 12s lt. 3.6s, ec. 1.2s lt. 3.6s, ec. 1.2s lt. 1.2s, ec. 1.2s	197 60	W. 19 R. 16 G. 15	White tower, gray top; 223.	W. 014°-126°, G.-178°30', W.-250°, W.(unintensified)-267°, R.(unintensified)-294°30', R.-014°.
1488 <i>D 1293.9</i>	--Duc d'Albe.	45° 39.6' N 1° 08.8' W	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	33 10	2	White pylon, dolphin; 89.	
1490 <i>D 1292</i>	<b>-La Palmyre.</b>	45° 41.6' N 1° 10.3' W	<b>Dir.W.R.G.</b>	177 54	W. 25 R. 20 G. 20	Water tower.	F.G. 054°55'-055°37', Al.W.G.-056°14', F.W.- 057°05', Al.W.R.-057°43', F.R.-058°25'.
1492 <i>D 1294.1</i>	--Terre Negre Range, front.	45° 38.8' N 1° 06.4' W	<b>Oc.(3)W.R.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	128 39	W. 14 R. 11 G. 11	White tower, red top, 89.	R. 304°-319°, W.-327°, G.- 000°, W.-004°, G.-097°, W.-104°, R.-116°.
1496 <i>D 1294</i>	---Rear, about 1 mile 327°18' from front.	45° 39.7' N 1° 07.2' W	<b>Oc.(3)R.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	187 57	17	White tower, 118.	Intensified 325°30'-328°30'. Radar station.
1500 <i>D 1310</i>	<b>--Saint Nicolas Range, front.</b>	45° 33.7' N 1° 05.0' W	<b>Q.G.</b>	72 22	16	White square tower; 43.	Intensified 061°30'-064°30'.
1504 <i>D 1310.1</i>	--- <b>Pointe de Grave, rear,</b> about 1,550 meters 063° from front.	45° 34.1' N 1° 03.9' W	<b>Oc.W.R.G.</b> period 4s lt. 3s, ec. 1s	85 26	W. 17 R. 13 G. 13	White square tower, black corners and top; 82.	W. 330°-341°, W.(unintensified)-054°, W.-233°, R.-303°, W.- 312°, G.-330°.
1505 <i>D 1313</i>	---N. jetty.	45° 34.4' N 1° 03.7' W	<b>Q.W.</b>	30 9	3	N. CARDINAL BY, beacon, topmark; 23.	<b>Radar reflector.</b>
1506 <i>D 1313.2</i>	---E. Elbow.	45° 34.3' N 1° 03.6' W	<b>Iso.G.</b> period 4s	26 8	2	STARBOARD (A) G, beacon, topmark; 23.	Visible 173°-020°. <b>Radar reflector.</b>
1508 <i>D 1312</i>	<b>--Le Chay Range, front.</b>	45° 37.3' N 1° 02.4' W	<b>Q.R.</b>	108 33	18	White tower, red top; 49.	Intensified 039°30'-042°30'.
1512 <i>D 1312.1</i>	--- <b>St. Pierre, rear,</b> 1800 meters 041° from front.	45° 38.0' N 1° 01.5' W	<b>Q.R.</b>	200 61	18	Red water tower; 131.	Intensified 039°-043°. Synchronized with front.
1516 <i>D 1314</i>	-Port Bloc, N. mole, head.	45° 34.1' N 1° 03.7' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	4	White pyramidal tower, green top; 59.	
1520 <i>D 1316</i>	--S. mole, head.	45° 34.1' N 1° 03.7' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	4	White pyramidal tower, red top; 56.	Shown by day in restricted visibility.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
-Passe Sud:							
1524 <i>D 1326</i>	--Oil pier.	45° 31.9' N 1° 02.1' W	<b>Dir.W.R.G.</b> period 4s	13 4	W. 12 R. 8 G. 8	Dolphin, white rectangular daymark, black stripe; 36.	Iso.G. 165°-170°, Iso.W.- 173°, Iso.R.-178°.
			<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	16 5	3		
1532 <i>D 1327</i>	-Pointe de la Chambrette, N. side.	45° 33.0' N 1° 02.5' W	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	43 13	2	Green structure; 10.	
1533 <i>D 1327.2</i>	--S. side.	45° 32.8' N 1° 02.4' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	39 12	4	Metal structure; 3.	Visible 180°-020°.
-Royan:							
1536 <i>D 1304</i>	--S. Jetty.	45° 37.0' N 1° 01.8' W	<b>Fl.(2)R.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	36 11	12	White tower, red base; 33.	
1540 <i>D 1308</i>	--New Jetty, head.	45° 37.1' N 1° 01.5' W	<b>Fl.(3)R.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	26 8	6	White metal mast, red top; 23.	
1544 <i>D 1307</i>	--E. Jetty.	45° 37.2' N 1° 01.6' W	<b>Fl.(3)G.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	7 2	6	White metal post, green top; 13.	Visible 311°-151°.
1556 <i>D 1372</i>	<b>Hourtin.</b>	45° 08.5' N 1° 09.7' W	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	180 55	21	Red square brick tower, gray top; 79.	
1560 <i>D 1378</i>	<b>Cap Ferret.</b>	44° 38.7' N 1° 15.0' W	<b>Fl.R.</b> period 5s fl. 0.1s, ec. 4.9s	175 53	22	White truncated tower, red top; 171.	
			<b>Oc.(3)W.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	151 46	14		Visible 045°-135°. Reserve light.
1576 <i>D 1380</i>	-La Salie, wharf, head.	44° 30.9' N 1° 15.7' W	<b>Q.(9)W.</b> period 15s	59 18	4	Metal post, two triangular daymarks points together.	
1580 <i>D 1382</i>	<b>Contis-les-Bains.</b>	44° 05.6' N 1° 19.1' W	<b>Fl.(4)W.</b> period 25s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 12.3s	164 50	23	White round tower, black diagonal stripes; 138.	F.R. light on radio mast 16.5 miles NNE.
L'ADOUR:							
1584 <i>D 1384</i>	-Capbreton-Digue Nord, head.	43° 39.4' N 1° 26.9' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	42 13	8	White tower, red top; 20.	
1588 <i>D 1386</i>	-Capbreton-Estacade Sud.	43° 39.3' N 1° 26.9' W	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	8	White metal tower, green top; 26.	
1596 <i>D 1387</i>	-N. breakwater, head.	43° 31.9' N 1° 32.0' W	<b>Q.R.</b>	39 12	8	White square tower, red top; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
1600 <i>D 1387.2</i>	-Entrance Range, front.	43° 31.8' N 1° 31.2' W	<b>Q.W.</b>	23 7	19	White pylon, red top; 20.	Intensified 086°30'-093°30'.
1604 <i>D 1387.21</i>	--Rear, 250 meters 090° from front.	43° 31.8' N 1° 31.0' W	<b>Q.W.</b>	52 16	19	White pylon, red top; 39.	Intensified 086°30'-093°30'. Synchronized with front.
1608 <i>D 1387.3</i>	-Jetee Nord, head.	43° 31.8' N 1° 31.4' W	<b>Iso.R.</b> period 4s	39 12	5	White pylon, red top; 33.	Visible 296°-116°. Synchronized with 1612.
1612 <i>D 1387.4</i>	-Jetee Sud, head.	43° 31.7' N 1° 31.5' W	<b>Iso.G.</b> period 4s	30 9	5	White square tower, green top; 26.	Synchronized with 1608.
1616 <i>D 1387.5</i>	-S. breakwater, head.	43° 31.5' N 1° 31.7' W	<b>Q.(9)W.</b> period 15s	49 15	7	W. CARDINAL YBY, pylon, topmark; 46.	
1620 <i>D 1388</i>	-Inner Range, front.	43° 31.6' N 1° 30.9' W	<b>Q.G.</b>	23 7	13	White metal hut, green bands; 13.	Intensified 109°-114°.
1624 <i>D 1388.1</i>	--Rear, 149 meters 111°30' from front.	43° 31.6' N 1° 30.8' W	<b>Q.G.</b>	33 10	13	White square tower, green bands on NE. and NW. faces; 30.	Intensified 109°-114°.
1624.5 <i>D 1390</i>	-Training wall, N. side.	43° 31.8' N 1° 31.2' W	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	White tower, red top; 16.	Visible 296°-091°. Fl.(3)R. 12s 9m 3M and Fl.(4)R. 15s 9m 3M mark N. bank.
1625 <i>D 1390.5</i>	-S. side.	43° 31.6' N 1° 30.9' W	<b>Q.G.</b>	23 7	8	White column, green top; 13.	Visible 205°-295°. Fl.(3)G. 12s 9m 3M and Fl.(4)G. 15s 9m 3M mark S. bank.
1628 <i>D 1394</i>	-Des Forges Range, front.	43° 31.6' N 1° 29.9' W	<b>Q.R.</b>	49 15	8	White pylon, red top.	Visible 188°-098°.
1632 <i>D 1394.1</i>	--Rear, about 150 meters 322°24' from front.	43° 31.7' N 1° 30.0' W	<b>Q.R.</b>	72 22	10	Pylon.	Intensified 312°24'-332°24'.
1633 <i>D 1391</i>	-Marina entrance, W. side.	43° 31.6' N 1° 30.5' W	<b>Fl.G.</b> period 2.5s fl. 0.4s, ec. 2.1s	20 6	2	White pylon, green top; 13.	
1634 <i>D 1392</i>	-Digue basse, E. end.	43° 31.5' N 1° 30.1' W	<b>Fl.(2)G.</b> period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13 4	4	White pylon, green top; 20.	
1635 <i>D 1394.2</i>	-Sait Gobain Range, front.	43° 31.1' N 1° 29.3' W	<b>Q.R.</b>	23 7	2	White pylon, white daymark, red stripe; 20.	
1635.5 <i>D 1394.3</i>	--Rear, 80 meters 141° from front.	43° 31.0' N 1° 29.3' W	<b>Q.R.</b>	33 10	2	White pylon, red daymark, white stripe; 26.	
1636 <i>D 1395</i>	-Pointe de Blancpignon.	43° 30.9' N 1° 29.6' W	<b>Fl.(2)G.</b> period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	26 8	6	White metal column, green top; 23.	
1648 <i>D 1396</i>	-Forme de Radoub.	43° 30.5' N 1° 29.8' W	<b>V.Q.G.</b>	43 13	3	White pylon, green top and base; 39.	
1656 <i>D 1400</i>	-L'Aveugle Bridge.	43° 30.1' N 1° 29.5' W	<b>Q.W.R.G.</b>		W. 10 R. 7 G. 7	Metal column.	G. 165°-170°, W.-175°, R.-195°.
1660 <i>D 1410</i>	<b>Pointe St. Martin.</b>	43° 29.6' N 1° 33.2' W	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	240 73	27	White truncated tower, black top; 154.	
1664 <i>D 1413</i>	Guethary Range, front.	43° 25.6' N 1° 36.5' W	<b>Q.R.</b>	36 11	6	White post, red top, white rectangular daymark; 26.	
1668 <i>D 1413.1</i>	--Rear, about 66 meters 123° from front.	43° 25.6' N 1° 36.5' W	<b>Q.R.</b>	108 33	6	White tower; 23.	
1672 <i>D 1412.4</i>	-Port des Pecheurs entrance Range, front.	43° 29.0' N 1° 34.0' W	<b>Fl.R.</b> period 2.5s fl. 0.4s, ec. 2.1s	23 7	3	White metal mast; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-WEST COAST</b>							
1676 <i>D 1412.41</i>	--Rear, 83 meters 174° from front.	43° 29.0' N 1° 34.0' W	<b>Fl.R.</b> period 2.5s fl. 0.4s, ec. 2.1s	62 19	3	White metal mast; 13.	
BAIE DE ST.-JEAN-DE-LUZ:							
1680 <i>D 1414</i>	<b>-Pointe St. Barbe</b> Range, front.	43° 24.0' N 1° 39.9' W	<b>Oc.(4)R.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	98 30	18	White square shelter, white triangular top; 23.	Intensified 095°-107°.
1684 <i>D 1416</i>	--Rear, 340 meters 101° from front.	43° 23.9' N 1° 39.6' W	<b>Oc.(4)R.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	154 47	18	White square tower, black triangular top; 49.	Intensified 095°-107°. Synchronized with front.
1688 <i>D 1418</i>	-E. Jetty Range, front.	43° 23.3' N 1° 40.1' W	<b>Q.G.</b>	59 18	17	White pyramidal tower, red stripe; 46.	Intensified 149°30'-152°.
1692 <i>D 1420</i>	--Rear, 410 meters 150°36' from front.	43° 23.1' N 1° 40.0' W	<b>Q.G.</b>	89 27	17	White pyramidal tower, green stripe; 89.	Intensified 149°42'-152°12'.
1696 <i>D 1422</i>	-Digue des Criquas, head.	43° 23.8' N 1° 40.7' W	<b>Iso.G.</b> period 4s	36 11	6	Green square tower; 20.	
1700 <i>D 1424</i>	Le Socoa Range, front.	43° 23.7' N 1° 41.2' W	<b>Q.W.R.</b>	118 36	W. 12 R. 8	White square tower, black stripe; 39.	R. 264°-282°, W.-264°. <b>Siren:</b> (300 meters E.).
1704 <i>D 1424.1</i>	<b>-Bordagain</b> , rear, 1,430 meters 138°24' from front.	43° 23.1' N 1° 40.5' W	<b>Q.W.</b>	220 67	20	White pylon, black bands, black rectangular daymark, white band; 39.	Intensified 134°30'-141°30'.
1708 <i>D 1425</i>	Hendaye, jetty, head.	43° 22.7' N 1° 47.2' W	<b>L.Fl.R.</b> period 10s fl. 3s, ec. 7s	26 8	5	White column, red top; 13.	



# Section 2

## North and West Coasts of Spain

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
1712 <i>D 1452</i>	Cabo Higuer.	43° 23.5' N 1° 47.5' W	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	213 65	23	White square tower, red cupola; 69.	Visible 072°-340°.
1716 <i>D 1454.3</i>	Puerto de Fuenterrabia, N. breakwater.	43° 23.2' N 1° 47.3' W	<b>Q.(3)W.</b> period 5s	49 15	3	E. CARDINAL BYB, tower, topmark; 16.	
1717 <i>D 1454</i>	-Elbow.	43° 23.3' N 1° 47.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Green mast; 23.	
1720 <i>D 1454.6</i>	-S. breakwater, head.	43° 23.3' N 1° 47.4' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	29 9	1	Red cylindrical column; 23.	
1724 <i>D 1453</i>	-Training wall.	43° 22.8' N 1° 47.3' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Green and white column, green platform; 16.	
PUERTO DE PASAJES:							
1728 <i>D 1456</i>	-Pasajes Ancho.	43° 20.1' N 1° 56.0' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	502 153	13	White and gray building; 43.	Visible 285°-250°. 6 F.R. mark radio tower 1.96 km. 254°.
1730 <i>D 1456.2</i>	-East Bancha.	43° 20.2' N 1° 55.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	52 16	7	Red cylindrical metal tower; 52.	AIS.
1731 <i>D 1456.4</i>	-West Bancha.	43° 20.2' N 1° 55.9' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	52 16	7	Green cylindrical metal tower; 52.	AIS.
1732 <i>D 1457</i>	-Arando Grande, on E. entrance point.	43° 20.1' N 1° 55.7' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	7	White tower, red bands; 26.	
1734 <i>D 1457.5</i>	-Atalaya Semaforo, Pilot lookout station.	43° 20.1' N 1° 55.5' W	<b>3 Fl.R.</b> (vert.) period 2s  <b>3 F.G.</b> (vert.)  <b>3 F.R.</b> (vert.)	322 98	5	Red and white structure; 30.	
	-RACON		<b>K(- • -)</b> period 72s		20		(3 cm).
1736 <i>D 1458</i>	-Senocozulua.	43° 19.9' N 1° 55.6' W	<b>Dir.Oc.(2)W.R.G.</b> period 12s lt. 7.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	171 52	10	Triangular tower, house; 23.	G. 152°50'-154°50', W- 156°50', R.-161°50'.
1740 <i>D 1459</i>	--Range, front.	43° 19.9' N 1° 55.6' W	<b>Q.W.</b>	226 69	18	White tower; 16.	
1744 <i>D 1459.1</i>	--Rear, about 40 meters 154°49' from front.	43° 19.9' N 1° 55.6' W	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s	289 88	18	White tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
1748 <i>D 1460</i>	-Dique de Senocozulua, head.	43° 19.9' N 1° 55.6' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14	7	White tower, green bands; 23.	
1752 <i>D 1462</i>	-Punta de las Cruces, in water, E. of point.	43° 19.9' N 1° 55.5' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	7	Green and white cylindrical tower; 20.	
1756 <i>D 1468</i>	-Range, front, Punta del Mirador.	43° 19.7' N 1° 55.3' W	<b>Iso.W.</b> period 4s	43 13	5	White hexagonal column; 23.	
1760 <i>D 1470</i>	--Rear, Ermita de Santa Ana.	43° 19.6' N 1° 55.2' W	<b>Q.W.</b>	112 34	5	Metal tower; 20.	Visible 090°-180°.
1764 <i>D 1466</i>	-Castilla de Santa Isabel, on point.	43° 19.8' N 1° 55.4' W	<b>Fl.(4)R.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	43 13	7	Red tower, white band; 26.	
1768 <i>D 1472</i>	-Punta Teodoro Arroca.	43° 19.9' N 1° 55.4' W	<b>Fl.(3)R.</b> period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 4.2s	70 21	7	Red and white metal cylindrical tower; 30.	
1772 <i>D 1474</i>	-Punta Calparra, W. side.	43° 19.7' N 1° 55.4' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Green and white cylindrical metal tower, white hut; 23.	
1776 <i>D 1475</i>	-Punta de la Torre de San Pedro, pier, head.	43° 19.6' N 1° 55.3' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	5	White cylindrical column; 23.	
1777 <i>D 1475.5</i>	-Muelle Avanzado, corner.	43° 19.4' N 1° 55.4' W	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Green tower, red band; 20.	
1778 <i>D 1476.8</i>	-Astilleros de Pasaia, W. corner.	43° 19.2' N 1° 54.7' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	33 10	1	Red and white tower; 20.	
1778.5 <i>D 1476.85</i>	--E. corner.	43° 19.2' N 1° 54.6' W	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	1	Red and white tower; 20.	
SAN SEBASTIAN:							
1788 <i>D 1483</i>	-Igueldo.	43° 19.4' N 2° 00.6' W	<b>Fl.(2+1)W.</b> period 15s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6s fl. 0.4s, ec. 6s	440 134	26	White cylindrical tower, dwelling; 42.	
1792 <i>D 1482</i>	-Isla de Santa Clara, inside entrance to port, W. side.	43° 19.3' N 1° 59.9' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	174 53	9	White cylindrical tower, dwelling; 33.	
1796 <i>D 1484</i>	-La Concha Range, front.	43° 18.9' N 1° 59.5' W	<b>Q.R.</b>	39 12	7	Gray post; 16.	
1800 <i>D 1484.1</i>	--Rear, about 25 meters 158° from front.	43° 18.9' N 1° 59.4' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	59 18	7	Gray post; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
1802 D 1488.2	-Puerto de Orio.	43° 17.5' N 2° 07.9' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14	3	Red cylindrical column; 26.	
1804 D 1489	<b>Guetaria.</b>	43° 18.6' N 2° 12.1' W	<b>Fl.(4)W.</b> period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	305 93	21	White cylindrical tower, dwelling; 46.	
1808 D 1493	Zumaya, on Monte Atalaya.	43° 18.1' N 2° 15.1' W	<b>Oc.(1+3)W.</b> period 12s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s	135 41	12	White octagonal tower, blue cupola, dwelling; 39.	
1812 D 1494	-Breakwater, head.	43° 18.3' N 2° 14.8' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	65 20	5	Green truncated conical masonry tower; 23.	
1816 D 1494.2	-Head of jetty, about 0.2 km. ESE. of Zumaya.	43° 18.3' N 2° 14.9' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Red truncated conical masonry tower; 10.	
PUERTO DE MOTRICO:							
1820 D 1495	-W. mole, head.	43° 18.5' N 2° 22.9' W	<b>Fl.(3)G.</b>	39 12	1	Green four-sided post; 20.	
ONDARROA:							
1832 D 1498	-N. breakwater.	43° 19.5' N 2° 24.9' W	<b>Fl.(3)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	12	Green tripod; 10.	<b>Siren:</b> Mo.(O) ev. 20s (bl.3s, si. 1s, bl.3s, si. 1s, bl.3s si. 9s).
-RACON							
			<b>G(- - •)</b>		12		(3 cm).
1836 D 1499	-E. mole, head.	43° 19.5' N 2° 25.1' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	6	Truncated conical masonry tower; 16.	
LEQUEITIO:							
1840 D 1502	<b>-Cabo de Santa Catalina.</b>	43° 22.6' N 2° 30.6' W	<b>Fl.(1+3)W.</b> period 20s fl. 0.3s, ec. 6.4s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	151 46	17	Gray truncated conical tower, octagonal base; 42.	<b>Nautophone:</b> Mo.(L) ev. 20s.
1844 D 1504	-Rompeolas de Amandarri.	43° 22.0' N 2° 29.9' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	5	Gray tower; 16.	
1848 D 1506	-Muelle del Tinglado, S. extremity.	43° 21.9' N 2° 30.1' W	<b>F.G.</b>	23 7	2	Metal post; 13.	
1852 D 1508	-Muelle Sur, N. extremity.	43° 21.9' N 2° 30.0' W	<b>F.R.</b>	20 6	2	Red post; 13.	
1856 D 1505	-Dique Aislado, extremity.	43° 21.9' N 2° 30.0' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	23 7	4	Gray truncated conical tower; 16.	
1860 D 1510	Elanchove, W. breakwater, N. head.	43° 24.2' N 2° 38.2' W	<b>F.W.R.</b>	30 9	W. 8 R. 5	Red tripod; 19.	W. 000°-315°, R.-000°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
1864 <i>D 1510.4</i>	-Dique Norte, head.	43° 24.2' N 2° 38.3' W	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	4	Green tripod; 16.	
PUERTO DE BERMEO:							
1868 <i>D 1512</i>	-Rosape, Punta Lamiaren, S. side of harbor.	43° 25.0' N 2° 42.8' W	<b>Fl.(2)W.R.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	125 38	7	White building.	R. 108°-204°, W.-232°.
1872 <i>D 1513</i>	-Dique Rompeolas, head.	43° 25.3' N 2° 42.6' W	<b>Fl.G.</b> period 4.5s fl. 1s, ec. 3.5s	59 18	4	Gray truncated masonry tower.	
1876 <i>D 1513.2</i>	--Spur normal to Dique Rompeolas, head.	43° 25.2' N 2° 43.0' W	<b>F.G.</b>	23 7	2	Green tripod; 10.	
1880 <i>D 1514</i>	-Espigon Norte, head.	43° 25.1' N 2° 43.1' W	<b>F.G.</b>	23 7	3	Green tower; 10.	
1888 <i>D 1513.4</i>	Breakwater, head.	43° 25.2' N 2° 42.8' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	3	Red tripod; 10.	
1891 <i>D 8100</i>	Gaviota Platform.	43° 30.2' N 2° 41.4' W	<b>4 Mo.(U)W.</b> period 15s fl. 1s, ec. 0.1s fl. 1s, ec. 0.1s fl. 2s, ec. 10.8s	89 27	5	Platform.	One on each corner. <b>Nautophone (4):</b> (one on each corner) Mo.(U) ev. 30s.
1892 <i>D 1520</i>	<b>Cabo Machichaco.</b>	43° 27.2' N 2° 45.2' W	<b>Fl.W.</b> period 7s fl. 0.3s, ec. 6.7s	400 122	24	Stone tower.	<b>Siren:</b> 2 bl. ev. 60s.
1896 <i>D 1521</i>	Arminza, N. end of training wall.	43° 26.0' N 2° 54.0' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	30 9	4	Gray tower; 13.	
1898 <i>D 1523</i>	<b>Gorliz.</b>	43° 26.0' N 2° 56.6' W	<b>Fl.(1+2)W.</b> period 16s fl. 1s, ec. 3s fl. 1s, ec. 1s fl. 1s, ec. 9s	541 165	22	White tower; 69.	
BILBAO:							
1900 <i>D 1524</i>	<b>-Punta Galea.</b>	43° 22.3' N 3° 02.1' W	<b>Fl.(3)W.</b> period 8s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 4.4s	276 84	19	Stone tower, dwelling, gray cupola; 26.	Visible 011°-227°.
1904 <i>D 1524.2</i>	--Breakwater, head.	43° 22.8' N 3° 04.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	69 21	7	Red cylindrical column; 46.	
1908 <i>D 1526.4</i>	-Punta Lucero, breakwater, head.	43° 22.7' N 3° 05.0' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	10	Green cylindrical column; 13.	<b>Radar reflector.</b>
	-RACON		<b>X(- • • -)</b> period 72s		20		(3 cm).
1910.2 <i>D 1526.64</i>	-Punta Sollana, breakwater, head.	43° 21.8' N 3° 04.9' W	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	75 23	1	Yellow cylindrical column; 20.	
1910.5 <i>D 1526.65</i>	-Ciervana, breakwater, elbow.	43° 21.7' N 3° 04.3' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5.7s	72 22	5	Green cylindrical tower, red stripe; 16.	Visible 014°-275°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
1910.6 <i>D 1524.4</i>	--Head.	43° 21.5' N 3° 02.7' W	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	72 22	5	Green cylindrical tower; 16.	
1910.7 <i>D 1524.45</i>	--Wharf AZ-1, head.	43° 21.4' N 3° 03.0' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	1	Green cylindrical column; 13.	
1911 <i>D 1524.6</i>	-Santurce, breakwater, head.	43° 21.1' N 3° 02.7' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5.7s	49 15	3	Green cylindrical tower, red band; 16.	
1912 <i>D 1525</i>	-E. breakwater, head.	43° 20.5' N 3° 01.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	59 18	3	White cylindrical tower; 49.	
1912.5 <i>D 1525.05</i>	--S. corner, head.	43° 20.5' N 3° 01.6' W	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	1	Red cylindrical column; 13.	
1913 <i>D 1525.1</i>	-E. breakwater, middle.	43° 20.5' N 3° 01.2' W	<b>Oc.W.R.</b> period 4s fl. 3s, ec. 1s	36 11	3	Gray column; 20.	W. 134°-149°, R-174°.
1913.2 <i>D 1525.15</i>	-Muelle de Cruceros, head.	43° 20.3' N 3° 01.6' W	<b>Fl.(2+1)R.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	30 9	1	Red and green cylindrical post; 7.	
1914 <i>D 1526.2</i>	-Marina GETXO, breakwater, head.	43° 20.2' N 3° 01.0' W	<b>Q.R.</b>	16 5	1	Red column; 13.	Oc.G. 4s and Oc.R. 4s mark marina 0.4 mile SSW.
1920 <i>D 1527</i>	-Breakwater, head.	43° 20.8' N 3° 01.9' W	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	66 20	3	Green cylindrical column; 46.	
1924 <i>D 1527.2</i>	-Espigon No 1, N. corner, head.	43° 20.6' N 3° 01.9' W	<b>Fl.(4)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	52 16	1	Green tripod, dwelling; 30.	
1928 <i>D 1527.22</i>	--S. corner, head.	43° 20.5' N 3° 02.0' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	52 16	1	Green framework tower; 30.	
1932 <i>D 1527.4</i>	-Espigon No 2, N. angle.	43° 20.4' N 3° 01.9' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	43 13	1	Red and green framework tower; 20.	
1936 <i>D 1527.42</i>	--S. extremity.	43° 20.2' N 3° 01.9' W	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	52 16	1	Green tripod, dwelling; 30.	
1938 <i>D 1528</i>	-Espigon No 3, N. corner, head.	43° 20.1' N 3° 01.7' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	39 12	1	Red and green tripod, dwelling; 30.	
1938.1 <i>D 1528.2</i>	--S. corner, head.	43° 20.0' N 3° 01.7' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	1	Green tripod, dwelling; 30.	
1939 <i>D 1530</i>	-Santurce Harbor.	43° 19.8' N 3° 01.8' W	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	1	Green post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
1940 <i>D 1529</i>	-Portugalete, Churruca Mole No 3, head.	43° 19.9' N 3° 01.6' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	46 14	1	Green cylindrical tower, red band; 26.	
1944 <i>D 1531</i>	-La Mojjonera, jetty No 4, head.	43° 19.7' N 3° 01.2' W	<b>Fl.(2)R.</b> period 6s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 3.9s	33 10	1	Red tripod, dwelling; 13.	
1948 <i>D 1532</i>	-Muelle de la Benedicta.	43° 19.1' N 3° 00.6' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	39 12	1	Green metal tripod, red band, dwelling; 26.	
1949 <i>D 1532.2</i>	-Darsena de Udondo, jetty, head.	43° 18.9' N 2° 59.5' W	<b>Q.R.</b>	23 7	1	Red post; 16.	
1951 <i>D 1532.25</i>	--Breakwater, head.	43° 18.8' N 2° 59.5' W	<b>Fl.(2+1)R.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	30 9	1	Red post, green band; 16.	
1952 <i>D 1532.6</i>	-Darsena de Axpe, submerged mole.	43° 18.6' N 2° 59.0' W	<b>Fl.(2+1)R.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	43 13	1	Red metal tripod, green band, dwelling; 26.	
1956 <i>D 1532.4</i>	--Morro del Fraile.	43° 18.8' N 2° 59.2' W	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	1	Red metal tripod, dwelling; 26.	
CASTRO-URDIALES:							
1964 <i>D 1536</i>	-Castillo de Santa Ana.	43° 23.1' N 3° 12.9' W	<b>Fl.(4)W.</b> period 24s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 11.4s	161 49	20	Truncated conical masonry tower; 52.	
1972 <i>D 1537</i>	-N. breakwater, head.	43° 22.9' N 3° 12.5' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	6	Octagonal masonry tower; 23.	
1976 <i>D 1537.2</i>	-S. breakwater.	43° 22.7' N 3° 12.7' W	<b>Q.(2)R.</b> period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	33 10	5	Gray framework tower.	F.G. light marks N. mole, F.R. light marks S. mole.
RIA DE SANTONA:							
1984 <i>D 1542</i>	-Punta del Pescador, Mount Santona.	43° 27.8' N 3° 26.1' W	<b>Fl.(3+1)W.</b> period 18s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s	128 39	17	White truncated conical tower, dwelling; 43.	
1992 <i>D 1546</i>	-SW. corner of passenger mole Range, front.	43° 26.3' N 3° 27.6' W	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	23 7	8	Framework tower, black triangular daymark point down.	Visible 279°30'-287°30'.
1996 <i>D 1546.1</i>	--Rear, on bridge, 1,399 meters 283°30' from front.	43° 26.5' N 3° 28.6' W	<b>Oc.(2)W.</b> period 5s lt. 2.3s, ec. 1s lt. 0.7s, ec. 1s	46 14	11	Framework tower, circular daymark.	Visible 279°30'-287°30'.
2000 <i>D 1547</i>	-Darsena del Puerto.	43° 26.5' N 3° 27.8' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Red and white truncated conical tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2004 D 1548	-Nueva Darsena del Puerto, Espigon Norte, head.	43° 26.6' N 3° 27.8' W	<b>Fl.(2)R.</b> period 6s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4s	26 8	4	White truncated conical tower, red bands; 16.	
2008 D 1548.2	--Espigon Sur, head.	43° 26.4' N 3° 27.8' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	White truncated conical tower, green band.	
2012 D 1549	-Canal de Colindres, Malecon N.	43° 24.6' N 3° 27.5' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red truncated conical tower.	
2016 D 1552	<b>Cabo de Ajo.</b>	43° 30.7' N 3° 35.7' W	<b>Oc.(3)W.</b> period 16s lt. 6s, ec. 2s lt. 2s, ec. 2s lt. 2s, ec. 2s	233 71	17	White cylindrical tower; 26.	
SANTANDER:							
2020 D 1554	-Isla Mouro.	43° 28.4' N 3° 45.4' W	<b>Fl.(3)W.</b> period 16s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 8s	128 39	11	Tower, dwelling; 59.	
2026 D 1556.5	-Puntal Range, front.	43° 27.5' N 3° 46.4' W	<b>Q.W.</b>	30 9	6	Metal tower, red and white triangular point up.	Intensified 231°48'-239°48'.
	-RACON		<b>K(- • -)</b>		10		(3 & 10cm). Azimuth coverage 225°-240°.
2026.1 D 1556.51	--Rear, 100 meters 235°48' from front.	43° 27.5' N 3° 46.5' W	<b>Iso.R.</b> period 4s	39 12	6	Metal tower, red and white triangular daymark point down.	Intensified 231°48'-239°48'.
2028 D 1557	-Pena Horadada, channel, N. side.	43° 27.9' N 3° 46.1' W	<b>Fl.(2)W.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	ISOLATED DANGER BRB, beacon, topmark; 16.	
2032 D 1558.2	-Darsena de Molnedo, E. mole, head.	43° 27.7' N 3° 47.5' W	<b>Q.G.</b>	39 12	5	Green and white cylindrical column; 20.	Visible over channel and about 2 km. E. and W. of basin entrance.
2036 D 1558	--W. mole, head.	43° 27.7' N 3° 47.5' W	<b>Q.R.</b>	39 12	5	Red and white cylindrical column; 20.	
2041 D 1557.3	-Muelle de Maliano, 259°30'.	43° 27.3' N 3° 48.6' W	<b>Dir.W.R.G.</b>	66 20	6	Metal column; 49.	Fl.G.-257°48'-258°18', F.G.-258°48', Oc.G.-259°24', F.W.-259°36', Oc.R.-260°12', F.R.-260°42', Fl.R.-261°12'. Range 4M by day.
2048 D 1559.4	-Muelle de Maliano, SE. corner.	43° 27.0' N 3° 48.9' W	<b>Q.G.</b>	39 12	5	Green and white cylindrical column; 20.	
2050 D 1559.42	-W. corner.	43° 27.0' N 3° 49.3' W	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	26 8	5	Green and white cylindrical column; 7.	
2052 D 1559.45	-Darsena Maliano, S. breakwater, head.	43° 26.9' N 3° 48.9' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4s fl. 0.5s, ec. 4s	39 12	5	Green cylindrical column, red band; 20.	
2053 D 1559.83	-Darsena Norte de Raos, Muelle Raos 3, head.	43° 26.7' N 3° 48.9' W	<b>Q.G.</b>	39 12	5	Green and white cylindrical column, green triangular daymark point up; 20.	
2055 D 1559.84	-Cement Factory, dolphin.	43° 26.5' N 3° 48.9' W	<b>Fl.Y.</b> period 2.5s fl. 0.5s, ec. 2s	30 9	1	SPECIAL Y, dolphin, 'X' topmark; 10.	E. and W. dolphins marked by Fl.Y. 2.5s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2057 <i>D 1559.87</i>	-Terquiza Junction, dolphin.	43° 26.5' N 3° 48.8' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4s fl. 0.5s, ec. 4s	39 12	5	Green cylindrical post, red band, dolphin; 20.	
2060 <i>D 1561</i>	<b>-Cabo Mayor.</b>	43° 29.4' N 3° 47.4' W	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	299 91	21	White framework cylindrical tower, base; 98.	<b>DGPS Station.</b>
2064 <i>D 1562</i>	<b>Suances (San Martin de la Arena).</b>	43° 26.5' N 4° 02.6' W	<b>Fl.(2+1)W.</b> period 24s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 14.6s	115 35	22	Masonry tower, dwelling; 30.	Visible 113°-091°.
2066 <i>D 1562.6</i>	-Breakwater, head.	43° 26.3' N 4° 02.2' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Red post; 30.	
2068 <i>D 1563</i>	Ria de Suances Range, front.	43° 26.2' N 4° 02.1' W	<b>Q.W.</b> period 1s	33 10	5	White truncated conical tower; 20.	
2072 <i>D 1563.1</i>	-Rear, on Punta Marzan about 210 meters 146° from front.	43° 26.1' N 4° 02.0' W	<b>Iso.W.</b> period 4s	46 14	5	White truncated conical tower; 33.	
COMILLAS:							
2076 <i>D 1566</i>	-Outer Range, front.	43° 23.3' N 4° 17.2' W	<b>Iso.W.</b> period 2s	118 36	4	White truncated conical tower, black band; 13.	
2080 <i>D 1566.1</i>	--Rear, 30 meters 194° from front.	43° 23.3' N 4° 17.2' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	131 40	4	White truncated conical tower, black band; 13.	
2084 <i>D 1568</i>	-Inner Range, front.	43° 23.4' N 4° 17.4' W	<b>Iso.W.</b> period 2s	52 16	3	White truncated conical tower, black band; 13.	
2088 <i>D 1568.1</i>	--Rear, 245° from front.	43° 23.4' N 4° 17.4' W	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	66 20		White truncated conical tower, black band; 13.	Range lights obscured S. of 231°.
2092 <i>D 1570</i>	-Breakwater, head.	43° 23.5' N 4° 17.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5		Green post; 20.	
RIA DE SAN VICENTE DE LA BARQUERA:							
2096 <i>D 1574</i>	-Punta de la Silla.	43° 23.6' N 4° 23.5' W	<b>Oc.W.</b> period 3.5s lt. 2.5s, ec. 1s	141 43	13	Four-sided masonry tower, dwelling; 30.	Visible 115°-250°.
2100 <i>D 1576</i>	-Malecon del Oeste, head.	43° 23.7' N 4° 23.1' W	<b>Fl.W.G.</b> period 2s fl. 0.5s, ec. 1.5s	26 8	W. G. 7 6	White truncated conical tower, green band; 10.	G. 175°-225°, W.-045°.
2104 <i>D 1577</i>	-Escollera del Este, head.	43° 23.6' N 4° 23.1' W	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	5	White truncated conical tower, red band; 20.	
2108 <i>D 1578</i>	-Punta de la Espina.	43° 23.4' N 4° 23.5' W	<b>Fl.(3)G.</b>	26 8	2	White truncated conical tower, green band; 16.	
2112 <i>D 1580</i>	<b>Punta San Emeterio.</b>	43° 23.9' N 4° 32.1' W	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	223 68	20	Gray cylindrical tower, white building; 33.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2116 <i>D 1582</i>	Llanes.	43° 25.2' N 4° 44.9' W	<b>Oc.(4)W.</b> period 30s lt. 10s, ec. 2s lt. 4s, ec. 2s lt. 4s, ec. 2s lt. 4s, ec. 2s	59 18	15	White octagonal tower, gray cupola, dwelling; 26.	
RIBADESELLA:							
2120 <i>D 1586</i>	-Somos.	43° 28.3' N 5° 05.0' W	<b>Fl.(2+1)W.</b> period 12s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4.8s fl. 0.4s, ec. 4.8s	377 115	25	Tower, dwelling; 26.	
2124 <i>D 1587</i>	-Breakwater, head.	43° 28.0' N 5° 04.0' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	White cylindrical tower; 26.	
2128 <i>D 1589</i>	Puerto de Lastres, Malecon.	43° 30.9' N 5° 15.9' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	5	Concrete tower, green post; 16.	
2130 <i>D 1591</i>	Cabo Lastres.	43° 32.0' N 5° 18.0' W	<b>Fl.(5)W.</b> period 25s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 3.2s fl. 0.3s, ec. 10.3s	387 118	23	White cylindrical tower, green cupola; 59.	
2132 <i>D 1592</i>	Punta de Tazonos.	43° 32.9' N 5° 23.9' W	<b>Fl.W.</b> period 7.5s fl. 0.3s, ec. 7.2s	417 127	24	Octagonal masonry tower, white building; 36.	Fl.G. marks end of breakwater. <b>Nautophone:</b> (about 150 meters N.) Mo.(V) ev. 30s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 4.5s, si. 16.5s).
CONCHA DE GIJON:							
2136 <i>D 1608</i>	-Piedra da Sacramento.	43° 32.8' N 5° 40.3' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	STARBOARD (A) G, beacon, topmark; 20.	<b>Radar reflector.</b>
2140 <i>D 1609</i>	-Dique de Liquerica (Santa Catalina).	43° 32.8' N 5° 40.2' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	Red post; 16.	
2148 <i>D 1610</i>	-Malecon de Fomento, head.	43° 32.7' N 5° 40.1' W	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	1	Green post; 13.	Q.W. 4m 1M shown 550 meters W.
2149 <i>D 1598.45</i>	Dique de la Osa, S. breakwater.	43° 33.0' N 5° 41.2' W	<b>Fl.(4)G.</b> period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	36 11	1	Green post; 7.	
2150 <i>D 1598.42</i>	-NE. corner.	43° 33.4' N 5° 40.8' W	<b>Q.(3)W.</b> period 10s	43 13	3	E. CARDINAL BYB, post, topmark.	
2151 <i>D 1598.1</i>	-NW.	43° 33.6' N 5° 41.1' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 13	5	Red cylindrical column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
-Zona de El Musel:							
2152 <i>D 1598</i>	--Contradique de Levante, head.	43° 33.6' N 5° 41.2' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	52 16	3	Red four-sided column; 16.	
2156 <i>D 1598.4</i>	--Nuevos Muelles de la Osa, NW. corner.	43° 33.4' N 5° 41.3' W	<b>Fl.(2+1)R.</b> period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	26 8	3	Red post, green band; 6.	
2160 <i>D 1598.3</i>	---S. corner.	43° 33.2' N 5° 41.5' W	<b>Fl.(4)R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	26 8	1	Red post; 13.	
2166 <i>D 1606.5</i>	--Pantalan, head.	43° 33.6' N 5° 41.8' W	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	1	SPECIAL Y, post, "X" topmark; 13.	
2168 <i>D 1602</i>	--Espigon II, head.	43° 33.7' N 5° 41.8' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	20 6	1	Red post, green band; 13.	
2172 <i>D 1603</i>	--Espigon, NW. corner.	43° 33.9' N 5° 41.9' W	<b>Fl.(4)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	1	Red post; 16.	
2173 <i>D 1603.2</i>	---SE. corner.	43° 33.9' N 5° 41.8' W	<b>Fl.(2+1)G.</b> period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	26 8	1	Green post, red band; 20.	Visible 345°-060°.
2184 <i>D 1598.7</i>	--Muelle del Rendiello, N. head.	43° 33.5' N 5° 41.8' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	1	Red post; 13.	
2186 <i>D 1598.8</i>	---S. head.	43° 33.3' N 5° 41.6' W	<b>Fl.(4)G.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	26 8	1	Green post; 13.	
2187 <i>D 1598.5</i>	-Darsena de El Musel, elbow.	43° 33.3' N 5° 41.8' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	1	Red post; 13.	Fl.G. 3s 8m 1M marks corner 600 meters NE.
2192 <i>D 1599</i>	--Dique Norte, head.	43° 33.7' N 5° 41.5' W	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	5	Green four-sided column; 16.	
2196 <i>D 1597</i>	--Dique Exterior (Dique Oeste), head.	43° 34.3' N 5° 40.6' W	<b>Q.(2+1)G.</b> period 10s	79 24	7	Green and red cylindrical tower, green base, truncated conical top.	
2200 <i>D 1597.4</i>	--Contradique del Oeste, head.	43° 33.9' N 5° 40.8' W	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	52 16	5	Green cylindrical column; 13.	<b>Radar reflector.</b>
2204 <i>D 1596</i>	<b>Cabo de Torres.</b>	43° 34.3' N 5° 42.0' W	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	269 82	18	White octagonal tower, dwelling; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
CANDAS:							
2208 <i>D 1614</i>	<b>-Cabo San Antonio.</b>	43° 35.7' N 5° 45.6' W	<b>Oc.(2)W.</b> period 10s fl. 4s, ec. 2s fl. 2s, ec. 2s	131 40	15	Red tower, white building; 39.	
2212 <i>D 1616</i>	<b>-Punta del Cuerno.</b>	43° 35.7' N 5° 45.6' W	<b>Dir.W.R.G.</b> period 4s fl. 1s, ec. 3s	72 22	3	Red and white column; 13.	Fl.R. 284°-286°, Fl.W-288°, Fl.G.-290°.
2220 <i>D 1618</i>	<b>-Nuevo Muelle, near extremity.</b>	43° 35.4' N 5° 45.5' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Cylindrical tower, green top; 13.	
LUANCO:							
2224 <i>D 1624</i>	<b>-Punta del Gallo Breakwater, head.</b>	43° 37.2' N 5° 47.0' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	3	Red cylindrical tower; 13.	
2228 <i>D 1622</i>	<b>-Entrance Range, front.</b>	43° 36.9' N 5° 47.4' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	5	Green tower; 7.	
2232 <i>D 1622.1</i>	<b>--Rear, 200 meters 255° from front.</b>	43° 36.9' N 5° 47.5' W	<b>Oc.G.</b> period 4s fl. 3s, ec. 1s	26 8	5	Green cylindrical tower; 13.	
2236 <i>D 1628</i>	<b>Cabo Penas.</b>	43° 39.3' N 5° 50.9' W	<b>Fl.(3)W.</b> period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	385 117	35	Gray octagonal tower, building; 59.	
2238 <i>D 1630.4</i>	<b>-Punta de la Forcada.</b>	43° 35.8' N 5° 56.8' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	82 25	7	Red column, white truncated conical base; 13.	
RIA DE AVILES:							
2240 <i>D 1630</i>	<b>-Aviles, 274 meters SE. of Punta Forcada.</b>	43° 35.7' N 5° 56.7' W	<b>Oc.W.R.</b> period 5s fl. 3.5s, ec. 1.5s	131 40	W. 20 R. 17	White four-sided tower; 46.	R. 091°30'-113°, W.-091°30'.
2244 <i>D 1631</i>	<b>-Entrance, N. side.</b>	43° 35.7' N 5° 56.7' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red truncated conical tower; 10.	R. lights mark N. bank, G. lights mark S. bank of Ria Aviles.
2246 <i>D 1631.28</i>	<b>-Breakwater, head.</b>	43° 35.6' N 5° 56.8' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	49 15	5	Metal framework post; 26.	Visible 106°-280°.
2246.5 <i>D 1632.05</i>	<b>-Curva de Pachico, dock.</b>	43° 35.5' N 5° 55.5' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	White truncated conical tower, red column.	
2247 <i>D 1632.11</i>	<b>-Directional light.</b>	43° 35.4' N 5° 54.6' W	<b>Dir.W.R.G.</b> period 6s fl. 2s, ec. 4s	243 74	W. 21 R. 19 G. 19	White cylindrical tower, tapered top; 46.	L.Fl.G.098°06'-098°54', L.Fl.W.-099°15', L.Fl.R.- 100°06'.
SAN ESTEBAN:							
2248 <i>D 1634.2</i>	<b>-W. breakwater.</b>	43° 34.2' N 6° 04.6' W	<b>Fl.(2)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	66 20	15	Cylindrical masonry tower, dwelling; 33.	<b>Siren:</b> Mo.(N) ev. 30s (bl. 4s, si. 1s, bl. 1s, si. 24s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2264 <i>D 1636</i>	-Training wall, W. side of entrance, head.	43° 34.0' N 6° 04.6' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green rectangular tower; 10.	Six F.G. lights mark the training wall on W. side of channel. Two F.Or. in line 202°30' mark entrance.
2268 <i>D 1638</i>	-Basin entrance on fortification.	43° 33.3' N 6° 04.8' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green rectangular tower; 10.	
2272 <i>D 1638.4</i>	--Dividing wall, head.	43° 33.3' N 6° 04.4' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red rectangular tower; 10.	
2276 <i>D 1640</i>	<b>Punta Rebollera.</b>	43° 33.9' N 6° 08.7' W	<b>Oc.(4)W.</b> period 16s lt. 5s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	144 44	16	White octagonal tower, dwelling; 33.	E. and W. breakwaters marked by F.R. and F.G. lights.
2280 <i>D 1641</i>	<b>Cabo Vidio.</b>	43° 35.6' N 6° 14.6' W	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	331 101	25	Cylindrical masonry tower, dwelling; 30.	
2284 <i>D 1642</i>	<b>Cabo Busto.</b>	43° 34.1' N 6° 28.2' W	<b>Fl.(4)W.</b> period 20s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 10.1s	282 86	25	White four-sided tower, dwelling; 30.	Aeromarine.
LUARCA:							
2288 <i>D 1646</i>	-Punta La Blanca.	43° 33.0' N 6° 31.9' W	<b>Oc.(3)W.</b> period 15s lt. 7s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	213 65	14	White four-sided tower; 30.	<b>Siren:</b> Mo.(L) ev. 30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 16.5s).
2292 <i>D 1647</i>	-Dique de Canouco, head.	43° 33.0' N 6° 32.1' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	69 21	5	Red cylindrical tower; 43.	
2296 <i>D 1649</i>	-Rio Negro, entrance Range, front.	43° 32.8' N 6° 32.1' W	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	69 21	3	White four-sided column, red bands; 52.	
2300 <i>D 1649.1</i>	--Rear, 46 meters 170° from front.	43° 32.8' N 6° 32.0' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	89 27	2	White four-sided column, red bands; 13.	
2304 <i>D 1650</i>	-Dique W.	43° 33.0' N 6° 32.3' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 13.	
PUERTO DE VEGA:							
2308 <i>D 1652</i>	-On Punta Lama, E. of entrance.	43° 34.0' N 6° 38.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red column; 10.	
2312 <i>D 1653</i>	-W. mole, head.	43° 34.0' N 6° 38.8' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green column; 10.	
2316 <i>D 1657</i>	<b>Ria de Navia.</b>	43° 33.8' N 6° 44.0' W	<b>Oc.(2)W.</b> period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	236 72	25	White cylindrical tower, black bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2320 <i>D 1657.5</i>	Puerto de Viavelez, N. jetty, head.	43° 34.0' N 6° 50.4' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red truncated conical tower; 16.	
2324 <i>D 1657.6</i>	-S. jetty, head.	43° 33.9' N 6° 50.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green truncated conical tower; 16.	
2328 <i>D 1658</i>	<b>Isla Tapia.</b>	43° 34.4' N 6° 56.8' W	<b>Fl.(2+1)W.</b> period 19s fl. 1s, ec. 2s fl. 1s, ec. 7s fl. 1s, ec. 7s	79 24	18	White tower, building; 33.	
2332 <i>D 1659</i>	Puerto de Tapia de Casariego, N. mole, head.	43° 34.4' N 6° 56.9' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red truncated conical tower; 16.	
2336 <i>D 1659.2</i>	-S. mole, head.	43° 34.4' N 6° 56.8' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green truncated conical tower; 20.	
RIA DE RIBADEO:							
2340 <i>D 1660</i>	<b>-Isla Poncha.</b>	43° 33.4' N 7° 02.5' W	<b>Fl.(3+1)W.</b> period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s fl. 0.5s, ec. 7s	92 28	21	White cylindrical tower, black bands; 43.	
2341 <i>D 1661</i>	-Punta de la Cruz.	43° 33.4' N 7° 01.8' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	59 18	7	Red cylindrical tower, base.	
2348 <i>D 1662</i>	-Punta Aerojo, 1st Entrance Range, front.	43° 32.8' N 7° 01.5' W	<b>Iso.R.</b>	66 20	5	White cylindrical tower, white four-sided base; 20.	
2352 <i>D 1662.1</i>	--Rear, 238 meters 140° from front.	43° 32.8' N 7° 01.3' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	79 24	5	White tower, red diamond daymark; 20.	
2356 <i>D 1664</i>	-Muelle del Garcia, 2nd Range, front.	43° 32.5' N 7° 02.2' W	<b>V.Q.R.</b>	33 10	3	White truncated conical tower, two black triangular daymarks bases together; 23.	
2360 <i>D 1664.1</i>	--Rear, about 178 meters 205° from front.	43° 32.5' N 7° 02.2' W	<b>Oc.R.</b> period 2s lt. 1.2s, ec. 0.8s	65 20	3	Four-sided beacon, red and white structure, white diamond daymark; 7.	
2368 <i>D 1673</i>	Piedra Burela.	43° 39.8' N 7° 20.7' W	<b>Q.(3)W.</b> period 10s	43 13	10	E. CARDINAL BYB, tower, topmark.	<b>AIS</b> (MMSI No 992240000).
PUERTO DE SAN CIPRIAN:							
2376 <i>D 1676</i>	<b>-Punta Atalaya.</b>	43° 42.0' N 7° 26.2' W	<b>Fl.(5)W.</b> period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	135 41	20	White cylindrical tower, black stripe; 46.	
2380 <i>D 1678.2</i>	-New port, outer Range, front.	43° 42.1' N 7° 27.8' W	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	89 27	7	White cylindrical tower, red bands; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2384 <i>D 1678.21</i>	--Rear, about 475 meters 203°55' from front.	43° 42.0' N 7° 27.8' W	<b>Oc.W.</b> period 6s lt. 4s, ec. 2s	121 37	7	White cylindrical tower, red bands; 72.	
2388 <i>D 1678.3</i>	--Inner Range, front.	43° 42.8' N 7° 28.8' W	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	138 42	7	White cylindrical tower, red bands; 75.	
2392 <i>D 1678.31</i>	--Rear, about 275 meters 273°14' from front.	43° 42.8' N 7° 28.9' W	<b>Oc.W.</b> period 6s lt. 4s, ec. 2s	144 44	3	White cylindrical tower, red bands; 39.	
2396 <i>D 1678.4</i>	--Breakwater, S. head.	43° 42.7' N 7° 27.6' W	<b>Fl.(3)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	85 26	3	Metal framework tower, column; 20.	
2400 <i>D 1678.6</i>	--N. head.	43° 43.0' N 7° 27.6' W	<b>Fl.(2)W.G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	59 18	4	Framework tower, gray octagonal base; 33.	W. 110°-180°, G.-110°.
2404 <i>D 1678</i>	-Fiqueras.	43° 41.8' N 7° 26.5' W	<b>Q.R.W.</b>	29 9	5	White truncated pyramidal tower, red diamond daymark; 26.	Obscured by Farallones. R. 178°-194°, W.-198°
2410 <i>D 1678.8</i>	<b>Punta Roncadoira.</b>	43° 44.1' N 7° 31.5' W	<b>Fl.W.</b> period 7.5s fl. 0.8s, ec. 6.7s	308 94	21	White cylindrical tower; 46.	
RIA DE VIVERO:							
2412 <i>D 1679</i>	-Punta Faro.	43° 42.7' N 7° 35.0' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	66 20	7	Red four-sided column; 20.	
2416 <i>D 1680</i>	-Punta Socastro.	43° 43.1' N 7° 36.4' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	66 20	7	Green cylindrical tower, truncated conical base; 20.	
-Rio Landrove:							
2420 <i>D 1681</i>	--Cillero.	43° 40.9' N 7° 36.0' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red cylindrical column; 20.	
RIA DEL BARQUERO:							
2432 <i>D 1684</i>	-Isla Coelleira.	43° 45.5' N 7° 37.8' W	<b>Fl.(4)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	292 89	7	Gray conical tower, white house; 23.	
2436 <i>D 1685.2</i>	-Punta de Barra.	43° 44.5' N 7° 41.3' W	<b>Fl.W.R.G.</b> period 3s fl. 0.3s, ec. 2.7s	56 17	5	White truncated conical tower; 30.	G. 198°-213°, W.-240°, R.- 255°, G.-070°.
2440 <i>D 1685</i>	-Punta del Castro.	43° 44.5' N 7° 40.5' W	<b>Fl.(2)W.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	52 16	5	White truncated conical tower; 30.	Visible 000°- 180°.
2441 <i>D 1685.11</i>	-Breakwater, N. head.	43° 44.3' N 7° 40.7' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Red cylindrical column, white building; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2442 <i>D 1685.12</i>	--S. head.	43° 44.2' N 7° 40.6' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Green cylindrical column, white building; 20.	
2444 <i>D 1686</i>	<b>Punta de la Estaca de Bares.</b>	43° 47.2' N 7° 41.1' W	<b>Fl.(2)W.</b> period 7.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 5.6s	331 101	25	Octagonal tower, white dwelling, red roof; 33.	Obscured when bearing greater than 291°. <b>AIS</b> (MMSI No 992242114). <b>DGPS Station.</b>
2446 <i>D 1686.1</i>	Espasante, outer breakwater.	43° 43.2' N 7° 48.9' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	42 13	3	Red cylindrical tower; 33.	
2447 <i>D 1686.2</i>	-Inner breakwater.	43° 43.2' N 7° 48.7' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green tower; 16.	
2450 <i>D 1686.3</i>	<b>Cape Ortegal.</b>	43° 46.2' N 7° 52.2' W	<b>Fl.(2+1)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 7s	407 124	18	White cylindrical tower, red band; 33.	<b>AIS</b> (MMSI No 992242133).
2452 <i>D 1687</i>	<b>Punta Candelaria.</b>	43° 42.6' N 8° 02.8' W	<b>Fl.(3+1)W.</b> period 24s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s fl. 0.6s, ec. 8.4s	292 89	21	White octagonal tower, dwelling; 30.	
2454 <i>D 1687.6</i>	Punta Sarridal.	43° 39.6' N 8° 04.5' W	<b>Oc.W.R.</b> period 6s lt. 4s, ec. 2s	135 41	11	White cylindrical tower, truncated conical base; 7.	W. 145°-172°, R.-145°.
2456 <i>D 1688</i>	Cedeira, on Punta Promontorio.	43° 39.1' N 8° 04.2' W	<b>Oc.(4)W.</b> period 10s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	85 26	11	White hexagonal tower, white building; 23.	
2458 <i>D 1690</i>	<b>Punta de Frouxeira.</b>	43° 37.1' N 8° 11.3' W	<b>Fl.(5)W.</b> period 15s	246 75	20	Pyramidal concrete tower, green cupola; 98.	
2460 <i>D 1692</i>	<b>Cabo Prior.</b>	43° 34.1' N 8° 18.9' W	<b>Fl.(1+2)W.</b> period 15s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 5.7s	351 107	22	Hexagonal masonry tower, square dwelling; 23.	Visible 055°30'-310°.
RIA DE EL FERROL:							
2464 <i>D 1694</i>	<b>-Cabo Priorino Chico.</b>	43° 27.5' N 8° 20.4' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	118 36	23	White octagonal tower, dwelling; 16.	Visible 225°-129°30'. <b>AIS</b> (MMSI No 992242135).
2468 <i>D 1695</i>	-San Cristobal.	43° 28.1' N 8° 18.4' W	<b>Dir.F.W.R.G.</b>	115 35	5	White quadrangular tower; 20.	G. 038°12'-040°, Al.W.G.-041°30', W-042°30', Al.W.R.-044°, R-045°42'. <b>AIS</b> (MMSI No 992241085).
2476 <i>D 1696</i>	-San Martin Range, front.	43° 27.6' N 8° 17.1' W	<b>Q.W.</b>	39 12	3	White four-sided tower; 26.	F.R. on antennas 0.5 and 1.1 miles S. <b>AIS</b> (MMSI No 992241086).
2480 <i>D 1696.1</i>	--Rear, 701 meters 085°10' from front.	43° 27.6' N 8° 16.6' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s		3	Concrete tower, white tile facing; 42.	Range only usable between white sector of Bateria de S. Cristobal and N./S. of Punta Louridal. <b>AIS</b> (MMSI No 992241087).
2484 <i>D 1697</i>	-Near Castillo de La Palma.	43° 27.8' N 8° 16.4' W	<b>Oc.(1+2)W.</b> period 7s lt. 1.8s, ec. 1s lt. 1.8s, ec. 1s lt. 0.4s, ec. 1s	36 11	5	Cylindrical tower, red house; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-NORTH COAST</b>							
2511 <i>D 1698.5</i>	--SW. corner.	43° 28.7' N 8° 15.3' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	30 9	3	Red column, green band; 13.	
2512 <i>D 1698.84</i>	-Darsena de Curuxeiras, Muelle de Concepcion Arenal, head.	43° 28.5' N 8° 14.7' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red and white post; 16.	
2513 <i>D 1698.7</i>	-Muelle Fernandez Ladreda.	43° 28.6' N 8° 14.9' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Green four-sided column.	
2516 <i>D 1698.9</i>	-Arsenal, Asta del parque.	43° 28.4' N 8° 14.4' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 1.5s	36 11	3	Red and green post, white building; 7.	
2520 <i>D 1698.92</i>	--On the Punta del Martillo.	43° 28.5' N 8° 14.3' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	1	Red post; 16.	
2524 <i>D 1698.94</i>	-Darsena No 1, pier, end.	43° 28.6' N 8° 14.2' W	<b>Oc.G.</b> period 2.5s lt. 2s, ec. 0.5s	30 9	1	Green four-sided post; 13.	
2528 <i>D 1698.96</i>	--No 2, W. mole, head.	43° 28.3' N 8° 14.0' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	30 9	3	Green truncated conical tower, red band; 16.	
2533 <i>D 1699.5</i>	-Astilleros Astano, Muelle No 7.	43° 28.6' N 8° 11.3' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Concrete post, green lantern; 10.	
2533.5 <i>D 1699.6</i>	--Muelle No 10.	43° 28.5' N 8° 11.6' W	<b>Fl.(2+1)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	30 9	3	Metal framework tower; 10.	
2534 <i>D 1699.7</i>	--Muelle No 11.	43° 28.3' N 8° 11.6' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Metal lattice tower; 10.	
2535 <i>D 1702.9</i>	Ria de Betanzos, Perbes, breakwater, head.	43° 22.7' N 8° 13.0' W	<b>Fl.(2)WR.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red post.	W. 350°30'-355°30', R.-350°30'.
2537 <i>D 1703</i>	Ria de Ares, breakwater.	43° 25.4' N 8° 14.3' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	PORT (A) R, tower, topmark; 20.	
2537.5 <i>D 1703.5</i>	-Playa de Cabanas, breakwater, head.	43° 24.8' N 8° 10.5' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red octagonal tower, white band; 23.	
2538 <i>D 1702.6</i>	Contradique, head.	43° 21.6' N 8° 14.7' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Red cylindrical tower; 16.	
2539 <i>D 1699.8</i>	Puerto de Lorbe.	43° 23.4' N 8° 17.8' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Green round tower; 20.	



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<b>SPAIN-NORTH COAST</b>							
2540 <i>D 1700</i>	Puerto de Sada malecon, N. head.	43° 21.8' N 8° 14.5' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	5	Green cylindrical tower; 20.	
2541 <i>D 1703</i>	Puerto de Ares.	43° 25.4' N 8° 14.3' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red and white round tower; 20.	
2544 <i>D 1702</i>	-Malecon, S. head.	43° 21.6' N 8° 14.9' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	1	Red post; 10.	
LA CORUNA:							
2548 <i>D 1704</i>	<b>-Torre de Hercules.</b>	43° 23.2' N 8° 24.4' W	<b>Fl.(4)W.</b> period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	348 106	23	Four-sided tower, octagonal top; 161.	<b>AIS</b> (MMSI No 992242134).
2552 <i>D 1706</i>	-Punta Mera Range, front.	43° 23.0' N 8° 21.3' W	<b>Oc.W.R.</b> period 4s lt. 3s, ec. 1s	184 56	8	White octagonal tower; 36.	R. 100°30'-105°30', W.-114°30', R.-153°. <b>AIS</b> (MMSI No 992242136).
	-RACON		<b>M(- -)</b>		18		Azimuth coverage 020°-196°. (3 & 10).
2556 <i>D 1708</i>	--Rear, 300 meters 108°30' from front.	43° 23.0' N 8° 21.1' W	<b>Fl.W.</b> period 8s fl. 2s, ec. 6s	266 81	8	White octagonal tower; 46.	Visible 357°30'-177°30'. <b>AIS</b> (MMSI No 992242137).
2560 <i>D 1710</i>	-Punta Fiaiteira Range, front.	43° 20.6' N 8° 22.2' W	<b>Iso.W.R.G.</b> period 2s	95 29	W. 10 R. 7 G. 7	White tower, red bands; 33.	G. 146°24'-180°, W.-184°, R.-217°36'. <b>AIS</b> (MMSI No 992242138).
	-RACON		<b>X(- • • -)</b>		18		(3 & 10cm).
2564 <i>D 1710.1</i>	--Rear, about 0.4 km. 182° from front.	43° 20.4' N 8° 22.3' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	177 54	5	Red and white four-sided tower, red and white post; 49.	<b>AIS</b> (MMSI No 992242139).
2568 <i>D 1714</i>	-Dique de Abrigo, head.	43° 21.9' N 8° 22.5' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	59 18	7	Truncated conical concrete tower; 16.	<b>Radar reflector.</b>
2572 <i>D 1716</i>	-Castillo de San Anton.	43° 21.9' N 8° 23.2' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	56 17	5	Concrete hexagonal tower; 20.	Visible 334°-096°42'.
2573 <i>D 1716.4</i>	-Muelle de San Diego, NE. corner.	43° 21.6' N 8° 23.2' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red post.	
2574 <i>D 1716.6</i>	--SE. corner.	43° 21.6' N 8° 23.2' W	<b>Oc.(2)G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	30 9	5	Green post; 20.	
2575 <i>D 1716.2</i>	--NW. corner.	43° 21.8' N 8° 23.7' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Red post; 20.	
2576 <i>D 1717</i>	-Muelle de Este, head.	43° 21.8' N 8° 23.8' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	1	Red cylindrical tower; 20.	

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<b>SPAIN-NORTH COAST</b>							
2580 <i>D 1722</i>	-Espigon de Trasatlanticos, N. corner.	43° 21.9' N 8° 23.9' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30	9	1 Red cylindrical tower; 20.	
2584 <i>D 1722.2</i>	--S. corner.	43° 21.8' N 8° 23.9' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30	9	2 Green cylindrical tower; 20.	
2588 <i>D 1723</i>	-Oil pier, head.	43° 21.4' N 8° 22.7' W	<b>Fl.(2+1)R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 4s fl. 1s, ec. 6s	33	10	3 Red cylindrical tower, green band; 16.	
2592 <i>D 1718</i>	-Parrote Spur, entrance to marina basin, E. side.	43° 22.1' N 8° 23.8' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36	11	1 Green post; 23.	
2596 <i>D 1720</i>	-Marina basin entrance, W. side, W. mole.	43° 22.1' N 8° 23.8' W	<b>Q.R.</b>	36	11	2 Red post; 23.	
2599 <i>D 1723.91</i>	Puerto Langosteira, breakwater, head.	43° 20.8' N 8° 32.0' W	<b>Fl.(4)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s			7 Red structure.	<b>Radar reflector.</b>
2599.1 <i>D 1723.9</i>	--Elbow.	43° 21.4' N 8° 30.9' W	<b>V.Q.W.</b>	102	31	7 N. CARDINAL BY, beacon, topmark; 20.	
2599.2 <i>D 1723.93</i>	--Inner arm.	43° 20.7' N 8° 31.6' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s			3 Red structure.	
2599.3 <i>D 1723.95</i>	-Mole, head.	43° 20.5' N 8° 30.3' W	<b>Fl.(4)G.</b> period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s			3 Green structure.	
2600 <i>D 1724</i>	Cayon, entrance Range, front.	43° 19.1' N 8° 36.0' W	<b>Fl.W.</b> period 2s fl. 0.8s, ec. 1.2s	56	17	4 White cylindrical tower; 13.	
2604 <i>D 1724.1</i>	--Rear, 115 meters 147°10' from front.	43° 19.0' N 8° 35.9' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	148	45	4 White cylindrical tower; 13.	
2605 <i>D 1723.99</i>	Puerto Langosteira Range, front.	43° 19.6' N 8° 31.0' W	<b>Dir.Iso.W.R.G.</b> period 2s			10 White tower.	G.129°45'-134°45', W-136°15', R.-136°15'.
2605.1 <i>D 1723.991</i>	-Rear, 135.5° from front.	43° 19.5' N 8° 30.9' W	<b>Iso.W.</b> period 2s			10 White tower.	Synchronized with 2605.
2606 <i>D 1725</i>	Dique de Abrigo.	43° 19.2' N 8° 36.1' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23	7	3 Green cylindrical tower; 13.	
2608 <i>D 1726</i>	Malpica, jetty, head.	43° 19.3' N 8° 48.1' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	66	20	4 Green cylindrical tower; 13.	
2612 <i>D 1728</i>	<b>Islas Sisargos.</b>	43° 21.6' N 8° 50.7' W	<b>Fl.(3)W.</b> period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s	361	110	23 Octagonal masonry tower, white dwelling; 33.	<b>AIS</b> (MMSI No 992242125). <b>Siren:</b> (200 meters W.) Mo.(S) ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s).
2613 <i>D 1729</i>	<b>Punta Nariga.</b>	43° 19.2' N 8° 54.6' W	<b>Fl.(3+1)W.</b> period 20s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s fl. 0.1s, ec. 7.4s	180	55	22 Cylindrical tower, building; 128.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-WEST COAST</b>							
RIA DE CORME Y LAGE:							
2616 <i>D 1730</i>	-Punta del Roncudo, N. side of bay.	43° 16.5' N 8° 59.4' W	<b>Fl.W.</b> period 6s	125 <b>38</b>	10	White cylindrical tower; 36.	
2620 <i>D 1733</i>	-Corme, breakwater, head.	43° 15.7' N 8° 57.9' W	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	46 <b>14</b>	3	Red cylindrical tower; 20.	
2624 <i>D 1734</i>	-Lage, breakwater, head.	43° 13.3' N 9° 00.0' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	56 <b>17</b>	4	Green cylindrical tower; 20.	
2628 <i>D 1732</i>	<b>-Punta Lage.</b>	43° 13.9' N 9° 00.7' W	<b>Fl.(5)W.</b> period 20s	217 <b>66</b>	20	White cylindrical tower; 36.	
2632 <i>D 1736</i>	<b>Cabo Villano.</b>	43° 09.6' N 9° 12.7' W	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 10.5s	341 <b>104</b>	28	Octagonal tower, gray cupola; 82.	Visible 031°30'-228°30'. <b>AIS</b> (MMSI No 992242116).
	RACON		<b>M(- -)</b>		<b>35</b>		(3 & 10cm).
2636 <i>D 1738</i>	-Punta de Lago.	43° 06.6' N 9° 10.0' W	<b>Oc.(2)W.R.G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	49 <b>15</b>	W. 6 R. 4 G. 4	White truncated conical; 23.	W. 029°30'-093°, G.-107°48', W.-109°06', R.-139°18', W.-213°30'.
RIA DE CAMARINAS:							
2640 <i>D 1739</i>	-Camarinas, end of Malecon.	43° 07.6' N 9° 10.9' W	<b>Fl.(2+1)G.</b> period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	20 <b>6</b>	2	Green cylindrical tower, red band; 7.	
2644 <i>D 1736.3</i>	-Punta Villueira, Boca S. Range, front.	43° 07.4' N 9° 11.6' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	49 <b>15</b>	9	White truncated conical tower; 23.	Visible 079°30'-082°30'..
2648 <i>D 1736.4</i>	--Rear, 612 meters 081° from front.	43° 07.5' N 9° 11.1' W	<b>Iso.W.</b> period 4s	89 <b>27</b>	13	White truncated conical tower; 25.	Visible 079°30'-082°30'.
2656 <i>D 1737</i>	-Punta de la Barca.	43° 06.8' N 9° 13.2' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	43 <b>13</b>	10	Gray truncated conical tower; 36.	
2660 <i>D 1740</i>	<b>Cabo Torinana.</b>	43° 03.2' N 9° 17.9' W	<b>Fl.(2+1)W.</b> period 15s fl. 0.2s, ec. 2.2s fl. 0.2s, ec. 6.1s fl. 0.2s, ec. 6.1s	213 <b>65</b>	24	White cylindrical tower; 36.	<b>AIS</b> (MMSI No 992242141).
2662	Torinana, Monte Xastas, RACON.	43° 01.8' N 9° 16.4' W	<b>T(-)</b>		<b>35</b>		(3 & 10cm).
2664 <i>D 1742</i>	<b>Cabo Finisterre.</b>	42° 52.9' N 9° 16.3' W	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	469 <b>143</b>	23	Octagonal concrete tower, white dwelling; 56.	Obscured when bearing greater than 149°. <b>Siren:</b> 2 bl. ev. 60s (bl. 2s, si. 6s, bl. 2s, si. 50s).
	RACON		<b>O(- - -)</b>		<b>35</b>		(3 & 10cm).
2666 <i>D 1744</i>	-Puerto de Finisterre, mole, head.	42° 54.6' N 9° 15.4' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	66 <b>20</b>	5	Red and white cylindrical tower; 20.	
RIA DE CORCUBION:							
2668 <i>D 1760</i>	-Cabo Cee, W side entrance to bay.	42° 55.0' N 9° 11.0' W	<b>Fl.(5)W.</b> period 13s	89 <b>27</b>	10	Octagonal concrete tower, white building; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-WEST COAST</b>							
2672 D 1762	-Pier, head.	42° 56.7' N 9° 11.4' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s			1	Red and white post.
2676 D 1758	-Carrumeiro Chico, Corcubion Inlet, shoal.	42° 54.4' N 9° 10.8' W	<b>Fl.(2)W.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	10	ISOLATED DANGER BRB, tower, topmark.	
RIA DE CAMARINAS:							
2680 D 1756	-Islote Lobeira Grande, center of island.	42° 52.8' N 9° 11.1' W	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	59 18	9	White octagonal tower, hut; 33.	
2682 D 1775	-Porto Cubelo, dique exterior, head.	42° 48.4' N 9° 08.1' W	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	56 17	4	Green cylindrical tower; 20.	Visible 169°-038°.
2684 D 1782	<b>Punta Insua.</b>	42° 46.3' N 9° 07.5' W	<b>Fl.(3)W.R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	85 26	W. 15 R. 14	Hexagonal tower, metal cupola, dwelling; 46.	R. 020°-045°, W.-070°, R.-090°, W.-125°, R.-152°, W.-020°.
RIA DE MUROS Y NOYA:							
2688 D 1784	-Punta Queixal, Monte Louro.	42° 44.3' N 9° 04.7' W	<b>Fl.(2+1)W.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	89 27	10	Hexagonal masonry tower, white building; 23.	Visible 180°-081°.
2696 D 1788	-Muros, Dique Exterior, head.	42° 46.6' N 9° 03.3' W	<b>Fl.(4)R.</b> period 13s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	26 8	4	White and green post; 20.	
2700 D 1792	-Punta Cabeiro.	42° 44.4' N 8° 59.4' W	<b>Oc.W.R.</b> period 3s lt. 2.2s, ec. 0.8s	121 37	W. 9 R. 6	Four-sided stone tower; 13.	R. 050°-054°30', W.-058°30', R.-099°30', W.-189°30'.
2712 D 1790	--Muelle del Este, head.	42° 46.6' N 9° 03.4' W	<b>Fl.(2+1)R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	33 10	1	Red post, green band; 20.	
2716 D 1794	<b>Cabo Corrubedo.</b>	42° 34.6' N 9° 05.4' W	<b>Fl.(2+3)W.R.</b> period 20s fl. 0.4s, ec. 2s fl. 0.4s, ec. 6s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 6s	105 32	15	Cylindrical masonry tower, white cupola.	R.347°-040°-W.347°. AIS.
RACON							
			<b>K(- • -)</b>			12	(3 & 10cm). Azimuth coverage 325°-200°.
2720 D 1795	Corrubedo, mole, head.	42° 34.3' N 9° 04.2' W	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	5	Red and white truncated conical tower; 16.	R. 077°-352°, W.-000°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-WEST COAST</b>							
RIA DE AROSA:							
2724 D 1796	-Isla de Salvora.	42° 28.0' N 9° 00.8' W	<b>Fl.(3+1)W.</b> period 20s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 6.9s fl. 0.4s, ec. 6.9s  <b>Fl.(3)W.</b> period 20s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 14.2s	125 38	21	White octagonal tower, red band; 52.	W. 217°-126°.  Visible 160°-126°.
2732 D 1798	-Piedras del Sargo, on E. rock.	42° 30.3' N 9° 00.5' W	<b>Q.G.</b>	43 13	8	White truncated conical tower, green band; 39.	
2738 D 1799.5	-Islas de Sagres.	42° 30.5' N 9° 02.9' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		1	Green and white post.	
2740 D 1800	-Bajo Pomberirino, rock.	42° 28.9' N 8° 56.8' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	49 15	7	White truncated conical beacon, green band; 46.	
2748 D 1816	-Bajo La Loba, S. rock.	42° 31.8' N 8° 55.0' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	7	Green and white truncated conical beacon.	
RIA DE ROSA:							
2752 D 1824	-Bajo Piedra Seca.	42° 32.9' N 8° 55.2' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	7	White truncated conical beacon, green band.	
2756 D 1818	-Isla Rua, center of island.	42° 33.0' N 8° 56.4' W	<b>Fl.(2)W.R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	85 26	12	Cylindrical masonry tower, dwelling; 46.	W. 211°30'-121°30', R.- 211°30'. <b>AIS</b> (MMSI No 992242142).
-RACON <b>G(- - •)</b>							
2760 D 1822	-Bajo Llagareos de Tierra, on the shoal.	42° 33.4' N 8° 59.0' W	<b>Q.R.</b>	26 8	4	Red and white truncated beacon; 23.	
2764 D 1820	-Santa Eugenia de Riveira, pier, head.	42° 33.6' N 8° 59.2' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	4	Red and white cylindrical tower; 20.	
2768 D 1826	-Punta Caballo, Arosa Island, NW. side.	42° 34.3' N 8° 53.0' W	<b>Fl.(4)W.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	10	Masonry octagonal tower, white building; 16.	
2772 D 1827	-Isla de Arosa, mole, head.	42° 33.9' N 8° 52.1' W	<b>Fl.(2+1)G.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	30 9	3	Green cylindrical tower, red band; 20.	
2776 D 1828	-Bajo Sinal de Ostreira.	42° 35.7' N 8° 54.8' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	5	Red and white truncated conical tower; 33.	
2780 D 1830	-Puebla del Caraminal, mole, head.	42° 36.3' N 8° 56.0' W	<b>Fl.(2+1)R.</b> period 15s		3	Red post, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-WEST COAST</b>							
2781 <i>D 1830.4</i>	--Pier, head.	42° 36.3' N 8° 55.9' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green and white round tower; 20.	
2784 <i>D 1831</i>	Puerto de Escarbote, mole, head.	42° 38.1' N 8° 54.6' W	<b>Fl.(2)W.R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red post.	W. 340°-010°, R.-340°.
2796 <i>D 1838</i>	-Villajuan, mole, head.	42° 35.4' N 8° 47.5' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green column; 10.	
2804 <i>D 1834</i>	-Villanueva, Rio Curras entrance, N. side, mole, head.	42° 33.8' N 8° 49.9' W	<b>Fl.(2+1)G.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	30 9	1	Green and red structure.	
2807 <i>D 1815</i>	-Cambados, shelter dike.	42° 31.0' N 8° 49.7' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Red cylindrical tower, white four- sided base; 16.	
2808 <i>D 1814</i>	-Breakwater, S. head.	42° 30.8' N 8° 49.2' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red tower; 20.	
2812 <i>D 1808</i>	--Bajo Lobeira de Cambodas, off S. extremity.	42° 30.7' N 8° 51.9' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red and white truncated conical tower; 33.	
2820 <i>D 1806</i>	-Bajo Praguero.	42° 31.0' N 8° 52.8' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Truncated conical beacon, green band.	
2824 <i>D 1810</i>	-Bajo Golfeira.	42° 30.3' N 8° 52.0' W	<b>Q.G.</b>	33 10	3	Green and white truncated conical tower; 33.	
2828 <i>D 1812</i>	-Puerto El Grove, W. breakwater, head.	42° 29.8' N 8° 51.5' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Green cylindrical tower; 26.	
RIA DE MARIN:							
2840 <i>D 1848</i>	-Bajo Camouco, on S. rock.	42° 23.8' N 8° 54.8' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	8	Red and white beacon; 43.	<b>AIS.</b>
2844 <i>D 1850</i>	-Bajo Picamillo.	42° 24.3' N 8° 53.4' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	8	Green and white beacon; 43.	
2848 <i>D 1855</i>	-Portonovo, Dique-muelle, head.	42° 23.6' N 8° 49.2' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red and white tower; 20.	
2852 <i>D 1856</i>	-Sangenjo, N. side of bay, mole, head.	42° 23.9' N 8° 48.3' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	Red cylindrical tower; 20.	

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<b>SPAIN-WEST COAST</b>							
2854 <i>D 1858</i>	-Puerto de Rajo, mole, head.	42° 24.1' N 8° 45.3' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red cylindrical tower; 26.	
2856 <i>D 1860</i>	-Punta Tenlo Chico, Isla Tambo.	42° 24.5' N 8° 42.5' W	<b>Fl.(3)W.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	115 35	11	Cylindrical masonry tower, truncated conical base; 56.	
	-Pontevedra:						
2860 <i>D 1862</i>	--N. jetty, head.	42° 24.9' N 8° 41.5' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	White four-sided beacon, base.	2 Fl.R. 3s on training wall.
2864 <i>D 1864</i>	--S. Jetty, head.	42° 24.8' N 8° 41.2' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	3	Green post.	2 Fl.G. on training wall.
2866 <i>D 1865.6</i>	-Combarro, mole, head.	42° 25.8' N 8° 42.3' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	1	Red and white post; 20.	
2868 <i>D 1866</i>	-Marin, W. mole, head.	42° 23.9' N 8° 42.3' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	5	Green column, white base; 20.	
2880 <i>D 1870</i>	-Bueu, mole, head.	42° 19.7' N 8° 47.1' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower; 10.	
2888 <i>D 1872</i>	-Bajo Mourisca.	42° 20.9' N 8° 49.2' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Green and white beacon; 43.	
2896 <i>D 1873</i>	Punta Couso.	42° 18.6' N 8° 51.3' W	<b>Fl.(3)W.G.</b> period 10.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	66 20	W. 10 G. 8	White and green truncated conical tower; 16.	G. 060°-096°, W.-190°, G.- 000°.
2900 <i>D 1873.4</i>	Aldan wharf.	42° 17.0' N 8° 49.4' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red cylindrical tower, red base; 23.	
	RIA DE VIGO:						
2904 <i>D 1874</i>	-Punta Robaleira, Cabo del Home, N. entrance to bay.	42° 15.0' N 8° 52.4' W	<b>Fl.(2)W.R.</b> period 7.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5s	89 27	W. 11 R. 9	Red cylindrical tower; 19.	R. 115°30'-170°30', W. 300°30'-321°30', R.- 090°.
	-RACON		<b>C(- • - •)</b>		22		(3 & 10cm).
2908 <i>D 1876</i>	-Cabo del Home Range, front, on Cabo del Home.	42° 15.2' N 8° 52.4' W	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	124 38	9	White cylindrical tower; 59.	Visible 090°-180°. <b>AIS</b> (MMSI No 992241104).
2912 <i>D 1876.1</i>	--Punta Subrido, rear, 815 meters 129° from front.	42° 14.9' N 8° 51.9' W	<b>Oc.W.</b> period 6s lt. 4.5s, ec. 1.5s	174 53	11	White cylindrical tower; 43.	Visible 090°-180°.
	-Islas Cies:						
2916 <i>D 1882</i>	--Monte Agudo, on Isla Cies del Norte, E. side.	42° 14.6' N 8° 54.2' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	82 25	10	White cylindrical tower, white wall; 16.	Visible 146°30'-334°.
2920 <i>D 1884</i>	--Monte Faro.	42° 12.8' N 8° 54.9' W	<b>Fl.(2)W.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	614 187	22	Cylindrical tower, white cupola, dwelling; 33.	Visible 016°30'-315°.

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<b>SPAIN-WEST COAST</b>							
2924 <i>D 1886</i>	--Punta Canabal, S. end of Isla Faro.	42° 12.7' N 8° 54.8' W	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	213 65	10	White cylindrical tower; 33.	
2928 <i>D 1888</i>	--Cabo Vicos, Isla San Martin, SE. point, Ria de Vigo, S. entrance.	42° 11.5' N 8° 53.5' W	<b>Fl.(3)R.</b> period 9s	308 94	10	Red and white cylindrical tower; 23.	Visible 210°30'-108°.
2932 <i>D 1889</i>	--Isla Boeiro.	42° 10.8' N 8° 54.6' W	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	75 23	5	Red and white truncated conical tower; 20.	
2936 <i>D 1891</i>	-Punta Lameda, S. entrance point of bay, E. side.	42° 09.4' N 8° 51.0' W	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	95 29	5	White cylindrical tower; 13.	
2938 <i>D 1907</i>	-Las Serralleiras.	42° 08.8' N 8° 52.7' W	<b>Fl.G.</b> period 4s fl. 0.4s, ec. 3.6s	36 11	5	White and green truncated conical tower; 20.	
2940 <i>D 1890</i>	- <b>Cabo Estay</b> Range, front.	42° 11.1' N 8° 48.9' W	<b>Iso.W.</b> period 2s	59 18	18	Red four-sided tower, white bands; 26.	Visible 066°18'-072°18'. <b>AIS</b> (MMSI No 992241105). <b>Nautophone:</b> Mo.(V) ev. 60s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 9s, si. 42s).
	-RACON		<b>B(-•••)</b> period 72s		22		(3cm).
2944 <i>D 1890.1</i>	--Rear, 660 meters 069°20' from front.	42° 11.2' N 8° 48.4' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	164 50	18	White four-sided tower, red bands; 23.	Visible 066°18'-072°18'.
2948 <i>D 1893</i>	-Canido (Toralla) Range, front, breakwater, head.	42° 11.7' N 8° 48.1' W	<b>Q.G.</b>	39 12	5	White and green truncated conical tower; 23.	
2949 <i>D 1893.1</i>	--Rear, 356 meters 116°54' from front.	42° 11.6' N 8° 47.8' W	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	49 15	3	Metal tower, white square with black diamond daymark; 30.	
2956 <i>D 1894</i>	-Bajo Tofino No 3.	42° 13.7' N 8° 46.7' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	7	Green cylindrical beacon, white lower portion marked 3.	
2957 <i>D 1895.55</i>	-Al Cabre.	42° 13.5' N 8° 46.1' W	<b>Q.G.</b>	20 6	1	Metal post; 10.	
2960 <i>D 1892</i>	-Piedra Borneira, No 6.	42° 14.5' N 8° 47.5' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	7	Red and white beacon; 36.	<b>Radar reflector.</b>
2962 <i>D 1894.5</i>	-Dique Frigorificos del Morrazo, head.	42° 15.3' N 8° 47.1' W	<b>Fl.(2)R.</b> period 7s	23 7	3	Red cylindrical tower; 16.	Visible 080°-360°.
2964 <i>D 1895</i>	-Cangas, outer mole, head.	42° 15.6' N 8° 46.8' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	5	Red and white cylindrical tower; 20.	
2968 <i>D 1895.4</i>	--Inner mole, head.	42° 15.6' N 8° 46.9' W	<b>Fl.(2+1)R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 7.5s	7 2	1	Red lantern.	
2970 <i>D 1895.5</i>	--Passenger wharf, head.	42° 15.7' N 8° 47.0' W	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s		1	White and green post.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-WEST COAST</b>							
2971 <i>D 1895.94</i>	-Bouzas, marina, NE head.	42° 14.1' N 8° 44.7' W	<b>Fl.(2+1)G.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	33 10	5	Green cylindrical tower, red band; 20.	Visible 110°-061°. <b>Radar reflector.</b>
2971.2 <i>D 1895.97</i>	--Floating breakwater, elbow.	42° 14.1' N 8° 44.5' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Green post; 7.	Synchronized with 2971.3.
2971.3 <i>D 1895.98</i>	---Head.	42° 14.0' N 8° 44.4' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Green post; 7.	Synchronized with 2971.2.
2972 <i>D 1896</i>	--Dique Muelle, head.	42° 14.0' N 8° 44.4' W	<b>Fl.(2+1)G.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 8s	33 10	5	Green tower, red band; 16.	Visible 110°-061°. <b>Radar reflector.</b>
2976 <i>D 1895.8</i>	-Ferry jetty, NE. corner.	42° 14.1' N 8° 45.1' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	5	Green tower; 13.	Visible 072°-319°.
2978 <i>D 1895.7</i>	--NW. corner.	42° 13.8' N 8° 45.8' W	<b>Q.W.</b>	26 8	7	N. CARDINAL BY, beacon, topmark; 16.	<b>Radar reflector.</b>
2980 <i>D 1895.9</i>	--E. corner.	42° 14.1' N 8° 45.0' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	5	Green cylindrical tower; 13.	Visible 156°30'-066°30'.
-Vigo:							
2988 <i>D 1898</i>	--Muelle del Berbes, NE. head.	42° 14.4' N 8° 43.9' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green tower; 19.	
2992 <i>D 1900</i>	--Muelle Trasatlanticos, W. head.	42° 14.4' N 8° 43.9' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Masonry truncated conical tower; 20.	<b>Radar reflector.</b>
2996 <i>D 1900.2</i>	---E. end, dolphin.	42° 14.6' N 8° 43.5' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green post; 16.	Q.R. 10m 5M and Q.G. 5M mark entrance to yacht harbor 220 meters SE. <b>Radar reflector.</b>
3000 <i>D 1901</i>	--Muelle de Transveral.	42° 14.6' N 8° 42.9' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	5	Green tower; 16.	<b>Radar reflector.</b>
3002 <i>D 1901.2</i>	--Muelle de Guixar, N. head.	42° 15.0' N 8° 42.6' W	<b>Fl.(2+1)R.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 8s	33 10	1	Red post, green band; 20.	<b>Radar reflector.</b>
3004 <i>D 1897</i>	--Darsena No 4, breakwater, head.	42° 14.1' N 8° 44.2' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	5	Metal cylindrical tower; 20.	Visible 300°-200°. <b>Radar reflector.</b>
3010 <i>D 1901.3</i>	--Lagoa Marina, breakwater, head.	42° 15.5' N 8° 42.5' W	<b>Q.G.</b>		5	Green cylindrical column; 10.	
3012 <i>D 1901.5</i>	-La Guia.	42° 15.6' N 8° 42.1' W	<b>Oc.(2+1)W.</b> period 20s lt. 5.3s, ec. 2.4s lt. 2.2s, ec. 2.4s lt. 5.3s, ec. 2.4s	121 37	15	White cylindrical tower; 69.	A F.R. light is shown on pier about 915 meters and a F.G. light on pier about 640 meters E. of Punta Areino.
3013 <i>D 1904.4</i>	--E. breakwater, head.	42° 15.6' N 8° 41.5' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Red post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-WEST COAST</b>							
3014 <i>D 1904.6</i>	-Domayo, pier, head.	42° 17.0' N 8° 41.0' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	5	Red and white cylindrical tower.	Visible 074°-341°.
3016 <i>D 1895.6</i>	-El Pego bank.	42° 15.5' N 8° 44.9' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red cylindrical beacon, white octagonal base; 13.	<b>Radar reflector.</b>
3020 <i>D 1901.6</i>	-El Con, pier.	42° 16.3' N 8° 44.2' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Red and white cylindrical tower; 20.	
3024 <i>D 1902</i>	-Moana, breakwater, head.	42° 16.5' N 8° 44.1' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red and white post; 20.	
3029 <i>D 1902.6</i>	--Breakwater, head.	42° 16.9' N 8° 43.1' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red cylindrical tower; 13.	
3032 <i>D 1912</i>	-Punta Tenaza, Bayona, mole, head.	42° 07.5' N 8° 50.7' W	<b>Q.G.</b>	39 12	5	White and green tower; 29.	
3040 <i>D 1911</i>	-Cabezo de San Juan (Pego Shoal) Range, front.	42° 08.2' N 8° 50.1' W	<b>Fl.W.</b> period 6s fl. 0.5s, ec. 5.5s	30 9	10	White truncated conical beacon.	
3044 <i>D 1911.1</i>	--Panjon, rear, 084° from front.	42° 08.3' N 8° 48.8' W	<b>Dir.W.R.G.</b> period 4s	62 19	W. 18 R. 15 G. 14	Gray masonry truncated conical tower, gray building; 30.	Oc.G. 079°-083°, Oc.W.-085°, Oc.R.-088°.
3048 <i>D 1914</i>	-Panxon, mole, head.	42° 08.5' N 8° 49.5' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red and white cylindrical tower; 23.	Visible 110°-060°.
3052 <i>D 1916</i>	<b>Cabo Silleiro.</b>	42° 06.3' N 8° 53.8' W	<b>Fl.(2+1)W.</b> period 15s fl. 0.4s, ec. 2.2s fl. 0.4s, ec. 5.8s fl. 0.4s, ec. 5.8s	279 85	24	White octagonal tower, red bands, red structure; 98.	
LA GUARDIA:							
3066 <i>D 1920.5</i>	-Breakwater, head.	41° 54.1' N 8° 52.9' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Red cylindrical tower; 10.	
3068 <i>D 1921</i>	-Mole, head.	41° 54.0' N 8° 52.8' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green and white tower; 10.	
3072 <i>D 1924</i>	Camposancos, Rio Mino, N. bank, mole.	41° 53.3' N 8° 51.0' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	5	Red cylindrical tower, white band; 20.	

# Section 3

## Portugal, Southwest Coast of Spain and Gibraltar

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3076 <i>D 2002</i>	Insua.	41° 51.5' N 8° 52.4' W	<b>Fl.W.R.G.</b> period 4s fl. 1s, ec. 3s	56 17	W. 12 R. 9 G. 8	White column, square base; 23.	W. 357°-204°, G.-270°, R.-357°.
3080 <i>D 2003</i>	Moledo Range, front.	41° 50.0' N 8° 52.0' W	<b>Oc.R.</b> period 5s lt. 3s, ec. 2s	43 13	6	White post, red bands; 10.	
3084 <i>D 2003.1</i>	-Rear, 24 meters 099°18' from front.	41° 50.9' N 8° 51.9' W	<b>Oc.R.</b> period 5s lt. 3s, ec. 2s	56 17	6	White post, red bands; 26.	
3090 <i>D 2006</i>	Praia de Ancora.	41° 48.9' N 8° 52.0' W	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	9	White column, red bands; 26.	<b>Siren:</b> 1 bl. ev. 60s (bl. 10s, si. 50s).
3096 <i>D 2008</i>	<b>Cabo Montedor.</b>	41° 45.1' N 8° 52.4' W	<b>Fl.(2)W.</b> period 9.5s fl. 0.2s, ec. 1.7s fl. 0.2s, ec. 7.4s	328 100	22	Gray tower, red cupola, gray building; 92.	
VIANA DO CASTELO:							
3099 <i>D 2012.8</i>	-Outer breakwater, head.	41° 40.4' N 8° 50.7' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s		9	White column, red bands.	
3100 <i>D 2012</i>	-Rio Lima, Barra Sul, entrance Range, front.	41° 40.4' N 8° 50.7' W	<b>Iso.R.</b> period 4s	56 17	5	Red tower, white stripes, white cupola; 20.	Visible 241°-151°.
3104 <i>D 2012.1</i>	--Senhora da Agonia, rear, 505 meters 012°30' from front.	41° 41.6' N 8° 50.3' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	108 33	5	Red tower, white stripes, white cupola; 30.	Visible 005°-020°.
3124 <i>D 2015.1</i>	Rio Nieva.	41° 37.2' N 8° 48.7' W	<b>Dir.Oc.W.R.G.</b> period 6s lt. 4s, ec. 2s	72 22	6	White post, red bands, two orange triangular daymarks points together.	G. 058°54'-063°54', W.-065°54', R.-070°54'.
3128 <i>D 2016</i>	<b>Esposende.</b>	41° 32.6' N 8° 47.4' W	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	65 20	20	Red tower, yellow building; 49.	
3132 <i>D 2016.2</i>	Apulia Range, front.	41° 29.1' N 8° 46.8' W	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	46 14	6	White post, red bands; 23.	Visible 340°24'-160°24'. <b>Siren:</b> 1 bl. ev. 75s (bl. 15s, si. 60s).
3136 <i>D 2016.21</i>	-Rear, 55 meters 070°18' from front.	41° 29.0' N 8° 47.0' W	<b>L.Fl.R.</b> period 6s fl. 2s, ec. 4s	69 21	6	Lantern, red daymark, yellow stripes; 46.	Visible 340°24'-160°24'.
POVOA DE VARZIM:							
3160 <i>D 2020.4</i>	-Molhe Norte, head.	41° 22.2' N 8° 46.3' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	46 14	12	White tower, red bands; 16.	<b>Siren:</b> 1 bl. ev. 40s (bl. 15s, si. 25s).
3164 <i>D 2020.6</i>	-Molhe Sul, head.	41° 22.3' N 8° 46.1' W	<b>L.Fl.G.</b> period 6s fl. 2s, ec. 4s	46 14	4	White post, green bands; 13.	
VILA DO CONDE:							
3188 <i>D 2024</i>	-Bar Range, front, N. side of entrance to Rio Ave.	41° 20.6' N 8° 44.9' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	23 7	6	White column, red bands; 13.	Second entrance range.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3192 <i>D 2024.1</i>	--Rear, about 35 meters 356° 42' from front.	41° 20.6' N 8° 44.9' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	26 8	6	White column, red bands; 16.	
3196 <i>D 2023</i>	-Azurara, first Range, front.	41° 20.2' N 8° 44.4' W	<b>Iso.G.</b> period 4s	33 10	6	White post, red bands; 23.	
3200 <i>D 2023.1</i>	--Rear, 260 meters 080°06' from front.	41° 20.2' N 8° 44.0' W	<b>Iso.G.</b> period 4s	89 27	6	White building, red bands, triangular top; 20.	
3204 <i>D 2023.7</i>	-N. mole, head.	41° 20.2' N 8° 45.0' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	9	White column, red bands; 26.	<b>Siren:</b> 1 bl. ev. 30s (bl. 10s, si. 20s).
3208 <i>D 2027</i>	Vila Cha Range, front.	41° 17.6' N 8° 44.1' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	6	White column, red bands; 20.	
3212 <i>D 2027.1</i>	--Rear, 144 meters 046°06' from front.	41° 17.5' N 8° 43.9' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	49 15	6	White column, red bands; 20.	
3216 <i>D 2028.4</i>	Angeiras, first entrance Range, front.	41° 15.9' N 8° 43.6' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	39 12	6	White post, red bands; 16.	Leads to shelter at sea south of Leixoes.
3220 <i>D 2028.5</i>	--Rear, 24 meters 042° from front.	41° 15.8' N 8° 43.6' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	49 15	6	White post, red bands; 16.	<b>Siren:</b> 1 bl. ev. 60s (bl. 30s, si. 30s).
3224 <i>D 2029</i>	Angeiras Range, front.	41° 15.8' N 8° 43.6' W	<b>Oc.G.</b> period 5s lt. 3s, ec. 2s	36 11	5	White post, green bands; 16.	
3228 <i>D 2029.1</i>	--Rear, 232 meters 062° from front.	41° 15.8' N 8° 43.4' W	<b>Oc.G.</b> period 5s lt. 4s, ec. 1s	62 19	5	White post, green bands; 16.	
3236 <i>D 2032</i>	<b>Leca.</b>	41° 12.1' N 8° 42.7' W	<b>Fl.(3)W.</b> period 14s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 9.2s	190 58	28	White tower, black bands, red cupola; 151.	F.R. lights are shown from radio masts at Boa Nova.
3240 <i>D 2034</i>	-Quebra-mar, oil terminal, head.	41° 10.4' N 8° 42.5' W	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	79 24	W. 12 R. 9	White tower, red lantern; 33.	R. 001°-180°, W.-001°. <b>Horn:</b> 1 bl. ev. 20s (bl. 5s, si. 15s).
3244 <i>D 2036</i>	-S. breakwater, head.	41° 10.7' N 8° 42.3' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	56 17	7	White tower, green lantern; 33.	Visible 328°-285°. <b>Horn:</b> 1 bl. ev. 30s (bl. 10s, si. 20s).
3248 <i>D 2038</i>	-N. breakwater spur, head.	41° 10.7' N 8° 42.5' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	29 9	6	Red structure, red lantern; 13.	
3249 <i>D 2037</i>	-Cais Oeste.	41° 11.1' N 8° 42.3' W	<b>L.Fl.(2)R.</b> period 12s fl. 2s, ec. 3s fl. 2s, ec. 5s	16 5	2	White post, red bands; 10.	
RIO DOURO:							
3253 <i>D 2045</i>	-S. mole, pier, head.	41° 08.7' N 8° 40.5' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	59 18	6	White tower, green bands.	
3254 <i>D 2045.5</i>	-N. mole, pier, head.	41° 08.7' N 8° 40.8' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	72 22	9	White tower, red bands; 20.	
3255 <i>D 2047</i>	-Barra Foz Range, front.	41° 08.9' N 8° 40.3' W	<b>Oc.Y.</b> period 5s lt. 3s, ec. 2s	56 17	6	Red column, white bands; 20.	Daytime range 3M.
3255.5 <i>D 2047.1</i>	--Rear, about 275 meters 059°18' from front.	41° 08.9' N 8° 40.1' W	<b>Oc.Y.</b> period 5s lt. 3s, ec. 2s	125 38	6	Lantern.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3264 <i>D 2052</i>	Praia da Aguda Range, front.	41° 02.8' N 8° 39.2' W	<b>L.F.I.R.</b> period 6s fl. 2s, ec. 4s	46 14	6	White post, red bands; 26.	Visible 002°06'-137°06'. <b>Siren:</b> 1 bl. ev. 30s (bl. 10s, si. 20s).
3268 <i>D 2052.1</i>	-Rear, about 49 meters from front.	41° 02.7' N 8° 39.1' W	<b>L.F.I.R.</b> period 6s fl. 2s, ec. 4s	66 20	6	White post, red bands; 39.	Visible 002°06'-137°06'.
3269 <i>D 2052.5</i>	-E.	40° 58.4' N 8° 38.9' W	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	33 10	9	Tower, black structure, yellow bands; 13.	Marks outfall.
3270 <i>D 2059.59</i>	-J, on beach.	40° 40.4' N 8° 44.5' W	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	33 10	9	Tower, black structure, yellow bands; 13.	
3271 <i>D 2057</i>	-N. mole, head.	40° 38.5' N 8° 45.9' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	56 17	8	White tower, red bands; 33.	
3272 <i>D 2056</i>	<b>Aveiro.</b>	40° 38.6' N 8° 44.9' W	<b>Fl.(4)W.</b> period 13s fl. 0.3s, ec. 2s fl. 0.3s, ec. 2s fl. 0.3s, ec. 2s fl. 0.3s, ec. 5.8s	217 66	23	White tower, red bands, red cupola, building; 203.	Aeromarine light.
3284 <i>D 2060</i>	<b>Cabo Mondego.</b>	40° 11.5' N 8° 54.3' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	318 97	28	White tower, red cupola, white building; 49.	
FIGUEIRA DA FOZ:							
3296 <i>D 2066</i>	-N. mole, head.	40° 08.6' N 8° 52.7' W	<b>Fl.R.</b> period 6s fl. 1.5s, ec. 4.5s	46 14	9	White tower, red bands; 30.	<b>Horn:</b> 1 bl. ev. 35s (bl. 10s, si. 25s).
3300 <i>D 2068</i>	-S. mole, head.	40° 08.6' N 8° 52.4' W	<b>Fl.G.</b> period 6s fl. 0.6s, ec. 5.4s	46 14	7	White column, green bands; 23.	
3304 <i>D 2069</i>	-Bar Range, front.	40° 08.8' N 8° 51.9' W	<b>Iso.R.</b> period 5s	23 7	4	White column, red bands; 13.	
3308 <i>D 2069.1</i>	--Rear, 239 meters from front.	40° 08.8' N 8° 51.0' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	36 11	4	White column, red bands; 23.	
3312 <i>D 2072</i>	<b>Penedo da Saudade.</b>	39° 45.8' N 9° 01.9' W	<b>Fl.(2)W.</b> period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 11.1s	171 52	30	Brown tower, red cupola, red building; 105.	Aeromarine light.
3316 <i>D 2074</i>	Nazare, fort (Morro de Nazare), SW. corner.	39° 36.3' N 9° 05.1' W	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s		14	Red cupola, wall of fort; 13.	Visible 282°-192°.
SAO MARTINHO DO PORTO:							
3320 <i>D 2076</i>	-Ponta de Santo Antonio.	39° 30.6' N 9° 08.6' W	<b>L.F.I.R.</b> period 6s fl. 2s, ec. 4s	108 33	9	White column, red bands, white structure.	<b>Siren:</b> 1 bl. ev. 60s (bl. 4s, si. 56s).
3324 <i>D 2078</i>	-Range, front.	39° 30.1' N 9° 08.3' W	<b>Iso.R.</b> period 1.5s	33 10	9	White column, red bands.	
3328 <i>D 2078.1</i>	--Rear, 129 meters from front.	39° 30.1' N 9° 08.2' W	<b>Oc.R.</b> period 6s lt. 5s, ec. 1s	39 12	10	White column, red bands, white tower.	
3332 <i>D 2084</i>	Farihaos.	39° 28.7' N 9° 32.7' W	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	328 100	13	White tower, red bands; 20.	
3336 <i>D 2086</i>	<b>Berlenga.</b>	39° 24.9' N 9° 30.6' W	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	397 121	16	White tower, red cupola, white building; 95.	<b>Horn:</b> 1 bl. ev. 28s (bl. 6s, si. 22s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3340 <i>D 2088</i>	<b>Cabo Carvoeiro.</b>	39° 21.6' N 9° 24.5' W	<b>L.FI.R.</b> period 6s fl. 2s, ec. 4s	187 57	15	White tower, red cupola, white building; 89.	<b>Horn:</b> 1 bl. ev. 35s (bl. 10s, si. 25s).
PENICHE:							
3352 <i>D 2096</i>	-E. mole, head.	39° 21.0' N 9° 22.4' W	<b>FI.G.</b> period 3s fl. 1s, ec. 2s	46 14	9	White tower, green bands; 26.	
3356 <i>D 2094</i>	-W. mole, head.	39° 20.9' N 9° 22.5' W	<b>FI.R.</b> period 3s fl. 1s, ec. 2s	46 14	9	White tower; red bands; 26.	<b>Siren:</b> 1 bl. ev. 120s (bl. 25s, si. 95s).
3360 <i>D 2098</i>	Porto das Barcas.	39° 13.8' N 9° 20.5' W	<b>L.FI.R.</b> period 6s fl. 2s, ec. 4s	98 30	6	White post, red bands; 33.	
3364 <i>D 2100</i>	Porto Dinheiro.	39° 12.8' N 9° 20.6' W	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s	66 20	9	Red lantern; 16.	
3368 <i>D 2102</i>	Assenta, S. of Ponta da Lamparoeira.	39° 03.5' N 9° 24.9' W	<b>L.FI.W.</b> period 5s fl. 2s, ec. 3s	262 80	13	White structure, red lantern; 13.	
3372 <i>D 2106</i>	Ericeira.	38° 57.8' N 9° 25.0' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	115 35	6	White concrete sentry box, black square daymark; 26.	<b>Siren:</b> 1 bl. ev. 70s (bl. 16s, si. 54s).
3376 <i>D 2108</i>	<b>Cabo da Roca.</b>	38° 46.9' N 9° 29.8' W	<b>FI.(4)W.</b> period 17s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.3s	541 165	26	White tower, red cupola, buildings; 72.	
3380 <i>D 2110</i>	<b>Cabo Raso.</b>	38° 42.6' N 9° 29.1' W	<b>FI.(3)W.</b> period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 4.2s	75 23	15	Red tower, white building; 43.	Visible 324°-189°.
LISBOA:							
3388 <i>D 2118</i>	<b>-Forte Santa Marta,</b> Barra do Norte Range, front.	38° 41.4' N 9° 25.3' W	<b>Oc.W.R.</b> period 6s lt. 4.5s, ec. 1.5s	82 25	W. 18 R. 14	White tower, blue bands, red cupola; 66.	R. 233°-334°, W.-098°.
3389 <i>D 2114</i>	<b>-Guia,</b> rear, 2287 meters 284°42' from front.	38° 41.7' N 9° 26.8' W	<b>Iso.W.R.</b> period 2s	190 58	W. 19 R. 16	White tower, red cupola, yellow building; 92.	W. 326°-092°, R. 278°-292°.
3390 <i>D 2119</i>	-S. mole, head.	38° 41.6' N 9° 24.8' W	<b>FI.(3)R.</b> period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	23 7	6	White column, red bands.	
3390.5 <i>D 2119.1</i>	-N. mole, head.	38° 41.6' N 9° 24.9' W	<b>FI.(2)G.</b> period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	16 5	3	White post, green bands; 16.	Visible 315°-225°.
3398 <i>D 2123</i>	-Carcavelos.	38° 40.9' N 9° 20.8' W	<b>Iso.W.R.</b> period 3s	59 18	9	Yellow tower; 39.	R. 048°-058°, W.-068°.
3400 <i>D 2124</i>	-Sao Julia da Barra, entrance, N. side.	38° 40.5' N 9° 19.5' W	<b>Oc.R.</b> period 5s lt. 3s, ec. 2s	135 41	14	Stone tower, red cupola; 79.	
3401 <i>D 2126.25</i>	-Oeiras Marina, N. pier.	38° 40.6' N 9° 19.0' W	<b>FI.G.</b> period 3s fl. 1s, ec. 2s	33 10	5	White tower, green bands; 13.	
3402 <i>D 2126.2</i>	--S. pier.	38° 40.6' N 9° 19.0' W	<b>FI.R.</b> period 3s fl. 1s, ec. 2s	33 10	5	White tower, red bands; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3404 D 2126	<b>-Fort Bugio.</b>	38° 39.6' N 9° 17.9' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	92 28	12	White column, red lantern, white building; 46.	<b>Horn:</b> Mo.(B) ev. 30s (bl. 6s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 12s).
3406 D 2126.5	-Doca de Paco de Arcos, W. pier, head.	38° 41.4' N 9° 17.6' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	4	White stone tower, lantern; 16.	
3406.2 D 2126.55	--E. pier, head.	38° 41.5' N 9° 17.6' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	4	White stone tower, lantern; 16.	
3408 D 2127	<b>-Barra do Sul</b> Range, front.	38° 41.9' N 9° 16.0' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	102 31	21	White tower, red bands, red cupola; 69.	Visible 039°30'-054°30'. Daytime range 5M.
3410 D 2127.1	<b>--Mama</b> , rear, 762 meters 047°06' from front.	38° 43.6' N 9° 13.6' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	259 79	21	White tower, red bands, red cupola, white building; 49.	Visible 039°30'-054°30'.
RACON			<b>Q(- - • -)</b>				
3413 D 2127.3	-VTS Alges Pier, head.	38° 41.6' N 9° 14.0' W	<b>Fl.(2)R.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	23 7	7	White post, red bands; 7.	
3413.3 D 2127.31	-MR Pier, head.	38° 41.7' N 9° 14.0' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	White column, green bands; 7.	
3414 D 2127.15	<b>-Mama Sul.</b>	38° 43.6' N 9° 13.6' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	505 154	21	White tower, red bands, white structure.	Visible 045°30'-048°30'. In line 047°06' and synchronized with 3408 and 3410.
3416 D 2127.4	-Doca de Pedroucos, W. mole, head.	38° 41.6' N 9° 13.5' W	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	33 10	5	White column, red bands; 16.	
3420 D 2127.6	--E. mole, head.	38° 41.6' N 9° 13.5' W	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	33 10	5	White column, green bands; 16.	
3424 D 2129	-Doca do Bom Sucesso, entrance, W. side.	38° 41.5' N 9° 12.7' W	<b>F.R.</b>	36 11		White metal structure, red lantern.	5 groups of towers, each showing a F.R. light, are located at Alges de Cima.
3428 D 2129.2	--E. side.	38° 41.5' N 9° 12.7' W	<b>F.G.</b>	36 11		White metal structure, green lantern.	
3432 D 2128	-Portinho da Costa, NATO fuel pier, E. head.	38° 40.6' N 9° 13.4' W	<b>Fl.(3)G.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	13 4	2	Metal post.	
3436 D 2128.5	---W. head.	38° 40.5' N 9° 13.3' W	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	13 4	2	Metal post.	
3438 D 2127.2	-EPAC pier, W. side.	38° 40.6' N 9° 14.3' W	<b>Q.W.</b>	26 8	4	Post; 7.	
3438.5 D 2127.25	--E. side.	38° 40.6' N 9° 14.0' W	<b>Q.W.</b>	26 8	4	Post; 7.	
3439 D 2127.18	-NATO fuel pier, dolphin, W. side.	38° 40.3' N 9° 15.2' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	3	Green post; 13.	
3439.2 D 2127.181	--T-head, W. side.	38° 40.3' N 9° 15.1' W	<b>Fl.(3)G.</b> period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	26 8	3	Green post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3439.4 <i>D 2127.182</i>	--E. side.	38° 40.4' N 9° 15.0' W	<b>Fl.(4)G.</b> period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	26 8	3	Green post; 13.	
3439.6 <i>D 2127.183</i>	--Dolphin, E. side.	38° 40.4' N 9° 14.9' W	<b>Fl.G.</b> period 5s fl. 1.5s, ec. 3.5s	33 10	3	Green post; 13.	
3440 <i>D 2130</i>	-Doca de Belem, entrance, W. side.	38° 41.6' N 9° 12.3' W	<b>F.R.</b>	36 11		White metal structure, red lantern.	
3444 <i>D 2130.2</i>	--E. side.	38° 41.6' N 9° 12.2' W	<b>F.G.</b>	36 11		White metal structure, green lantern.	
3448 <i>D 2130.4</i>	-Bridge, N. tower.	38° 41.6' N 9° 10.7' W	<b>2 Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6	On bridge tower; 7.	Structure on each side of bridge. Visible 180°-000°. Fl.R. 10s marks top of tower. <b>Horn:</b> 2 bl. ev. 25s (bl. 2.5s, si. 5s, bl. 2.5s, si. 15s).
			<b>2 Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6		
3452 <i>D 2130.6</i>	--S. tower.	38° 41.1' N 9° 10.6' W	<b>2 Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6	On bridge tower; 7.	Structure on each side of bridge. Visible 180°-000°. Iso.R. 2s marks top of tower. <b>Horn:</b> 1 bl. ev. 25s (bl. 5s, si. 20s).
			<b>2 Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6		
3453 <i>D 2132</i>	-Doca da Marinha Entrance, W. side.	38° 42.5' N 9° 07.9' W	<b>F.R.</b>	36 11	2	White metal structure, red lantern.	
3453.5 <i>D 2132.2</i>	--E. side.	38° 42.5' N 9° 07.8' W	<b>F.G.</b>	36 11	2	White metal structure, green lantern.	
3462 <i>D 2133.4</i>	-Lisnave.	38° 41.3' N 9° 08.6' W	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	13 4	3	White post, green bands.	Rio Tejo marked by buoys and beacons.
3463 <i>D 2134.6</i>	Olivais, pier, elbow.	38° 45.6' N 9° 05.4' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	White post, red bands; 10.	Fl.R. and Fl.G. lights mark entrance 420 meters S.
-Canal do Alfeite:							
3464 <i>D 2134.2</i>	--Entrance Range, front.	38° 40.0' N 9° 08.9' W	<b>Oc.G.</b> period 3s lt. 2s, ec. 1s	89 27	7	Structure, white and red diagonal stripes, green lantern; 16.	Daytime range 3M.
3468 <i>D 2134.21</i>	---Rear, 200 meters 223°24' from front.	38° 39.9' N 9° 09.0' W	<b>Oc.G.</b> period 6s lt. 4s, ec. 2s	135 41	7	White column, red bands; 16.	Daytime range 3M.
3472	--Buoy 2B.	38° 40.8' N 9° 08.2' W	<b>Q.R.</b>		3	PORT (A) R, can, topmark; 10.	
	--RACON		<b>B(-•••)</b>				
3480 <i>D 2134.3</i>	-Arsenal do Alfeite, E. mole.	38° 40.3' N 9° 08.5' W	<b>L.Fl.R.</b> period 5s fl. 2s, ec. 3s	26 8	8	White column, red bands; 16.	
3481 <i>D 2134.35</i>	--W. mole.	38° 40.4' N 9° 08.8' W	<b>L.Fl.G.</b> period 5s fl. 2s, ec. 3s	23 7	7	White tower, green bands; 10.	



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<b>PORTUGAL</b>							
3488 <i>D 2135.8</i>	-Rio Coina, bridge, S. tower.	38° 38.9' N 9° 04.7' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	3	Green post; 10.	
	-Canal do Seixal:						
3490	-- <i>Buoy 13B-1S.</i>	38° 39.3' N 9° 05.8' W	<b>Fl.G.</b> period 3s			STARBOARD (A) G, conical, topmark.	
	--RACON		<b>Q(- - • -)</b>				
3492 <i>D 2136</i>	--Pilar.	38° 38.9' N 9° 06.0' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	6	Red and white column; 7.	
3496 <i>D 2136.1</i>	--Seca.	38° 38.9' N 9° 06.0' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	5	Green post; 16.	
	-Canal do Montijo:						
3504 <i>D 2136.25</i>	--Central Electric, jetty, head.	38° 41.0' N 9° 03.5' W	<b>L.Fl.G.</b> period 10.5s fl. 4s, ec. 6.5s		3	Tower, green lantern.	
3505 <i>D 2136.5</i>	--Outfall, BA6.	38° 42.3' N 9° 03.1' W	<b>Fl.Y.</b> period 6s fl. 1s, ec. 5s	13 4	3	SPECIAL Y, beacon, "X" topmark.	
	SESIMBRA:						
3507 <i>D 2138.5</i>	-ETAR Meco.	38° 29.6' N 9° 10.8' W	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s		3	SPECIAL Y, post, topmark; 13.	Marks pipeline.
3508 <i>D 2139</i>	<b>-Cabo Espichel.</b>	38° 24.9' N 9° 13.0' W	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	551 168	26	White tower, red cupola, white building; 102.	Aeromarine light.
3512 <i>D 2140</i>	-Forte do Cavalo, bay, W. side.	38° 26.1' N 9° 07.0' W	<b>Oc.W.</b> period 5s lt. 3s, ec. 2s	115 35	14	Red tower, cupola; 23.	
3516 <i>D 2144</i>	-New mole, head.	38° 26.4' N 9° 06.4' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s		8	White tower, red bands; 23.	
3518 <i>D 2144.2</i>	-E2N.	38° 26.6' N 9° 06.3' W	<b>Oc.Y.</b> period 6s lt. 5s, ec. 1s		3	SPECIAL Y, beacon, "X" topmark; 10.	
3520 <i>D 2142</i>	-Entrance Range, front.	38° 26.4' N 9° 05.9' W	<b>L.Fl.R.</b> period 5s fl. 2s, ec. 3s	33 10	7	Red lantern; 33.	
3524 <i>D 2142.1</i>	--Rear, 34 meters 003°30' from front.	38° 26.5' N 9° 06.0' W	<b>L.Fl.R.</b> period 5s fl. 2s, ec. 3s	72 22	6	Red lantern; 56.	
3526 <i>D 2145</i>	-Cables Range, W., front.	38° 26.4' N 9° 05.5' W	<b>Fl.R.</b> period 2.5s fl. 0.3s, ec. 2.2s	26 8	2	White triangular daymark point up.	Marks W. limit of submarine cable area.
3526.1 <i>D 2145.1</i>	--Center, in line 030°.	38° 26.5' N 9° 05.4' W	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	489 149	2	White triangular daymark point up.	
3526.2 <i>D 2145.2</i>	--Rear, 030° from front.	38° 26.6' N 9° 05.4' W	<b>Fl.R.</b> period 3.5s fl. 0.4s, ec. 3.1s	640 195	2	White triangular daymark point up.	
3526.3 <i>D 2145.3</i>	-Cables Central Range, front.	38° 26.3' N 9° 05.1' W	<b>Fl.W.</b> period 2.5s fl. 0.3s, ec. 2.2s	443 135	6	Orange triangular daymark point up.	Marks NW. limit of submarine cable area.
3526.4 <i>D 2145.31</i>	--Rear, 237° from front.	38° 26.5' N 9° 04.7' W	<b>Fl.W.</b> period 3.5s fl. 0.4s, ec. 3.1s	886 270	6	Orange triangular daymark point up.	

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<b>PORTUGAL</b>							
3527 <i>D 2146</i>	-Serra de Achada Range, cables, front.	38° 26.1' N 9° 04.0' W	<b>Fl.W.</b> period 2.5s fl. 0.3s, ec. 2.2s	482 147	2	White triangular daymark point up.	Marks E. limit of submarine cable area.
3527.1 <i>D 2146.1</i>	--Center, in line 000°.	38° 26.2' N 9° 04.0' W	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	853 260	2	White triangular daymark point up.	
3527.2 <i>D 2146.2</i>	--Rear, 000° from front.	38° 26.2' N 9° 04.0' W	<b>Fl.W.</b> period 3.5s fl. 0.4s, ec. 3.1s	1027 313	2	White triangular daymark point up.	
SETUBAL:							
3532 <i>D 2150.22</i>	-Beacon No 2.	38° 27.2' N 8° 58.5' W	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	46 14	9	White column, red bands, red rectangular daymark.	
	-RACON		<b>B(- • • •)</b> period 60s		15		
3540 <i>D 2150.26</i>	-Beacon No 4.	38° 27.9' N 8° 57.7' W	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	46 14	4	Red and white checkered column, red rectangular daymark.	<b>Radar reflector.</b>
3544 <i>D 2150.28</i>	-Beacon No 5.	38° 29.2' N 8° 55.4' W	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	46 14	4	Black column, green rectangular daymark.	<b>Radar reflector.</b>
3548 <i>D 2152</i>	-Canal da Sapie Range, front, Algarve Exportador.	38° 31.2' N 8° 53.7' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	49 15	15	Red lantern.	
3552 <i>D 2152.1</i>	--Anunciada, rear, 538 meters 296°30' from front.	38° 31.3' N 8° 54.0' W	<b>Iso.R.</b> period 4s	79 24	15	Red lantern.	
3556 <i>D 2150</i>	-Fote d'Outao, Rio Sado, W. side entrance.	38° 29.2' N 8° 56.0' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	112 34	12	Structure, red cupola; 36.	
3560 <i>D 2150.4</i>	-Albarquel.	38° 30.7' N 8° 54.8' W	<b>Iso.R.</b> period 2s	59 18	6	Red lantern.	
3564 <i>D 2151</i>	-Doca Pesca Range, E. pier, front.	38° 31.1' N 8° 54.0' W	<b>Iso.Y.</b> period 6s	46 14	22	White tower, red bands; 36.	
3565 <i>D 2152.3</i>	-Naval Club, W. pier.	38° 31.2' N 8° 53.6' W	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	30 9	3	Post; 10.	
3565.1 <i>D 2152.5</i>	--E. pier.	38° 31.2' N 8° 53.6' W	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	30 9	3	Post; 10.	
3565.2 <i>D 2152.7</i>	-Fontainhas Marina, W. pier.	38° 31.2' N 8° 53.2' W	<b>Fl.(3)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	30 9	3	Post; 10.	
3565.3 <i>D 2152.9</i>	--E. pier.	38° 31.2' N 8° 53.1' W	<b>Fl.(3)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	30 9	3	Post; 10.	
3566 <i>D 2150.34</i>	-Quebra Marina, breakwater, head.	38° 29.7' N 8° 54.2' W	<b>Q.(2)R.</b> period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 4.7s	13 4	3	Post; 10.	
3566.1 <i>D 2150.37</i>	-Molhe Oeste.	38° 29.6' N 8° 54.2' W	<b>Q.(2)G.</b> period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 4.7s	26 8	3	Post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3566.2 <i>D 2156.5</i>	-Troia N.	38° 28.6' N 8° 52.3' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	Post; 13.	
3566.3 <i>D 2156.6</i>	-Troia S.	38° 28.4' N 8° 52.2' W	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	23 7	5	Post; 13.	
3566.4 <i>D 2156.8</i>	-Troia Ferries, N. pier.	38° 28.1' N 8° 51.8' W	<b>Fl.(3)G.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	30 9	5	Post; 20.	
3566.5 <i>D 2156.9</i>	--S. pier.	38° 28.0' N 8° 51.7' W	<b>Fl.(4)G.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 9	5	Post; 20.	
3568 <i>D 2151.1</i>	-- <b>Azeda</b> , rear, 2.8 km. 039°42' from front.	38° 32.3' N 8° 52.7' W	<b>Iso.Y.</b> period 6s	200 61	22	White tower, red bands, red cupola; 102.	Visible 038°18'-041°18'.
3569 <i>D 2157.4</i>	-S. dolphin.	38° 28.3' N 8° 48.5' W	<b>Q.(5)W.</b> period 8s	26 8	6	Gray post; 10.	Q.(3)W. 5s 8m 6M light marks dolphin close N.
3569.5 <i>D 2157.3</i>	--SE.	38° 28.2' N 8° 47.9' W	<b>Q.(3)W.</b> period 5s	26 8	6	Gray post; 10.	Q.(3)W. 5s 8m 6M and Q.(5)W. 8s 8m 6M lights mark 3 dolphins close E.
3570 <i>D 2158</i>	Pinheiro da Cruz.	38° 15.5' N 8° 46.3' W	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	220 67	9	White column, red bands.	
SINES:							
3572 <i>D 2160</i>	-- <b>Cabo de Sines</b> .	37° 57.6' N 8° 52.8' W	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	184 56	26	White tower, red cupola, white building; 92.	Reserve light range 21M. Obscured 001°-003° and 004°-007° within 17M. 4 Iso.R. 3M lights on dolphins SW.
3582 <i>D 2160.36</i>	--Mole.	37° 57.1' N 8° 52.2' W	<b>Fl.R.</b> period 6s fl. 1.5s, ec. 4.5s		6	White tower, red bands, white balcony; 13.	
3583 <i>D 2160.16</i>	--W. mole.	37° 56.5' N 8° 53.3' W	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	69 21	12	White tower, red bands; 26.	
3587 <i>D 2160.5</i>	Ponta da Gaivota.	37° 51.1' N 8° 47.8' W	<b>Fl.W.</b> period 6s fl. 1.5s, ec. 4.5s	66 20	13	Red column, white bands; 16.	
3588 <i>D 2160.6</i>	Porto Covo.	37° 51.0' N 8° 47.4' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	105 32	5	White post, red bands.	
3592 <i>D 2161</i>	Portinho do Canal Range, front.	37° 44.1' N 8° 48.0' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	16 5	6	White post, red bands.	
3596 <i>D 2161.1</i>	-Rear, 58 meters 074°48' from front.	37° 44.2' N 8° 47.9' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	20 6	6	White post, red bands.	
3600 <i>D 2162</i>	Milfontes, Rio Mira, mouth.	37° 43.1' N 8° 47.4' W	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	75 23	10	Security booth, lantern; 16.	
3604 <i>D 2164</i>	<b>Cabo Sardo</b> .	37° 35.9' N 8° 49.0' W	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	223 68	23	White tower, red cupola, white building; 56.	Reserve light range 22M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3608 D 2165	Porto das Barcas Entrance Range, front.	37° 33.3' N 9° 47.5' W	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	131 40	7	White post, red bands; 26.	
3612 D 2165.1	--Rear, about 157 meters 082°24' front.	37° 33.0' N 8° 47.3' W	<b>Oc.G.</b> period 3s lt. 2s, ec. 1s	174 53	7	White post, red bands; 46.	
3616 D 2168	<b>Cabo De Sao Vicente.</b>	37° 01.4' N 8° 59.8' W	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	282 86	32	White tower, red cupola, white building; 92.	Aeromarine light.
3620 D 2170	Ponta de Sagres.	36° 59.7' N 8° 56.9' W	<b>Iso.R.</b> period 4s	174 53	11	Tower, red cupola, dwelling; 42.	
3622 D 2171	Baleeira, on mole.	37° 00.7' N 8° 55.5' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	43 13	6	White post, red bands; 20.	
3623 D 2172.3	Posto.	37° 04.3' N 8° 46.5' W	<b>L.Fl.W.</b> period 5s fl. 2s, ec. 3s	52 16	11	Red lantern.	
BAIA DE LAGOS:							
3624 D 2174	<b>-Ponte da Piedade.</b>	37° 04.8' N 8° 40.2' W	<b>Fl.W.</b> period 7s fl. 1.5s, ec. 5.5s	184 56	20	Yellow tower, red cupola, yellow building; 16.	
3628 D 2175	--Lagos, W. mole, head.	37° 05.8' N 8° 39.9' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		6	White tower, red bands.	
3632 D 2176	--E. mole, head.	37° 05.8' N 8° 39.9' W	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		7	White tower, green bands.	
RIBEIRA DE ARADE (PORTIMAO):							
3644 D 2178	<b>-Ponta do Altar, entrance, E. side.</b>	37° 06.3' N 8° 31.2' W	<b>L.Fl.W.</b> period 5s fl. 2s, ec. 3s	105 32	16	White tower, red cupola, building; 33.	
3648 D 2179	--W. mole, extremity.	37° 06.5' N 8° 31.8' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	7	White column, red bands; 23.	
3652 D 2179.2	--E. mole, extremity.	37° 06.5' N 8° 31.6' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	7	White column, green bands; 23.	
3656 D 2181	--Ferragudo, entrance Range, front.	37° 07.4' N 8° 31.3' W	<b>Iso.R.</b> period 6s	62 19	6	White column, red bands; 13.	
3660 D 2181.1	--Rear, 54 meters 019°06' from front.	37° 07.4' N 8° 31.3' W	<b>Iso.R.</b> period 6s	102 31	6	White column, red bands; 16.	
3684 D 2192	<b>Alfanzina.</b>	37° 05.2' N 8° 26.5' W	<b>Fl.(2)W.</b> period 14s fl. 0.2s, ec. 3.3s fl. 0.2s, ec. 10.3s	190 58	29	White tower, red cupola, white dwelling; 75.	
3688 D 2194	Armacao de Pera, fort, S. corner.	37° 06.0' N 8° 21.6' W	<b>Oc.R.</b> period 5s lt. 4s, ec. 1s	82 25	6	Lantern.	
3692 D 2196	Albufeira, near Ponta da Baleeira.	37° 04.8' N 8° 15.7' W	<b>Oc.W.</b> period 6s lt. 4s, ec. 2s	102 31	11	White column, red bands.	
3700 D 2197	Olhos de Agua.	37° 05.3' N 8° 11.3' W	<b>L.Fl.W.</b> period 5s fl. 2s, ec. 3s	98 30	7	White column, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
3708 <i>D 2197.3</i>	Marina de Vilamoura, W. mole.	37° 04.1' N 8° 07.4' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	46 14	5	White tower, red bands; 20.	
3712 <i>D 2197.4</i>	-E. mole.	37° 04.1' N 8° 07.3' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	46 14	5	White tower, green bands; 23.	
3716 <i>D 2197.2</i>	<b>Vilamoura.</b>	37° 04.5' N 8° 07.4' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	59 18	19	Orange tower, lantern; 52.	
3724 <i>D 2206</i>	<b>Cabo de Santa Maria.</b>	36° 58.4' N 7° 51.9' W	<b>Fl.(4)W.</b> period 17s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8.4s	154 47	25	White tower, red cupola, white building; 151.	Reserve light range 20M. In line 099° with 3752. In line 020°54' with 3736. Aeromarine light.
CANAL DE OLHAO:							
-Barra Faro-Olhao:							
3728 <i>D 2208</i>	--W. mole, head.	36° 57.7' N 7° 52.2' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	32 10	6	White tower, red bands; 16.	
3732 <i>D 2209</i>	--E. mole, head.	36° 57.7' N 7° 52.1' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	32 10	6	White tower, green bands.	
3736 <i>D 2206.1</i>	--Barra Nova, E. mole.	36° 58.1' N 7° 51.9' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	29 9	6	White column, red bands.	In line 020°54' with 3724.
-Ilha da Barreta:							
3740 <i>D 2221</i>	--Golada Range, front.	36° 58.1' N 7° 52.2' W	<b>L.Fl.R.</b> period 5s fl. 2s, ec. 3s	23 7	7	White column, red bands, structure; 20.	
3744 <i>D 2221.1</i>	---Rear, 447 meters 219°30' from front.	36° 57.9' N 7° 52.7' W	<b>Oc.R.</b> period 5s lt. 4s, ec. 1s	30 9	7	White column, red bands; 23.	
3748 <i>D 2211</i>	-Ilha da Culatra, breakwater.	36° 58.4' N 7° 52.0' W	<b>Oc.G.</b> period 5s lt. 4s, ec. 1s	23 7	3	Post, green lantern.	
3752 <i>D 2212</i>	-Mar Santo.	36° 58.4' N 7° 52.0' W	<b>Oc.R.</b> period 5s lt. 4s, ec. 1s	33 10	5	White column, red bands.	In line 099° with 3724.
3756 <i>D 2222</i>	-Boneco.	36° 58.6' N 7° 51.9' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	6	Post; 16.	
3760 <i>D 2218</i>	--Ponte de Carvao, head.	36° 59.2' N 7° 51.2' W	<b>Fl.W.</b> period 5.5s fl. 0.5s, ec. 5s	23 7	6	Post; 13.	
3761 <i>D 2219</i>	-Ponte-Cais.	36° 59.7' N 7° 50.6' W	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	23 7	5	Post; 20.	
3772 <i>D 2230.1</i>	-Igreja.	37° 03.3' N 7° 44.8' W	<b>Oc.R.</b> period 3s lt. 2.5s, ec. 0.5s	102 31	5	Platform of bell tower; 56.	
3778 <i>D 2232.8</i>	Barra.	37° 03.2' N 7° 43.5' W	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	23 7	7	White column, red bands; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>PORTUGAL</b>							
TAVIRA:							
3780 D 2234	-Armacao Range, front.	37° 07.1' N 7° 37.3' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	4	White post, red bands; 16.	
3784 D 2234.1	--Rear, 132 meters 325°54' from front.	37° 07.2' N 7° 37.3' W	<b>Iso.R.</b> period 6s	36 11	5	White post, red bands; 16.	
3796 D 2235	-W. mole, head.	37° 06.8' N 7° 36.8' W	<b>Fl.R.</b> period 2.5s fl. 0.3s, ec. 2.2s	26 8	6	White tower, red bands; 13.	
3797 D 2235.2	-E. mole, head.	37° 06.9' N 7° 36.9' W	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	20 6	6	White tower, green bands; 13.	
RIO GUADIANA:							
3800 D 2249	-Mole, W. head.	37° 09.8' N 7° 24.0' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	4	White metal tower, red bands, lantern; 26.	
3808	-Buoy 1.	37° 09.1' N 7° 23.4' W	<b>Fl.(3)G.</b> period 6s			STARBOARD (A) G, conical.	
3816 D 2246	-Vila Real de Santo Antonio.	37° 11.2' N 7° 25.0' W	<b>Fl.W.</b> period 6.5s fl. 0.2s, ec. 6.3s	157 48	26	White tower, black bands, red cupola, white building; 151.	Reserve light range 20M.
<b>SPAIN-SOUTHWEST COAST</b>							
RIO GUADIANA:							
3820 D 2305	-Baluarte.	37° 12.8' N 7° 24.6' W	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	10 3	1	Green column; 13.	
3828 D 2312	-Rompido de Cartaya.	37° 13.1' N 7° 07.6' W	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 6.2s	140 43	24	White cylindrical tower, red bands; 95.	
3836 D 2319	Huelva Terminal Buoy.	37° 04.8' N 6° 55.6' W	<b>Fl.(4)Y.</b> period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 10.5s			SPECIAL Y, superbuoy, "X" topmark.	<b>Siren:</b> Mo.(E) ev. 30s.
RIO ODIEL (HUELVA):							
3840	-Approach buoy.	37° 05.6' N 6° 49.0' W	<b>Q.(9)W.</b> period 15s			W. CARDINAL YBY, topmark.	
3844 D 2320	-Punta del Picacho.	37° 08.1' N 6° 49.6' W	<b>Fl.(2+4)W.</b> period 30s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 8.6s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 8.6s	171 52	25	White masonry octagonal tower, white house; 82.	Reserve light range 10M. F.R. lights on 3 radio masts 4.8M ESE. <b>AIS</b> (MMSI No 992242121).
3845 D 2324.05	-Padre Santo, 339°11'.	37° 08.6' N 6° 50.7' W	<b>Dir.W.R.G.</b>	200 61	8	White tower; 49.	Fl.G. 337°30'-338°, F.G.- 338°36', Oc.G.-339°06', F.W.-339°18', Oc.R.- 339°48', F.R.-340°24', Fl.R.-340°54'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-SOUTHWEST COAST</b>							
3845.1 <i>D 2328.1</i>	-S. pier, dolphin.	37° 08.8' N 6° 52.4' W	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	30 9	3	Green post; 10.	Synchronized with 3845.12 and 3845.13.
3845.11 <i>D 2328.05</i>	--S. end.	37° 08.8' N 6° 52.4' W	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s		3	Yellow post; 30.	
3845.12 <i>D 2328.15</i>	--Middle.	37° 09.0' N 6° 52.6' W	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s		3	Green post.	Synchronized with 3845.1 and 3845.13.
3845.13 <i>D 2328.18</i>	--N. end.	37° 09.1' N 6° 52.9' W	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s		3	Green post.	Synchronized with 3845.1 and 3845.12.
3846 <i>D 2328.2</i>	-Capesa, SW.	37° 09.6' N 6° 53.9' W	<b>Fl.(2)G.</b> period 6s	16 5	3	Green post; 7.	
3846.1 <i>D 2328.3</i>	--NW.	37° 09.6' N 6° 53.8' W	<b>Fl.(2)G.</b> period 6s	16 5	3	Green post; 7.	Synchronized with 3846.
3846.5 <i>D 2328.7</i>	-Pantalan Foret SA.	37° 10.4' N 6° 55.0' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	3	Green post; 20.	Synchronized with 3846.51.
3846.51 <i>D 2328.75</i>	--N. corner.	37° 10.4' N 6° 55.0' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	6	Metal post; 20.	Synchronized with 3846.5.
3849 <i>D 2330</i>	-Muelle Juan Gonzalo, S. end.	37° 10.8' N 6° 55.5' W	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	10 3	3	Green post, 10.	
3850 <i>D 2332.1</i>	-Muelle de Saltes.	37° 11.6' N 6° 56.5' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red cylindrical post; 16.	
3851 <i>D 2335.2</i>	-Real Club Nautico, head.	37° 12.9' N 6° 57.0' W	<b>Q.(4)G.</b> period 23s	10 3	3	Green post; 7.	
3851.5 <i>D 2335.3</i>	-Pantalan UERT S.A., S. end.	37° 13.1' N 6° 57.1' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	3	Green post; 20.	
3851.6 <i>D 2335.35</i>	--N. end.	37° 13.2' N 6° 57.2' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	3	Green post; 20.	Synchronized with 3851.5.
3852.1 <i>D 2335.38</i>	-Pantalan Fertiberia, S. dolphin.	37° 13.4' N 6° 57.3' W	<b>Fl.(2)G.</b> period 5s		3		Synchronized with 3852.11.
3852.11 <i>D 2335.39</i>	--N. dolphin.	37° 13.5' N 6° 57.3' W	<b>Fl.(2)G.</b> period 5s		3		Synchronized with 3852.1.
3852.5 <i>D 2335.42</i>	-Pantalan Fosforico, S. end.	37° 13.7' N 6° 57.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 10.	
3852.6 <i>D 2335.4</i>	--N. end.	37° 13.8' N 6° 57.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 10.	Synchronized with 3852.5.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-SOUTHWEST COAST</b>							
3853 <i>D 2338.5</i>	-Muelle de Rio Tinto, end.	37° 14.9' N 6° 57.5' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	3	Green post; 20.	
3854 <i>D 2341</i>	-Muelle de Levante.	37° 15.3' N 6° 57.6' W	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	3	Green post; 16.	
3861 <i>D 2321</i>	-Breakwater, S. head.	37° 06.5' N 6° 49.9' W	<b>Fl.(3+1)W.R.</b> period 20s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s fl. 0.8s, ec. 6.2s	102 31	W. 12 R. 9	White cylindrical tower, red bands; 89.	R. 100°-125°, obsc.-165°, W-100°. <b>AIS</b> (MMSI No 992241107).
	-RACON		<b>K(- • -)</b> period 72s		12		(3 cm).
3862 <i>D 2315</i>	-Punta Umbria, breakwater, head.	37° 09.8' N 6° 56.9' W	<b>V.Q.(6)+L.Fl.W.</b> period 10s	33 10	5	S. CARDINAL YB, tower, topmark; 13.	
3862.5 <i>D 2315.75</i>	--Canal.	37° 11.4' N 6° 57.9' W	<b>Fl.(2+1)R.</b>		3	Red and green post.	
3863 <i>D 2345</i>	-La Higuera.	37° 00.5' N 6° 34.2' W	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 12.9s	154 47	20	White pyramidal tower, red band; 79.	
RIO GUADALQUIVIR (SANLUCAR DE BARRAMEDA):							
3864 <i>D 2348.5</i>	-New Canal Range, front.	36° 47.8' N 6° 20.2' W	<b>Q.W.</b>	95 29	10	Yellow metal tower; 72.	
3868 <i>D 2348.51</i>	--Rear, 108 meters 069° from front.	36° 48.1' N 6° 19.6' W	<b>Iso.W.</b> period 4s	203 62	10	Yellow metal tower; 98.	Daytime range 4M.
3872 <i>D 2349</i>	-Bonanza 1, breakwater, S. head.	36° 48.1' N 6° 20.3' W	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	3	Green column, red band; 6.	
3876 <i>D 2349.1</i>	--Breakwater 3, N. head.	36° 48.3' N 6° 20.3' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green post; 7.	
Lights in Rio Guadalquivir not in List of Lights.							
3877 <i>D 2346</i>	-Bonanza.	36° 48.2' N 6° 20.2' W	<b>Iso.W.</b> period 4s	75 23	7	Red brick tower, white dome; 65.	Visible 144°-148°.
3878	-Buoy 1.	36° 45.8' N 6° 27.0' W	<b>Fl.W.</b> period 10s			SAFE WATER RW pillar, ball topmark.	
	-RACON		<b>M(- -)</b>		10		(3 & 10cm).
3880 <i>D 2351</i>	-Chipiona.	36° 44.3' N 6° 26.5' W	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	226 69	25	Cylindrical stone tower; 197.	<b>AIS</b> (MMSI No 992242122).
3882 <i>D 2350.4</i>	-Bajo Salmedina.	36° 44.4' N 6° 28.4' W	<b>Q.(9)W.</b> period 15s	30 9	5	W. CARDINAL YBY, round tower, topmark.	<b>AIS</b> (MMSI No 992242143).
3884 <i>D 2352</i>	--Breakwater, head.	36° 45.0' N 6° 25.7' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	5	Green cylindrical tower; 16.	Fl.(3)G. 9s 4m 1M and Fl.(4)R. 11s 4m 3M lights mark entrance to marina. Obscured 039°-075°.
ROTA:							
3900 <i>D 2355</i>	-Rota AVIATION LIGHT.	36° 38.1' N 6° 20.8' W	<b>Al.Fl.W.G.</b> period 9s	262 80	17	Red and white checkered water tank; 162.	Tanks, control tower, radio masts marked by F.R. obstruction lights.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-SOUTHWEST COAST</b>							
3908 D 2355.2	-Rota Faro.	36° 37.0' N 6° 21.4' W	<b>Oc.W.</b> period 4s	112 34	13	White cylindrical tower, red band; 92.	<b>AIS</b> (MMSI No 992242144). <b>DGPS Station</b> 1.3 miles WNW.
	-Rota Fishing Harbor:						
3912 D 2355.4	--Mole, head.	36° 36.9' N 6° 21.0' W	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	3	Red mast, red hut; 10.	
3914 D 2355.5	---Contradique.	36° 36.9' N 6° 21.1' W	<b>Q.(6)G.</b> period 12s		3	Green post.	
	-Naval Base:						
3920 D 2359	--Entrance Range, front.	36° 37.5' N 6° 19.7' W	<b>Q.W.</b>	49 15	9	Metal framework tower, red and white daymarks bases together; 30.	Visible 335°30'-355°30'.
3924 D 2359.1	---Rear, about 285 meters 345°30' from front.	36° 37.7' N 6° 19.8' W	<b>Oc.W.</b> period 3s	89 27	11	Metal framework tower, red and white circular daymark; 50.	Visible 335°30'-355°30'.
3928 D 2357	--SW. breakwater.	36° 36.6' N 6° 19.6' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	56 17	4	Metal framework column; 13.	
3932 D 2358	--SE. breakwater.	36° 36.8' N 6° 19.4' W	<b>Q.(3)G.</b> period 7s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	45 14	6	Metal framework column; 13.	
	CADIZ:						
3940 D 2362	-Castillo de San Sebastian.	36° 31.7' N 6° 19.0' W	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	128 39	25	Metal cylindrical tower; 121.	Obscured over harbor by buildings. Unintensified 085°-121°. <b>AIS</b> (MMSI No 992242123).
3950 D 2380	-Range, front.	36° 33.0' N 6° 15.0' W	<b>Q.G.</b>	33 10	7	White and red beacon, concrete post; 20.	
3950.1 D 2380.1	--Rear, 379 meters 102° from front.	36° 32.9' N 6° 14.7' W	<b>Oc.G</b> period 3s lt. 2s, ec. 1s	69 21	7	White beacon, red square daymark, white bands, concrete post; 52.	
3958 D 2367.2	-Mole levante, head.	36° 32.7' N 6° 16.8' W	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	39 12	3	Green post suspended from semicircular structure.	
3960 D 2367	-Basin Malecon de San Felipe, head.	36° 32.6' N 6° 16.8' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	5	Green tower; 13.	
3968 D 2368	--Malecon de Levante, head.	36° 32.4' N 6° 16.6' W	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	39 12	5	Red tower; 16.	
3969 D 2367.5	-Nueva Terminal de Contenedores.	36° 32.4' N 6° 16.4' W	<b>Q.G.</b>		5	Green post; 33.	
3970 D 2367.7	-- S. Corner.	36° 32.1' N 6° 16.2' W	<b>Fl.G.</b> period 4s fl. 0.3s, ec. 3.7s		5	Green and white column; 10.	
	-Malecon de San Felipe:						
3977 D 2371.3	--Muelle Reina Sofia.	36° 32.4' N 6° 17.1' W	<b>Fl.(2+1)G.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	20 6	3	Green column, red band; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-SOUTHWEST COAST</b>							
3980 D 2373	--Muelle Ciudad.	36° 32.0' N 6° 17.4' W	<b>Oc.W.</b> period 5s fl. 3s, ec. 2s	92 28	3	Metal post, red triangular daymark point up; 82.	
3984 D 2372	--Muelle No 2 Marques de Comillas, NW. corner.	36° 32.2' N 6° 16.9' W	<b>Fl.(2+1)R.</b> period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 1.5s, ec. 6.5s	20 6	3	Red tower, green strip; 13.	
3984.1 D 2373.7	---NE corner.	36° 32.1' N 6° 16.8' W	<b>Q.(4)G.</b> period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 8.5s		3	Green beacon.	
3984.2 D 2372.1	---Tacon Ro Ro, NE.	36° 32.0' N 6° 17.2' W	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Red structure; 7.	
3984.4 D 2372.15	----SW.	36° 32.0' N 6° 17.2' W	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Red structure; 7.	
3988 D 2373.4	--Muelle No 5.	36° 31.9' N 6° 16.1' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Green structure.	
3992 D 2374	--Puerto Pesquero Muelle de Poniente, head.	36° 32.0' N 6° 16.9' W	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	19 6	1	Green tower; 13.	
3996 D 2375	---Muelle de Levante, head.	36° 32.0' N 6° 16.9' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	19 6	1	Red tower; 13.	
3998 D 2375.3	-Muelle de La Cabezueta.	36° 31.7' N 6° 15.5' W	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	29 9	3	Red truncated pyramidal tower; 10.	
3999 D 2375.35	--N. wharf corner.	36° 31.5' N 6° 15.5' W	<b>Fl.(2+1)R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 4s fl. 1s, ec. 6s	23 7	1	Red tower, green stripe.	
4000 D 2375.36	--S. wharf corner.	36° 31.2' N 6° 15.3' W	<b>Fl.(4)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s		1	Red beacon.	
4001 D 2375.37	--RoRo terminal.	36° 31.1' N 6° 15.0' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	1	Red post; 10.	
4002 D 2375.5	-Bajo de la Palma.	36° 31.0' N 6° 15.8' W	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s			ISOLATED DANGER BRB, beacon, topmark.	
4008 D 2376	-Base de Puntales, outer mole, head.	36° 30.5' N 6° 15.6' W	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	3	Green post; 10.	
-Zona Franca:							
4012 D 2377	--Entrance Range, front.	36° 30.1' N 6° 15.8' W	<b>Iso.W.</b> period 2s	39 12	3	Metal post, black diamond daymark; 30.	Visible 180°-240°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-SOUTHWEST COAST</b>							
4016 <i>D 2377.1</i>	--Rear, 80 meters 210°30' from front.	36° 30.1' N 6° 15.8' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	49 15	3	Metal post, black diamond daymark; 39.	Visible 180°-240°.
4020 <i>D 2377.4</i>	--Muelle de Poniente, on NE. corner.	36° 30.4' N 6° 15.6' W	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	16 5	2	Green post; 7.	
4032 <i>D 2381</i>	-La Clica, outer berth.	36° 30.0' N 6° 11.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 4.7s		2	White tower, green top; 10.	
4036 <i>D 2381.2</i>	--Inner berth.	36° 29.9' N 6° 11.3' W	<b>Q.(4)G.</b> period 10s		2	White tower, green top; 10.	
4037 <i>D 2382</i>	-Puerto Deportivo Sherry, S. breakwater, head.	36° 34.6' N 6° 15.3' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s		5	White truncated conical tower.	
4038 <i>D 2382.3</i>	--N. entrance.	36° 34.7' N 6° 15.2' W	<b>Oc.G.</b> period 5s lt. 3.8s, ec. 1.2s		3	Green tower.	Q.G. and Q.R. lights mark interior entrance.
4041 <i>D 2385.7</i>	-El Puerto de Santa Maria.	36° 35.6' N 6° 13.5' W	<b>Dir.W.R.G.</b> period 6s fl. 1.5s, ec. 4.5s	46 14	5	Cylindrical metal tower.	Fl.G. 038.7°-039.6°, Fl.W.-040.4°, Fl.R.-041.5°.
4048 <i>D 2383</i>	--Escollera de Levante, E. head.	36° 34.7' N 6° 14.4' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green metal tower; 13.	
4049 <i>D 2385.2</i>	--W. head.	36° 34.3' N 6° 15.0' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	3	Red tower; 13.	
4050 <i>D 2383.4</i>	--E. breakwater.	36° 34.5' N 6° 14.4' W	<b>Q.(9)W.</b> period 15s		3	W. CARDINAL YBY, tower, topmark; 13.	
4056 <i>D 2385.6</i>	--Muelle Pesquero, SW. corner.	36° 35.6' N 6° 13.6' W	<b>Fl.(3)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 6	1	Red tower; 10.	
SANCTI PETRI:							
4060 <i>D 2388</i>	-Castillo de Sancti Petri, Islet, N. head.	36° 22.8' N 6° 13.2' W	<b>Fl.W.</b> period 3s fl. 0.7s, ec. 2.3s	66 20	9	Tower.	
-Punta de las Piedras:							
4064 <i>D 2398</i>	--Coto San Jose Range, front.	36° 22.7' N 6° 12.2' W	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	46 14	6	Metal framework tower; 33.	
4068 <i>D 2398.1</i>	--Rear, 50 meters 050° from front.	36° 23.0' N 6° 12.1' W	<b>Oc.(2)W.</b> period 6s lt. 1s, ec. 1s lt. 1s, ec. 3s	59 18	6	Metal framework tower; 33.	
4072 <i>D 2404</i>	--Bateria de Urrutia Range, front, about 1.5 km. 013° from Castillo de Sancti Petri light.	36° 23.4' N 6° 13.0' W	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	43 13	6	Metal framework tower; 20.	
4076 <i>D 2404.1</i>	---Rear, 60 meters 346°30' from front.	36° 23.5' N 6° 13.0' W	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	75 23	6	Metal framework tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-SOUTHWEST COAST</b>							
4077 D 2405	<b>Cabo Roche.</b>	36° 17.7' N 6° 08.4' W	<b>Fl.(4)W.</b> period 24s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 11.4s	148 45	20	Four-sided tower; 66.	<b>AIS</b> (MMSI No 992242145).
4078 D 2405.4	Conil, breakwater, head.	36° 17.6' N 6° 08.1' W	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	36 11	5	Red cylindrical post; 20.	
4080 D 2406	<b>Cabo Trafalgar, AVIATION LIGHT.</b>	36° 11.0' N 6° 02.1' W	<b>Fl.(2+1)W.</b> period 15s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6s fl. 0.4s, ec. 6s	167 51	22	White tower, dwelling; 112.	
4084 D 2408	Barbate, about 1.3 km. NW. of mouth of Barbate Rio.	36° 11.2' N 5° 55.4' W	<b>Fl.(2)W.R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	75 23	W. 10 R. 7	White cylindrical tower, red bands; 59.	W. 281°-015°, R.-095°.
4088 D 2409	-Digue de Poniente, head.	36° 10.8' N 5° 55.5' W	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	39 12	5	Red truncated conical tower; 7.	
4092 D 2410	-Contradique, head.	36° 11.0' N 5° 55.8' W	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	26 8	2	Green truncated conical tower; 7.	
<b>STRAIT OF GIBRALTAR-NORTH SIDE</b>							
4110 D 2411.5	Punta de Gracia.	36° 05.4' N 5° 48.6' W	<b>Oc.(2)W.</b> period 5s lt. 0.5s, ec. 1s lt. 0.5s, ec. 3s	246 75	13	Cylindrical stone tower; 66.	<b>AIS</b> (MMSI No 992242146).
4112 D 2412	Punta Paloma.	36° 03.9' N 5° 43.2' W	<b>Oc.W.R.</b> period 5s lt. 4s, ec. 1s	148 45	W. 10 R. 7	White four-sided tower; 16.	W. 010°-340°, R.-010°.
4116 D 2414	<b>Tarifa.</b>	36° 00.1' N 5° 36.6' W	<b>Fl.(3)W.R.</b> period 10s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 5.2s	134 41	W. 26 R. 18	White cylindrical tower; 108.	W. 113°-089°, R.-113°. <b>AIS</b> (MMSI No 992242147). <b>DGPS Station.</b>
	RACON		<b>C(- • - •)</b>		20		(3 & 10cm).
4118 D 2415	-Lado East.	36° 00.2' N 5° 36.4' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	5	Red four-sided tower, red square daymark; 7.	<b>Radar reflector.</b>
4120 D 2418	Puerto de Tarifa, No 1 mole.	36° 00.6' N 5° 36.1' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Red square daymark; 13.	
4124 D 2416	-E. mole, head.	36° 00.4' N 5° 36.2' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	5	STARBOARD (A) G, tower, topmark; 16.	Visible 249°-045°.
4128 D 2420	<b>Punta Carnero.</b>	36° 04.6' N 5° 25.6' W	<b>Fl.(4)W.R.</b> period 20s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 8s	138 42	W. 16 R. 13	Cylindrical masonry tower, white building; 62.	R. 325°-018°, W.-325°. <b>AIS</b> (MMSI No 992242148).

For lights on the south side of the Strait, see Ceuta, Morocco.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAIT OF GIBRALTAR-NORTH SIDE</b>							
<b>ALGECIRAS</b>							
4132 <i>D 2423.2</i>	--N. breakwater, S. head.	36° 07.1' N 5° 26.2' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	STARBOARD (A) G, structure, topmark; 3.	<b>Radar reflector.</b>
4136 <i>D 2425</i>	-N. jetty, head.	36° 08.9' N 5° 25.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	7	Red cylindrical tower; 20.	<b>Radar reflector.</b>
4138 <i>D 2424.94</i>	---elbow.	36° 08.6' N 5° 25.8' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	3	PORT (A) R, tower, topmark; 20.	Visible 003°-203°.
4138.5 <i>D 2425.2</i>	-Pantalon VOPAK.	36° 08.3' N 5° 25.5' W	<b>Fl.Y.</b> period 5s fl. 0.3s, ec. 4.7s	16 5	3	SPECIAL Y, post, "X" topmark; 10.	
4139 <i>D 2424.8</i>	-Breakwater, N. head.	36° 08.1' N 5° 25.1' W	<b>Oc.(2)R.</b> period 6s lt. 1s, ec. 0.5s lt. 4s, ec. 0.5s	36 11	5	Red cylindrical column; 10.	Visible 014°-000°.
4139.5 <i>D 2424.9</i>	--S. head.	36° 07.0' N 5° 25.0' W	<b>Oc.G.</b> period 6s lt. 5s, ec. 1s	36 11	5	Green cylindrical column; 10.	Visible 180°-169°.
4140 <i>D 2424.7</i>	-Isla Verde, N. head.	36° 08.0' N 5° 25.4' W	<b>Fl.(2+1)G.</b> period 12s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 7.7s	20 6	3	Green and red cylindrical column; 10.	Visible 094°-349°.
4140.5 <i>D 2423.5</i>	--S. head.	36° 07.2' N 5° 25.3' W	<b>Oc.R.</b> period 6s lt. 5s, ec. 1s	20 6	3	Red cylindrical column; 10.	Visible 194°-090°.
4142 <i>D 2425.3</i>	-Naval mole, N. head.	36° 08.9' N 5° 26.1' W	<b>Oc.G.</b> period 5s lt. 4s, ec. 1s	26 8	3	Green cylindrical tower; 16.	
4143 <i>D 2425.4</i>	--SE. corner.	36° 08.1' N 5° 26.2' W	<b>Oc.(2)G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	20 6	1	STARBOARD (A) G, column, topmark; 7.	
4145 <i>D 2425.66</i>	-Darsena Pesquera.	36° 08.3' N 5° 26.6' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	STARBOARD (A) G, column, topmark; 7.	
4147 <i>D 2425.72</i>	-Muelle de la Galera, pier No 2.	36° 07.9' N 5° 26.2' W	<b>Fl.Y.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	16 5	1	SPECIAL Y, column, "X" topmark; 7.	
4149 <i>D 2425.7</i>	-Muelle de la Galerilla, pier No 1.	36° 07.9' N 5° 26.2' W	<b>Fl.(5)Y.</b> period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 11.2s	16 5	1	SPECIAL Y, column, "X" topmark; 7.	
4151 <i>D 2425.74</i>	--Pier No 3.	36° 08.0' N 5° 26.2' W	<b>Fl.Y.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	1	SPECIAL Y, column, &"X" topmark; 7.	
4154 <i>D 2425.35</i>	-Bridge.	36° 08.9' N 5° 26.5' W	<b>Iso.W.</b> period 4s		1	White round panel, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAIT OF GIBALTAR-NORTH SIDE</b>							
4166 <i>D 2430</i>	-Acerinox, W. jetty, head.	36° 10.6' N 5° 25.3' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Truncated pyramidal tower; 10.	
4166.5 <i>D 2430.013</i>	--Range, common front.	36° 10.6' N 5° 25.3' W	<b>Q.R.</b>		3	Red column; white stripe; 20.	
4166.51 <i>D 2430.01</i>	---Rear, 40 meters 015° from common front.	36° 10.6' N 5° 25.3' W	<b>Iso.G.</b> period 2s		3	Green column, white stripe; 30.	Marks approximate limit of safe depth.
4166.52 <i>D 2430.015</i>	---Rear, 25 meters 350° from common front.	36° 10.6' N 5° 25.3' W	<b>Iso.R.</b> period 2s		3	Red column, white stripe; 26.	Marks 50 meters from Muelle de Levante.
4167 <i>D 2430.2</i>	--E. jetty, head.	36° 10.5' N 5° 25.1' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	1	Green truncated pyramidal tower; 10.	
4167.2 <i>D 2431</i>	Coal Terminal, W. head.	36° 10.4' N 5° 25.2' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Green cylindrical tower; 16.	
4167.3 <i>D 2431.2</i>	-E. corner.	36° 10.5' N 5° 25.0' W	<b>V.Q.(6)+L.Fl.W.</b> period 10s	30 9	1	S. CARDINAL YB, tower, "X" topmark; 16.	
4168 <i>D 2432</i>	-Oil pipeline directional indicator.	36° 10.9' N 5° 24.5' W	<b>Fl.(4)Y.</b> period 15s	49 15	3	SPECIAL Y, post, "X" topmark; 36.	
4172 <i>D 2431.6</i>	-CEPSA TERMINAL LANBY.	36° 09.9' N 5° 24.9' W	<b>Fl.(4)Y.</b> period 15s		5	SPECIAL Y, superbuoy, "X" topmark; 20.	Marks end of underwater pipeline. Floating hose extends to a radius of 70m. <b>Radar reflector.</b>
4180 <i>D 2434.4</i>	--Extremity of W. arm.	36° 10.6' N 5° 24.2' W	<b>Fl.(3)G.</b> period 10s	39 12	5	Green cylindrical tower; 30.	
4184 <i>D 2434.2</i>	--Extremity of E. arm.	36° 10.7' N 5° 23.6' W	<b>Fl.(2)R.</b> period 10s	39 12	5	Red column; 30.	
4204 <i>D 2436.6</i>	-Atragues de Aljibes, W. dolphin.	36° 10.7' N 5° 23.4' W	<b>Fl.G.</b> period 5s fl. 0.4s, ec. 4.6s	19 6	3	Green Post; 3.	
4208 <i>D 2436.7</i>	--E. dolphin.	36° 10.6' N 5° 23.1' W	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	19 6	3	Metal post; 3.	
GIBRALTAR (U.K.):							
4214 <i>D 2436.81</i>	-Muelle de San Felipe, spur.	36° 09.6' N 5° 21.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	3	PORT (A) R, column, topmark; 10.	Synchronized with 4216.
4214.5 <i>D 2436.75</i>	-Muelle de Crinavis.	36° 10.2' N 5° 22.9' W	<b>Q.(3)G.</b> period 9s	20 6	3	STARBOARD (A) G, post, topmark; 10.	
4214.6 <i>D 2436.74</i>	--N.	36° 10.2' N 5° 22.9' W	<b>Q.G.</b>	13 4	3	Green post, green triangular topmark; 7.	
4214.7 <i>D 2436.78</i>	--New esplanade, elbow.	36° 09.8' N 5° 22.5' W	<b>Q.G.</b>	20 6	3	Green post; 10.	
4215 <i>D 2437.05</i>	-Puerto Deportivo de la Alcaidesa, N. corner.	36° 09.6' N 5° 21.5' W	<b>Fl.(2+1)R.</b> period 14.5s	16 5	1	Red round column, green band; 10.	
4215.1 <i>D 2437.055</i>	--S. corner.	36° 09.5' N 5° 21.5' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red column; 10.	
4215.2 <i>D 2437.075</i>	-Central pier, head.	36° 09.5' N 5° 21.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green round column; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>STRAIT OF GIBRALTAR-NORTH SIDE</b>							
4215.3 <i>D 2437.08</i>	-Dique de Capitanía, head.	36° 09.5' N 5° 21.6' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Green post; 10.	
4216 <i>D 2436.8</i>	-Mole de Abrigo de La Lines, head.	36° 09.5' N 5° 22.0' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	5	STARBOARD (A) G, post, topmark; 10.	
4220 <i>D 2438</i>	<b>-Europa Point.</b>	36° 06.6' N 5° 20.7' W	<b>Iso.W.</b> period 10s	161 49	18	White round tower, red band; 62.	Visible 197°-125°.
4224 <i>D 2442</i>	-S. Mole, A head.	36° 08.0' N 5° 21.9' W	<b>Fl.W.</b> period 2s fl. 0.1s, ec. 1.9s	33 10	5	White column; 23.	<b>Horn:</b> 1 bl. ev. 10s (bl. 2s, si. 8s).
4228 <i>D 2445</i>	-Detached mole, B head.	36° 08.1' N 5° 21.8' W	<b>Q.R.</b>	29 9	5	Metal structure, concrete building; 36.	
4232 <i>D 2446</i>	--C head.	36° 08.5' N 5° 22.0' W	<b>Q.G.</b>	33 10	5	Metal structure, concrete building; 36.	
4236 <i>D 2448</i>	-N. mole, D head.	36° 08.6' N 5° 21.9' W	<b>Q.R.</b>	60 18	5	Black octagonal framework tower; 56.	
4238 <i>D 2448.5</i>	--E Head.	36° 09.0' N 5° 22.0' W	<b>Q.G.</b>	20 6	5		
4241.4 <i>D 2449.3</i>	-Airport runway, NW corner.	36° 09.1' N 5° 21.6' W	<b>V.Q.W.</b>		9		Daytime range 1M.
4241.5 <i>D 2449.4</i>	--SW corner.	36° 09.0' N 5° 21.6' W	<b>V.Q.W.</b>		9		Daytime range 1M.
4241.6 <i>D 2449.5</i>	--N. jetty.	36° 09.1' N 5° 21.4' W	<b>F.G.</b>				Private light.
4241.7 <i>D 2449.6</i>	--S. jetty.	36° 09.0' N 5° 21.4' W	<b>F.R.</b>				Private light.
4242 <i>D 2451.5</i>	-New camp jetty.	36° 08.4' N 5° 21.5' W	<b>2 F.G.</b> (vert.)			Mast.	
4244 <i>D 2450.7</i>	-Coaling Island.	36° 08.2' N 5° 21.4' W	<b>2 F.R.</b> (vert.)	16 5			1 meter apart.
4256 <i>D 2456</i>	-AVIATION LIGHT.	36° 08.6' N 5° 20.6' W	<b>Mo.(GB)R.</b> period 10s	1329 405	30		

# Section 4

## Mediterranean Coast of Spain Including Balearic Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
4264 <i>E 0008</i>	Dique de Abrigo, entrance.	36° 10.7' N 5° 19.9' W	<b>Fl.(3)G.</b> period 9s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 4.7s	36 11	5	Green post; 16.	
4264.1 <i>E 0008.2</i>	--Elbow.	36° 10.8' N 5° 19.9' W	<b>Q.(3)W.</b> period 10s	30 9	3	E. CARDINAL BYB, post, topmark; 10.	
4264.2 <i>E 0008.57</i>	--Extremity.	36° 10.8' N 5° 20.0' W	<b>Fl.(3)R.</b> period 9s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 4.7s	13 4	3	Red post, red square topmark; 10.	
4266 <i>E 0012</i>	Punta Carbonera.	36° 14.7' N 5° 18.1' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	128 39	14	White cylindrical tower; 46.	
4268 <i>E 0018</i>	La Duquesa, Marina de Manilva, E. dike, head.	36° 21.2' N 5° 13.7' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	5	Green truncated conical tower; 10.	
4272 <i>E 0018.3</i>	-Dike, N. point.	36° 21.4' N 5° 13.6' W	<b>Q.(3)W.</b> period 10s	22 7	5	E. CARDINAL BYB, post, topmark; 20.	
4276 <i>E 0018.41</i>	-Breakwater, head.	36° 21.3' N 5° 13.8' W	<b>Fl.R.</b> period 5s	23 7	3	Cylindrical post; 16.	
4280 <i>E 0020</i>	<b>Punta de la Doncella.</b>	36° 25.0' N 5° 09.3' W	<b>Fl.(1+2)W.</b> period 15s fl. 0.4s, ec. 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 6s	105 32	18	Octagonal masonry tower, white dwelling; 82.	
4282 <i>E 0022</i>	Estepona, Dique de Abrigo, extension, head.	36° 24.7' N 5° 09.4' W	<b>Q.(6)+L.Fl.W.</b> period 15s	26 8	5	S. CARDINAL YB, tower, topmark; 20.	
4284 <i>E 0022.2</i>	Estepona, Dique de Levante, 140 meters from head.	36° 24.7' N 5° 09.5' W	<b>Fl.G.</b> period 5s	30 9	5	Green mast; 23.	
4288 <i>E 0024</i>	-Dique de Poniente.	36° 24.8' N 5° 09.5' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	White truncated conical tower, red band; 20.	
4292 <i>E 0031</i>	-Dique de Benabola, elbow.	36° 29.1' N 4° 57.2' W	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	3	Truncated conical masonry tower, red lantern; 13.	
4296 <i>E 0032</i>	-Dique de Levante, S. head.	36° 29.0' N 4° 57.3' W	<b>Fl.(3)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	42 13	5	Truncated conical masonry tower, green lantern; 30.	<b>Siren:</b> 1 bl. ev. 60s (bl. 5s, si. 55s).
4300 <i>E 0032.2</i>	--N. head.	36° 29.4' N 4° 56.9' W	<b>Q.(6)+L.Fl.W.</b> period 15s	33 10	4	S. CARDINAL YB, post, topmark; 20.	
4304 <i>E 0056</i>	<b>Marbella.</b>	36° 30.5' N 4° 53.4' W	<b>Fl.(2)W.</b> period 14.5s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 10.5s	115 35	22	White cylindrical tower; 95.	
4312 <i>E 0057.6</i>	Cabo Pino, marina.	36° 29.0' N 4° 44.4' W	<b>3.FR.(vert)</b> period 10s	23 7	4	White cylindrical tower; 13.	
4320 <i>E 0058</i>	<b>Punta Calaburras AVIATION LIGHT.</b>	36° 30.4' N 4° 38.4' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	151 46	18	Truncated conical masonry tower; 83.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
PUERTO DE BENALMADENA:							
4324 E 0060.5	-S. breakwater, NE. head.	36° 35.9' N 4° 30.5' W	<b>Q.(3)W.</b> period 10s	30 9	4	E. CARDINAL BYB, tower, topmark; 16.	
4328 E 0060.4	--SW. head.	36° 35.6' N 4° 30.8' W	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	30 9	5	Conical masonry tower, green band; 16.	
4332 E 0060.6	-Inner harbor, end.	36° 35.6' N 4° 30.7' W	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	13 4	3	White conical masonry tower, red band; 7.	
4334 E 0060.3	-Laja Bermeja.	36° 35.4' N 4° 30.9' W	<b>Q.(3)W.</b> period 10s	23 7	5	E. CARDINAL BYB, post, topmark; 23.	
4336 E 0060.7	-S. breakwater, N. end of T- head.	36° 35.6' N 4° 36.7' W	<b>Fl.(3)G.</b> period 10s	13 4	4	White conical masonry tower, green band; 7.	
FUENGIROLA:							
4339 E 0058.5	-Pier, head.	36° 32.7' N 4° 36.8' W	<b>Fl.(3)G.</b>	16 5	3	Green post; 13.	
4340 E 0059	-Breakwater, head.	36° 32.6' N 4° 36.8' W	<b>Fl.(3)R.</b>	33 10	5	Red truncated pyramidal tower; 13.	
4341 E 0059.4	-End.	36° 32.5' N 4° 36.9' W	<b>Fl.G.</b>	20 6	3	Green truncated pyramidal tower; 13.	
4346 E 0060.8	Offshore terminal.	36° 39.5' N 4° 26.6' W	<b>V.Q.(3)W.</b> period 5s	62 19	3	E. CARDINAL BYB, tower, topmark; 39.	
MALAGA:							
4348 E 0061	-Power station wharf.	36° 40.9' N 4° 26.5' W	<b>Q.(3)W.</b> period 10s	36 11	3	E. CARDINAL BYB, post, topmark; 26.	
4360 E 0062	<b>-Malaga.</b>	36° 42.8' N 4° 24.9' W	<b>Fl.(3+1)W.</b> period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s fl. 0.2s, ec. 7.3s	125 38	25	White cylindrical tower, white dwelling; 120.	Visible 243°-047°. <b>AIS</b> (MMSI No 992242002).
4364 E 0064	--Head.	36° 42.4' N 4° 24.9' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Truncated conical tower; 13.	Visible 000°-200°.
4366 E 0064.5	-NE. Marina.	36° 42.5' N 4° 24.7' W	<b>Q.R.</b>	39 12	3	Red cylindrical tower; 7.	Q.R. & Q.G. mark entrance.
4366.5 E 0065	-SE. breakwater, head.	36° 41.9' N 4° 24.9' W	<b>Fl. G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green post; 13.	
4367 E 0065.3	-Rio Guadalmedina.	36° 42.1' N 4° 25.6' W	<b>Q.(6)+L.Fl.W.</b> period 15s		3	Truncated conical masonry tower.	
4367.2 E 0065.7	--E. end.	36° 42.1' N 4° 25.1' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s		5	Red truncated pyramidal tower; 16.	
4368 E 0066	-W. breakwater, head.	36° 42.5' N 4° 25.2' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	42 13	4	Truncated conical tower, red top; 26.	
4370 E 0069	-Small craft harbor, N. dike, head.	36° 42.9' N 4° 25.0' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	2	Red post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
4371 E 0069.2	--S. dike, head.	36° 42.8' N 4° 25.0' W	<b>Fl.(3)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	19 6	2	Green post; 13.	
4371.5 E 0069.4	-Muelle Canovas del Castillo.	36° 42.9' N 4° 25.1' W	<b>Fl.(2+1)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	20 6	2	Truncated conical masonry tower, green top; 13.	
4372 E 0067.5	-Fishing Basin in outer habor, N. spur mole, head.	36° 42.6' N 4° 25.2' W	<b>Q.G.</b>	16 5	2	Truncated conical masonry tower; 13.	
4376 E 0067	--S. spur mole, head.	36° 42.6' N 4° 25.2' W	<b>Q.R.</b>	13 4	2	Truncated conical masonry tower; 10.	
4380 E 0068	-E. inner mole, head.	36° 42.7' N 4° 25.0' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	2	Truncated conical masonry tower; 16.	
4384 E 0070	-W. transversal mole, SE. corner.	36° 42.7' N 4° 25.0' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	2	Truncated conical masonry tower, red top; 16.	
4384.5 E 0070.2	-Romero Robledo, mole, NE. corner.	36° 42.7' N 4° 25.0' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	2	Truncated conical masonry tower, red top.	
4390 E 0071	Puerto de El Candado entrance, S.	36° 42.9' N 4° 20.8' W	<b>L.Fl.G.</b> period 8s fl. 4s, ec. 4s	23 7	3	Truncated pyramidal masonry tower, green top; 16.	
4390.2 E 0071.2	-N.	36° 42.9' N 4° 20.8' W	<b>L.Fl.R.</b> period 8s fl. 4s, ec. 4s	23 7	3	Truncated pyramidal masonry tower, red top; 16.	
4392 E 0072	Torre del Mar.	36° 44.1' N 4° 05.8' W	<b>Fl.(1+2)W.</b> period 10s fl. 1s, ec. 3s fl. 1s, ec. 1s fl. 1s, ec. 3s	98 30	13	White cylindrical tower; 92.	Storm signals.
4396 E 0073.2	-Outer breakwater, head.	36° 44.8' N 4° 04.3' W	<b>Fl.G.</b> period 5s	29 9	5	White and green truncated conical tower; 13.	
4402 E 0073.7	-Silt retention dike, head.	36° 44.9' N 4° 04.4' W	<b>Fl.R.</b> period 4s	26 8	3	Red truncated pyramidal tower; 13.	
4404 E 0073.6	-Inner breakwater, head.	36° 44.9' N 4° 04.1' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	White and red cylindrical round tower; 7.	
4408 E 0074	<b>Punta de Torrox.</b>	36° 43.6' N 3° 57.4' W	<b>Fl.(4)W.</b> period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	95 29	20	White cylindrical tower, white building; 75.	
4409 E 0075	Puerto de la Mona.	36° 43.7' N 3° 43.5' W	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	43 13	4	Red truncated conical tower, red diamond daymark; 16.	
4410 E 0075.2	-Contradike.	36° 43.5' N 3° 43.5' W	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	3	STARBOARD (A) G, tower, topmark; 10.	
4411 E 0074.8	<b>Punta de la Mona.</b>	36° 43.4' N 3° 43.9' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	459 140	15	Truncated conical masonry tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
4411.5 E 0077	Motril, Dique de Poniente, head.	36° 42.8' N 3° 31.0' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	36 11	7	Red truncated conical tower; 16.	
4420 E 0080	<b>Cabo Sacratif.</b>	36° 41.7' N 3° 28.2' W	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	320 98	25	White truncated conical tower, white dwelling; 56.	
4422 E 0082	Punta del Melonar.	36° 43.1' N 3° 22.1' W	<b>Fl.(3)W.</b> period 13s	778 237	14	Truncated conical masonry tower; 39.	
4424 E 0088	<b>Adra.</b>	36° 44.9' N 3° 01.9' W	<b>Oc.(3)W.</b> period 10.5s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s	161 49	16	White cylindrical tower, red bands; 85.	
4428 E 0088.4	-On W. mole, head.	36° 44.5' N 3° 01.2' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	27 8	4	Red truncated conical tower.	Fl.G. 5s shown on head of E. mole.
4430 E 0089.5	Punta de los Bunos.	36° 41.8' N 2° 50.9' W	<b>Fl.(4)W.</b> period 11s	72 22	11	White rectangular tower; 69.	
4432 E 0091	Alerimar, S. breakwater, head.	36° 41.8' N 2° 47.8' W	<b>Fl.(4)G.</b> period 21s	43 13	5	Green four-sided tower.	
4437 E 0091.6	--Jetty No 1, head.	36° 42.0' N 2° 47.9' W	<b>Fl.(4)R.</b> period 11s	16 5	3	Red post; 10.	
4440 E 0090	<b>Punta Sabinal.</b>	36° 41.2' N 2° 42.1' W	<b>Fl.(1+2)W.</b> period 10s fl. 0.4s, ec. 3.9s fl. 0.4s, ec. 1s fl. 0.4s, ec. 3.9s	112 34	16	Cylindrical masonry tower, white dwelling; 105.	
4444 E 0092	Roquetas de Mar, S. mole, head.	36° 45.5' N 2° 36.2' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red cylindrical tower; 13.	
4448 E 0092.4	-Dique Norte, head.	36° 45.4' N 2° 36.2' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Green cylindrical tower, green four-sided base; 10.	
4452 E 0093	<b>Almeria.</b>	36° 49.7' N 2° 29.5' W	<b>Fl.(2)W.</b> period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 9.7s	253 77	19	White four-sided tower, black stripe; 23.	Reserve light range 11M.
4460 E 0094	--Dique del Oeste, head.	36° 49.8' N 2° 29.1' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	3	Red truncated conical tower; 16.	
4461 E 0095.65	-Muelle de Pechina, SE. end.	36° 49.8' N 2° 28.7' W	<b>Q.G.</b>	23 7	3	Green post; 10.	Synchronized with 4461.1.
4461.1 E 0095.6	--NW. end.	36° 49.9' N 2° 28.9' W	<b>Q.G.</b>	23 7	3	Green post; 10.	Synchronized with 4461.
4464 E 0096	-W. breakwater, head.	36° 49.6' N 2° 27.9' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	62 19	7	White octagonal tower, red top; 39.	F.R. shown adjacent to pilot house and on pier. Once inside, range marks middle of port.
4468 E 0099	-Muelle de Poniente, SE. corner.	36° 49.8' N 2° 28.3' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red column; 10.	
4472 E 0098	-E. breakwater, head.	36° 49.8' N 2° 28.0' W	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 4	2	Green column, red band; 3.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
4476 E 0102	-Ore Wharf No 2, head.	36° 49.7' N 2° 27.6' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	25 8	4	Metal framework tower; 10.	
4484 E 0103	-Power station wharf.	36° 49.2' N 2° 26.7' W	<b>V.Q.(9)W.</b> period 10s	35 11	5	W. CARDINAL YBY, tower, topmark; 30.	
4488	-Punta del Rio Buoy.	36° 48.4' N 2° 25.8' W	<b>Q.(6)+L.Fl.W.</b> period 15s			S. CARDINAL YB, buoy, topmark.	
4492 E 0106	<b>Cabo de Gata.</b>	36° 43.3' N 2° 11.6' W	<b>Fl.W.R.</b> period 4s fl. 0.2s, ec. 3.8s	180 55	W. 24 R. 20	White cylindrical tower, dwelling; 62.	R. 316°-356°, W.-316°. <b>Horn:</b> Mo.(G) ev. 40s (bl. 4.5s, si. 2s, bl. 4.5s, si. 2s, bl. 1.5s, si. 25.5s).
4495 E 0107.7	Punta de la Polacra.	36° 50.5' N 2° 00.2' W	<b>Fl.(3)W.</b> period 14s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	922 261	14	Masonry truncated conical tower; 45.	
4496 E 0108	<b>Mesa Roldan.</b>	36° 56.5' N 1° 54.4' W	<b>Fl.(4)W.</b> period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	728 222	23	White octagonal tower, white building; 59.	
4500 E 0109	Puerto de Carboneras, Playa de la Torre Vieja, S. breakwater, head.	36° 57.8' N 1° 53.7' W	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	5	Green cylindrical tower; 10.	
4504 E 0109.2	--S. breakwater, elbow.	36° 58.1' N 1° 53.8' W	<b>Q.(3)W.</b> period 10s	39 12	3	E. CARDINAL BYB, tower, topmark; 10.	
4506 E 0109.4	--N. breakwater, head.	36° 58.4' N 1° 53.6' W	<b>Fl.G.</b> period 10s fl. 1s, ec. 9s	46 14	5	Green post; 13.	
4508 E 0109.3	--W. jetty.	36° 57.8' N 1° 53.9' W	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	23 7	3	Red cylindrical tower; 10.	
4510 E 0109.6	-Puerto Pesquero.	36° 59.3' N 1° 53.8' W	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	33 10	5	Green hexagonal tower; 20.	Fl.R. 4s marks breakwater close N.
4511 E 0109.7	--W. jetty.	36° 59.4' N 1° 53.9' W	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	26 8	3	Red hexagonal tower; 20.	
4512 E 0110	Garrucha.	37° 10.4' N 1° 49.4' W	<b>Oc.(4)W.</b> period 13s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s	62 19	13	White cylindrical tower, white building; 33.	
4516 E 0111	-Dique de Levante.	37° 10.7' N 1° 49.0' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green cylindrical tower; 36.	E. cardinal beacon Q.(3)W. 10s 4m 4M marks submerged groin 300 meters WSW.
4520 E 0112	-Dique de Poniente, 201 meters 336° from Dique de Lavante.	37° 11.0' N 1° 49.1' W	<b>Fl.(4)R.</b>	21 6	1	Red truncated conical tower; 10.	
4522 E 0113	Esperanza Cove.	37° 15.0' N 1° 46.0' W	<b>Q.(2)G.</b> period 6s	26 8	5	Green truncated pyramidal tower; 10.	
4524 E 0114	Aguilas, on Punta Negra, W. of the port.	37° 24.1' N 1° 34.7' W	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	99 30	13	White cylindrical tower, black bands; 75.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
4528 <i>E 0116</i>	-Near mole, head.	37° 24.2' N 1° 34.4' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red post; 16.	
4532 <i>E 0117.5</i>	-Islote de la Aguilica.	37° 24.2' N 1° 34.0' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	62 19	3	White four-sided column.	
4536 <i>E 0120</i>	<b>Mazarron.</b>	37° 33.6' N 1° 15.3' W	<b>Oc.(1+2)W.</b> period 13.5s lt. 1.5s, ec. 1s lt. 4.5s, ec. 1s lt. 4.5s, ec. 1s	213 65	15	White cylindrical tower, dwelling; 36.	Reserve light range 8M.
4540 <i>E 0120.6</i>	-Breakwater, head.	37° 33.9' N 1° 15.3' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red post; 10.	
4541 <i>E 0120.7</i>	-La Galerica Island.	37° 34.0' N 1° 15.3' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Metal framework tower, green square daymark, base; 23.	
4548 <i>E 0124</i>	<b>Cabo Tinoso.</b>	37° 32.1' N 1° 06.5' W	<b>Fl.(1+3)W.</b> period 20s fl. 0.2s, ec. 6.4s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 6.4s	479 146	24	White cylindrical tower; 33.	
ALGAMECA GRANDE:							
4552 <i>E 0125</i>	-Breakwater, head.	37° 35.0' N 1° 00.3' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	7	White and yellow truncated conical tower; 16.	
4556 <i>E 0125.3</i>	-On point, about 201 meters NE. of breakwater.	37° 35.1' N 1° 00.3' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	White and yellow truncated conical tower; 16.	
4560 <i>E 0125.6</i>	-Mole, about 284 meters NW. of breakwater.	37° 35.1' N 1° 00.5' W	<b>Fl.G.</b>	23 7	2	Gray post; 13.	Occasional.
CARTAGENA:							
4564 <i>E 0126</i>	<b>-Islote Escombrera.</b>	37° 33.5' N 0° 58.2' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	213 65	17	White cylindrical tower, white dwelling; 26.	
4564.1 <i>E 0126.025</i>	--SW. canal breakwater, SE head.	37° 33.6' N 0° 58.0' W	<b>3 F.R.</b> (vert.)	26 8	1	Red cylindrical post; 16.	
4564.2 <i>E 0126.02</i>	---SW. head.	37° 33.6' N 0° 58.3' W	<b>3 F.R.</b> (vert.)	26 8	1	Red cylindrical post; 16.	
-Puerto de Escombreras:							
4566 <i>E 0126.1</i>	--Dique Suroeste, head.	37° 34.0' N 0° 58.8' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	10	Green and white tower; 23.	
4567 <i>E 0126.15</i>	--Outer dock, dolphin, head.	37° 34.1' N 0° 58.4' W	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	5	SPECIAL Y, post, "X" topmark; 10.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
4568 <i>E 0126.2</i>	--Bastarreche, mole, head.	37° 34.2' N 0° 58.0' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green and white truncated pyramidal tower; 23.	Visible 075°-319°. <b>Radar reflector.</b>
4569 <i>E 0126.4</i>	--Pantalan Metaneros, E end.	37° 34.4' N 0° 57.8' W	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	1	Red post; 3.	
4570 <i>E 0126.81</i>	--Muelle de Masse.	37° 33.8' N 0° 57.6' W	<b>Dir.W.R.G.</b> period 4s fl. 3s, ec. 1s	43 13	3	White tower; 33.	Oc.G.129°-134°, Oc.W.-144°, Oc.R.-158°30'.
4571 <i>E 0127</i>	--Bajo de Las Losas.	37° 34.5' N 0° 58.5' W	<b>V.Q.(6)+L.FI.W.</b> period 10s	16 5	5	S. CARDINAL YB, tower, topmark; 16.	<b>Radar reflector.</b>
4576.5 <i>E 0126.5</i>	--Muelle Pantalou, on dolphin.	37° 34.1' N 0° 57.6' W	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	3	Red column, green band; 10.	
4576.75 <i>E 0126.65</i>	--Punta de los Parales, SW. head.	37° 34.0' N 0° 57.2' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green column; 13.	
4576.8 <i>E 0126.64</i>	--Muelle de Isaac Peral, SE. corner.	37° 34.1' N 0° 57.1' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	1	Red column; 10.	
4577 <i>E 0126.7</i>	--Muelle Principe Felipe.	37° 34.2' N 0° 57.5' W	<b>Fl.(4)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	1	Red post; 10.	
4577.4 <i>E 0126.8</i>	---Atraque Oeste, NW. corner.	37° 34.3' N 0° 57.6' W	<b>Dir.W.R.G.</b> period 4s	46 14	5	White tower; 36.	Iso.G.084°-087°, Iso.W. - 089°, Iso.R.-094°.
4577.5 <i>E 0126.75</i>	----On dolphin.	37° 34.3' N 0° 57.6' W	<b>Fl.(2+1)G.</b> period 16s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 9s	23 7	1	Green post, red band; 10.	
4588 <i>E 0128</i>	-Dique de Navidad (Oestre), head.	37° 35.1' N 0° 59.1' W	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	10	White cylindrical tower, red top; 36.	
4590 <i>E 0130.2</i>	-Espalmador, floating breakwater, head.	37° 35.3' N 0° 59.2' W	<b>Q.R.</b>		1	Red column.	
4592 <i>E 0130</i>	-Dique de la Curra (Este).	37° 35.3' N 0° 59.0' W	<b>Fl.(3)G.</b> period 14s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	45 14	5	White cylindrical tower, green band; 36.	
4593 <i>E 0130.5</i>	-Muelle del Carbon.	37° 35.4' N 0° 59.2' W	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Red post, green band; 16.	
4594 <i>E 0131</i>	-Yacht club, W. end.	37° 35.8' N 0° 59.3' W	<b>Oc.G.</b> period 3s	16 5	1	Green post; 16.	
4594.2 <i>E 0131.2</i>	-Marina, outer breakwater.	37° 35.8' N 0° 59.1' W	<b>Q.G.</b>	16 5	1	Green column; 13.	
4594.4 <i>E 0131.3</i>	--SE. corner.	37° 35.7' N 0° 58.7' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	3	Red cylindrical post.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
4595 <i>E 0132</i>	-Dique-muelle de Santiago, head.	37° 35.8' N 0° 58.5' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red post; 10.	
4595.5 <i>E 0132.2</i>	-Muelle de talleres, NW. corner.	37° 35.8' N 0° 58.5' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	1	Green post; 10.	
4595.75 <i>E 0132.5</i>	-Dique de Alba.	37° 35.8' N 0° 58.5' W	<b>Fl.(2+1)G.</b> period 16s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 9s	16 5	1	Green column, red band; 10.	
4596 <i>E 0134</i>	Puerto de Portman, Punta de la Chapa.	37° 34.7' N 0° 50.5' W	<b>Oc.W.</b> period 3.5s lt. 2.5s, ec. 1s	161 49	13	White cylindrical tower, aluminum cupola, dwelling; 26.	Visible over an arc of 270°.
4600 <i>E 0136.8</i>	<b>Cabo de Palos.</b>	37° 38.1' N 0° 41.4' W	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	266 81	23	Cylindrical tower, building; 138.	
PUERTO DE CABO DE PALOS:							
4604 <i>E 0137</i>	-Cala Auellan, mole.	37° 37.9' N 0° 42.0' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	5	Green cylindrical post; 10.	
4608 <i>E 0137.3</i>	-Dique de Abrigo, off head.	37° 37.9' N 0° 42.0' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red cylindrical post; 10.	
4611 <i>E 0140.8</i>	Mar Menor, pier, end.	37° 38.7' N 0° 45.7' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	5	Red cylindrical column; 10.	
4611.5 <i>E 0140.851</i>	-Yacht Club, breakwater.	37° 38.9' N 0° 46.1' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red cylindrical column; 10.	
4611.7 <i>E 0140.9</i>	-Los Nietos, breakwater, end.	37° 39.2' N 0° 47.1' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Red cylindrical column; 16.	
4616 <i>E 0138</i>	Isla Hormiga.	37° 39.3' N 0° 39.0' W	<b>Fl.(3)W.</b> period 14s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 7.2s	79 24	8	White cylindrical tower, white building; 39.	
4624 <i>E 0140</i>	El Estacio.	37° 44.7' N 0° 43.6' W	<b>Fl.(4)W.</b> period 20s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 8s	105 32	14	White cylindrical tower, black bands; 95.	Fl.W. 2.5s light shown SSE.
4624.5 <i>E 0140.2</i>	Puerto Tomas Maestre, head.	37° 44.4' N 0° 43.3' W	<b>V.Q.(3)W.</b> period 5s	23 7	3	E. CARDINAL BYB, column, topmark; 16.	
4628 <i>E 0139</i>	Isla Grosa, peak.	37° 43.6' N 0° 42.4' W	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	318 97	5	White cylindrical tower; 7.	
4632 <i>E 0141</i>	San Javier AVIATION LIGHT.	37° 47.2' N 0° 48.2' W	<b>Fl.W.</b> period 6s			Control tower.	Occasional.

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<b>SPAIN-MEDITERRANEAN SEA</b>							
4636 <i>E 0141.5</i>	San Pedro del Pinatar, N. dique, head.	37° 49.3' N 0° 45.0' W	<b>Fl.(4)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	5	Green cylindrical post; 10.	Fl.(4)R. 12s 6m 3M marks head of S. dique.
ALICANTE:							
4639 <i>E 0144</i>	Campoamor Yacht Club, E. jetty, head.	37° 53.9' N 0° 44.8' W	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	5	White post, green bands; 20.	
4639.1 <i>E 0144.2</i>	-W. jetty, head.	37° 54.0' N 0° 44.9' W	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	White post, red bands; 20.	
4640 <i>E 0146</i>	Torreveija, E. breakwater, head.	37° 57.9' N 0° 41.2' W	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	49 15	7	Octagonal concrete tower; 33.	
4644 <i>E 0146.2</i>	-W. breakwater, about 229 meters NW. of Torreveija, head.	37° 58.0' N 0° 41.3' W	<b>Fl.(3)R.</b> period 11.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	36 11	3	Red and white octagonal tower; 20.	
4645 <i>E 0146.4</i>	-Fishing Port, breakwater, head.	37° 58.4' N 0° 40.9' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	2	Green post; 10.	
4646 <i>E 0146.6</i>	-Yacht Club jetty, E. head.	37° 58.4' N 0° 40.9' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	2	Red post; 10.	
4648 <i>E 0147</i>	<b>Guardamar.</b>	38° 04.3' N 0° 39.9' W	<b>Oc.R.</b> period 1.5s lt. 1s, ec. 3s	1453 443	15	White radio tower, red bands.	On the same tower 7 groups of F.R. horizontal lights, spaced 45 meters apart from top, are shown.
4650 <i>E 0147.5</i>	Rio Segura, directional dam, S. end.	38° 06.7' N 0° 38.3' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red octagonal tower; 16.	Fl.(3)G. 148 meters NW.
4652 <i>E 0148</i>	<b>Isla Tabarca (Plana).</b>	38° 09.8' N 0° 28.3' W	<b>L.Fl.W.</b> period 8s fl. 2s, ec. 6s	95 29	15	Four-sided tower, white dwelling; 46.	
4656 <i>E 0149</i>	-Breakwater, NE. side of island, head.	38° 10.1' N 0° 28.7' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	Red post; 13.	
4664 <i>E 0152</i>	<b>Cabo Santa Pola.</b>	38° 12.6' N 0° 30.8' W	<b>Fl.(2+1)W.</b> period 20s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8.4s fl. 0.2s, ec. 8.4s	498 152	16	White four-sided tower, white building; 49.	
4668 <i>E 0154</i>	-Muelle de Santa Pola.	38° 11.1' N 0° 33.8' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	5	White and green octagonal tower; 26.	
4672 <i>E 0155</i>	-Contradique, extremity.	38° 11.2' N 0° 33.8' W	<b>Q.(2)R.</b> period 5.3s	26 8	3	Red and white octagonal tower; 16.	
4676 <i>E 0157</i>	-Alicante AVIATION LIGHT.	38° 17.2' N 0° 33.8' W	<b>Al.Fl.W.G.</b> period 4.3s	193 59		Metal framework tower.	
4680 <i>E 0158</i>	-Outer breakwater, head.	38° 19.7' N 0° 29.4' W	<b>Fl.G.</b> period 5s fl. 1.5s, ec. 3.5s	46 14	10	Green framework tower, green cupola; 30.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
4682.5 <i>E 0158.6</i>	--NE. corner.	38° 19.8' N 0° 29.5' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red cylindrical tower, white base; 20.	
4684 <i>E 0161</i>	-E. mole, head.	38° 20.3' N 0° 28.9' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Green cylindrical tower, white base; 20.	
4688 <i>E 0162</i>	-SE. corner of W. mole.	38° 20.3' N 0° 29.0' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	3	Red cylindrical tower, white base; 20.	
4692 <i>E 0159</i>	-Fishing Harbor, mole, elbow.	38° 19.9' N 0° 29.4' W	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Red cylindrical tower, green band; 20.	
4696 <i>E 0159.3</i>	--Muelle II, mole, head.	38° 20.1' N 0° 29.2' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red cylindrical tower, white base; 20.	
4700 <i>E 0160</i>	--Muelle A, head.	38° 20.2' N 0° 29.1' W	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Red cylindrical tower, green band, white base; 20.	
4702 <i>E 0164</i>	Costa Blanca, pier, end.	38° 21.7' N 0° 26.4' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	3	Green and white cylindrical column; 10.	
4704 <i>E 0166</i>	Cabo de las Huertas.	38° 21.2' N 0° 24.3' W	<b>Fl.(5)W.</b> period 19s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	125 38	14	White cylindrical tower; 30.	
VILLAJOSYA:							
4708 <i>E 0168</i>	-Dique de Levante, head.	38° 30.3' N 0° 13.2' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	46 14	5	White octagonal tower, green top, green base; 23.	
4713 <i>E 0168.5</i>	-Breakwater, head.	38° 30.4' N 0° 13.3' W	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	3	Red truncated conical tower, white base; 23.	
4716 <i>E 0172</i>	Islote de Benidorm.	38° 30.1' N 0° 07.8' W	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	197 60	6	Concrete truncated conical tower; 13.	
4720 <i>E 0172.5</i>	Puerto de Benidorm, Dique de Abrigo, head.	38° 32.0' N 0° 08.1' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	5	Green and white truncated conical tower; 10.	Visible 316°-254°.
4724 <i>E 0173.6</i>	<b>Punta Bombarda (Albir).</b>	38° 33.8' N 0° 03.0' W	<b>Fl.(3)W.</b> period 27s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 13.5s	367 112	15	White cylindrical tower, dwelling; 26.	
4728 <i>E 0174</i>	Altea, E. breakwater.	38° 35.2' N 0° 03.2' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Green octagonal tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
4732 E 0174.2	-W. breakwater.	38° 35.3' N 0° 03.3' W	<b>Fl.(2)R.</b> period 6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 3.6s	30 9	3	Red octagonal tower; 20.	
EL PORTET							
4732.5 E 0174.4	-Breakwater, head.	38° 36.8' N 0° 01.9' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green cylindrical tower, white base; 13.	
4732.75 E 0174.6	-Contradique, head.	38° 36.8' N 0° 01.9' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red cylindrical tower, white base; 13.	
4733 E 0174.92	Mascarat, S. breakwater, W. head.	38° 37.7' N 0° 00.3' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	White and green cylindrical tower; 20.	
4733.5 E 0174.93	-Outer breakwater, head.	38° 37.8' N 0° 00.2' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Red and white cylindrical tower; 20.	
4734 E 0174.9	-E. head.	38° 37.7' N 0° 00.0' E	<b>Q.(6)+L.Fl.W.</b> period 15s	33 10	3	Black and yellow cylindrical tower; 20.	
4736 E 0175.4	Calpe, S. breakwater.	38° 38.2' N 0° 04.0' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	43 13	5	Green and white truncated conical tower; 20.	
4740 E 0175.2	-W. breakwater.	38° 38.2' N 0° 04.2' E	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	26 8	3	Red truncated conical tower; 13.	
4741 E 0175.8	Cala Canaret.	38° 39.6' N 0° 05.1' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Red truncated conical tower, white base; 10.	
<b>SPAIN-ISLAS BALEARES</b>							
ISLA DE FORMENTERA:							
4744 E 0250	-Formentera.	38° 39.8' N 1° 35.1' E	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	466 142	23	White cylindrical tower, white dwelling; 72.	Visible 150°-050°.
4748 E 0251	-Cabo Berberia.	38° 38.5' N 1° 23.4' E	<b>Fl.(2)W.</b> period 15s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 12.8s	255 78	20	White cylindrical tower; 62.	Visible 234°-171°.
4752 E 0252	-Punta Cala Sabina.	38° 44.1' N 1° 24.9' E	<b>Fl.(4)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	43 13	7	White truncated conical tower; 36.	
4756 E 0253	-Puerto de La Sabina, breakwater, head.	38° 44.1' N 1° 25.1' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	36 11	3	STARBOARD (A) G, tower, topmark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-ISLAS BALEARES</b>							
4768 <i>E 0256</i>	Isla Espardell, N. point.	38° 48.3' N 1° 28.7' E	<b>Fl.(3)W.</b> period 7.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	121 37	8	Truncated conical tower, white cylindrical base; 52.	
4772 <i>E 0254</i>	Los Puercos (Pou), on islet, S. side of channel between Formentera and Ibiza.	38° 47.9' N 1° 25.3' E	<b>Fl.(3+1)W.</b> period 20s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s fl. 0.8s, ec. 6.2s	92 28	10	White cylindrical tower, black bands; 82.	
4774 <i>E 0253.5</i>	Isla de Gastabi.	38° 46.5' N 1° 25.0' E	<b>Q.(9)W.</b> period 15s	39 12	4	W. CARDINAL YBY, beacon, topmark; 26.	
4776 <i>E 0258</i>	Bajo den Pou.	38° 48.3' N 1° 25.2' E	<b>Q.W.</b>	30 9	3	N. CARDINAL BY, beacon, topmark; 30.	
4780 <i>E 0260</i>	Isla de Ahorcados, S. extremity.	38° 48.9' N 1° 24.7' E	<b>Oc.(1+2)W.</b> period 14s lt. 1s, ec. 2s lt. 3.5s, ec. 2s lt. 3.5s, ec. 2s	89 27	10	White tower, black bands, white building; 56.	
ISLA DE IBIZA:							
4784 <i>E 0274</i>	<b>-Isla Conejera.</b>	38° 59.6' N 1° 12.8' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 14.7s	279 85	18	White cylindrical tower, white circular dwelling; 59.	
4788 <i>E 0276</i>	-Bleda Plana, on islet.	38° 58.8' N 1° 09.6' E	<b>Fl.(3)W.</b> period 15s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 7.8s	92 28	10	White cylindrical tower, white base; 26.	Visible 349°-239°.
4796 <i>E 0273</i>	--Punta Xinxo.	38° 58.4' N 1° 17.0' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	28 9	5	STARBOARD (A) G, column, topmark; 26.	Visible 075°-275°.
4796.4 <i>E 0273.3</i>	--Dique, head.	38° 58.6' N 1° 17.9' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	PORT (A) R, tower, topmark; 30.	
4799 <i>E 0267.8</i>	--Marina, outer breakwater.	38° 58.9' N 1° 32.3' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Green truncated pyramidal tower; 19.	
4800 <i>E 0268</i>	<b>-Isla de Tagomago.</b>	39° 02.0' N 1° 39.0' E	<b>Fl.(1+2)W.</b> period 30s fl. 0.3s, ec. 13.4s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 13.5s	282 86	21	White octagonal tower, building; 75.	
4804 <i>E 0270</i>	<b>-Punta Moscarte.</b>	39° 06.8' N 1° 31.8' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	305 93	18	White cylindrical tower, black diagonal stripes; 171.	Visible 074°-294°.
-Puerto de Ibiza:							
4808 <i>E 0264</i>	--Islote Botafoch, breakwater, root.	38° 54.2' N 1° 27.2' E	<b>Oc.W.R.</b> period 7s lt. 5s, ec. 2s	102 31	14	White cylindrical tower, white dwelling; 52.	W. 045°-034°, R.-045°, obscured by Isla Grossa. <b>Siren:</b> 2 bl. ev. 10s (bl. 2s, si. 2s, bl. 2s, si. 4s).
4809 <i>E 0263</i>	--Breakwater, head.	38° 54.2' N 1° 26.9' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	46 14	7	Green cylindrical column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-ISLAS BALEARES</b>							
4810.1 <i>E 0264.2</i>	--Muelle Botafoch, S. dock, dolphin.	38° 54.4' N 1° 27.0' E	<b>Fl.(4)Y.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	SPECIAL Y, post, "X" topmark, 3.	
4810.2 <i>E 0264.3</i>	--N. pier, head.	38° 54.5' N 1° 27.0' E	<b>Fl.(4)Y.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	SPECIAL Y, post, "X" topmark, 3.	
4811 <i>E 0262.5</i>	--Isla Negra del Este.	38° 54.2' N 1° 26.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	5	Red cylindrical tower, conical base; 13.	
4815 <i>E 0264.4</i>	--Marina d'es Botafoch.	38° 54.6' N 1° 27.0' E	<b>Fl.(2+1)G.</b> period 11s fl. 0.4s, ec. 0.8s fl. 0.4s, ec. 3s fl. 0.4s, ec. 6s	20 6	3	STARBOARD (A) G, structure, topmark; 10.	
4817 <i>E 0264.5</i>	--Breakwater, inner.	38° 54.6' N 1° 26.9' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	7 2	1	Red post; 3.	
4818 <i>E 0264.6</i>	--T-jetty, head.	38° 54.7' N 1° 26.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	7 2	1	Green post; 3.	
4820 <i>E 0265</i>	--Dique de Abrigo.	38° 54.6' N 1° 26.6' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	3	White truncated conical tower, red cupola; 36.	Obscured on bearings greater than 345°.
4821 <i>E 0265.6</i>	--Ibiza la Nueva, S. breakwater, head.	38° 54.8' N 1° 26.6' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green and white truncated pyramidal tower; 10.	
4821.5 <i>E 0265.8</i>	--W. breakwater, SE. pier, head.	38° 54.8' N 1° 26.6' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red and white post; 10.	
4822 <i>E 0265.9</i>	---Center.	38° 54.8' N 1° 26.6' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red and white truncated pyramidal tower; 10.	
4823 <i>E 0266.1</i>	--Ibiza Marina, entrance, E. side.	38° 54.8' N 1° 26.5' E	<b>Q.G.</b>	13 4	1	Green post, white band; 10.	
4823.1 <i>E 0266.3</i>	---W. side.	38° 54.8' N 1° 26.5' E	<b>Q.R.</b>	13 4	1	Red post, white band; 10.	
4824 <i>E 0266</i>	--Contramuelle, on SE. angle.	38° 54.7' N 1° 26.3' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red and white post, red square daymark; 13.	
4828 <i>E 0266.2</i>	--NW. angle.	38° 54.7' N 1° 26.3' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red and white post, red square daymark; 13.	
4840 <i>E 0267</i>	--Oil pier, near extremity.	38° 54.8' N 1° 26.4' E	<b>Fl.(2+1)G.</b> period 8s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4s	20 6	1	Green metal post, red band; 13.	Light is not at top of post.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-ISLAS BALEARES</b>							
4842 E 0267.2	--- SW. head.	38° 54.8' N 1° 26.3' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green metal post; 13.	Light is not at top of post.
4844 E 0262	-Islote Dado Grande.	38° 53.4' N 1° 27.1' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	43 13	5	ISOLATED DANGER BRB, tower, topmark; 10.	
4848 E 0278	-Islote Vedra, W. head.	38° 51.8' N 1° 11.4' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	69 21	11	Truncated conical tower; 10.	Visible 262°-134°.
ISLA DE CABRERA:							
4852 E 0338	-Punta Anciola.	39° 07.7' N 2° 55.3' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	396 121	20	Red and white checkered tower, white dwelling; 69.	Visible 277°30'-169°.
4856 E 0338.3	-Cabo Lebeche.	39° 09.7' N 2° 55.0' E	<b>Fl.(4)W.</b> period 14.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	243 74	7	Black and white checkered octagonal stone tower; 23.	
4860 E 0338.6	-Punta Creveta.	39° 09.3' N 2° 55.7' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	43 13	5	White octagonal tower, red square daymark; 16.	
4864 E 0339	-Puerto de Cabrera, mole, head.	39° 09.0' N 2° 56.0' E	<b>Fl.(2)R.</b> period 10.5s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 7.3s	15 5	5	Red cylindrical tower, white base; 13.	
4868 E 0340	Isla Horadada.	39° 12.4' N 2° 58.7' E	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 3s fl. 0.5s, ec. 8s	139 42	10	White cylindrical tower, black bands; 43.	
ISLA DE MALLORCA:							
4872 E 0314	-Cabo de Salinas, Mallorca, S. point.	39° 15.9' N 3° 03.2' E	<b>Fl.(2+1)W.</b> period 20s fl. 1s, ec. 2s fl. 1s, ec. 7.5s fl. 1s, ec. 7.5s	56 17	11	White cylindrical tower, white building; 56.	Visible 265°-116°.
4876 E 0314.4	-Puerto de Campos, pier, head.	39° 18.9' N 3° 00.0' E	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	15 5	3	Red cylindrical tower, white base; 16.	
4880 E 0314.6	--Contradique, head.	39° 19.0' N 2° 59.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	14 4	1	Green cylindrical tower, white base; 10.	
4884 E 0315	-Punta Puntasa.	39° 18.7' N 2° 59.6' E	<b>Fl.(3)W.</b> period 10.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s	59 18	7	White cylindrical tower, black bands; 39.	
4885 E 0314.2	-Isla de la Guardia.	39° 18.6' N 3° 00.0' E	<b>V.Q.(9)W.</b> period 10s	23 7	3	W. CARDINAL YBY, tower, topmark; 16.	
4887 E 0314.8	-Rapita, breakwater, head.	39° 21.6' N 2° 57.2' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	23 7	5	Red cylindrical tower; 19.	

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<b>SPAIN-ISLAS BALEARES</b>							
4888 <i>E 0315.8</i>	-Punta Plana.	39° 21.2' N 2° 54.8' E	<b>Fl.(1+3)W.</b> period 12s fl. 0.5s, ec. 3s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	52 16	7	White cylindrical tower, black bands; 39.	
4892 <i>E 0316</i>	<b>-Cabo Blanco.</b>	39° 21.8' N 2° 47.3' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	312 95	15	White cylindrical tower, white dwelling; 39.	Obscured beyond Archipelago de Cabrera 321°-336°. AIS (MMSI No 992241066).
4895 <i>E 0316.3</i>	-El Arenal, shelter dike, head.	39° 30.2' N 2° 44.8' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	White cylindrical tower, green band; 13.	
4895.1 <i>E 0316.35</i>	--Elbow.	39° 30.0' N 2° 44.8' E	<b>Q.(9)W.</b> period 15s	20 6	3	W. CARDINAL YBY, column, topmark; 7.	
4895.2 <i>E 0316.55</i>	--Outer breakwater, head.	39° 30.1' N 2° 44.9' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red post; 13.	
4895.5 <i>E 0316.6</i>	--Counterdike, head.	39° 30.7' N 2° 44.9' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	26 8	1	Red column post; 10.	
4896 <i>E 0316.4</i>	-Inner pier, NE. corner.	39° 30.2' N 2° 44.9' E	<b>Fl.(2+1)R.</b> period 11.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	16 5	1	Red column, green band; 23.	
4896.5 <i>E 0316.5</i>	--SW. corner.	39° 30.1' N 2° 44.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	13 4	1	Red cylindrical tower; 10.	
4900 <i>E 0316.7</i>	-L'an Pastilla, outer breakwater, head.	39° 31.9' N 2° 43.0' E	<b>Fl.(4)R.</b> period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	26 8	5	Red column, white base; 20.	
4901 <i>E 0316.72</i>	-E. breakwater, head.	39° 31.9' N 2° 43.0' E	<b>Fl.(4)G.</b> period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	20 6	3	Green column; 16.	
4902 <i>E 0316.74</i>	-Cala Gamba, entrance.	39° 32.8' N 2° 41.7' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	5	Red post; 10.	
4904 <i>E 0317</i>	-Cala d'en Rigo, 600 meters E. of Cala Portixol, E. jetty, head.	39° 33.5' N 2° 40.5' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green three-sided tower; 13.	
4908 <i>E 0317.2</i>	--W. jetty, head.	39° 33.5' N 2° 40.5' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red three-sided tower; 16.	
4912 <i>E 0316.8</i>	-Portixol, Pier de Troneras, head.	39° 33.5' N 2° 40.1' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	PORT (A) R, tower, topmark; 20.	

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<b>SPAIN-ISLAS BALEARES</b>							
4916 <i>E 0316.82</i>	--Sa Raqueta Pier.	39° 33.5' N 2° 40.2' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	STARBOARD (A) G, tower, topmark; 20.	
4920 <i>E 0316.83</i>	--Inner breakwater, W. side.	39° 33.6' N 2° 40.1' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	PORT (A) R, tower, topmark; 13.	
4924 <i>E 0316.84</i>	---E. side.	39° 33.7' N 2° 40.2' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Green post; 7.	
4932 <i>E 0318.8</i>	<b>-Porto Pi.</b>	39° 32.9' N 2° 37.4' E	<b>Fl.(2)W.</b> period 15s fl. 0.4s, ec. 3.3s fl. 0.4s, ec. 10.9s	135 41	18	Quadrangular stone tower; 125.	
4934 <i>E 0319</i>	--Muelle de Poniente, E.	39° 33.3' N 2° 38.2' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 5	3	Red cylindrical column, green band; 10.	<b>AIS</b> (MMSI No 992241068).
4934.5 <i>E 0318.9</i>	---Elbow.	39° 33.2' N 2° 38.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	13 4	1	Green and white truncated conical column; 7.	
4935 <i>E 0320</i>	---N.	39° 33.2' N 2° 37.8' E	<b>Fl.(2)R.</b> period 10s	13 4	1	Red post; 7.	
4936 <i>E 0318</i>	--Dique del Oeste, head.	39° 33.2' N 2° 38.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	62 19	7	Red cylindrical tower, white building, red square daymark, white base; 43.	<b>AIS</b> (MMSI No 992241067).
4940 <i>E 0318.3</i>	---Outer elbow.	39° 33.0' N 2° 38.4' E	<b>V.Q.(3)W.</b> period 5s	52 16	5	E. CARDINAL BYB, tower, topmark; 33.	Visible 180°-047°. <b>Siren:</b> Mo.(P) ev. 30s (bl. 2s, si. 2s, bl. 6s, si. 2s, bl. 6s, si. 2s, bl. 2s, si. 8s). <b>Radar reflector.</b>
4944 <i>E 0318.6</i>	---Inner elbow.	39° 32.7' N 2° 37.9' E	<b>V.Q.(6)+L.Fl.W.</b> period 10s	52 16	5	S. CARDINAL YB, tower, topmark; 26.	Visible 226°-090°. Obscured inside the harbor.
4946 <i>E 0328.08</i>	---Muelle de Espera.	39° 33.9' N 2° 38.0' E	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post, green bands; 16.	
4948 <i>E 0328.3</i>	---Muelle de Amarres, NW. head.	39° 33.9' N 2° 37.9' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green post; 13.	
4949 <i>E 0328.31</i>	--Marina, pier, N. end.	39° 33.9' N 2° 37.8' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red and white post; 10.	
4950 <i>E 0328</i>	--Club Natico, No 3 spur, head.	39° 33.9' N 2° 38.1' E	<b>Fl.(2)R.</b> period 14s fl. 1s, ec. 3s fl. 1s, ec. 9s	13 4	1	Red post; 10.	
4951 <i>E 0326.2</i>	--Muelle de Armamento, head.	39° 34.0' N 2° 38.4' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post; 13.	

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<b>SPAIN-ISLAS BALEARES</b>							
4951.5 <i>E 0326</i>	--Muelle Pascadores, head.	39° 34.0' N 2° 38.4' E	<b>Fl.(4)R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	20 6	1	Red post; 13.	Visible 185°-085.5°.
4952 <i>E 0328.42</i>	--S. head.	39° 33.3' N 2° 37.7' E	<b>Fl.Y.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	1	Yellow post; 13.	
4960 <i>E 0328.38</i>	--Muelle de la Pedrera, N. head.	39° 33.6' N 2° 37.8' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	17 5	3	Red post; 13.	
4964 <i>E 0328.39</i>	--S. head.	39° 33.4' N 2° 37.8' E	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6.5s	16 5	1	Red post, green band; 13.	
4968 <i>E 0328.34</i>	--La Coarentena, T-head, N. end.	39° 33.7' N 2° 37.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	17 5	1	Red post; 13.	
4972 <i>E 0328.36</i>	--S. end.	39° 33.7' N 2° 37.8' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	7 2	1	Red post, green band; 7.	
4976 <i>E 0322</i>	--Dique de Levante, SW. corner.	39° 33.6' N 2° 38.1' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 6	5	Green cylindrical tower; 10.	Synchronized with 4980. <b>AIS</b> (MMSI No 992241069).
4980 <i>E 0322.2</i>	---NW. corner.	39° 33.7' N 2° 38.0' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	13 4	3	Green post; 7.	Synchronized with 4976. Fl.(3)G. 9s 7m 1M and Fl.(3)G. 9s 7m 1M mark ends of wharf 318 meters NE. Fl.(4)G. 11s 7m 1M and Fl.(4)G. 11s 7m 1M mark ends of wharf 578 meters NE. Fl.G. 3s 7m 1M and Fl.G. 3s 7m 1M mark ends of wharf 850 meters NE.
4996 <i>E 0328.32</i>	--Jonquet, jetty, head.	39° 34.0' N 2° 37.9' E	<b>Fl.(2+1)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 3s	10 3	1	Red post, green band; 7.	
5000 <i>E 0328.7</i>	-Cala Nova, Yacht school, S. mole.	39° 32.9' N 2° 36.0' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red column, white base; 10.	
5002 <i>E 0328.8</i>	-Portals Nous, entrance.	39° 31.7' N 2° 33.8' E	<b>Fl.(3)G.</b> period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	30 9	4	STARBOARD (A) G, tower, topmark; 20.	Fl.(3)R. 14s 4m 3M light marks outer breakwater.
5004 <i>E 0329.6</i>	-Portals Vells, mole, head.	39° 28.5' N 2° 31.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	5	STARBOARD (A) G, tower, topmark; 13.	
5004.1 <i>E 0328.75</i>	--N. mole.	39° 33.0' N 2° 36.0' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green post; 10.	



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<b>SPAIN-ISLAS BALEARES</b>							
5006 <i>E 0329</i>	--Yacht Harbor Pier, head.	39° 31.4' N 2° 32.5' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	STARBOARD (A) G, tower, topmark; 20.	
5008 <i>E 0330</i>	-- <b>Cap de Cala Figuera.</b>	39° 27.5' N 2° 31.3' E	<b>Fl.(4)W.</b> period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	148 45	22	White cylindrical tower, black diagonal stripes; 79.	<b>AIS</b> (MMSI No 992241070). <b>Siren:</b> 2 bl. ev. 12s (bl. 2s, si. 2s, bl. 2s, si. 6s). <b>DGPS Station.</b>
5012 <i>E 0332</i>	-Isla del Toro, on islet.	39° 27.7' N 2° 28.3' E	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	102 31	7	White truncated conical tower; 23.	
5012.3 <i>E 0332.3</i>	-Port Adriano, breakwater, S. end.	39° 29.2' N 2° 28.5' E	<b>V.Q.(9)W.</b> period 10s	43 13	3	W. CARDINAL YBY, tower, topmark; 10.	
5012.4 <i>E 0332.65</i>	--N. end.	39° 29.5' N 2° 28.5' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	43 13	5	Green post; 10.	
5013 <i>E 0333</i>	-Santa Ponza, breakwater, head.	39° 30.8' N 2° 27.9' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	STARBOARD (A) G, tower, topmark; 16.	
5014 <i>E 0333.2</i>	--Punta de Caleta.	39° 30.8' N 2° 28.0' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Red column, red four-sided base; 13.	<b>Radar reflector.</b>
5016 <i>E 0334</i>	-Cabo de la Mola.	39° 31.9' N 2° 21.9' E	<b>Fl.(1+3)W.</b> period 12s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	420 128	12	White cylindrical tower, black bands; 33.	Visible 304°24'-147°.
5020 <i>E 0336</i>	-Puerto de Andraitx, mole, W. head.	39° 32.6' N 2° 22.8' E	<b>Fl.(4)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	5	Truncated conical stone tower, red top; 30.	
5022 <i>E 0336.8</i>	--Breakwater, extremity.	39° 32.8' N 2° 23.2' E	<b>Fl.(4)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	1	Red column; 10.	
5024 <i>E 0336.6</i>	--New inner breakwater, head.	39° 32.8' N 2° 23.1' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	1	Red and white octagonal tower, white base, red square daymark; 13.	
5028 <i>E 0337</i>	--Inner mole, head.	39° 32.8' N 2° 23.2' E	<b>Fl.(4)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	22 7	1	Green and white octagonal tower.	
-Isla Dragonera:							
5030 <i>E 0286</i>	--Isla Mitjana.	39° 35.1' N 2° 20.5' E	<b>V.Q.(9)W.</b> period 10s	33 10	3	W. CARDINAL YBY, post, topmark; 13.	<b>AIS.</b>
5032 <i>E 0282</i>	-- <b>Cabo Liebeitx.</b>	39° 34.5' N 2° 18.3' E	<b>Fl.W.</b> period 7.5s fl. 0.2s, ec. 7.3s	427 130	20	Cylindrical tower, building; 48.	Visible 313°-150°.

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<b>SPAIN-ISLAS BALEARES</b>							
5036 <i>E 0284</i>	--Punta Tramontana.	39° 35.9' N 2° 20.3' E	<b>Fl.(2)W.</b> period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	219 67	14	Cylindrical tower, stone building; 49.	Visible 095°-230° and 346°- 027°. <b>AIS</b> (MMSI No 992241072).
	-Puerto de Soller:						
5040 <i>E 0289</i>	-- <b>Cap Gros.</b>	39° 47.8' N 2° 40.9' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	394 120	19	White cylindrical tower, house; 72.	Visible 054°-232°.
5044 <i>E 0288</i>	--Punta de la Creu, entrance, E. point.	39° 47.8' N 2° 41.4' E	<b>Fl.W.</b> period 2.5s fl. 0.5s, ec. 2s	115 35	10	White truncated conical tower, black bands; 43.	Visible 088°-160°.
5048 <i>E 0290</i>	-Entrance Range, front.	39° 47.5' N 2° 41.8' E	<b>Dir.W.R.G.</b> period 4s	160 49	3	White cylindrical column, red square daymark, white band; 23.	Iso.G. 121°30'-123°30', Iso.W.-124°30', Iso. R.- 126°.
5056 <i>E 0291</i>	--Dique D.E., head.	39° 47.7' N 2° 41.5' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	22 7	5	Red post; 7.	
5060 <i>E 0293</i>	--Muelle Comercial, elbow.	39° 47.8' N 2° 41.6' E	<b>Fl.(2+1)G.</b> period 9s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	13 4	1	Green post, red band; 10.	
5064 <i>E 0293.2</i>	---Head.	39° 47.8' N 2° 41.7' E	<b>Fl.(3)R.</b> period 9s	13 4	1	PORT (A) R, post topmark; 10.	
5068 <i>E 0296</i>	- <b>Cabo de Formenter.</b>	39° 57.7' N 3° 12.7' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	689 210	22	White cylindrical tower, white dwelling; 72.	Visible 085°-006°.
5072 <i>E 0298</i>	- <b>Punta de la Avanzada.</b>	39° 54.0' N 3° 06.6' E	<b>Oc.(2)W.</b> period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	95 29	15	White octagonal tower, dwelling; 59.	Visible 234°-272°.
5076 <i>E 0301</i>	--Dique Norte, outer spur, head.	39° 54.1' N 3° 05.1' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6	5	Green truncated conical tower; 13.	Fl.(2)R. 8s 2m 3M light marks NW. breakwater entrance.
5077 <i>E 0299.5</i>	---Corner.	39° 54.3' N 3° 05.3' E	<b>Q.(3)W.</b> period 10s	10 3	3	E. CARDINAL BYB, post, topmark, 7.	
	-El Puerto:						
5080 <i>E 0300.2</i>	--N. breakwater, head.	39° 54.2' N 3° 05.1' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	7 2	1	Red cylindrical column, red house; 3.	Fl.(3)R. 9s 2m 1M light marks S. head.
5084 <i>E 0299</i>	--Inner mole, head.	39° 54.3' N 3° 05.1' E	<b>Fl.(3)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	16 5	1	Green cylindrical post, white band; 13.	
5086 <i>E 0303.7</i>	-Punta Sabate.	39° 53.6' N 3° 11.7' E	<b>Fl.(3)W.</b> period 13s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	154 47	5	White cylindrical tower, black band, white base; 39.	
5090 <i>E 0303</i>	-Puerto de Bonaire, dike, head.	39° 52.0' N 3° 08.6' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	5	Red column, white dwelling; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-ISLAS BALEARES</b>							
5091 <i>E 0303.2</i>	--Muelle de Ribera.	39° 52.0' N 3° 08.6' E	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	3	Green cylindrical post; 13.	
<b>PUERTO DE ALCUDIA</b>							
5096 <i>E 0306</i>	-Muelle commercial, head.	39° 49.9' N 3° 08.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	34 10	5	Green tower; 16.	<b>AIS</b> (MMSI No 992241064).
5097 <i>E 0306.5</i>	-Meulle de Poniente.	39° 50.1' N 3° 08.3' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 4	1	Red truncated pyramidal tower, green band; 10.	NW pier marked by 2 Fl.(2)G. 7s 4m 1M lights.
5098 <i>E 0307</i>	--Muelle Viejo, head.	38° 50.3' N 3° 08.1' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Green truncated pyramidal tower, white base; 10.	
5099 <i>E 0306.6</i>	--Club de Amigos de Alcudia, dike, head.	39° 50.2' N 3° 08.1' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red truncated pyramidal tower, white base; 10.	
5100 <i>E 0304</i>	-Isla Aucanada, Bahía de Alcudia, N. side.	39° 50.1' N 3° 10.3' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	82 25	11	White cylindrical tower, dwelling; 49.	<b>AIS</b> (MMSI No 992241062).
5104 <i>E 0307.1</i>	-Ca'n Picafort, pier, head.	39° 46.0' N 3° 09.5' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red truncated pyramidal tower; 13.	Fl.(2)G. 6.5s marks head of contradike.
5105 <i>E 0307.16</i>	-Escuy C'an Barret.	39° 46.1' N 3° 09.4' E	<b>V.Q.(3)W.</b> period 5s	10 3	4	E. CARDINAL BYB, beacon, topmark; 10.	
5107 <i>E 0307.17</i>	-Puerto Deportivo Serranova, breakwater, head.	39° 44.4' N 3° 13.2' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	5	Red and white cylindrical column; 7.	
5107.5 <i>E 0307.19</i>	-Inner breakwater.	39° 44.4' N 3° 13.2' E	<b>Oc.G.</b> period 8s lt. 5s, ec. 3s	10 3	1	Green structure, green base; 7.	
5108 <i>E 0307.2</i>	-Colonia de San Pedro, breakwater, head.	39° 44.3' N 3° 16.3' E	<b>Fl.(4)R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	5	Red cylindrical column, white base; 10.	
5116 <i>E 0308</i>	<b>-Cabo de Pera.</b>	39° 42.9' N 3° 28.7' E	<b>Fl.(2+3)W.</b> period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 6.5s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 6.6s	249 76	20	White cylindrical tower, white dwelling, red roof; 59.	Visible 148°-010°.
5120 <i>E 0308.2</i>	-Cala Ratjada, mole, head.	39° 42.5' N 3° 27.8' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	39 12	5	Green cylindrical column, white building, green triangular daymark point up; 10.	
5128 <i>E 0308.7</i>	--Dique Norte, head.	39° 36.9' N 3° 23.6' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	3	Green cylindrical tower, white building, green triangular daymark point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-ISLAS BALEARES</b>							
5132 E 0308.6	-Cala Bona, Dique Sur, head.	39° 36.9' N 3° 23.6' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	5	Red cylindrical tower, white building, red square daymark; 7.	
5136 E 0309	-Cala Manacor (Porto Cristo), at entrance.	39° 32.1' N 3° 20.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	65 20	7	White cylindrical tower, black stripes; 20.	
5140 E 0309.4	--Punta des Pelats, mole, head.	39° 32.5' N 3° 20.3' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	3	Red octagonal tower; 7.	
5144 E 0310	<b>-Punta de ses Crestes o de la Farola.</b>	39° 24.8' N 3° 16.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 6.7s	137 42	20	White tower, black bands, white dwelling, red roof; 82.	Visible 207°-006°.
5148 E 0310.4	-Punta de la Bateria.	39° 25.0' N 3° 16.2' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red cylindrical tower, white dwelling, red square daymark; 23.	
5152 E 0311	--Mole, SE. corner.	39° 25.3' N 3° 15.8' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	15 5	1	Red octagonal tower, white base; 7.	
5154 E 0311.2	--Punta de sa Sinia, breakwater, head.	39° 25.5' N 3° 15.8' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Red mast; 7.	
5156 E 0311.4	-Cala Llonga.	39° 22.0' N 3° 14.1' E	<b>Fl.(1+2)W.</b> period 20s fl. 1s, ec. 4s fl. 1s, ec. 2s fl. 1s, ec. 11s	56 17	7	White cylindrical tower, black stripes, dwelling; 20.	
5160 E 0311.8	-Puerto Petro, on Punta Sa Torre.	39° 21.3' N 3° 12.9' E	<b>Fl.(3+1)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s	72 22	7	White cylindrical tower, black stripes, white building; 30.	
5162 E 0311.9	--Dique Calo des Moix, head.	39° 21.7' N 3° 12.8' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red tower; 10.	
5164 E 0312.2	--Mole, head.	39° 21.8' N 3° 12.8' E	<b>Fl.(2+1)G.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 6s	20 6	3	Green cylindrical tower, red band, white four-sided base; 16.	
5172 E 0312.6	-Torre d'en Beu, on Cala Figuera de Santany, entrance, N. side.	39° 19.8' N 3° 10.6' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	105 32	12	White octagonal tower, black bands; 20.	
5176 E 0313	-Jetty, head.	39° 20.0' N 3° 10.0' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	21 6	5	Red cylindrical column, red building; 16.	
5180 E 0366	<b>Isla del Aire.</b>	39° 48.0' N 4° 17.6' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	174 53	18	White cylindrical tower, black bands, white house; 125.	Visible 111°-197°. AIS (MMSI No 992241039).
5182 E 0367	-Bajo es Caragol.	39° 48.6' N 4° 15.2' E	<b>V.Q.(6)+L.Fl.W.</b> period 10s	33 10	3	S. CARDINAL YB, beacon, topmark; 33.	AIS (MMSI No 992241040).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-ISLAS BALEARES</b>							
ISLA DE MENORCA:							
5184 <i>E 0342</i>	<b>-Cabo D'Artrutx.</b>	39° 55.4' N 3° 49.4' E	<b>Fl.(3)W.</b> period 10s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 5.8s	148 45	18	White cylindrical tower, black bands, white building; 111.	Visible 267°-158°.
5188 <i>E 0344</i>	-Ciudadela, Calo Frares, W. side of entrance.	39° 59.8' N 3° 49.3' E	<b>Fl.W.</b> period 6s fl. 0.3s, ec. 5.7s	69 21	14	White tower, black bands, white building; 43.	Visible 004°-094°.
5192 <i>E 0345</i>	--Punta El Bancal, on N. bank about 173 meters 061° from Ciudadela.	39° 59.9' N 3° 49.5' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	PORT (A) R, column, topmark; 13.	
5196 <i>E 0345.4</i>	--San Nicolas, on S. bank 325 meters 067°36' from Ciudadela.	39° 59.9' N 3° 49.5' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	STARBOARD (A) G, tower, topmark; 13.	
5200 <i>E 0345.6</i>	--Sa Trona, on S. bank 537 meters 062°06' from Ciudadela.	40° 00.0' N 3° 49.8' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	24 7	1	Green column, green triangular daymark point up; 13.	
5204 <i>E 0345.9</i>	--Cala d'en Busquets, E. point, 600 meters 052° from Ciudadela.	40° 00.0' N 3° 49.8' E	<b>Dir.W.R.G.</b> period 5s fl. 1s, ec. 4s	29 9	W. 5 R. 3 G. 3	White four-sided tower; 10.	Fl.G. 042°-044°, Fl.W.-046°, Fl.R.-048°.
5208 <i>E 0345.8</i>	---N. bank, 654 meters 057°24' from Ciudadela.	40° 00.0' N 3° 49.8' E	<b>Fl.(4)R.</b> period 12s fl. 0.7s, ec. 1s fl. 0.7s, ec. 1s fl. 0.7s, ec. 1s fl. 0.7s, ec. 6.2s	35 11	1	PORT (A) R, column, topmark; 13.	
5216 <i>E 0346.2</i>	--Varadero, on N. bank 832 meters 059°12' from Ciudadela.	40° 00.1' N 3° 49.9' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	2	PORT (A) R, tower, topmark; 16.	
5220 <i>E 0348</i>	<b>-Punta Nati.</b>	40° 03.0' N 3° 49.4' E	<b>Fl.(3+1)W.</b> period 20s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s fl. 0.4s, ec. 7.1s	138 42	18	Hexagonal masonry tower, dwelling; 62.	Visible 039°-162°.
5224 <i>E 0350</i>	<b>-Cabo de Caballeria.</b>	40° 05.3' N 4° 05.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 1.9s fl. 0.1s, ec. 7.9s	310 94	22	White cylindrical tower, white dwelling; 49.	Visible 074°-292°.
	-RACON		<b>B(-•••)</b> period 72s		22		(3m).
5226 <i>E 0350.5</i>	-Cap de sa Pared.	40° 03.8' N 4° 07.9' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	95 29	7	White cylindrical tower, white base; 20.	
5228 <i>E 0351</i>	-Puerto de Fornells Range, front.	40° 02.9' N 4° 08.2' E	<b>Q.R.</b>	45 14	7	White truncated conical tower; 20.	Fl.G. marks Dique de Levante head.
5232 <i>E 0351.1</i>	--Rear, 110 meters 178°30' from front.	40° 02.9' N 4° 08.2' E	<b>Iso.R.</b> period 4s	76 23	3	White truncated conical tower; 30.	
5236 <i>E 0352</i>	<b>-Cabo Favaritx.</b>	39° 59.8' N 4° 16.0' E	<b>Fl.(1+2)W.</b> period 15s fl. 0.2s, ec. 5.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 5.8s	154 47	21	White cylindrical tower, white stripes, dwelling; 92.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-ISLAS BALEARES</b>							
5238 <i>E 0355</i>	-Punta del Espero.	39° 52.6' N 4° 19.7' E	<b>Fl.(1+2)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10s	167 51	7	White cylindrical tower, black bands; 36.	<b>AIS</b> (MMSI No 992241075).
	-Puerto de Mahon:						
5240 <i>E 0354</i>	--Punta San Carlos.	39° 51.9' N 4° 18.4' E	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	72 22	13	White cylindrical tower, black bands, white square base; 49.	Visible 183°-143°. <b>AIS</b> (MMSI No 992241076). <b>DGPS Station.</b>
5252 <i>E 0356</i>	--Punta Lazareto.	39° 52.6' N 4° 18.1' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	42 13	3	Green cylindrical tower, white base, green triangular daymark point up; 20.	<b>AIS</b> (MMSI No 992241038).
5256 <i>E 0358</i>	--Punta de Ne Cafayes (Cala Fonts) (Villacarlos).	39° 52.9' N 4° 17.6' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	27 8	3	PORT (A) R, column, topmark; 13.	
5260 <i>E 0359</i>	--Isla Plana de Mahan.	39° 52.9' N 4° 17.9' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Green cylindrical tower; 20.	
5264 <i>E 0360</i>	--Punta de Villacarlas.	39° 53.0' N 4° 17.3' E	<b>Fl.(4)R.</b> period 11s	34 10	3	PORT (A) R, post, topmark; 13.	
5268 <i>E 0361</i>	--Isla del Rey, S. coast.	39° 53.1' N 4° 17.2' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	STARBOARD (A) G, column, topmark; 43.	
5272 <i>E 0361.4</i>	---On Punta Sa Cova, N. part.	39° 53.3' N 4° 17.2' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	52 16	3	Red cylindrical tower; 20.	
5276 <i>E 0361.6</i>	--Punta de Sa Bassa.	39° 53.4' N 4° 17.3' E	<b>Oc.G.</b> period 4s	31 9	1	STARBOARD (A) G, column, topmark; 10.	
5277 <i>E 0363.67</i>	--Muelle de Cos Nou, RoRo, W. head.	39° 53.7' N 4° 15.5' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	STARBOARD (A) G, column, topmark; 3.	
5278 <i>E 0361.65</i>	--Dir. light 323°33'.	39° 53.4' N 4° 17.2' E	<b>Dir.Iso.W.R.G.</b> period 4s	30 9	3	Light on white house; 26.	G. 322°42'-323°18', W.- 323°48', R.-324°24'. <b>AIS</b> (MMSI No 992241077).
5280 <i>E 0362.4</i>	--Isla del Pinta, S. point.	39° 53.5' N 4° 16.2' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	STARBOARD (A) G, metal post, topmark; 10.	
5284 <i>E 0362</i>	--Punta de Cala Figuera.	39° 53.4' N 4° 16.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	1	Post, red square daymark; 16.	
5288 <i>E 0364</i>	--Cala Taulera, I. Lazaretto.	39° 52.6' N 4° 18.4' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red cylindrical tower; 20.	
5292 <i>E 0364.2</i>	--Canal de Alfonso XII, E. head.	39° 52.9' N 4° 18.3' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red cylindrical tower; 20.	
5296 <i>E 0364.4</i>	---W. head.	39° 52.9' N 4° 18.2' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red cylindrical tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5300 <i>E 0176</i>	<b>Cabo de la Nao.</b>	38° 44.0' N 0° 13.8' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	400 122	23	White octagonal tower, dwelling; 66.	Visible 190°-049°. DGPS Station.
JAVEA:							
5304 <i>E 0179</i>	-Outer mole, head.	38° 47.7' N 0° 11.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	5	Green octagonal tower; 20.	
5308 <i>E 0179.4</i>	-Inner mole, head.	38° 47.7' N 0° 11.2' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	4	Red octagonal tower; 20.	
5312 <i>E 0180</i>	<b>Cabo de San Antonio.</b>	38° 48.2' N 0° 11.8' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	574 175	26	White cylindrical tower, dwelling; 56.	Visible over an arc of 240°.
DENIA:							
5316 <i>E 0186</i>	-Range, pier, head, front.	38° 50.4' N 0° 06.9' E	<b>Dir.W.R.G.</b> period 2.5s fl. 1s, ec. 1.5s	33 10	7	White cylindrical column, black bands, platform; 26.	Fl.G. 227°-228°30', Fl.W.- 229°30', Fl.R.-231°.
5324 <i>E 0184</i>	-Dique Norte, head.	38° 50.9' N 0° 07.5' E	<b>Fl.(3)G.</b> period 11s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5s	43 13	5	Green octagonal tower; 23.	
5328 <i>E 0187</i>	--Elbow.	38° 50.6' N 0° 07.6' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	Green hexagonal column; 13.	
5329 <i>E 0187.5</i>	--Inner jetty, head.	38° 50.5' N 0° 07.1' E	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 5	1	Green and red post; 10.	
5332 <i>E 0185</i>	-Dique Sur, head.	38° 50.7' N 0° 07.4' E	<b>Fl.(4)R.</b> period 11s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 4s	30 9	3	Red octagonal tower; 23.	
5333 <i>E 0188</i>	--Elbow of Dique Sur.	38° 50.5' N 0° 07.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	10 3	1	Red hexagonal tower; 10.	
5334 <i>E 0188.5</i>	---Jetty, head.	38° 50.6' N 0° 07.2' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red hexagonal column; 10.	
5338 <i>E 0190</i>	-Club Nautico de Oliva, shelter dique.	38° 56.0' N 0° 05.5' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	White and green truncated pyramidal tower; 13.	
5338.5 <i>E 0190.2</i>	--Contradique.	38° 56.0' N 0° 05.4' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	White and red truncated pyramidal tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
GANDIA:							
5340 <i>E 0194</i>	-N. mole, head.	38° 59.7' N 0° 08.7' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	49 15	7	Green triangular tower; 39.	<b>AIS.</b>
5348 <i>E 0196</i>	-S. mole, head.	38° 59.8' N 0° 09.1' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red cylindrical tower, truncated conical base; 13.	
5352 <i>E 0197</i>	Cullera, N. jetty, head.	39° 09.1' N 0° 14.0' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green cylindrical tower, green base; 23.	
5356 <i>E 0197.2</i>	-S. jetty, head.	39° 09.0' N 0° 14.1' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Red cylindrical tower, red four-sided base; 23.	
5360 <i>E 0198</i>	<b>Cabo Cullera.</b>	39° 11.2' N 0° 13.0' W	<b>Fl.(3)W.</b> period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	92 28	19	White cylindrical tower, white circular dwelling; 52.	Aeromarine light. <b>AIS.</b>
5362 <i>E 0199</i>	El Perello, E. jetty, head.	39° 16.7' N 0° 16.4' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Green four-sided tower; 10.	
5362.2 <i>E 0199.2</i>	-W. jetty, head.	39° 16.7' N 0° 16.4' W	<b>Fl.(3)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	23 7	4	Red pyramidal column, red four-sided base; 16.	
5364 <i>E 0209</i>	<b>-Manises AVIATION LIGHT.</b>	39° 29.6' N 0° 28.2' W	<b>Al.Fl.W.G.</b> period 4s	213 65	15	Tower, control tower; 49.	Occasional.
VALENCIA:							
5365 <i>E 0199.9</i>	-N. Entrance, breakwater, head.	39° 27.8' N 0° 18.5' W	<b>Q.R.</b> period 1.2s	30 9	5	Red truncated pyramidal tower; 10.	
5366 <i>E 0199.82</i>	---Middle.	39° 27.5' N 0° 17.7' W	<b>V.Q.W.</b>	52 16	3	N. CARDINAL BY, tower, topmark.	Visible 115°-295°.
5366.2 <i>E 0200.2</i>	---Outer breakwater, head.	39° 26.7' N 0° 17.5' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	56 17	5	Green four-sided tower, white cylindrical base; 16.	
5368 <i>E 0200</i>	<b>-Dique del Norte</b> , breakwater, elbow.	39° 27.3' N 0° 17.2' W	<b>Fl.W.</b> period 10s fl. 0.8s, ec. 9.2s	115 35	24	Yellow and black octagonal tower, three white bands; 72.	<b>AIS</b> (MMSI No 992241055).
5368.5 <i>E 0200.5</i>	--Muelle Interior, S. corner, head.	39° 26.1' N 0° 18.4' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6		Green cylindrical tower, truncated conical base; 13.	
5369 <i>E 0200.3</i>	-Dique del Este, outer breakwater, elbow.	39° 26.7' N 0° 17.9' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red cylindrical tower, truncated conical base; 16.	
5370 <i>E 0200.1</i>	---Head.	39° 27.1' N 0° 17.7' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red cylindrical tower, truncated conical base; 10.	



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<b>SPAIN-MEDITERRANEAN SEA</b>							
5372 <i>E 0200.4</i>	-Nuevo Dique del Este, head.	39° 26.0' N 0° 18.2' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	69 21	5	Green cylindrical tower; 30.	
5374 <i>E 0201.15</i>	-Muelle Darsena Sur, breakwater, head.	39° 26.1' N 0° 18.8' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Red cylindrical tower, truncated conical base; 13.	
5376 <i>E 0201.5</i>	-Nuevo Muelle Sur.	39° 26.2' N 0° 19.2' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Green cylindrical tower, truncated conical base; 20.	
5380 <i>E 0201.2</i>	-Dique del Este, elbow.	39° 26.5' N 0° 18.6' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	1	Red cylindrical tower, truncated conical base; 10.	
5384 <i>E 0201.4</i>	--S. head.	39° 26.5' N 0° 18.8' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green cylindrical tower, conical base; 16.	
5388 <i>E 0202</i>	-Dique Del Sur, E. head.	39° 26.6' N 0° 19.0' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Red cylindrical tower, conical base; 16.	
5400 <i>E 0203.4</i>	-Mulle de Levante, head.	39° 26.8' N 0° 18.9' W	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	3	Green cylindrical tower, red band, truncated conical base.	
5404 <i>E 0204</i>	-Espigon No. 1, head, NE. corner.	39° 27.0' N 0° 19.2' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	1	Red cylindrical tower, truncated conical base; 13.	
5408 <i>E 0204.2</i>	--SE. corner.	39° 26.9' N 0° 19.3' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	1	Green cylindrical tower, truncated conical base; 13.	
5412 <i>E 0205</i>	-Muelle de Poniente, head.	39° 27.2' N 0° 19.4' W	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 5	1	Red cylindrical tower, green band, truncated conical base; 10.	
5421.6 <i>E 0201.11</i>	--E. head.	39° 25.8' N 0° 18.6' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	69 21	3	Red cylindrical, white base; 30.	
5422 <i>E 0208.6</i>	-Nautical Club, E. Dique.	39° 25.4' N 0° 19.4' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Green cylindrical tower, conical base; 13.	Fl.(3)G. shown on pier 200 meters WNW.
5423 <i>E 0208.65</i>	--Contradique.	39° 25.4' N 0° 19.4' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red cylindrical column, conical base.	Fl.(4)G. and Fl.(3)R. mark pier heads in harbor.
5424 <i>E 0209.6</i>	-Port Soplaya, S. head.	39° 30.6' N 0° 19.1' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Red and white cylindrical tower; 16.	
5424.5 <i>E 0209.7</i>	--NE. head.	39° 30.6' N 0° 19.1' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	4	Green and white cylindrical tower; 16.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
5425 E 0210	-Puerto Deportivo Puebla de Farnals.	39° 33.5' N 0° 17.0' W	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	30 9	5	Green cylindrical tower, concrete dwelling; 16.	Fl.R. 3.5s shown from S. head of contradique.
SAGUNTO:							
5425.5 E 0210.8	-Contradike, S. head.	39° 37.8' N 0° 12.9' W	<b>V.Q.(6)+L.FI.W.</b> period 10s	56 17	3	S. CARDINAL YB, tower, topmark; 13.	
5425.6 E 0211	--Corner.	39° 38.0' N 0° 12.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	56 17	3	Red cylindrical conical tower; 13.	
5425.7 E 0212.1	--N. head.	39° 38.3' N 0° 12.7' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Red truncated conical tower; 16.	
5427 E 0210.75	-Breakwater, head.	39° 37.8' N 0° 12.3' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	66 20	5	Green and white cylindrical column; 16.	<b>AIS.</b>
5429 E 0210.9	--W. side.	39° 38.0' N 0° 12.4' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green truncated conical tower; 13.	
5432 E 0214	--Corner.	39° 38.9' N 0° 12.8' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Red cylindrical tower, truncated conical base; 13.	
5433 E 0212.2	--SE. head.	39° 38.6' N 0° 12.7' W	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Red and green cylindrical tower, conical base.	
5434 E 0212.18	-Muelle Sur, N. pier 2.	39° 38.6' N 0° 12.8' W	<b>Q.G.</b>	23 7	1	Green cylindrical tower, white truncated conical base; 13.	
5440 E 0214.6	-Darsena Pesquera, breakwater, head.	39° 39.1' N 0° 12.7' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	1	Green cylindrical tower; 13.	
5442 E 0214.7	--Contradike, head.	39° 39.2' N 0° 12.6' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	1	Red cylindrical tower, truncated conical base; 13.	
5448 E 0212.6	--Dolphin, 73 meters SE.	39° 38.8' N 0° 11.7' W	<b>Q.(3)W.</b> period 10s	39 12	5	E. CARDINAL BYB, tower, topmark; 20.	
-Puerto de Siles:							
5449 E 0217	--Breakwater, head.	39° 40.3' N 0° 12.1' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Green cylindrical column, white base; 10.	
5449.5 E 0217.2	---Corner of breakwater.	39° 40.4' N 0° 12.1' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Green cylindrical column; 7.	
5450 E 0217.4	--Contradike, S. head.	39° 40.4' N 0° 12.1' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red cylindrical column; 10.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
5450.5 E 0217.5	--N. head.	39° 40.4' N 0° 12.1' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red cylindrical column; 7.	
5452 E 0216	<b>Cabo Canet.</b>	39° 40.5' N 0° 12.5' W	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	108 33	20	Cylindrical tower, red top; 98.	<b>AIS.</b>
5454 E 0218	Nules.	39° 49.6' N 0° 06.7' W	<b>Oc.(2)W.</b> period 11s	125 38	14	Gray four-sided tower; 118.	
5456 E 0219	-Dique de Levante, head.	39° 51.4' N 0° 04.0' W	<b>Fl.(2)G.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	39 12	5	Green hexagonal tower; 26.	Q.(3)W. 3M marks end of sand retention jetty 0.3 mile NNE.
5460 E 0220	--Muelle Transversal, head.	39° 51.4' N 0° 04.2' W	<b>Fl.(3)G.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	3	Green truncated conical tower; 20.	
5464 E 0221	-Dique de Poniente, head.	39° 51.3' N 0° 04.2' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	33 10	3	Red structure, white dwelling; 26.	
REFINERIA DE CASTELLON:							
5476 E 0224	-Terminal platform.	39° 56.6' N 0° 01.6' E	<b>Oc.(2)Y.</b> period 14s lt. 8s, ec. 2s lt. 2s, ec. 2s	42 13	4	Yellow post; 20.	<b>Siren: Mo.(U)</b>
CASTELLON DE LA PLANA:							
5480 E 0226	-Faro de Castellon.	39° 58.1' N 0° 01.7' E	<b>Fl.W.</b> period 8s fl. 0.3s, ec. 7.7s	105 32	14	White cylindrical tower; 89.	
5482 E 0226.1	--Dique de Levante, SW. head.	39° 57.6' N 0° 01.6' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green cylindrical tower, truncated conical base; 33.	
5483 E 0226.5	-E. breakwater, N. corner.	39° 58.1' N 0° 01.9' E	<b>Q.W.</b>	23 7	5	N. CARDINAL BY, tower, topmark.	
5484 E 0229.3	-S. head.	39° 58.1' N 0° 01.2' E	<b>Oc.G.</b> period 5s lt. 4s, ec. 1s	16 5	2	Green truncated pyramidal tower.	
5486 E 0229.4	-Slipway.	39° 58.1' N 0° 01.1' E	<b>Fl.(3)R.</b>	13 4	3	Red post; 10.	
5488 E 0226.2	-Muelle Transversal, S. corner.	39° 58.2' N 0° 01.3' E	<b>Fl.G.</b>	20 6	3	Green truncated pyramidal tower; 13.	
5492 E 0226.4	--Center of S. face.	39° 58.2' N 0° 01.2' E	<b>Fl.(2)G.</b>	16 5	3	Green hexagonal tower, white base; 10.	
5496 E 0229.2	-Darsen Pesquera, entrance, W. side.	39° 58.1' N 0° 01.2' E	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6.5s	15 5	3	Red truncated conical tower, green band; 10.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
5504 <i>E 0222</i>	<b>Islas Columbretes.</b>	39° 54.0' N 0° 41.2' E	<b>Fl.(3+1)W.</b> period 22s fl. 0.2s, ec. 2.5s fl. 0.2s, ec. 2.5s fl. 0.2s, ec. 8.1s fl. 0.2s, ec. 8.1s	279 85	21	White cylindrical tower, dwelling; 66.	
	RACON		<b>C(- • - •)</b> period 72s		22		(3m).
5508 <i>E 0222.2</i>	-Punta Michorn.	39° 53.6' N 0° 41.2' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	160 49	4	White octagonal tower; 19.	
5512 <i>E 0222.4</i>	-Punta Norte.	39° 54.0' N 0° 41.2' E	<b>Fl.(2)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	219 67	4	White octagonal tower; 19.	
5514 <i>E 0229.7</i>	Puerto de Oropesa, breakwater, head.	40° 04.4' N 0° 08.1' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Green hexagonal tower; 10.	
5516 <i>E 0230</i>	<b>Cabo de Oropesa.</b>	40° 05.0' N 0° 08.8' E	<b>Fl.(3)W.</b> period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	79 24	21	White cylindrical tower, white building; 43.	
5518 <i>E 0231.6</i>	Cabo de Irta.	40° 15.6' N 0° 18.1' E	<b>Fl.(4)W.</b> period 18s	108 33	14	White four-sided tower; 92.	Visible 195°-057°.
5519 <i>E 0231</i>	Puerto las Fuentes.	40° 14.9' N 0° 17.3' E	<b>Oc.G.</b> period 4s	20 6	4	Green cylindrical column; 7.	
5520 <i>E 0232</i>	<b>Peniscola.</b>	40° 21.5' N 0° 24.5' E	<b>Fl.(2+1)W.</b> period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 5.6s	183 56	23	White octagonal tower, white dwelling; 36.	Visible 184°-040°. Reserve light range 12M.
5524 <i>E 0234.4</i>	-Fish pier, head.	40° 21.3' N 0° 24.2' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red cylindrical column; 20.	
5528 <i>E 0234</i>	-E. breakwater.	40° 21.2' N 0° 24.1' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	4	Green cylindrical column; 23.	
5532 <i>E 0238</i>	Benicarlo, on E. breakwater, head.	40° 21.2' N 0° 24.1' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 13	5	Green four-sided tower; 16.	
5536 <i>E 0239</i>	-On S. breakwater, head.	40° 24.8' N 0° 26.0' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red octagonal tower; 13.	Fl.(2)R. 6s 3M shown from SE. corner.
5540 <i>E 0239.4</i>	-Fish pier, head.	40° 24.9' N 0° 26.0' E	<b>Fl.(2+1)G.</b> period 15s	24 7	3	Red cylindrical post, green band; 10.	
5541 <i>E 0239.2</i>	-Inner harbor entrance, E. side, esplanade pier.	40° 24.8' N 0° 26.1' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	White building, green triangular daymark point up.	
5544 <i>E 0244</i>	Vinaroz, E. mole, head.	40° 27.4' N 0° 28.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	46 14	8	Green cylindrical tower; 33.	
5546 <i>E 0244.5</i>	--Inner T-jetty, head.	40° 27.7' N 0° 28.7' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green octagonal tower; 10.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
5548 E 0248	-Transverse mole, head.	40° 27.8' N 0° 28.6' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Green cylindrical tower; 20.	
5549 E 0248.5	-N. pier, head.	40° 28.0' N 0° 28.5' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	10 3	1	Red structure, green band; 7.	
5550 E 0246.5	-W. mole, NW. head.	40° 27.7' N 0° 28.5' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red structure; 7.	
5551 E 0246.6	-W. mole, NE. head.	40° 27.7' N 0° 28.6' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red structure; 7.	
5552 E 0246	-W. mole, head.	40° 27.6' N 0° 28.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	3	Red post; 10.	
5556 E 0370.3	-Darsena Departivo, Dique Sur, head.	40° 33.1' N 0° 32.0' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red truncated pyramidal tower; 13.	
5560 E 0370.35	--Contradique de Levante, head.	40° 33.1' N 0° 31.9' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green truncated pyramidal column; 10.	
5564 E 0370.6	Cement wharf.	40° 34.3' N 0° 33.4' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red four-sided tower; 7.	
5565 E 0371	-Inner mole, head.	40° 34.4' N 0° 33.0' E	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	2	Green four-sided tower, red band; 10.	
<b>PUERTO DE LOS ALFAQUES:</b>							
5568 E 0370	-Punta de la Bana.	40° 33.6' N 0° 39.7' E	<b>Fl.(2)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	89 27	12	White cylindrical tower, black band; 85.	<b>AIS</b> (MMSI No 992241370).
5572 E 0371.2	-Punta Corballera.	40° 34.6' N 0° 35.8' E	<b>Fl.W.G.</b> period 4s fl. 0.5s, ec. 3.5s	43 13	W. 7 G. 5	Cylindrical tower, black base, truncated cone; 39.	G. 000°-180°, W.-000°. <b>AIS</b> (MMSI No 992241374).
5576 E 0373	San Carlos de la Rapita, Punta Sanieta.	40° 36.5' N 0° 35.1' E	<b>Oc.(4)R.</b> period 10s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	33 10	11	Metal cupola, white building; 23.	<b>AIS</b> (MMSI No 992241373).
5580 E 0374	-Dique de Abrigo, head.	40° 36.5' N 0° 36.3' E	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	26 8	3	Red truncated pyramidal column; 16.	<b>Radar reflector.</b>
5592 E 0375	Muelle de hierro.	40° 36.1' N 0° 41.4' E	<b>Q.W.</b>	26 8	3	N. CARDINAL BY, tower, topmark.	Visible 082°-229°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5598 <i>E 0377</i>	Cabo Tortosa.	40° 42.9' N 0° 55.7' E	<b>Fl.W.R.</b> period 6s fl. 0.3s, ec. 5.7s	59 18	W. 14 R. 10	Metal framework tower, black tripod.	W. 127°-047°, R.-127°. <b>AIS</b> (MMSI No 992241377). <b>Radar reflector.</b>
	RACON		<b>T(-)</b> period 30s			15	(3 & 10cm).
5599 <i>E 0376</i>	Rio Ebro.	40° 43.3' N 0° 51.6' E	<b>Fl.(5)Y.</b> period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13		3 SPECIAL Y, beacon, "X" topmark; 36.	
5600 <i>E 0380</i>	Punta del Fangar.	40° 47.4' N 0° 46.1' E	<b>Fl.(2+1)W.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 6s	66 20		12 White cylindrical tower, red band; 59.	<b>AIS</b> (MMSI No 992241380).
5604 <i>E 0380.55</i>	-La Ampolla, breakwater, head.	40° 49.0' N 0° 43.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	13 4		3 Red truncated pyramidal tower; 10.	
5608 <i>E 0380.5</i>	-Jetty, head.	40° 48.5' N 0° 42.6' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	33 10		5 Green truncated pyramidal tower; 16.	
5610 <i>E 0381</i>	Estany Gras, marina.	40° 52.2' N 0° 47.7' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14		5 Green truncated pyramidal tower; 16.	
5612 <i>E 0381.5</i>	Ametlla del Mar, breakwater, head.	40° 52.7' N 0° 48.2' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	55 17		5 Green four-sided metal tower, white building; 33.	
5614 <i>E 0382.3</i>	Puerto Deportive Calafat.	40° 55.6' N 0° 51.0' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9		5 Green truncated pyramidal tower; 20.	
5614.5 <i>E 0382.4</i>	-Contradique.	40° 55.8' N 0° 51.1' E	<b>Fl.(2)R.</b> period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	16 5		4 Red truncated pyramidal tower; 13.	
5615 <i>E 0382.5</i>	Hospitalet del Infante, dique, SE. head.	40° 59.2' N 0° 55.6' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10		5 Green truncated pyramid tower; 16.	
5615.5 <i>E 0382.6</i>	-Contradique, head.	40° 59.4' N 0° 56.0' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	16 5		2 Red truncated pyramidal tower, 10.	
5616 <i>E 0384</i>	Cambrils, W. mole, head.	41° 03.7' N 1° 03.6' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13		3 Red cylindrical tower; 30.	
5620 <i>E 0383</i>	-E. mole, head.	41° 03.6' N 1° 03.7' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	50 15		5 Green four-sided tower; 37.	
5624 <i>E 0385</i>	Embarcadero de Salou, dique de levante.	41° 04.4' N 1° 07.8' E	<b>Fl.(2)G.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	30 9		5 Green column; 16.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
5628 <i>E 0385.5</i>	-Dique de poniente, head.	41° 04.4' N 1° 07.8' E	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	13 4	3	Red post; 7.	
5632 <i>E 0386</i>	<b>Cabo de Salou.</b>	41° 03.3' N 1° 10.3' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	141 43	23	White tower, red band, white building; 36.	<b>AIS</b> (MMSI No 992241386). <b>DGPS Station.</b>
5634 <i>E 0386.1</i>	Playa del la Pineda, S. pier, head.	41° 04.0' N 1° 11.0' E	<b>V.Q.(3)W.</b> period 5s	26 8	1	E. CARDINAL BYB, post, topmark; 20.	
5635 <i>E 0386.15</i>	-NW. pier, head.	41° 05.0' N 1° 11.8' E	<b>V.Q.(3)W.</b> period 5s	20 6	1	E. CARDINAL BYB, beacon, topmark; 13.	
5636	<i>LANBY</i> , Tanker.	41° 04.1' N 1° 13.2' E	<b>Fl.(4)Y.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		5	SPECIAL Y, superbuoy, "X" topmark; 20.	4 Fl.Y. 2s 1M nearby. <b>AIS.</b> <b>Radar reflector.</b>
TARRAGONA:							
5640 <i>E 0386.6</i>	-Playa de le Canonja, oil pier.	41° 04.9' N 1° 12.5' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	46 14	7	Red post, green bands; 20.	
5641 <i>E 0386.7</i>	-Muelle de Cantabria, elbow.	41° 05.2' N 1° 12.6' E	<b>Q.G.</b>	20 6	1	Green post; 7.	
5641.2 <i>E 0386.72</i>	--Head.	41° 05.3' N 1° 12.8' E	<b>Fl.(2+1)R.</b> period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	26 8	5	Red cylindrical post, green band; 7.	
5641.5 <i>E 0386.71</i>	--SE. head.	41° 05.3' N 1° 12.7' E	<b>Fl.Y.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	3	SPECIAL Y, post, yellow "X" topmark; 7.	
5652 <i>E 0388</i>	-Dique de Levante.	41° 05.3' N 1° 13.6' E	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s	89 27	1	Gray cylindrical tower, metal piles; 59.	F.R. lights on silo 550 meters ENE. and chimney 1.8 km. WNW.
5660 <i>E 0388.4</i>	-Muelle de Aragon.	41° 06.0' N 1° 14.0' E	<b>Fl.(4)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	3	Green conical structure, white post; 13.	
5662 <i>E 0388.2</i>	-Muelle de Cataluna, NE. corner.	41° 05.8' N 1° 13.7' E	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	1	Green conical structure, white post; 13.	
5664 <i>E 0393</i>	-Contradique, E. corner.	41° 06.0' N 1° 13.7' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s		3	PORT (A) R, mast, topmark.	
5665 <i>E 0393.2</i>	--W. corner.	41° 05.8' N 1° 13.4' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	1	Red cylindrical column, green band; 13.	
5668 <i>E 0392.6</i>	-Muelle de Castilla.	41° 06.1' N 1° 13.8' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	1	Red cylindrical structure, green band, white post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5670 <i>E 0389</i>	-Muelle de Rioja, head.	41° 06.2' N 1° 14.2' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	23 7	1	Red cylindrical structure, white post; 13.	
5676 <i>E 0392</i>	--SE. head.	41° 06.3' N 1° 14.5' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	1	Red cylindrical structure, white post; 13.	
5678 <i>E 0392.1</i>	-Lifting bridge, W. side, S. head.	41° 06.4' N 1° 14.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	13 4	1	Red post; 7.	Fl.R. 5s marks bridge N. side.
5679 <i>E 0392.12</i>	--E. side, S. head.	41° 06.3' N 1° 14.6' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	13 4	1	Green conical structure; 7.	Fl.G. 5s marks bridge N. side. Fl.(2)G. 5s marks breakwater head NE.
5682 <i>E 0388.12</i>	-Dique Rompeolas, W. head.	41° 04.7' N 1° 12.8' E	<b>Fl.G.</b> period 5s fl. 1.5s, ec. 3.5s	72 22	10	Green cylindrical tower; 36.	Synchronized with 5682.2. <b>AIS.</b>
5682.2 <i>E 0388.16</i>	--NW. head.	41° 04.7' N 1° 12.8' E	<b>Fl.G.</b> period 5s fl. 1.5s, ec. 3.5s	30 9	5	Green and white truncated conical tower; 10.	Synchronized with 5682.
5684 <i>E 0388.35</i>	-E. breakwater, spur, head.	41° 05.4' N 1° 13.4' E	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	30 9	3	Green conical structure, white post; 13.	
5689 <i>E 0392.3</i>	-Outer breakwater.	41° 06.3' N 1° 15.1' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	5	Green post; 10.	
5690 <i>E 0392.33</i>	-Dique de Arigo.	41° 06.5' N 1° 15.2' E	<b>V.Q.(3)W.</b> period 5s	26 8	3	E. CARDINAL BYB, post, topmark; 10.	
5690.5 <i>E 0392.37</i>	-Martillo inner breakwater.	41° 06.4' N 1° 15.1' E	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	10 3	1	Green post; 3.	
5691 <i>E 0392.4</i>	-Inner breakwater.	41° 06.4' N 1° 15.1' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	3	Red post; 3.	
5691.5 <i>E 0393.7</i>	<b>Torredembarra.</b>	41° 07.9' N 1° 23.7' E	<b>Fl.(5)W.</b> period 30s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 9.8s	190 58	17	White octagonal tower, copper dome; 125.	<b>AIS</b> (MMSI No 992241393).
5691.6 <i>E 0393.8</i>	Cabo Gros, breakwater, head.	41° 08.0' N 1° 24.1' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green post; 16.	
5691.7 <i>E 0393.85</i>	-Elbow.	41° 08.2' N 1° 24.3' E	<b>Q.(3)W.</b> period 10s	30 9	3	E. CARDINAL BYB, beacon, topmark; 10.	
SAN SALVADOR:							
5692 <i>E 0394</i>	-W. jetty, head.	41° 10.7' N 1° 31.0' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Green post; 7.	
5696 <i>E 0394.2</i>	-Mole, W. elbow.	41° 10.6' N 1° 31.5' E	<b>Q.(6)+L.Fl.W.</b> period 15s	30 9	3	S. CARDINAL YB, tower, topmark; 13.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5700 <i>E 0394.4</i>	-Mole, E. elbow.	41° 10.6' N 1° 31.6' E	<b>V.Q.(6)+L.FI.W.</b> period 10s	30 9	3	S. CARDINAL YB, post, topmark; 13.	
5704 <i>E 0394.6</i>	-E. jetty, head.	41° 10.4' N 1° 30.8' E	<b>Fl.(3)G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	Red post; 7.	
5705 <i>E 0394.8</i>	Puerto Segur de Calafell.	41° 11.0' N 1° 36.5' E	<b>Fl.(4)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	5	STARBOARD (A) G, tower, topmark; 13.	
5706 <i>E 0395</i>	Cunit.	41° 11.6' N 1° 39.4' E	<b>Q.(6)+L.FI.W.</b> period 15s	16 5	5	S. CARDINAL YB, beacon, topmark; 10.	
5707 <i>E 0393.9</i>	Roda de Bara, breakwater, head.	41° 10.0' N 1° 29.1' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Green truncated pyramidal tower; 13.	
5707.1 <i>E 0393.95</i>	-Elbow.	41° 10.1' N 1° 29.3' E	<b>V.Q.(3)W.</b> period 5s	26 8	3	E. CARDINAL BYB, beacon, topmark; 20.	
5708 <i>E 0396</i>	<b>Villanueva y Geltru.</b>	41° 13.0' N 1° 44.2' E	<b>Fl.(3)W.</b> period 8s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 4.4s	89 27	19	Tower, aluminum cupola, white dwelling; 69.	Visible 265°-070°.
5712 <i>E 0396.2</i>	-Dique de levante, head.	41° 12.4' N 1° 43.8' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	59 18	5	Green cylindrical tower, white base; 36.	
5716 <i>E 0396.3</i>	-N. extremity.	41° 12.6' N 1° 44.0' E	<b>Fl.(3)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	1	Green cylindrical column; 10.	
5718 <i>E 0396.12</i>	-Nuevo contradique.	41° 12.5' N 1° 43.7' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4s	49 15	3	Red truncated pyramidal tower; 16.	
5720 <i>E 0396.14</i>	-Dique de poniente, head.	41° 12.6' N 1° 43.8' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red post; 13.	
5728 <i>E 0396.52</i>	-Espigou de la Pesca.	41° 12.8' N 1° 44.0' E	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Red truncated pyramidal tower; 10.	
5732 <i>E 0396.5</i>	-Espigou Transversal, head.	41° 12.7' N 1° 44.0' E	<b>Fl.(2+1)R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	29 9	1	Red truncated pyramidal tower, green band; 10.	
5736 <i>E 0396.6</i>	Puerto de Vallcarca.	41° 14.2' N 1° 52.0' E	<b>Fl.(4)G.</b> period 13s	33 10	4	Green truncated pyramidal tower, white base; 13.	
5740 <i>E 0396.62</i>	Garraf, E. mole, head.	41° 14.9' N 1° 54.0' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	22 7	5	Green truncated pyramidal tower; 10.	
5744 <i>E 0396.64</i>	-W. mole, head.	41° 15.0' N 1° 54.1' E	<b>Fl.(3)R.</b> period 9s	13 4	3	Red truncated pyramidal tower; 10.	

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<b>SPAIN-MEDITERRANEAN SEA</b>							
5745 <i>E 0396.8</i>	Puerto deportivo de Vallbona, shelter dike, head.	41° 15.3' N 1° 55.2' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	26 8	5	Green truncated conical tower.	
5746 <i>E 0396.85</i>	-Contradike, head.	41° 15.4' N 1° 55.3' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	16 5	3	Red truncated conical tower; 10.	
5747 <i>E 0396.9</i>	-E. jetty, head.	41° 15.6' N 1° 55.9' E	<b>Q.(6)+L.Fl.W.</b> period 15s	16 5	4	S. CARDINAL YB, tower, topmark; 10.	
5748 <i>E 0397</i>	Muntados AVIATION LIGHT.	41° 18.3' N 2° 04.8' E	<b>Fl.(2)W.</b> period 4s	56 17			Occasional.
5750	<i>Barcelona Approach Buoy.</i>	41° 16.9' N 2° 10.9' E	<b>Mo.(A)W.</b> period 10s		7	SAFE WATER RW, pillar; 16.	
	RACON		<b>B(- • • •)</b>		8		(3 & 10cm).
5752 <i>E 0398</i>	<b>Rio Llobregat.</b>	41° 19.5' N 2° 09.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	105 32	23	Tower octagonal tower, white circular building; 102.	Visible 240°-030°.
BARCELONA:							
5760 <i>E 0400</i>	<b>-Montjuich.</b>	41° 21.7' N 2° 10.0' E	<b>Fl.(2)W.</b> period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	354 108	26	Cupola, white and red building; 43.	Visible 240°30'-066°36'.
5761 <i>E 0401.55</i>	-Entrance Channel, E. breakwater, head.	41° 19.0' N 2° 10.4' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	52 16	10	White cylindrical tower, green bands; 43.	<b>AIS</b> (MMSI No 002242166).
5762 <i>E 0401.58</i>	-S. breakwater, elbow.	41° 18.8' N 2° 10.0' E	<b>Fl.R.</b> period 5s	46 14	7	Red cylindrical tower, white base; 13.	
5763 <i>E 0401.7</i>	--Head.	41° 19.1' N 2° 09.9' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red cylindrical structure, white base; 13.	
5763.5 <i>E 0401.59</i>	--SW. corner.	41° 17.8' N 2° 09.2' E	<b>V.Q.(3)W.</b> period 5s	46 14	3	E. CARDINAL BYB, column, topmark.	
5765 <i>E 0401.65</i>	-Muelle del Prat, NE. corner.	41° 18.9' N 2° 09.3' E	<b>Fl.(2)G.</b> period 7s	13 4	3	White and green column; 10.	
5766	-E. breakwater, elbow.	41° 19.6' N 2° 10.2' E	<b>Fl.(2)G.</b> period 7s	49 15	5		
-Dique del Este:							
5767 <i>E 0401</i>	--Spur.	41° 20.0' N 2° 10.2' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green column, white pyramidal base.	
5774 <i>E 0405</i>	-Nuevo Contradique, head.	41° 20.5' N 2° 10.0' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red cylindrical tower, white base; 16.	
5777 <i>E 0404</i>	-Quay, S. head.	41° 20.2' N 2° 09.9' E	<b>Q.R.</b>		3	Red and white beacon.	
5777.5 <i>E 0404.5</i>	--N. head.	41° 20.3' N 2° 09.9' E	<b>Q.R.</b>		3	Red and white beacon.	
5780 <i>E 0407.6</i>	-Muelle Sur, S. corner.	41° 20.8' N 2° 10.0' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	3	Red column, concrete base; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5784 <i>E 0407.62</i>	-Muelle Sur, N. corner.	41° 21.4' N 2° 10.4' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Red column, pyramidal concrete base; 10.	Port marked by numerous R. and G. lights.
5785 <i>E 0410.2</i>	-Muelle de Poniente, NE. corner.	41° 21.9' N 2° 10.8' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	3	Red column, concrete pyramid base; 10.	
5786 <i>E 0434.591</i>	-Dique de Abrigo, S. head.	41° 21.5' N 2° 11.1' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	52 16	10	White cylindrical tower, green spiral bands; 43.	<b>AIS</b> (MMSI No 992242165).
5788 <i>E 0434.592</i>	--W. end.	41° 21.5' N 2° 11.1' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	5	Green lantern; 13.	
5792 <i>E 0424</i>	-Muelle de Espana, S. corner.	41° 22.5' N 2° 11.0' E	<b>Fl.(2+1)R.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	3	Red column, green band, pyramidal concrete base; 10.	
5793 <i>E 0418.62</i>	-Muelle de Cataluna, N. corner.	41° 22.3' N 2° 11.1' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	3	Green column, pyramidal concrete base; 10.	
5793.1 <i>E 0418.6</i>	--S. corner.	41° 22.2' N 2° 11.1' E	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green column, pyramidal concrete base; 10.	
5794 <i>E 0418.5</i>	-Muelle Occidental.	41° 22.1' N 2° 11.1' E	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	3	Green column, red stripe, pyramidal concrete base; 10.	
5795 <i>E 0434.4</i>	-Industrial Dock, jetty, head.	41° 22.4' N 2° 11.2' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	2	Green column; 10.	
5796 <i>E 0434.45</i>	--W. head.	41° 22.4' N 2° 11.2' E	<b>Fl.(2+1)G.</b> period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 5	2	Green and red column.	
5800 <i>E 0434.71</i>	Puerto Olimpico, S. entrance.	41° 22.9' N 2° 11.9' E	<b>Fl.(3)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	20 6	3	Red cylindrical column.	
5801 <i>E 0434.705</i>	-Breakwater, head.	41° 23.0' N 2° 12.0' E	<b>Fl.(4)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	2	Green post; 10.	
5802 <i>E 0434.72</i>	-Submerged breakwater.	41° 23.0' N 2° 12.0' E	<b>Fl.(3)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	20 6	5	Green cylindrical column.	
5804 <i>E 0434.73</i>	-NE.	41° 23.2' N 2° 12.3' E	<b>Q.(3)W.</b> period 10s	20 6	5	E. CARDINAL BYB, beacon, topmark.	
5864 <i>E 0437</i>	-San Adrian de Besos, pier.	41° 26.4' N 2° 14.9' E	<b>Fl.(4)Y.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	SPECIAL Y, post, "X" topmark; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5866	-Power station, pier, head.	41° 25.5' N 2° 14.3' E	<b>V.Q.(3)W.</b> period 5s			3 E. CARDINAL BYB, beacon, topmark.	
5870 <i>E 0439.3</i>	Dique de Levante.	41° 28.4' N 2° 18.7' E	<b>Fl.(2)G.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	33 10		5 Green cylindrical tower; 23.	
5872 <i>E 0439.35</i>	-Dique de Poniente, head.	41° 28.5' N 2° 18.7' E	<b>Fl.(2)R.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	10 3		3 Red cylindrical tower; 10.	
5874 <i>E 0439</i>	Masnou.	41° 28.5' N 2° 18.8' E	<b>Fl.(3)G.</b> period 10s	3 1		2 Green rectangular structure; 3.	
5874.5 <i>E 0439.2</i>	-Darsena, E. head.	41° 28.6' N 2° 18.8' E	<b>Fl.(3)R.</b> period 10s	3 1		2 Red rectangular structure; 3.	
5875 <i>E 0439.5</i>	Premia de mar.	41° 29.3' N 2° 21.9' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6		5 Green post, green building; 10.	Fl.R. 3s 3m 3M marks opposite breakwater.
5875.4 <i>E 0439.8</i>	Mataro harbor.	41° 31.6' N 2° 26.7' E	<b>Fl.(4)G.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15		5 Green truncated pyramidal tower.	
5876 <i>E 0440</i>	El Balis, yacht basin.	41° 33.4' N 2° 30.4' E	<b>Fl.(4)G.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	13 4		2 Green cylindrical tower; 7.	
5880 <i>E 0446</i>	-Dique de Colvario, head.	41° 34.6' N 2° 33.5' E	<b>Fl.(2+1)R.</b> period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	16 5		2 Red truncated pyramidal tower, green band; 10.	
5884 <i>E 0446.5</i>	-Dique de Portinol, head.	41° 34.5' N 2° 33.5' E	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9		5 Green four-sided tower, white house; 16.	
5888 <i>E 0448</i>	<b>Calella.</b>	41° 36.5' N 2° 38.7' E	<b>Fl.(3+2)W.</b> period 20s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 7.1s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 7.2s	164 50	18	White cylindrical tower, white building; 33.	Aeromarine light.
5891 <i>E 0452</i>	Puerto de Blanes, Dique de Abrigo, head.	41° 40.4' N 2° 47.8' E	<b>Fl.G.</b> period 3s	23 7		5 White and green cylindrical column, white triangular daymark point up; 10.	
5892 <i>E 0452.2</i>	Blanes, breakwater, head.	41° 40.3' N 2° 47.8' E	<b>Fl.(2)G.</b>			1 Green conical structure, white post; 10.	
5893 <i>E 0452.08</i>	-Contradique, head.	41° 40.3' N 2° 47.8' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	23 7		3 Red and white post, white four- sided base; 13.	
5894 <i>E 0452.1</i>	-Breakwater, head.	41° 40.5' N 2° 48.0' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6		2 White four-sided base; 13.	
5895 <i>E 0452.7</i>	Canelles, Dique de Abrigo.	41° 42.2' N 2° 52.8' E	<b>Fl.(4)G.</b> period 11s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.3s	16 5		5 Green cylindrical column, green base; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5896 E 0453	<b>Cabo Tossa.</b>	41° 43.1' N 2° 56.0' E	<b>Fl.(3+1)W.</b> period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s fl. 0.2s, ec. 7.3s	197 60	21	White four-sided tower, white dwelling; 36.	Visible 229°42'-064°12'.
SAN FELIU DE GUIXOLS:							
5900 E 0456	-Mole, head.	41° 46.6' N 3° 02.0' E	<b>Fl.(3)G.</b> period 9s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 3s	33 10	5	Green and white four-sided tower; 20.	Iso.W. 3s 4M and Oc.W. 3s 4M in line 343°, marks anchorage.
5912 E 0459	Playa de Aro.	41° 48.2' N 3° 04.0' E	<b>Fl.(2)G.</b> period 9s fl. 1.5s, ec. 2s fl. 1.5s, ec. 4s	20 6	5	Green and white round tower; 10.	
PALAMOS:							
5916 E 0462	<b>-Punta del Molino.</b>	41° 50.5' N 3° 07.7' E	<b>Oc.(1+4)W.</b> period 18s lt. 1.4s, ec. 1s lt. 1.4s, ec. 1s lt. 1.4s, ec. 1s lt. 4.4s, ec. 1s lt. 4.4s, ec. 1s	72 22	18	White cylindrical tower, gray cupola; 26.	
5920 E 0460	-Bajo Pereira (Llosa) on Palanos Reef.	41° 50.2' N 3° 07.3' E	<b>Fl.(2)W.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	ISOLATED DANGER BRB, beacon, topmark.	
5924 E 0464	-Dique de Abrigo, head.	41° 50.5' N 3° 07.2' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	30 9	5	Green structure spherical; 20.	
5926 E 0466.6	-Darsena Pesquera, S. jetty, head.	41° 50.6' N 3° 07.5' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	White conical column, white four-sided base; 13.	
5927 E 0466.4	--N. jetty, head.	41° 50.6' N 3° 07.5' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	Red cylindrical structure, white four-sided base; 13.	
5928 E 0466.7	-Puerto Deportivo, breakwater.	41° 50.6' N 3° 08.1' E	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	36 11	5	Green cylindrical tower; 26.	
5929 E 0466.75	--N. breakwater.	41° 50.7' N 3° 08.1' E	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	13 4	3	Red post; 7.	
5930 E 0466.8	--Inner breakwater.	41° 50.7' N 3° 08.2' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	7 2	3	Green post; 3.	
5932 E 0467	-Hormiga Grande, N. coast.	41° 51.8' N 3° 11.1' E	<b>Fl.(3)W.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14	6	White cylindrical tower, white building; 20.	
5936 E 0468	-Llanfranch, shelter mole, head.	41° 53.6' N 3° 11.7' E	<b>Fl.(3)G.</b> period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7.5s	20 6	5	Green and white truncated conical; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
5940 <i>E 0470</i>	<b>Cabo de San Sebastian.</b>	41° 53.8' N 3° 12.1' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	548 167	32	White cylindrical tower, white dwelling, red roof; 39.	Visible 197°-165°. <b>DGPS Station.</b>
5942 <i>E 0471.2</i>	Punta del Mut.	41° 56.4' N 3° 13.0' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	5	Green post, white base; 10.	
5944 <i>E 0472</i>	Islas Medas, summit of Meda Grande.	42° 02.9' N 3° 13.3' E	<b>Fl.(4)W.</b> period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	285 87	14	Tower, white building; 36.	
5948 <i>E 0474</i>	Estartit, mole, head.	42° 03.0' N 3° 12.4' E	<b>Fl.(2)G.</b> period 13s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 4	3	Green lantern; 13.	
5952 <i>E 0474.4</i>	-Contradique, head.	42° 07.2' N 3° 08.7' E	<b>Fl.(2)R.</b> period 13s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	10 3	3	Red and white post.	
5956 <i>E 0475.4</i>	La Escala, la Clota, breakwater.	42° 07.1' N 3° 08.7' E	<b>Fl.(4)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	16 5	3	Green cylindrical structure, white column; 10.	Visible 097°-008°.
5956.5 <i>E 0475.42</i>	-Espigon de Defensa, head.	42° 07.0' N 3° 08.6' E	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	6	Green conical structure, cement base; 10.	
5960 <i>E 0475.5</i>	Ampuriabrava, Dique de Poniente.	42° 14.7' N 3° 08.2' E	<b>Fl.(3)G.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	26 8	5	Green and white truncated conical column; 13.	
5960.5 <i>E 0475.52</i>	-W. dike, head.	42° 14.7' N 3° 08.1' E	<b>Fl.(3)R.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	26 8	4	Red and white truncated pyramidal tower; 13.	
5961 <i>E 0475.53</i>	-Transverse dike, head.	42° 14.8' N 3° 08.1' E	<b>Fl.(4)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	10 3	3	White and red truncated conical column; 3.	
5961.5 <i>E 0475.54</i>	-Parallel dike.	42° 14.8' N 3° 08.1' E	<b>Fl.(4)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	13 4	3	Green and white truncated pyramidal tower; 3.	
<b>SANTA MARGARITA:</b>							
5964 <i>E 0475.6</i>	-Dique de Abrigo.	42° 15.4' N 3° 09.0' E	<b>Q.(2)G.</b> period 4s	26 8	5	White and green cylindrical column; 20.	
5968 <i>E 0475.7</i>	-Contradique.	42° 15.5' N 3° 09.0' E	<b>Q.(2)R.</b> period 4s	20 6	3	White and red cylindrical column; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SPAIN-MEDITERRANEAN SEA</b>							
BAHIA DE ROSAS:							
5972 <i>E 0476</i>	-Punta de la Batteria.	42° 14.8' N 3° 11.0' E	<b>Oc.(4)W.</b> period 15s lt. 1s, ec. 1.5s lt. 1s, ec. 1.5s lt. 1s, ec. 1.5s lt. 6s, ec. 1.5s	79 24	12	White cylindrical tower, white dwelling; 36.	
5976 <i>E 0479</i>	-Muelle de Abrigo, head.	42° 15.1' N 3° 10.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	5	Green cylindrical structure, white building; 13.	
5980 <i>E 0480</i>	-Muelle comercial, head.	42° 15.2' N 3° 10.7' E	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post, red building; 13.	Visible 170°-125°.
5984 <i>E 0484</i>	Punta de Cala Nans, Cadaques, entrance, S. side.	42° 16.2' N 3° 17.2' E	<b>Fl.(4+1)W.</b> period 25s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s fl. 0.5s, ec. 7.5s	108 33	8	Cylindrical tower, white dwelling; 23.	
5988 <i>E 0486</i>	<b>Cabo de Creus.</b>	42° 19.1' N 3° 18.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	285 87	20	White cylindrical tower, white dwelling, red roof; 36.	
5992 <i>E 0488</i>	Puerto de la Selva Punta Sernella.	42° 21.1' N 3° 11.2' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	72 22	13	White four-sided tower, dwelling.	
5996 <i>E 0489</i>	-Punta Trench, mole, head.	42° 20.4' N 3° 12.0' E	<b>Fl.(4)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	5	Red and white column, dwelling; 16.	
6000 <i>E 0490</i>	Embarcadero de Culera, Dique de Levante, head.	42° 24.3' N 3° 09.5' E	<b>Fl.(2)R.</b> period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	23 7	5	Red and white four-sided post; 10.	
6004 <i>E 0490.4</i>	-Contradique, head.	42° 24.3' N 3° 09.5' E	<b>Fl.(2)G.</b> period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	16 5	3	Green four-sided column, white base; 10.	

# Section 5

## Mediterranean Coast of France and Monaco

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-MEDITERRANEAN SEA</b>							
6008 <i>E 0492</i>	<b>Cap Cerbere.</b>	42° 26.4' N 3° 10.5' E	<b>Fl.W.</b> period 4s fl. 0.1s, ec. 3.9s	180 55	15	Gray pyramidal tower, red top; 33.	
6009 <i>E 0492.2</i>	-Sector.	42° 26.5' N 3° 10.2' E	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	W. 9 R. 6	Red structure; 3.	W. 210°-237°, R.-210°.
6012 <i>E 0495</i>	Banyuls, Ile Petite, NE. jetty.	42° 29.0' N 3° 07.9' E	<b>Q.W.R.</b>	30 9	W. 10 R. 7	White column, red top; 23.	R. 283°-194° W. -231°, R.- 246°.
6020 <i>E 0496</i>	<b>Cap Bear.</b>	42° 30.9' N 3° 08.2' E	<b>Fl.(3)W.</b> period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	262 80	30	Gray pyramidal tower, red top; 88.	Visible 146°-056°.
PORT VENDRES:							
6024 <i>E 0498</i>	-Fort Fanal, entrance, W. side.	42° 31.3' N 3° 06.8' E	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	95 29	8	White square tower, dark green house; 59.	Visible 147°-264°.
6028 <i>E 0498.5</i>	-Fort Fanal beacon, about 50 meters ESE of fort.	42° 31.3' N 3° 06.9' E	<b>Q.G.</b>	29 9	7	White tower, dark green top; 30.	
6032 <i>E 0506</i>	-Anse Gerbal, jetty, head.	42° 31.2' N 3° 06.8' E	<b>Iso.G.</b> period 4s	13 4	6	White pylon, green top; 10.	
6036 <i>E 0508</i>	-Pointe des Pilotes.	42° 31.2' N 3° 06.7' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	13 4	7	White column, dark green top; 10.	
6040 <i>E 0509</i>	-Pointe de la Presqu'île.	42° 31.1' N 3° 06.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	10 3	6	Red metal structure; 7.	
6044 <i>E 0504</i>	-Entrance, E. side, mole, head.	42° 31.4' N 3° 07.1' E	<b>Oc.(3)R.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	65 20	11	White hexagonal hut, red top; 56.	Visible 110°-287°.
6048 <i>E 0497</i>	-Entrance Range, front.	42° 31.1' N 3° 06.9' E	<b>Q.W.</b>	39 12	10	Red structure, white hut, gray base; 20.	
6052 <i>E 0497.1</i>	--Rear, about 200 meters 198°-30' from front.	42° 31.0' N 3° 06.8' E	<b>Q.W.</b>	75 23	18	White tower, red top, red and white checkered stripe; 36.	Intensified 196°-199°. Synchronized with front.
6056 <i>E 0512</i>	Collioure, jetty, head.	42° 31.7' N 3° 05.3' E	<b>Iso.G.</b> period 4s	46 14	8	Dark green structure, cylindrical hut; 23.	Visible 135°-278°.
6060 <i>E 0512.5</i>	-Argeles-sur-Mer, jetty, NE. head.	42° 32.6' N 3° 03.2' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	5	Green metal column; 7.	
6064 <i>E 0512.6</i>	--Jetty, SW. head.	42° 32.7' N 3° 03.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	4	White metal column, red top, gallery; 16.	
6068 <i>E 0513</i>	Saint Cyprien, S. jetty, head.	42° 37.3' N 3° 02.4' E	<b>Fl.(4)R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	39 12	9	Gray metal column, red gallery; 23.	North jetty pierhead marked by F.W. lights.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-MEDITERRANEAN SEA</b>							
6072 <i>E 0514.5</i>	<b>Canet-Plage.</b>	42° 42.4' N 3° 02.2' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	89 27	15	White structure; 79.	
6076 <i>E 0515</i>	-S. jetty, head.	42° 42.2' N 3° 02.5' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	9	White column, red top; 20.	
6077 <i>E 0515.2</i>	-N. jetty, head.	42° 42.2' N 3° 02.4' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	5	White pylon, green top; 10.	
6078 <i>E 0516</i>	Sainte-Marie-la-Mer, N. breakwater, head.	42° 43.4' N 3° 02.4' E	<b>Fl.(5)G.</b> period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	16 5	4	Gray post, green top; 10.	
6078.5 <i>E 0516.1</i>	-S. breakwater, head.	42° 43.4' N 3° 02.4' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	20 6	6	Gray post, red top; 10.	
6080 <i>E 0514</i>	<b>Perpignan-Riversaltes,</b> AVIATION LIGHT.	42° 43.9' N 2° 52.5' E	<b>Mo.(X)W.</b> period 8.5s	190 58	33	Pylon; 46.	
6084 <i>E 0517</i>	Grau S. Ange, S. jetty, head.	42° 47.9' N 3° 02.4' E	<b>Fl.(2)R.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	33 10	10	White column, red top; 23.	Fl.G. 2.5s marks N. jetty.
6088 <i>E 0518</i>	<b>Cap Leucate.</b>	42° 54.6' N 3° 03.3' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	216 66	20	White pyramidal tower, red top; 62.	
6092 <i>E 0517.6</i>	Leucate, E. jetty.	42° 52.4' N 3° 03.2' E	<b>Fl.R.</b> period 4s	26 8	6	White column, red top; 20.	
6096 <i>E 0517.7</i>	-W. jetty, head.	42° 52.5' N 3° 03.1' E	<b>Fl.G.</b> period 4s	26 8	6	White column, dark green top; 20.	
6097 <i>E 0517.8</i>	-Pleasure harbor, entrance, S. coast.	42° 52.3' N 3° 03.1' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	10 3	2	Red tower; 7.	
6098 <i>E 0517.9</i>	--N. coast.	42° 52.3' N 3° 03.3' E	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	10 3	2	Green tower; 7.	
PORT-LA-NOUVELLE:							
6100 <i>E 0522</i>	-S. jetty, head, Range, front.	43° 00.8' N 3° 04.2' E	<b>Q.W.</b>	75 23	14	White tower, red top; 59.	
6100.1 <i>E 0522.1</i>	--Rear, 3500 meters 292°24' from front.	43° 01.5' N 3° 01.8' E	<b>Q.W.</b>	174 53	17	Tower.	
6104 <i>E 0524</i>	-N. jetty, head.	43° 00.8' N 3° 04.2' E	<b>Iso.G.</b> period 4s	49 15	6	White truncated tower, green top; 39.	
CANAL DU GRAZEL:							
6106 <i>E 0525</i>	-S. jetty, head.	43° 05.7' N 3° 06.7' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	20 6	4	White post, red top; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-MEDITERRANEAN SEA</b>							
6106.5 <i>E 0525.2</i>	-N. jetty, head.	43° 05.7' N 3° 06.7' E	<b>Oc.(2)G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	20 6	3	White metal post, green top; 13.	
6107 <i>E 0526</i>	Gruissan.	43° 06.6' N 3° 07.9' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	6	Gray structure, red top; 26.	
PORT L'ORB:							
6108 <i>E 0529</i>	-Port de Valras, SW. jetty, head.	43° 14.7' N 3° 18.0' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	30 9	9	Aluminum structure, red top; 20.	
6112 <i>E 0528</i>	-NE. jetty, head.	43° 14.7' N 3° 18.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	6	White metal column, green top, square gallery; 16.	
6113 <i>E 0527.2</i>	<b>Bassin des Exals.</b>	43° 10.4' N 3° 10.8' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	79 24	15	Gray metal tower; 33.	Visible 220°-040°.
6114 <i>E 0527.5</i>	Port of Narbonne-Plage, N. jetty.	43° 10.4' N 3° 11.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	1	Green metal post; 13.	
6115 <i>E 0527.52</i>	-S. jetty.	43° 10.1' N 3° 11.2' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	Red metal post; 13.	
6120 <i>E 0526.2</i>	-N. jetty, head.	43° 06.7' N 3° 07.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	36 11	6	White pylon, green top; 30.	
6122 <i>E 0527.7</i>	Embouchure de l'Aude, E. dike, head.	43° 12.6' N 3° 14.5' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Round aluminum structure, green top; 23.	
6122.5 <i>E 0527.8</i>	-W. dike, head.	43° 12.7' N 3° 14.4' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	23 7	5	Aluminum tripod, red top; 13.	
6123 <i>E 0527.65</i>	Mimosa.	43° 13.2' N 3° 15.6' E	<b>Q.(3)W.</b> period 10s		4	E. CARDINAL BYB, beacon, topmark.	
HERAULT:							
6124 <i>E 0535</i>	-E. jetty, head.	43° 16.8' N 3° 26.6' E	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	46 14	7	White truncated tower, green top; 36.	F.R. lights are shown from 2 radio masts about 3 km. ENE. <b>Horn:</b> 1 bl. ev. 10s (bl. 5s, si. 5s).
6128 <i>E 0534</i>	-W. jetty, head.	43° 16.8' N 3° 26.6' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	7	White truncated tower, red top; 36.	
6132 <i>E 0535.4</i>	-La Lauze Beacon, Cap d'Agde.	43° 16.0' N 3° 30.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	5	White truncated tower, green top; 33.	
6136 <i>E 0538</i>	Ile de Brescou, S. of Fort Brescou.	43° 15.8' N 3° 30.1' E	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	72 22	W. 13 R. 10	White tower, red top; 46.	R. 113°-190°, W.-113°. 2 F.R. on radio masts 1.9M NW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-MEDITERRANEAN SEA</b>							
6140 <i>E 0536</i>	Rade de Brescou, Agde, E. jetty.	43° 16.1' N 3° 30.4' E	<b>Fl.(3)G.</b> period 12s	26 8	6	White column, dark green top; 16.	Synchronized with 6144.
6144 <i>E 0536.2</i>	-W. jetty.	43° 16.1' N 3° 30.3' E	<b>Fl.(3)R.</b> period 12s	26 8	6	White column, red top; 16.	Synchronized with 6140.
PORT AMBONNE:							
6148 <i>E 0540</i>	-NE. jetty, head.	43° 17.5' N 3° 31.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		4	Mast, green top; 3.	Synchronized with 6152.
6152 <i>E 0539</i>	-SW. jetty, head.	43° 17.4' N 3° 31.8' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	6	White column, red top; 23.	Synchronized with 6148.
6154 <i>E 0542</i>	-W. jetty, head.	43° 19.0' N 3° 33.7' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	23 7	8	White column, red top; 20.	
6162 <i>E 0545</i>	Port des Quilles.	43° 23.5' N 3° 39.8' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	5	Gray metal posts, rectangular structure, green top; 13.	Fl.(3)R. 12s 4M and Fl.G. 2.5s 1M mark head of jetties.
SETE:							
6164 <i>E 0544</i>	<b>-Mont de Sete (Mont St. Clair).</b>	43° 23.7' N 3° 41.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	305 93	27	White octagonal tower, dark green lantern; 75.	Visible 215°-105°.
6168	-Approach buoy.	43° 15.0' N 3° 54.0' E	<b>Iso.W.</b> period 4s			SAFE WATER RW, pillar, topmark.	<b>Whistle. Radar reflector.</b>
6180 <i>E 0546</i>	-Mole Saint-Louis.	43° 23.8' N 3° 42.1' E	<b>Fl.(4)R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	112 34	7	White truncated tower, red lantern; 98.	
6184 <i>E 0552</i>	--S. jetty.	43° 23.7' N 3° 42.1' E	<b>Fl.R.</b> period 4s	33 10	7	Three-sided hut, red and white square daymark; 23.	Synchronized with 6188.
6188 <i>E 0551</i>	-Epi Dellon, W. jetty, head.	43° 23.6' N 3° 42.1' E	<b>Fl.G.</b> period 4s	33 10	6	Tower, green top; 23.	Synchronized with 6184.
6192 <i>E 0550</i>	--E. breakwater, center.	43° 23.8' N 3° 42.5' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	49 15	3	White octagonal tower, red top, red base, 26.	Visible 063°-253°.
6196 <i>E 0547</i>	-E. breakwater, center.	43° 23.8' N 3° 43.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	69 21	3	White truncated tower, red top; 69.	Visible 080°-268°.
6200 <i>E 0547.5</i>	--E. extremity.	43° 23.9' N 3° 43.9' E	<b>Iso.R.</b> period 4s	66 20	11	White sails; 49.	
6204 <i>E 0547.7</i>	-Digue E.	43° 24.1' N 3° 43.6' E	<b>Iso.G.</b> period 4s	33 10		White pylon, green top; 23.	
6212 <i>E 0548</i>	--W. jetty, head.	43° 23.9' N 3° 42.8' E	<b>Fl.(3)G.</b> period 12s	10 3	3	White tower, green top; 10.	
6214 <i>E 0547.77</i>	-Digue Sud, W. breakwater.	43° 24.4' N 3° 43.6' E	<b>Fl.G.</b> period 2.5s				Not visible from seaward.
6214.1 <i>E 0557.6</i>	--Canal Fluvio.	43° 25.1' N 3° 44.6' E	<b>Fl.(2)W.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 6 G. 4	Gray mast; 13.	W.242°-062°, G.-242°.

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6214.2 <i>E 0557.4</i>	--E. breakwater, head.	43° 25.2' N 3° 44.9' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	6	Concrete column; 10.	
6216 <i>E 0557.2</i>	Frontignan, E. dike, head.	43° 25.1' N 3° 44.9' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	49 15	7	Concrete structure; 26.	S. dike marked by Fl.(3)R. 12s 6M (head) and Fl.(2)W.G. 6s 6-4M (W. side).
6221 <i>E 0558</i>	--W. dike, head.	43° 25.8' N 3° 46.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	6	Metal column, red top; 23.	
6222 <i>E 0558.2</i>	--E. dike, head.	43° 25.8' N 3° 46.7' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	8	Metal column, green top; 23.	
6224 <i>E 0556</i>	--W. mole, head.	43° 24.0' N 3° 42.1' E	<b>Q.R.</b>	23 7	6	White column, red top; 16.	Visible within Frontignan Jetty.
6228 <i>E 0557</i>	--E. mole, head.	43° 24.0' N 3° 42.2' E	<b>Q.G.</b>	20 6	8	White column, green top; 13.	Visible within Frontignan Jetty.
6232 <i>E 0555</i>	--Mole Masselin.	43° 23.9' N 3° 42.2' E	<b>Fl.(4)G.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	26 8	4	White column, green top; 23.	
ETANG DE THAU:							
6236 <i>E 0560</i>	-Canal de Sete, N. entrance, E. side.	43° 24.9' N 3° 41.4' E	<b>Q.G.</b>	26 8	3	White column, green top; 23.	Synchronized with 6240.
6240 <i>E 0561</i>	---W. side.	43° 24.9' N 3° 41.3' E	<b>Q.R.</b>	26 8	3	White column, red top; 23.	Synchronized with 6236.
6241 <i>E 0561.5</i>	-Pointe du Barrou.	43° 25.5' N 3° 40.4' E	<b>Q.W.</b>	20 6		N. CARDINAL BY, tower, topmark; 26.	
6244 <i>E 0562</i>	-Rocher de Roquerols.	43° 25.8' N 3° 40.3' E	<b>Q.(6)+L.Fl.W.</b> period 15s	23 7	4	S. CARDINAL YB, tower, topmark; 20.	
SETE:							
6248 <i>E 0566</i>	-Meze, E. jetty, head.	43° 25.3' N 3° 36.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	6	White octagonal pyramidal structure, green top; 23.	
GOLFE D'AIGUES-MORTES:							
6260 <i>E 0579</i>	-Montpellier Frejorge, AVIATION LIGHT.	43° 34.6' N 3° 57.7' E	<b>Mo.(Y)W.</b> period 12.5s	52 16		Control tower.	Occasional.
6264 <i>E 0577</i>	-Palavas les Flots, E. jetty.	43° 31.6' N 3° 56.1' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	6	Metal mast; 13.	Synchronized with 6268.
6268 <i>E 0576</i>	--W. jetty.	43° 31.6' N 3° 56.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	6	Metal mast; 26.	Synchronized with 6264.
6269 <i>E 0577.4</i>	--Le Lez.	43° 31.7' N 3° 56.1' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	20 6	4	White tower, red top; 3.	Visible 045°-315°. Synchronized with 6270.
6270 <i>E 0577.5</i>	---Breakwater, head.	43° 31.6' N 3° 56.1' E	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	26 8	5	White tower, green top; 20.	Synchronized with 6269.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-MEDITERRANEAN SEA</b>							
6272 <i>E 0578</i>	-Carnon, SW. jetty.	43° 32.4' N 3° 58.6' E	<b>Fl.(4)R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	29 9	7	White column, red top; 20.	Fl.G. 4s on E. jetty.
6276 <i>E 0580</i>	-La Grande Motte, Digue Ouest.	43° 33.1' N 4° 04.9' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	7	Pediment, red lantern; 39.	
6280 <i>E 0578.2</i>	--Digue Est.	43° 32.5' N 3° 58.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	5	White tower, green top; 20.	
6284 <i>E 0582</i>	--E. jetty, head.	43° 32.1' N 4° 07.9' E	<b>Fl.(3)G.</b> period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	33 10	10	White column, green top; 30.	
-Port Camargue (Espiguette):							
6288 <i>E 0582.2</i>	--W. jetty, head.	43° 32.1' N 4° 07.9' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	7	White column, red top; 30.	
6292 <i>E 0583</i>	--Digue d'arret, (spur of S. jetty), head.	43° 31.2' N 4° 07.3' E	<b>V.Q.(9)W.</b> period 10s	30 9	9	W. CARDINAL YBY, beacon, topmark; 23.	
6296 <i>E 0583.2</i>	--W. jetty, head.	43° 31.3' N 4° 07.3' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	9	White column, green top; 23.	
6300 <i>E 0583.4</i>	--E. jetty, head.	43° 31.3' N 4° 07.4' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	6	White column, red top; 20.	
6304 <i>E 0584.2</i>	--Entrance, W. head.	43° 30.6' N 4° 06.9' E	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	23 7	4	White structure, green top; 10.	Visible 059°-345°.
6308 <i>E 0584.4</i>	--E. head.	43° 30.6' N 4° 07.0' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	23 7	4	White structure, red top; 10.	Visible 063°-345°.
6312	-SW. Whistle Buoy.	43° 29.1' N 4° 06.5' E	<b>V.Q.(9)W.</b> period 10s	13 4	8	W. CARDINAL YBY, pillar, topmark.	<b>Whistle. Radar reflector.</b>
6320 <i>E 0586</i>	<b>Pointe de L'Espiguette.</b>	43° 29.3' N 4° 08.5' E	<b>Fl.(3)W.</b> period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	89 27	24	White square tower, black top; 89.	
6330 <i>E 0590</i>	Port Gardian W. levee, head.	43° 26.8' N 4° 25.3' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	29 9	7	White structure, red top; 16.	Visible 117°-075°.
6331 <i>E 0590.2</i>	-E. levee, head.	43° 26.8' N 4° 25.4' E	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	26 8	2	Green structure; 13.	Visible 140°-326°.
6340	<i>Approach Buoy, Saintes Maries-de-la-Mer.</i>	43° 23.0' N 4° 26.0' E	<b>Iso.W.</b> period 4s			SAFE WATER RW, pillar, topmark.	<b>Radar reflector.</b>
GOLFE DES SAINTES-MARIES:							
6344 <i>E 0594</i>	-Pointe du Sablom.	43° 21.9' N 4° 35.1' E	<b>Fl.(2)R.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	85 26	18	White truncated tower, dwelling, black cupola; 89.	
6348 <i>E 0592</i>	-La Gacholle, gulf, N. side.	43° 27.3' N 4° 34.2' E	<b>Fl.W.R.G.</b> period 4s fl. 1s, ec. 3s	57 17	W. 12 R. 9 G. 9	White square tower, black top, house, white lantern; 59.	G. 300°-019°, W.-065°, R.-085°.

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6352 <i>E 0597</i>	-Beauduc.	43° 20.7' N 4° 33.7' E	<b>V.Q.(9)W.</b> period 10s	23 7	4	W. CARDINAL YBY, beacon, topmark.	<b>Radar reflector.</b>
6356 <i>E 0600</i>	<b>Etang de Faraman.</b>	43° 21.3' N 4° 41.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	135 41	23	White truncated tower, black bands; 141.	
GOLFE DE FOS:							
6393 <i>E 0600.5</i>	-Roustan East.	43° 19.1' N 4° 52.0' E	<b>Q.(3)W.</b> period 10s	23 7		E. CARDINAL BYB, beacon, topmark.	
6394 <i>E 0601.05</i>	-Balancelle.	43° 20.4' N 4° 55.5' E	<b>V.Q.(3)W.</b> period 5s	13 4	4	E. CARDINAL BYB, beacon, topmark.	
6395	-Annibal Est.	43° 21.8' N 4° 55.5' E	<b>Q.(3)W.</b> period 10s	23 7	3	E. CARDINAL BYB, beacon, topmark; 26.	
6396 <i>E 0604</i>	-Port de Fos, Entrance Range, front.	43° 24.4' N 4° 52.1' E	<b>Q.W.</b>	36 11	11	Gray pylon, two red square daymarks; 33.	Intensified 285°30'-288°30'.
	---Auxiliary light.		<b>V.Q.G.</b>		4		Visible 266°-281°. Covers tank wharf.
6400 <i>E 0604.1</i>	---Rear, 500 meters 287° from front.	43° 24.5' N 4° 51.7' E	<b>Q.W.</b>	95 29	11	Gray pylon, two red square daymarks; 92.	Intensified 285°30'-288°30'. Synchronized with front.
6401 <i>E 0603.7</i>	--Mole Graveleau Range, front.	43° 24.1' N 4° 51.5' E	<b>Q.R.</b>	49 15	11	White framework pylon, two orange horizontal square daymarks.	Visible 270°-280°.
6402 <i>E 0603.71</i>	--Rear, 340 meters 275° from front.	43° 24.1' N 4° 51.3' E	<b>Q.R.</b>	72 22		White framework pylon, blue top, orange square daymark.	Visible 270°-280°.
6404 <i>E 0603</i>	-Port-St.-Louis-du-Rhone.	43° 23.1' N 4° 48.3' E	<b>Q.W.</b>	49 15	10	Gray square tower, gray lantern; 69.	Intensified 262°-265°.
6408 <i>E 0602</i>	-Canal de St. Louis, S. jetty.	43° 23.4' N 4° 52.3' E	<b>Q.W.R.</b>	47 14	W. 11 R. 8	White tower, red top; 39.	W. 072°-267°30', R.-072°.
6450 <i>E 0605</i>	-Post 1.	43° 24.9' N 4° 53.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	5	Dark green pylon; 16.	
6452 <i>E 0605.2</i>	-Basin No 1, 340°.	43° 26.0' N 4° 52.3' E	<b>Dir.W.R.G.</b> period 4s fl. 3s, ec. 1s	82 25	W. 15 R. 12 G. 12	Column; 72.	Oc.G. 333°-339°, Oc.W.- 341°, Oc.R.-344°.
6453 <i>E 0605.4</i>	--LNG pier, head.	43° 26.9' N 4° 51.3' E	<b>Iso.R.</b> period 4s	33 10	7		
6454 <i>E 0604.5</i>	-Basin No 4, NE. corner.	43° 25.0' N 4° 53.8' E	<b>Q.(6)+L.Fl.W.</b> period 15s	26 8	3	S. CARDINAL YB, beacon, topmark.	
6456 <i>E 0606.8</i>	<b>-Pointe de S. Gervais.</b>	43° 25.7' N 4° 56.4' E	<b>Dir.Q.(7)W.R.G.</b> period 12s	148 45	W. 18 R. 14 G. 14	Gray tower, green top; 154.	G. 323°-340°, W.-348°, R.- 007°.
6460 <i>E 0606.9</i>	--Yacht Harbor, S. breakwater, head.	43° 25.6' N 4° 56.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	22 7	5	White pylon, green top; 16.	
6464 <i>E 0606.2</i>	<b>-Istres, Le Tube AVIATION LIGHT.</b>	43° 31.0' N 4° 56.8' E	<b>Mo.(F)W.</b> period 4s	193 59	23	Water tower; 112.	
6465 <i>E 0606.95</i>	-Lavera.	43° 22.5' N 4° 58.2' E	<b>V.Q.(9)W.</b> period 10s	23 7	8	W. CARDINAL YBY, beacon, topmark.	<b>Radar reflector.</b>
6466 <i>E 0606.98</i>	-Tasques.	43° 23.4' N 4° 58.8' E	<b>Iso.R.</b> period 4s	23 7	3	PORT (A) R, beacon, topmark.	
6468 <i>E 0607</i>	-Port de Bouc, tower fort.	43° 23.6' N 4° 59.1' E	<b>Oc.(2)W.R.G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	98 30	W. 12 R. 9 G. 9	White square tower, gray turret, red gallery; 92.	G. 321°-343°, W.-040°, R.- 087°, W.-112°, R.-140°, R.(unintensified)-230°.

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6472 <i>E 0607.2</i>	-Saint Antoine.	43° 23.6' N 4° 59.1' E	<b>V.Q.(2)G.</b>	26 8	10	White tower, dark green top; 20.	Synchronized with 6480.
6480 <i>E 0608</i>	-N. jetty, head.	43° 23.8' N 4° 59.1' E	<b>V.Q.(2)R.</b>	46 14	6	White tower, red top; 30.	Synchronized with 6472.
6484 <i>E 0609.5</i>	-Bassin des Caboteurs, mole, head.	43° 23.7' N 4° 59.3' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	6	White pylon, dark green top; 13.	
6485 <i>E 0609.6</i>	-Fishing Port, breakwater, head.	43° 23.9' N 4° 59.0' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	10 3	8	White hut, red top; 10.	
6486 <i>E 0609.8</i>	-Marina, E. jetty, head.	43° 24.1' N 4° 59.1' E	<b>Iso.G.</b> period 4s	20 6	6	Metal post; 13.	
6488 <i>E 0609</i>	-Entrance Range, front.	43° 24.2' N 4° 59.6' E	<b>Q.R.</b>	36 11	11	Red pylon, white rectangular daymark, red stripe; 36.	Intensified 027°-047°.
6492 <i>E 0609.1</i>	--Rear, about 167 meters 036°42' from front.	43° 24.3' N 4° 59.7' E	<b>Q.R.</b>	52 16	15	Red pylon, white rectangular daymark, orange stripe; 43.	Intensified 026°-048°. Synchronized with front.
6496 <i>E 0609.4</i>	-Entrance Range, front.	43° 24.2' N 4° 59.5' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	36 11	10	White pylon, red top, black rectangular daymark, yellow stripe; 36.	Intensified 020°-040°.
6500 <i>E 0609.41</i>	--Rear, about 184 meters 029°48' from front.	43° 24.3' N 4° 59.6' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	56 17	10	White pylon, red top, black rectangular daymark, yellow stripe; 36.	Intensified 019°-041°. Synchronized with front.
- Channel from Port de Bouc to Martigues:							
6504 <i>E 0610</i>	--Entrance, N. side.	43° 24.2' N 5° 00.0' E	<b>Q.R.</b>	30 9	3	Red metal post; 33.	Canal marked by R. and G. lights.
6508 <i>E 0610.2</i>	--S. side.	43° 24.2' N 5° 00.0' E	<b>Q.G.</b>	16 5	4	Gray dolphin, white tank, dark green lantern; 13.	
6509 <i>E 0610.3</i>	--La Gafette, N. side.	43° 24.2' N 5° 00.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	7	Red post; 30.	
6510 <i>E 0610.4</i>	--S. side.	43° 24.1' N 5° 00.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	4	Dolphin, white tank, dark green lantern; 13.	
6512 <i>E 0610.5</i>	--Turning basin, SW. corner.	43° 24.1' N 5° 01.2' E	<b>Q.W.</b>	16 5	6	N. CARDINAL BY, water tower, topmark; 13.	
6516 <i>E 0610.6</i>	---SE. corner.	43° 24.1' N 5° 01.5' E	<b>Q.(9)W.</b> period 15s	16 5	6	W. CARDINAL YBY, water tower, topmark; 13.	Central and southern viaduct piles are illuminated.
6517.1 <i>E 0610.65</i>	--Labillon, N.	43° 24.1' N 5° 02.3' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s		3	PORT (A) R, beacon, topmark.	
6517.2 <i>E 0610.68</i>	---E.	43° 24.1' N 5° 02.4' E	<b>Iso.G.</b> period 4s		2	STARBOARD (A) G, beacon, topmark.	
6518.1 <i>E 0610.7</i>	--Martigues, N. side.	43° 24.2' N 5° 03.0' E	<b>Q.R.</b>	26 8	3	White pylon, red top; 20.	Visible 198°-078°.
6518.2 <i>E 0610.8</i>	--S. side.	43° 24.2' N 5° 03.0' E	<b>Q.G.</b>	30 9	3	White pylon, green top; 23.	
6519 <i>E 0610.9</i>	-Port Petrolier.	43° 24.3' N 5° 05.5' E	<b>V.Q.W.</b>			N. CARDINAL BY, platform, topmark.	
6520 <i>E 0611</i>	-Port de la Mede, Trois Freres.	43° 24.3' N 5° 07.1' E	<b>Fl.G.</b> period 4s	66 20	5	White tower, dark green top; 7.	F.R. and F.G. lights along embankment.
6522 <i>E 0616.8</i>	-Les Heures Claires, breakwater, head.	43° 29.8' N 5° 00.0' E	<b>Iso.G.</b> period 4s		5		
6523 <i>E 0616.5</i>	-Saint Chamas, S. breakwater, head.	43° 32.6' N 5° 01.9' E	<b>Fl.G.</b> period 4s	10 3	2	Metal mast; 16.	

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6524 <i>E 0615</i>	-Pointe de Berre, jetty, head.	43° 27.6' N 5° 08.5' E	<b>Fl.(4)W.R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	39 12	W. 9 R. 6	White column, red lantern; 33.	W. 012°-057°, R.-012°.
6526 <i>E 0615.4</i>	-Port de Berre-l'Etange, W. dike.	43° 28.2' N 5° 10.1' E	<b>Fl.R.</b> period 4s	13 4		Hut; 7.	
6540 <i>E 0620</i>	Carro, jetty, head.	43° 19.8' N 5° 02.6' E	<b>Q.W.R.</b>	26 8	W. 9 R. 6	White column, red top; 13.	W. 322°-355°, R.-322°.
6544 <i>E 0622</i>	<b>Cap Couronne.</b>	43° 19.5' N 5° 03.2' E	<b>Fl.R.</b> period 5s fl. 0.2s, ec. 4.8s	111 34		White tower, red top; 102.	Reserve light range 13M.
6548 <i>E 0624</i>	Sausset-Les-Pins, on SW. jetty.	43° 19.7' N 5° 06.5' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10		Truncated tower; 23.	
6548.5 <i>E 0623.5</i>	-E. jetty.	43° 19.7' N 5° 06.5' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10		Truncated tower.	
6549 <i>E 0624.7</i>	Carry-Le-Rouet, E. mole, head.	43° 19.7' N 5° 09.2' E	<b>V.Q.G.</b>	30 9		Green mast; 20.	
6550 <i>E 0624.8</i>	-Pain de Sucre.	43° 19.6' N 5° 09.1' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	23 7		White truncated tower, red top; 16.	
6551 <i>E 0624.9</i>	-Esteo.	43° 19.6' N 5° 09.4' E	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	13 4		STARBOARD (A) G, beacon, topmark.	
6552 <i>E 0625.3</i>	Ilot Eveline, E. of Cap Mejean.	43° 19.8' N 5° 14.1' E	<b>Q.(6)+L.Fl.W.</b> period 15s	92 28		S. CARDINAL YB, tower, topmark; 16.	
6556 <i>E 0625.6</i>	Pointe Esquilladou.	43° 21.0' N 5° 16.7' E	<b>Fl.(4)W.R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	144 44	W. 10 R. 7	White column, red top; 13.	R. 233°-263°, W.-041°.
<b>MARSEILLE, NORTH ENTRANCE:</b>							
6560 <i>E 0628</i>	-Port de la Lave, outer mole, head.	43° 21.5' N 5° 18.2' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11		White tower, red top; 36.	
6564 <i>E 0630</i>	-Passe de l'Estaque, entrance to Marseille Rhone Canal, mole, head.	43° 21.5' N 5° 18.8' E	<b>Q.R.</b>	36 11		White column, red top; 26.	
6568 <i>E 0631</i>	-Drydock No 10, NW. breakwater, head.	43° 21.3' N 5° 18.8' E	<b>V.Q.(2)W.</b>	66 20		White pylon, red top; 56.	
6569.1 <i>E 0630.01</i>	-Port Abri, Passe des Chalutiers, W.	43° 21.4' N 5° 19.0' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8		White tank, red top; 13.	
6569.2 <i>E 0630.02</i>	---E.	43° 21.4' N 5° 19.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8		White column, green top; 20.	
6570.1 <i>E 0630.04</i>	--Detached breakwater, W. end.	43° 21.4' N 5° 19.0' E	<b>Q.(9)W.</b> period 15s	16 5		W. CARDINAL YBY, structure, topmark; 7.	



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<b>FRANCE-MEDITERRANEAN SEA</b>							
6570.2 <i>E 0630.06</i>	--E. end.	43° 21.4' N 5° 19.1' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	13 4	2	Red lantern; 7.	
6571 <i>E 0630.2</i>	-Port de Peche Entrance, E. side.	43° 21.3' N 5° 19.4' E	<b>Iso.G.</b> period 4s	26 8	7	White column, green top; 23.	Visible 030°-210°.
6572 <i>E 0634</i>	<b>-Digue Exterieur</b> , N. head.	43° 20.8' N 5° 19.1' E	<b>Fl.G.</b> period 5s fl. 0.3s, ec. 4.7s	49 15	17	White tripod, dark green top; 39.	Unintensified 187°-307°.
6580 <i>E 0635</i>	-Digue de Saumaty, head.	43° 20.9' N 5° 19.2' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	8	White tower, red top; 26.	
6584 <i>E 0635.4</i>	-Passe de Saumaty, jetty, head.	43° 21.2' N 5° 19.5' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	Green column, dolphin; 16.	
6588 <i>E 0637</i>	-Passe Leon Gourret, E. side.	43° 20.7' N 5° 19.7' E	<b>Iso.R.</b> period 4s	23 7	4	White mast, red top; 13.	Synchronized with 6592.
6592 <i>E 0636</i>	--Jetty, head, SW. side.	43° 20.6' N 5° 19.5' E	<b>Iso.G.</b> period 4s	23 7	3	White mast, green top; 13.	Visible 125°-308°. Synchronized with 6588.
6596 <i>E 0637.6</i>	-Passe de Mourepiane, N. side on jetty, head.	43° 20.9' N 5° 19.8' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	2	White column, red top; 20.	
6600 <i>E 0637.2</i>	--S. side, on jetty, head.	43° 20.8' N 5° 19.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	6	Green pylon, hut; 20.	Visible 103°-300°.
6604 <i>E 0642</i>	-Passe du Cap Janet, Mole Est.	43° 20.2' N 5° 20.5' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	6	White column, red top; 20.	
6608 <i>E 0643</i>	--Mole Ouest.	43° 20.1' N 5° 20.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	6	White column, dark green top; 20.	Visible 136°-327°.
6612 <i>E 0646</i>	-Passe de la Madrague, E. side.	43° 19.8' N 5° 20.8' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	White column, red top; 23.	Synchronized with 6616.
6616 <i>E 0644</i>	--W. side.	43° 19.7' N 5° 20.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	6	White column, dark green top; 23.	Visible 149°-322°. Synchronized with 6612.
<b>MARSEILLE, SOUTH ENTRANCE:</b>							
6620 <i>E 0654</i>	-Digue des Catalans, NW. head.	43° 17.5' N 5° 20.7' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	White pylon, dark green top; 30.	<b>Radar reflector.</b>
6624 <i>E 0656</i>	-Digue Saint Marie, SW. head.	43° 17.8' N 5° 21.2' E	<b>V.Q.(2)R.</b>	65 20	12	White pylon, red top; 66.	
6628 <i>E 0660</i>	-Pointe de la Desirade (Le Pharo).	43° 17.7' N 5° 21.2' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	43 13	7	White tower, green lantern; 49.	Visible 003°-271°.
6632 <i>E 0657</i>	-Passe de la Joilette, Digue Sainte Marie, root.	43° 18.0' N 5° 21.5' E	<b>Oc.(3)R.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	3	Red metal tower; 23.	Visible 195°-060°30'. Synchronized with 6636.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-MEDITERRANEAN SEA</b>							
6633 E 0655	-Digue du Large, S.	43° 18.3' N 5° 21.6' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s			Buoyant beacon.	
6634 E 0655.5	--N.	43° 18.5' N 5° 21.7' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s			Buoyant beacon.	
6636 E 0662	-Digue du Fort Saint-Jean, head.	43° 17.9' N 5° 21.5' E	<b>Oc.(3)G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	6	Dark green tower; 23.	Visible 001°-30'-299°. Unintensified 001°30'-009° and 277°-299°. Synchronized with 6632.
6644 E 0666	-Fort St. Nicolas, Vieux Port, entrance, S. side.	43° 17.6' N 5° 21.8' E	<b>Iso.G.</b> period 4s	26 8	1	White column, dark green top; 20.	
6648 E 0667	-Tunnel, W.	43° 17.6' N 5° 21.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	3	White tank, dark green top; 13.	
6652 E 0668	--E.	43° 17.6' N 5° 21.9' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	3	White tank, dark green top; 13.	
6656 E 0674	Banc de Sourdaras, ENE. of Ile d'If.	43° 17.0' N 5° 20.3' E	<b>Q.(9)W.</b> period 15s	46 14	7	W. CARDINAL YBY, tower, topmark; 56.	
6660 E 0676	Chateau d'If, S. approach to Marseille, E. point.	43° 16.8' N 5° 19.7' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	89 27	11	White tower, red top; 56.	Visible 152°-054°.
6662 E 0678.5	Basse Saint Esteve.	43° 16.8' N 5° 19.1' E	<b>Q.(6)+L.Fl.W.</b> period 15s	10 3	4	S. CARDINAL YB, buoyant beacon, topmark.	
6664 E 0678	Port du Frioul, mole, head.	43° 16.6' N 5° 18.6' E	<b>Iso.G.</b> period 4s	23 7	4	White metal pylon; 16.	
6668 E 0677	Ile Ratonneau.	43° 16.8' N 5° 17.2' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	112 34	7	White column, dark green top; 13.	Visible 002°-242° and 276°- 279°.
6672 E 0679	Cap Caveaux, Ile Pomegues.	43° 15.6' N 5° 17.4' E	<b>Iso.W.</b> period 4s	92 28	7	White structure, black top; 7.	Visible 228°-144°.
6674 E 0681	Port du Prado.	43° 16.0' N 5° 22.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	4	Pylon; 20.	
6676 E 0682	Pointe Rouge, breakwater, head.	43° 14.8' N 5° 21.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	6	White tower, dark green top; 23.	
6678 E 0682.5	Port de la Madrague.	43° 14.0' N 5° 21.2' E	<b>Fl.(3)G.</b> period 12s		3	White metal pylon, green top; 13.	
6680 E 0684	Ile Tiboulen.	43° 12.8' N 5° 19.6' E	<b>Fl.W.G.</b> period 4s fl. 1s, ec. 3s	190 58	W. 11 G. 8	White column, black top; 26.	G. 316°-327°, W.-142°, G.- 276°.
6684 E 0683	Les Goudes, W. jetty, head.	43° 13.0' N 5° 20.7' E	<b>Iso.G.</b> period 4s	26 8	2	White metal pyramidal support, green top; 16.	
6688 E 0680	<b>Ile du Planier.</b>	43° 11.9' N 5° 13.8' E	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	223 68	23	White tower; 217.	Visible 284°-268°.
6692 E 0685	Ilot Les Empereurs.	43° 10.1' N 5° 23.6' E	<b>Q.(6)+L.Fl.W.R.</b> period 15s	59 18	7	White mast; 7.	R. 222°-236°, W. 097°, R.- 112°.
6696 E 0687	Cassis, S. of Fort des Leques, entrance, W. side.	43° 12.8' N 5° 31.9' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11	6	White truncated column, red top; 26.	Visible 248°-068°.

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6700 <i>E 0686</i>	-Mole, head.	43° 12.8' N 5° 32.0' E	<b>Oc.(2)G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	56 17	6	White tower, green top; 56.	F.R. marks head of breakwater in Port du Prado 1.2 miles NNE.
6704 <i>E 0690</i>	Banc de la Cassidaigne.	43° 08.7' N 5° 32.8' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	59 18	7	ISOLATED DANGER BRB, tower, topmark; 79.	
6708 <i>E 0694</i>	Ciotat, Mole Berouard, entrance, W. side.	43° 10.3' N 5° 36.7' E	<b>Iso.G.</b> period 4s	49 15	11	White truncated tower, dark green top; 49.	Unintensified 134°30'-228°30'.
6712 <i>E 0693.3</i>	-Pier, head.	43° 10.2' N 5° 36.9' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	69 21	6	White support, red top; 59.	
6716 <i>E 0693</i>	-La Ciotat, jetty, head.	43° 10.3' N 5° 36.9' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	59 18	5	White support, red top; 49.	
6720 <i>E 0695</i>	-Yacht basin, S. breakwater, head.	43° 10.5' N 5° 36.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	7	White support, green top; 16.	
6724 <i>E 0697</i>	-Bassin de Capucins, entrance, E. side.	43° 10.7' N 5° 36.8' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	8	White tower, red top; 13.	
6732 <i>E 0698.2</i>	Les Leques, S. breakwater, SW. head.	43° 10.7' N 5° 40.8' E	<b>Iso.G.</b> period 4s	33 10	9	White pylon, green top; 23.	
6736 <i>E 0698</i>	-Elbow.	43° 10.7' N 5° 41.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	White structure, red top, gray base; 16.	
6740 <i>E 0698.4</i>	-Contra jetty, head.	43° 10.8' N 5° 40.9' E	<b>Q.R.</b>	10 3	6	Red support; 7.	
6742 <i>E 0699</i>	Les Beaumelles, E. jetty, head.	43° 10.0' N 5° 41.6' E	<b>Fl.(4)G.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	4	White metal pylon, green top; 20.	
6744 <i>E 0700</i>	Port Bandol.	43° 08.0' N 5° 45.4' E	<b>Oc.(4)W.R.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	30 9	W. 13 R. 10	White pylon, red top; 26.	R. 003°-351°, W.-003°.
6748 <i>E 0701</i>	-Jettee Est, head.	43° 08.1' N 5° 45.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	7 2	6	Green metal mast; 3.	
6752 <i>E 0702</i>	Ile de Bandol, Port Abri, E. jetty, head.	43° 07.8' N 5° 45.2' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	16 5	7	White tower, red top; 16.	
6756 <i>E 0702.4</i>	-W. jetty, head.	43° 07.8' N 5° 45.2' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	10 3	6	Green column; 7.	
6760 <i>E 0710</i>	<b>Ile de Grand Rouveau.</b>	43° 04.8' N 5° 46.1' E	<b>Oc.(2)W.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	148 45	15	White square tower, black lantern; 56.	Visible 297°-225°. Unintensified 225°-297°.
6764 <i>E 0704</i>	Sanary-sur-Mer, W. jetty, head.	43° 06.9' N 5° 48.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	29 9	10	White truncated tower, red top; 30.	Obscured on bearings N. of 69°.

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6766 E 0704.5	-Jetty, head.	43° 06.9' N 5° 48.1' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 2	2	White concrete block, green top; 7.	
6768 E 0706	Port de la Couduriere, W. mole, head.	43° 05.7' N 5° 48.6' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	6	Red structure; 16.	
6772 E 0708	Le Brusq, NE. jetty, head.	43° 04.6' N 5° 48.1' E	<b>Iso.G.</b> period 4s	10 3	6	Green pylon; 10.	
6776 E 0709	-Jetty, head.	43° 04.6' N 5° 48.2' E	<b>Oc.(3)W.R.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	33 10	W. 9 R. 6	Red pylon; 26.	W. 156°-166°, R.-156°.
6776.5 E 0709.65	-Entrance.	43° 04.7' N 5° 47.1' E	<b>Oc.W.R.G.</b> period 4s	10 3	W. 9 R. 7 G. 7	Lantern, gray base; 10.	G. 198°30'-207°, W.-213°, R.- 221°30'.
6778 E 0709.75	--Port des Jeunes.	43° 04.7' N 5° 47.2' E	<b>Fl.R.</b> period 4s	7 2	4	Red lantern, gray base; 3.	
6780 E 0709.4	Ile de la Tour Fondue, N. extremity.	43° 04.8' N 5° 47.4' E	<b>Fl.(4)W.R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	20 6	W. 8 R. 6	White square tower, red top; 13.	W. 132°-275°, R.-132°.
6784 E 0709.6	Ile des Embiez, port, N. side of entrance, jetty, head.	43° 04.8' N 5° 47.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	6	Green pylon; 13.	
6788 E 0713	Cap Sicie.	43° 02.8' N 5° 51.5' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	154 47	9	White mast; 10.	Visible 147°-094°. 2 F.R. lights on radio tower 1.3 km. NW.
6792 E 0712	-Port St. Elme, jetty, head.	43° 04.6' N 5° 53.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	7	Dark green pylon; 23.	
6796 E 0714	<b>-Cap Cepet, (Pointe Rascas).</b>	43° 04.1' N 5° 56.8' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	249 76	20	White square tower, dwelling, red roof, black lantern; 46.	
TOULON:							
6820 E 0716	-St. Mandrier, jetty, head.	43° 05.2' N 5° 56.0' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 17	9	White tower, red top, black base; 46.	Visible 080°-301°.
6822 E 0717.8	-Ecole de mecaniciens, N. dike, head.	43° 05.0' N 5° 55.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Metal mast; 16.	Visible 298°-225°.
6822.1 E 0717.6	-Naval Training Center North, jetty, head.	43° 05.0' N 5° 55.9' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	10 3	3	Red and white concrete pile.	
6824 E 0719.5	-Anse du Creux-Saint Georges, W. jetty, head.	43° 04.8' N 5° 55.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	5	White structure, green top; 13.	
6828 E 0719	-Pointe de la Vieille, pier, head.	43° 05.1' N 5° 55.3' E	<b>Q.R.</b>	43 13	5	White column, red top; 16.	
6832 E 0717	-Grand Jetty, S. head.	43° 05.3' N 5° 55.5' E	<b>Fl.G.</b> period 2.5s	42 13	11	White tower, black top; 30.	Visible 186°-165°.

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6834 E 0741.8	-Appontement de Tamaris.	43° 05.5' N 5° 54.1' E	<b>Oc.(4)W.R.G.</b> period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	10 3	8	Metal post; 10.	G. 338°30'-351°30', W.- 353°30', R.-006°30'.
6835 E 0741.6	-Terre-Plein.	43° 05.0' N 5° 54.0' E	<b>Fl.(3)R.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	13 4	2	White structure, red top; 13.	
6835.1 E 0741.7	-Embarcadere des Sablettes.	43° 04.8' N 5° 53.8' E	<b>Q.W.</b>	10 3	8	N. CARDINAL BY, beacon tower, topmark; 13.	
6835.5 E 0741.2	-Pontoon, head.	43° 04.9' N 5° 54.4' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s		2	Red box, white support; 7.	
6836 E 0720	-Petite Passe, jetty, S. head.	43° 06.1' N 5° 55.6' E	<b>Iso.R.G.</b> period 4s	69 21	R. 10 G. 10	White square building; 72.	G. 266°-275°, R.-294°, G.- 145°. 4 F.R. (vert.) lights are shown from a radar tower about 350 meters NE.
6837 E 0721	-Ecueil.	43° 06.2' N 5° 55.4' E	<b>V.Q.(9)W.</b> period 10s	10 3	3	W. CARDINAL YBY, beacon, topmark; 13.	
6840 E 0742	-Port du Mourillon, breakwater.	43° 06.4' N 5° 56.2' E	<b>Oc.(2)G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	7	Green column, white hut; 30.	
6844 E 0729	-Darse Vielle, entrance, W. side.	43° 07.1' N 5° 55.7' E	<b>Q.R.</b>	23 7	7	Red pylon; 30.	
6848 E 0730	--Entrance, E. side.	43° 07.1' N 5° 55.8' E	<b>Q.G.</b>	26 8	7	White pylon, green lantern; 30.	Visible 000°-280°.
6849 E 0732	--S.	43° 07.0' N 5° 55.7' E	<b>Q.G.</b>	7 2	2	Green three-sided structure, white wall.	
6852 E 0726	-Port du Commerce, N. side of entrance, S. angle of pier.	42° 06.9' N 5° 55.8' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	6	Red mast; 20.	
6856 E 0727	--Entrance, S. side.	43° 06.9' N 5° 55.9' E	<b>Iso.G.</b> period 4s	23 7	7	Dark green structure; 23.	
6860 E 0734	-Graving dock, SW. corner.	43° 06.9' N 5° 55.4' E	<b>Fl.(4)G.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	7 2	6	Green structure; 3.	
6864 E 0739	-Darse de Missiessy Range, front.	43° 07.2' N 5° 54.7' E	<b>F.Vi.</b>	30 9	3	White pylon, purple bands, white topmark; 30.	Intensified 349°-354°.
6868 E 0739.1	--Rear, about 210 meters 351°36' from front.	43° 07.3' N 5° 54.6' E	<b>F.Vi.</b>	52 16	3	White pylon, purple bands, white topmark; 52.	Intensified 349°-354°.
6872 E 0740	--Entrance, W. side.	43° 07.0' N 5° 54.7' E	<b>Iso.R.</b> period 4s	13 4	5	Red pylon; 20.	
6876 E 0740.2	--Entrance, E. side.	43° 07.0' N 5° 54.7' E	<b>Iso.G.</b> period 4s	13 4	5	Dark green pylon; 20.	
6880 E 0740.4	-Bregailion.	43° 06.5' N 5° 53.6' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	7 2	1	Green structure, dolphin; 39.	
6884 E 0741	-La Seyne, N. side of entrance to basin.	43° 06.2' N 5° 53.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	10	Green column; 20.	

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6888 E 0744	Les Salettes, jetty, head.	43° 05.2' N 6° 04.7' E	<b>Oc.(4)W.R.</b> period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	42 13	W. 10 R. 7	Red pylon; 26.	R. 005°-356°, W.-005°.
6889 E 0744.2	--Spur.	43° 05.2' N 6° 04.8' E	<b>Fl.R.</b> period 2.5s	7 2		1 White structure, red top; 3.	Visible inside the port.
6890 E 0744.3	-E. breakwater, head.	43° 05.2' N 6° 04.7' E	<b>Fl.G.</b> period 2.5s	7 2		1 White structure, green top; 3.	Visible inside the port.
6892 E 0746	Port du Niel, breakwater, head.	43° 02.1' N 6° 07.7' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	16 5		6 White structure, red top; 7.	Visible 298°-028°.
6896 E 0748	<b>Ile Grand Ribaud.</b>	43° 01.0' N 6° 08.6' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	115 35		15 White truncated tower, dwelling, black lantern; 66.	
6898 E 0748.5	Port Auguier, jetty, head.	43° 01.6' N 6° 08.8' E	<b>Fl.(2)R.</b> period 6s	20 6		2 White structure, red top.	
6900 E 0749	La Tour Fondue, jetty, head.	43° 01.6' N 6° 09.2' E	<b>Iso.G.</b> period 4s	23 7		8 Gray structure, green top; 16.	
ILE DE PORQUEROLLES:							
6904 E 0750	-Ecuels de la Jeaune Gard.	43° 00.4' N 6° 09.6' E	<b>Q.W.R.</b>	52 16	W. 6 R. 4	N. CARDINAL BY, beacon, topmark; 59.	W. 011°-253°, R.-282°, W.- 316°, R.-011°.
6908 E 0751	<b>Cap-d'Arme.</b>	42° 59.0' N 6° 12.4' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	262 80		29 White square tower, black top; 66.	Visible 142°-204°, 243°-252° and 266°-119°.
6912 E 0752	-Port de Porquerolles, new jetty, head.	43° 00.2' N 6° 11.9' E	<b>Oc.(2)W.R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 13 R. 10	White column, red top; 20.	W. 150°-230°, R.-150°.
6916 E 0753	Le Capte, E. jetty, head.	43° 03.9' N 6° 09.1' E	<b>Fl.G.</b> period 2s fl. 0.4s, ec. 1.6s	7 2		1 Green structure; 7.	
LA PLAGE:							
6920 E 0754	-NE. jetty, entrance, E. side.	43° 04.7' N 6° 09.5' E	<b>Q.G.</b>	29 9		10 Green tower; 23.	
6928 E 0754.6	-New basin, E. jetty, head.	43° 05.0' N 6° 09.7' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8		4 Gray column, green top; 16.	
6940 E 0755.6	Ceinturon, jetty, head.	43° 06.0' N 6° 10.4' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6		6 Green structure; 13.	
6944 E 0756	Les Salins (Port Pothuau), E. jetty, head.	43° 06.9' N 6° 12.1' E	<b>Oc.(3)W.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	30 9	W. 13 G. 10	Dark green pylon; 26.	G. 260°-285°, W.-012°, G.- 060°.
6948 E 0757	-W. jetty.	43° 06.9' N 6° 12.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6		6 Red structure; 20.	
6952 E 0759	Miramar, jetty, S. head.	43° 06.9' N 6° 14.8' E	<b>Fl.(2)G.</b> period 6s	26 8		8 White pylon, green top; 20.	

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<b>FRANCE-MEDITERRANEAN SEA</b>							
6953 E 0761	-Maravenne River, E. breakwater, head.	43° 07.0' N 6° 15.0' E	<b>Q.(9)W.</b> period 15s	20 6	6	W. CARDINAL YBY, column, topmark; 13.	
6954 E 0760	-SW. jetty, head.	43° 06.9' N 6° 14.8' E	<b>Fl.(2)R.</b> period 6s	20 6	4	White pylon, red top; 13.	
6955 E 0762	Batterie des Maures.	43° 06.6' N 6° 17.1' E	<b>Q.(9)W.</b> period 10s	26 8	5	W. CARDINAL YBY, beacon, topmark; 16.	
6956 E 0764	<b>Cap Benat.</b>	43° 05.3' N 6° 21.8' E	<b>Fl.R.</b> period 5s fl. 0.2s, ec. 4.8s	198 60	21	White tower, red lantern; 52.	Visible 207°-288°, 327°-330°, 001°-042° and 060°- 096°. Reserve light visible 176°- 118°.
6960 E 0765.4	Le Pradet, jetty, head.	43° 05.5' N 6° 22.0' E	<b>Fl.R.</b> period 2s fl. 0.4s, ec. 1.6s	13 4	1	Red pylon; 7.	Occasional.
6964 E 0765	Bormes-Pes-Mimosas, E. jetty, head.	43° 07.5' N 6° 22.0' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White pylon, red top; 23.	Fl.R. 2s shown at N. end of wharf of Capitainerie.
6968 E 0766	Le Lavandouj, E. jetty.	43° 08.1' N 6° 22.3' E	<b>Iso.W.G.</b> period 4s	26 8	W. 13 G. 10	Tripod; 26.	W. 266°-317°, G.-332°, W.- 358°, G.-266°.
6972 E 0765.3	La Fourmiquie, rock.	43° 06.3' N 6° 24.2' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	8	Black mast, red bands; 23.	
6974 E 0769	Ile du Levant, Port de l'Avis.	43° 01.7' N 6° 27.2' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	6	Dark green pylon; 36.	
6975 E 0769.5	--Breakwater, head.	43° 01.7' N 6° 27.4' E	<b>Q.(3)W.R.G.</b> period 5s	46 14	W. 8 R. 7 G. 7		G.112°-123°, W.-131°, R.- 142°.
6976 E 0770	<b>Le Titan.</b>	43° 02.8' N 6° 30.6' E	<b>Fl.W.</b> period 5s	230 70	28	White tower, black top, dwelling; 33.	Visible 154°-044°.
6984 E 0771	Cavalaire, new jetty, head.	43° 10.4' N 6° 32.3' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	10	White column, red top; 30.	Fl.G. 2.5s light shown about 130 meters SW.
6988 E 0772	<b>Cap Camarat.</b>	43° 12.1' N 6° 40.5' E	<b>Fl.(4)W.</b> period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	426 130	26	White square tower, black top; 82.	Visible 190°-049°.
6992 E 0774	Basse de La Moutte.	43° 16.4' N 6° 42.6' E	<b>Q.(3)W.R.</b> period 10s	36 11	W. 9 R. 6	E. CARDINAL BYB, tower, topmark; 39.	R. 009°-121°, W.-009°.
<b>GOLFE DE ST. TROPEZ:</b>							
7000 E 0778	-Sainte Tropez, jetty, head.	43° 16.4' N 6° 38.0' E	<b>Oc.(2)W.R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	49 15	W. 14 R. 11	Tower, red top; 52.	W. 228°-245°, R.-228°.
7004 E 0779	--S. jetty.	43° 16.3' N 6° 38.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s		6	Green structure.	
7008 E 0784	-Port de Cogolin, E. jetty, head.	43° 16.1' N 6° 35.4' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	10	White structure, red top; 16.	
7012 E 0784.2	--Groyne.	43° 16.0' N 6° 35.4' E	<b>Fl.G.</b> period 2s fl. 0.4s, ec. 1.6s	7 2	1	Dark green metal structure; 7.	

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<b>FRANCE-MEDITERRANEAN SEA</b>							
7014 E 0784.6	--N. head.	43° 16.2' N 6° 35.3' E	<b>Q.W.</b>	19	9	N. CARDINAL BY, beacon, topmark; 16.	
7016 E 0786	-Port Grimaud, N. jetty, head.	43° 16.3' N 6° 35.3' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23	10	White structure, green top; 20.	
7018 E 0786.2	--S. spur, head.	43° 16.3' N 6° 35.2' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	23	7	White mast, red top; 20.	
7020 E 0790	-Seche a l'Huile.	43° 18.6' N 6° 41.1' E	<b>Q.(6)+L.Fl.W.R.</b> period 15s	30	W. 9 R. 6	S. CARDINAL YB, tower, topmark; 52.	R. 075°-216°, W.-075°.
7024 E 0788	-Sainte Maxime-sur-Mer, S. Jetty, head.	43° 18.3' N 6° 38.3' E	<b>Q.G.</b>	26	8	White metal structure, dark green lantern; 16.	
7028 E 0788.4	--W. Jetty, head.	43° 18.4' N 6° 38.3' E	<b>Fl.R.</b> period 2s fl. 0.4s, ec. 1.6s	7	2	1 Red structure; 3.	
7032 E 0791	Les Issambres, S. breakwater, head.	43° 20.4' N 6° 41.1' E	<b>Fl.(2)W.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26	W. 11 G. 8	Green column, white base; 16.	W. 289°-349°, G.-289°.
7036 E 0791.4	-W. jetty, head.	43° 20.4' N 6° 41.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7	2	4 Red structure; 3.	
7038 E 0791.7	Port Ferreol, mole, head.	43° 21.6' N 6° 43.1' E	<b>Fl.W.R.</b> period 4s fl. 1s, ec. 3s	16	W. 7 R. 5	White metal structure, red top; 13.	W. 250°-310°, R.-250°.
7039 E 0792.4	Saint Aygulf, E. jetty, head.	43° 23.6' N 6° 43.9' E	<b>Q.R.</b>		6		
7039.5 E 0792.5	Port-Frejus, S. jetty, head.	43° 25.2' N 6° 45.0' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23	7	6 White metal post, red top; 20.	V.Q.W. Aero Control Tower (occasional), 700 meters W.
7041 E 0792.01	---S. head.	43° 25.3' N 6° 45.8' E	<b>Q.G.</b>	16	5	2 STARBOARD (A) G, structure, topmark.	
7048 E 0793.4	-Santa Lucia, Bassin Nord, W. jetty, head.	43° 25.0' N 6° 46.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26	8	9 Green structure; 20.	
7052 E 0793	--Bassin Sud, W. jetty, head.	43° 24.5' N 6° 46.9' E	<b>Oc.(2)W.R.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33	W. 10 R. 7	White pylon, red top; 16.	W. 040°-057°, R.-084°, W.-122°, R.-040°.
7056 E 0794	--Ilot Lion de Mer.	43° 24.4' N 6° 46.4' E	<b>Q.W.R.</b>	52	W. 11 R. 8	White structure; 33.	W. 275°-249°, R.-275°.
7060 E 0795	<b>Rade d'Agay.</b>	43° 25.6' N 6° 52.2' E	<b>Oc.W.R.</b> period 4s lt. 3s, ec. 1s	92	W. 15 R. 12	White tower, red top; 52.	R. 260°-294°, W.-032°.
7064 E 0795.5	La Chretienne.	43° 25.3' N 6° 53.7' E	<b>Q.(6)+L.Fl.W.</b> period 15s	33	8	S. CARDINAL YB, tower, topmark; 43.	
7068 E 0796	La Figueirette, jetty, head.	43° 29.0' N 6° 56.0' E	<b>Fl.(3)W.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	39	W. 13 G. 10	White column, green top; 30.	W. 275°-348°, G.-275°.
7070 E 0796.8	La Grande Vaquette.	43° 28.9' N 6° 57.2' E	<b>Q.(3)W.</b> period 10s	23	2	E. CARDINAL BYB, buoyant beacon, topmark.	<b>Radar reflector.</b>
7072 E 0797	Port de la Galere, jetty, head.	43° 30.0' N 6° 57.4' E	<b>Q.R.</b>	30	7	White tower, red top; 23.	



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<b>FRANCE-MEDITERRANEAN SEA</b>							
7074 E 0797.8	Pointe Saint Marc.	43° 30.0' N 6° 57.5' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	5	Buoyant beacon, triangular daymark point up.	<b>Radar reflector.</b>
7076 E 0798	Theoule-sur-mer, E. jetty.	43° 30.6' N 6° 56.4' E	<b>Iso.W.R.</b> period 4s	26 8	W. 9 R. 6	Red tower; 20.	W. 198°-265°, R.-198°.
7080 E 0798.4	La Rague, E. breakwater, head.	43° 30.9' N 6° 56.4' E	<b>Fl.(4)G.</b> period 15s	36 11	8	White tower, green lantern; 23.	
7082 E 0798.6	-W. breakwater, head.	43° 30.9' N 6° 56.3' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	13 4	2	Red column, white top; 16.	
7084 E 0799	Mandelieu-La Napuole, outer breakwater, head.	43° 31.3' N 6° 56.7' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	10	White tower, green top; 23.	Q.G. shown at head of spur, inner side. Private light.
7088 E 0799.4	-Inner breakwater, head.	43° 31.4' N 6° 56.7' E	<b>Q.R.</b>		2	Red metal post; 7.	
<b>CANNES:</b>							
7092 E 0801	-LeSecant, SW. point.	43° 32.8' N 7° 01.0' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	4	White tower, green top; 46.	Visible 276°-178°.
7096 E 0800	-W. mole, head.	43° 32.7' N 7° 01.1' E	<b>V.Q.(3)R.</b> period 2s	79 24	8	White hexagonal tower, red top; 72.	Obscured by Iles de Lerins on bearings less than 340°.
7100 E 0803	-Porto-Canto, Jeteo Sud.	43° 32.5' N 7° 01.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	35 11	11	Yellow tower, dark green top; 30.	
7104 E 0804	--Jeteo Ouest.	43° 32.4' N 7° 01.9' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	8 2	3	Red column; 13.	Obscured by Jeteo Sud on bearing less than 123°.
7106 E 0809	Port de Moure Rouge.	43° 32.5' N 7° 02.5' E	<b>Fl.(4)W.G.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	26 8	W. 9 G. 6	White tower, green top; 20.	G. 312°-282°, W.-312°.
7108 E 0805	Iles de Lerins, Les Moines.	43° 30.0' N 7° 03.1' E	<b>Q.(6)+L.Fl.W.</b> period 15s	39 12	9	S. CARDINAL YB, tower, topmark; 46.	
<b>GOLFE-JUAN:</b>							
7112 E 0806	-La Fourmigue, Gulf, entrance.	43° 32.4' N 7° 05.0' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	52 16	7	ISOLATED DANGER BRB, tower, topmark; 56.	
7116 E 0808	-Vallauris.	43° 34.1' N 7° 03.7' E	<b>Oc.(2)W.R.G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	548 167	W. 16 R. 12 G. 11	White pyramidal tower, black top; 62.	G. 265°-305°, W.-309°, R.- 336°, W.-342°, G.-009°.
7120 E 0810	--Jeteo Ouest, head.	43° 33.8' N 7° 04.7' E	<b>Iso.R.</b> period 4s	20 6	9	White column, red top; 20.	Visible 050°-250°.
7122 E 0810.4	--Jeteo du Large, head.	43° 33.8' N 7° 04.6' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White tower, green top; 20.	
7124 E 0811	-Port-Galice.	43° 33.8' N 7° 06.8' E	<b>V.Q.(3)G.</b> period 2s	33 10	9	White column, dark green top; 26.	

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<b>FRANCE-MEDITERRANEAN SEA</b>							
7128 E 0812.2	-Le Crouton, S. breakwater, E. head.	43° 33.6' N 7° 07.2' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	5	Red tower, white base; 13.	Visible 138°-091°.
7132 E 0814	-Pointe d'Ilette.	43° 32.6' N 7° 07.3' E	<b>Oc.(3)W.R.G.</b> period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	59 18	W. 13 R. 9 G. 9	White tower, black top; 49.	W.(unintensified) 185°-235°, W.-045°, R.-056°, G.- 070°, R.-090°, W.-135°.
7136 E 0818	<b>La Garoupe.</b>	43° 33.9' N 7° 08.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	341 104	31	White square tower; 95.	
7140 E 0819	Digue du Large, head.	43° 35.4' N 7° 07.9' E	<b>Fl.R.</b> period 4s	49 15	11	White and yellow tower, red lantern; 43.	
7144 E 0819.6	-Du Fort Carre, entrance, W. side, head.	43° 35.3' N 7° 07.8' E	<b>Fl.G.</b> period 4s	33 10	5	Yellow tower, green lantern; 23.	Unintensified 218°-003°.
BAIE DES ANGES:							
7160 E 0818.6	-Marina, S. breakwater, head.	43° 37.9' N 7° 08.3' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	20 6	7	White tower, red top; 16.	
7164 E 0818.7	--E. breakwater, head.	43° 37.9' N 7° 08.4' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	42 13	9	White truncated conical tower, green top; 33.	
7168 E 0821	-St. Laurent-du-Var, breakwater, head.	43° 39.3' N 7° 10.7' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10	8	White tower, green top; 26.	
NICE:							
7184 E 0822	-Outer jetty, head.	43° 41.4' N 7° 17.3' E	<b>Fl.R.</b> period 5s fl. 0.1s, ec. 4.9s	69 21	20	White pyramidal tower, white cupola, red lantern; 72.	
7188 E 0823	-Breakwater, E. side, head.	43° 41.5' N 7° 17.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	7	White column, dark green top; 16.	
7192 E 0824	-Bassin du Commerce, entrance, W. side.	43° 41.5' N 7° 17.2' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White column, red top; 16.	
7196 E 0824.2	--E. side, on jetty, head.	43° 41.5' N 7° 17.3' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White column, dark green top; 13.	
7200 E 0825	-Bassin des Amiraux, entrance, W. side.	43° 41.6' N 7° 17.1' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	6	White column, red top; 16.	
7204 E 0826	--E. side, on jetty, head.	43° 41.6' N 7° 17.1' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	7	White column, dark green top; 16.	
7208 E 0830	Villefranche.	43° 42.0' N 7° 18.6' E	<b>Q.W.R.</b>	27 8	W. 12 R. 8	White square building, white cupola, red lantern; 30.	R. (unintensified) 148°-238°, R.-286°, W.-311°, R.- 335°, W.-009°, R.-148°.
7210 E 0831	-Jetty, head.	43° 42.0' N 7° 18.6' E	<b>Q.G.</b>	10 3	2		

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<b>FRANCE-MEDITERRANEAN SEA</b>							
7212 E 0832	Mole de la Sante.	43° 42.2' N 7° 18.8' E	<b>Fl.(4)R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	7	White column, red top, red base; 20.	
7216 E 0828	Cap Ferrat.	43° 40.5' N 7° 19.6' E	<b>Fl.W.</b> period 3s fl. 0.1s, ec. 2.9s	225 69	25	White octagonal pyramidal tower, green lantern, green base; 112. Floodlit.	Visible 226°-167°.
7220 E 0833	Saint Jean-Cap Ferrat, Jete Abri, head.	43° 41.5' N 7° 20.1' E	<b>Fl.(4)R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	8	White truncated tower, red top; 26.	
BEAULIEU-SUR-MER:							
7224 E 0836	-Detached breakwater, NE. head.	43° 42.5' N 7° 20.4' E	<b>Q.R.</b>	23 7	10	White truncated tower, red top; 16.	
7226 E 0835	-E. jetty, center.	43° 42.5' N 7° 20.3' E	<b>Q.G.</b>	20 6	7	White post, green top; 10.	
7228 E 0836.2	--SW. head.	43° 42.4' N 7° 20.3' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	3	White truncated tower, dark green top; 13.	
7232 E 0838	Eze-sur-Mer.	43° 43.0' N 7° 21.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	9	White column, red base, lantern; 20.	
<b>MONACO</b>							
7236 E 0844	-Monte Carlo, N. breakwater, head.	43° 44.2' N 7° 25.8' E	<b>Fl.(3)G.</b> period 15s		5	Green post; 6.	
7240 E 0843	--S. breakwater, head.	43° 44.2' N 7° 25.9' E	<b>Fl.(3)R.</b> period 15s		8	Red post; 6.	
7244 E 0839	-Fontvielle, S. jetty, head.	43° 43.7' N 7° 25.4' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White metal column, red top; 16.	AERO Mo.(MC)W. 30s 10m (occasional), lighted in low visibility 460 meters SW.
7248 E 0839.2	--Buffer jetty, head.	43° 43.7' N 7° 25.4' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 3s fl. 1s, ec. 1s	16 5	7	Green lantern; 3.	
7256 E 0838.4	Cap d'Ail, S. breakwater, SW. extremity.	43° 43.4' N 7° 24.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	36 11	10	Gray concrete building, green base; 29.	Visible 262°-172°. Synchronized with 7260.
7260 E 0838.42	--NW. extremity.	43° 43.4' N 7° 24.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	6	Green metal structure; 16.	Visible 172°-262°. Synchronized with 7256.
7264 E 0838.44	-W. jetty, head.	43° 43.4' N 7° 24.9' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	16 5		Red metal tower; 13.	
<b>FRANCE-MEDITERRANEAN SEA</b>							
7268 E 0848	Menton, jetty, head.	43° 46.6' N 7° 30.7' E	<b>V.Q.(4)R.</b> period 3s	56 17	10	White metal tower, red top; 52.	Obscured by Cap Martin when bearing more than 036°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>FRANCE-MEDITERRANEAN SEA</b>							
7272 E 0849	Menton-Garavan, breakwater, head.	43° 47.0' N 7° 31.3' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11	10	White tower, red top; 33.	
7276 E 0850	-N. mole, head.	43° 47.0' N 7° 31.3' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	10 3	2	White post, dark green top; 7.	

# Section 6

## Corsica, Sardinia and Northwest Coast of Italy

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7280 E 1147	Bordighera, mole, head.	43° 46.8' N 7° 40.7' E	2 F.R. (vert.)	36 11	3	Red post; 26.	2 meters apart. Safety distance 100m. Private light.
7284 E 1147.4	Capo Pino, outer breakwater, head.	43° 47.8' N 7° 44.4' E	F.R.	23 7	3	White post; 16.	Private light.
7288 E 1147.6	-Inner mole, head.	43° 47.8' N 7° 44.4' E	F.G.	23 7	3	White post; 16.	Private light.
SAN REMO:							
7292 E 1149	-Molo Sud, head.	43° 48.9' N 7° 47.2' E	L.F.I.R. period 5s fl. 2s, ec. 3s	36 11	8	Red column, pedestal; 16.	Safety distance 25 meters.
7294 E 1149.05	--Finger, mole, head.	43° 48.9' N 7° 47.2' E	F.R.	16 5	2	Red post; 10.	Safety distance 20 meters.
7296 E 1149.2	-Molo Foraneo, head.	43° 49.0' N 7° 47.3' E	L.F.I.G. period 5s fl. 2s, ec. 3s	36 11	4	Green post; 23.	Safety distance 60 meters. Private light.
7300 E 1149.08	-Inner breakwater, head.	43° 48.9' N 7° 47.1' E	F.G.	20 6	4	Green post; 6.	
7304 E 1150.4	-Porto Sole.	43° 49.0' N 7° 47.3' E	F.R.	10 3	2	Red post; 6.	Private light.
7308 E 1150.6	--Entrance, S. side.	43° 49.0' N 7° 47.0' E	F.G.	10 3	2	Green post; 6.	Private light.
7312	San Martino, radio tower.	43° 49.2' N 7° 47.7' E	2 F.I.R. period 2.5s fl. 1s, ec. 1.5s	256 78		Radio tower.	Two lights at top.
7316 E 1152	Capo Verde.	43° 49.1' N 7° 49.9' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	164 50	24	White round tower, white building, black bands; 49.	Reserve light range 18M. AIS (MMSI No 992471011).
IMPERIA:							
7320 E 1156	-Imperia Ponente.	43° 52.5' N 8° 01.6' E	Iso.W. period 4s	36 11	16	White tower; 26.	Visible 210°-090°. Reserve light range 11M. AIS (MMSI No 992471012).
7328 E 1157	--S. mole, head.	43° 52.5' N 8° 01.8' E	F.I.R. period 3s fl. 1s, ec. 2s	31 9	8	Red column; 26.	
7332 E 1158	--N. mole, head.	43° 52.6' N 8° 01.4' E	F.G.	23 7	2	Green post; 20.	
7336 E 1160	--S. mole, root.	43° 52.6' N 8° 01.3' E	F.R.	36 11	2	Red post; 23.	
7340 E 1162	-Imperia Levante (Oneglia), E. mole, S. head.	43° 53.0' N 8° 02.4' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	8	Green truncated conical tower; 26.	Safety distance 30m.
7344 E 1164	--W. mole, head.	43° 53.1' N 8° 02.5' E	F.R.	26 8	3	Red truncated conical tower; 20.	Safety distance 25m.
7348 E 1166	Diana Marina, outer mole, head.	43° 54.5' N 8° 05.2' E	F.G.	30 9	3	Green post; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7352 E 1166.2	-Mole, head.	43° 54.5' N 8° 05.1' E	<b>F.R.</b>	30 9	3	Red post; 16.	Private light.
7356 E 1168	<b>Capo Mele.</b>	43° 57.3' N 8° 10.3' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	308 94	24	White octagonal tower, two galleries, red three-story dwelling; 82.	Visible 196°-056°. Aeromarine light. Reserve light range 18M. <b>AIS</b> (MMSI No 992471013).
7360 E 1169	Laigueglia, on pier.	43° 58.8' N 8° 09.6' E	<b>F.R.</b>	30 9	3	Red post; 23.	Safety distance 10m. Fishing light. Private light.
7364 E 1170	Alassio, T-head pier.	44° 00.3' N 8° 10.4' E	<b>F.R.</b>	26 8	2	Red post; 13.	Private light.
7368 E 1171	-Molo Foraneo, head.	44° 01.1' N 8° 11.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s		5	Red post; 26.	Private light.
7380 E 1171.4	Loano.	44° 08.0' N 8° 16.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s		3	Red post; 23.	Private light.
7384 E 1171.5	-Inner breakwater, head.	44° 08.0' N 8° 15.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s		3	Green post; 26.	Private light.
7388 E 1171.6	Pietra Ligure.	44° 08.9' N 8° 17.2' E	<b>2 F.R.G.</b> (vert.)	33 10	3	Red post, green bands; 16.	2 meters apart. Private light.
7392 E 1171.7	Finale Ligure, harbor mole, head.	44° 10.0' N 8° 22.0' E	<b>2 F.R.</b> (vert.)	29 9	3	Red post; 19.	2 meters apart. Safety distance 60m. Private light.
7395 E 1171.8	-Submerged mole, head.	44° 10.5' N 8° 22.3' E	<b>2 F.G.</b> (vert.)	30 9	3	Green post; 20.	2 meters apart. Private light.
7396 E 1172	Capo di Vado.	44° 15.5' N 8° 27.2' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	141 43	14	White tower, dwelling; 112.	Reserve light range 7M.
7400 E 1172.8	-Molo do Soprafutto, head.	44° 16.1' N 8° 27.2' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33 10	8	Red column; 16.	
RADA DI VADO:							
7408 E 1175.1	-Vado Ligure.	44° 15.8' N 8° 26.7' E	<b>Iso.G.</b> period 2s	65 20	2	Red post, black bands; 66.	Occasional. Private light.
			<b>2 F.R.</b> (vert.)	58 18			
7416 E 1182.3	-Oil terminal.	44° 16.7' N 8° 27.6' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	2	Yellow mast; 13.	Private light.
7440 E 1180	-Pontile Esso.	44° 16.2' N 8° 26.7' E	<b>3 F.G.</b> (vert.)	31 9 26 8 21 6	3	Green post; 20.	Private light.
7448 E 1185	-Pontile Enel.	44° 16.5' N 8° 26.8' E	<b>2 F.G.</b> (horiz.)	33 10	3	Green post; 23.	Private light.
7452 E 1185.2	--N. corner.	44° 16.6' N 8° 26.8' E	<b>Oc.Y.</b> period 5s lt. 3s, ec. 2s	33 10	3	Yellow post; 23.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7460 <i>E 1186.1</i>	-Quiliano River, N. side.	44° 16.9' N 8° 26.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	59 18	3	White and red tower, 49.	Private light. Occasional.
			<b>2 F.R.</b> (vert.)				Shown when vessels are expected.
7472 <i>E 1181.9</i>	-Pontile Vadoil Range, front.	44° 16.4' N 8° 26.9' E	<b>3 F.R.</b> (horiz.)	26 8	3	Red post; 10.	Private light.
7476 <i>E 1182</i>	--Rear, 650 meters 264° from front.	44° 16.3' N 8° 26.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s		3	Green post; 66.	Occasional. Private light.
			<b>2 F.G.</b> (vert.)				Shown when vessels are expected.
7484 <i>E 1188</i>	-Pontile Chevron.	44° 17.5' N 8° 27.8' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	20 6	5		Private light.
SAVONA:							
7490 <i>E 1193</i>	--Breakwater extension, head.	44° 18.9' N 8° 30.3' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	39 12	8	Red column, pedestal; 16.	
7492 <i>E 1193.5</i>	-Mole Frangiflutti, head.	44° 19.0' N 8° 30.0' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	33 10	4	Yellow post; 10.	Private light.
7496 <i>E 1197</i>	-Molo Miramare, head.	44° 18.8' N 8° 29.4' E	<b>F.G.</b>	33 10	3	Green tower; 26.	
7500 <i>E 1196</i>	-Mole Sottoflutto, head.	44° 19.0' N 8° 29.7' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	30 9	7	Green column, pedestal; 16.	Safety distance 35M.
7504 <i>E 1198</i>	Varazze, Molo Frangiflutti, head.	44° 21.1' N 8° 34.3' E	<b>F.R.</b>	26 8	3	Red post; 10.	Private light.
7508 <i>E 1199</i>	-Molo Sottoflutto, head.	44° 21.1' N 8° 34.2' E	<b>F.G.</b>	26 8	3	Green post; 23.	Private light.
7516 <i>E 1201</i>	Arenzano, outer mole, head.	44° 24.0' N 8° 41.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	3	Red post.	Private light.
7520 <i>E 1201.3</i>	-Inner mole, head.	44° 24.0' N 8° 41.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	3	Green post.	Private light.
7524 <i>E 1202.6</i>	-Inner mole, head.	44° 25.1' N 8° 46.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11	8	Red column; 16.	Private light.
7528 <i>E 1202</i>	-Detached breakwater, W. head.	44° 25.0' N 8° 46.2' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	52 16	10	White round tower, green top.	Private light.
7532 <i>E 1202.4</i>	--Elbow.	44° 24.7' N 8° 47.7' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	46 14	7	White column.	Visible 217°-107°. Private light.
7533 <i>E 1202.2</i>	--E. head.	44° 25.3' N 8° 48.6' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	6	Red column; 16.	Private light.
GENOVA-MULTEDO:							
7536 <i>E 7010</i>	-Oil pipeline terminal platform.	44° 24.2' N 8° 48.5' E	<b>Mo.(U)Y.</b> period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 10s	75 23	7	Yellow post, framework tower; 75.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7538 E 7010.5	--SE. oil terminal.	44° 23.6' N 8° 50.0' E	<b>Fl.Y.</b> period 4s fl. 1s, ec. 3s	36 11	6	SPECIAL Y, post, "X" topmark; 26.	Private light.
7540 E 1212	-Molo di Multedo.	44° 25.1' N 8° 49.7' E	<b>Q.R.</b>	33 10	7	Red column; 16.	Private light.
7544 E 1208	-Diga Foranea dell'Aeroporto, W. head.	44° 24.8' N 8° 49.0' E	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s	33 10	12	White column; 16.	Private light.
GENOVA:							
7556 E 1208.2	-Diga di Cornigliano.	44° 24.0' N 8° 52.8' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	44 13	7	Red column, pedestal; 16.	Private light.
7560 E 1208.6	-Diga Foranea.	44° 24.2' N 8° 52.6' E	<b>Q.G.</b>	33 10	5	Green column, pedestal; 16.	Private light.
7564 E 1208.8	--Spur projecting, N. head.	44° 24.2' N 8° 52.6' E	<b>Fl.G.</b> period 1.5s fl. 0.5s, ec. 1s	23 7	4	Green column.	Private light.
7568 E 1206	-Lanterna.	44° 24.3' N 8° 54.3' E	<b>Fl.(2)W.</b> period 20s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s  <b>Oc.R.</b> period 1.5s lt. 1s, ec. 0.5s	384 117  390 119	25  10	Tower, terrace; 249.	Reserve light range 18M. <b>AIS</b> (MMSI No 992471014). Occasional. Private light.
7576 E 1218	-Duca di Galliera Mole, old head.	44° 23.5' N 8° 55.9' E	<b>FR.</b>	43 13	4	Red column, hut; 20.	Visible 115°-303°. Private light.
7580 E 1219	--New head.	44° 23.3' N 8° 56.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	59 18	15	Red framework tower; 49.	<b>AIS</b> (MMSI No 992471016). Private light.
7584 E 1220	--New mole, S. head.	44° 23.6' N 8° 56.1' E	<b>FG.</b>	26 8	2	Green column, tower.	Private light.
7585 E 1221	--Molo Umberto Cagni, W. head.	44° 23.8' N 8° 55.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	8	Green column; 16.	Private light.
7592 E 1217	-Spur, E. entrance, head.	44° 23.6' N 8° 55.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	36 11	7	Red column; 16.	Visible 123°-287°. Private light.
7596 E 1216	-Bacino della Lanterna, NE. corner.	44° 23.8' N 8° 55.0' E	<b>Fl.(3)R.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	33 10	7	Red column; 16.	Obscured from seaward. Private light.
7600 E 1225	-Calata d'olla Sanita, on E. angle.	44° 24.2' N 8° 55.1' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	7	Red column; 16.	Private light.
7604 E 1226	-Molo Vecchio.	44° 24.4' N 8° 55.1' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	7	Green truncated conical tower; 16.	Private light.
7608 E 1215	-Calata Olii Minerali.	44° 23.9' N 8° 55.0' E	<b>Fl.(3)G.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	33 10	7	Green column; 23.	Private light.
7612 E 1230	<b>-Punta Vagno.</b>	44° 23.5' N 8° 57.2' E	<b>L.Fl.(3)W.</b> period 15s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 7s	85 26	16	White truncated conical tower; 26.	Reserve light range 11M. <b>AIS</b> (MMSI No 992471015). Private light.
7620 E 1233	-Nervi, jetty, head.	44° 22.9' N 9° 01.9' E	<b>2 FR.</b> (vert.)	23 7	3	Red post; 16.	1 meter apart. Private light.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7624 E 1236	Camogli, outer breakwater, head.	44° 21.1' N 9° 09.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	36 11	9	White round tower; 16.	
7628 E 1238	-On spur, breakwater, inner side.	44° 21.1' N 9° 09.1' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	21 6	3	Green post; 13.	
7632 E 1237	-Jetty, at root.	44° 21.1' N 9° 09.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	21 6	3	Red post; 16.	
PORTOFINO:							
7636 E 1244	<b>-Punta di Portofino.</b>	44° 17.9' N 9° 13.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	131 40	16	Tower, two-story white building; 39.	Visible 155°-098°. Fl.R. lights are shown from several radio masts. Reserve light range 11M. <b>AIS</b> (MMSI No 992471017). Private light.
7640 E 1246	-Entrance, N. side.	44° 18.2' N 9° 12.7' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	7	Bracket on building.	
7644 E 1248	-Punta del Coppo.	44° 18.2' N 9° 12.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	7	Red column, pedestal; 16.	
7646 E 1240.7	-Punta del Pedale.	44° 19.2' N 9° 12.8' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	13 4	2	SPECIAL Y, post, "X" topmark.	Private light.
7648 E 1254	Santa Margherita Ligure, mole, head.	44° 19.9' N 9° 13.1' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33 10	8	Red column, pedestal; 16.	
7652 E 1255.5	Rapallo, Molo Langano, head.	44° 20.7' N 9° 13.9' E	<b>F.R.G.</b>	20 6	3	Red post, green bands; 20.	G. 220°-040°, R.-220°. Private light.
7656 E 1256.2	Molo di Levante.	44° 20.7' N 9° 14.0' E	<b>2 F.R.</b> (vert.)	23 7	3	Red post.	1 meter apart. Private light.
7657 E 1256	Pennello Boate.	44° 20.8' N 9° 13.9' E	<b>2 F.G.</b> (vert.)	23 7	3	Green post; 23.	1 meter apart. Private light.
7660 E 1255	-Outer breakwater, elbow.	44° 20.6' N 9° 14.1' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	29 9	9	White tower; 16.	Private light.
7664 E 1257	-Molo Foraneo, head.	44° 18.8' N 9° 19.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	5	Green column; 16.	Safety distance 40m. Private light.
7668 E 1257.2	--Spur.	44° 18.7' N 9° 19.2' E	<b>F.G.</b>	13 4	3	Green post; 10.	Safety distance 10m. Private light.
7672 E 1257.4	-Molo Sottofluto, head.	44° 18.7' N 9° 19.3' E	<b>F.R.</b>	13 4	3	Red post; 10.	Safety distance 10m. Private light.
LAVAGNA:							
7676 E 1257.7	-Molo Foraneo.	44° 18.2' N 9° 20.6' E	<b>L.Fl.R.</b> period 6s fl. 2s, ec. 4s	39 12	6	Red column, pedestal; 16.	Safety distance 60m. Private light.
7680 E 1257.8	--T-head.	44° 18.2' N 9° 20.5' E	<b>F.R.</b>	16 5	2	Red post; 13.	Private light.
7684 E 1257.9	-Molo Sottofluto.	44° 18.3' N 9° 20.5' E	<b>F.G.</b>	16 5	2	Green post; 13.	Private light.
7692 E 1258	Sestri Levante.	44° 16.3' N 9° 23.1' E	<b>F.G.</b>	44 13	3	Green post; 26.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
GOLFO DELLA SPEZIA:							
7696 E 1262	-Isola del Tino.	44° 01.6' N 9° 51.0' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	384 117	25	White round tower; 79.	Reserve light range 18M. <b>AIS</b> (MMSI No 992471018).
	-RACON		<b>T(-)</b>		18		(3 & 10cm). Azimuth 256°-150°.
7700 E 1265	-Portovenere.	44° 03.0' N 9° 50.2' E	<b>F.R.</b>	20 6	3	Red column; 13.	Visible 085°-025°. Safety distance 10m. Private light.
7704 E 1265.4	-Molo Olivo, head.	44° 03.1' N 9° 50.2' E	<b>F.G.</b>	20 6	3	Green column; 13.	Safety distance 10m. Private light.
7708 E 1263	-Scoglio Torre della Scuola.	44° 03.1' N 9° 51.5' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	10	White metal framework tower; 7.	<b>AIS</b> (MMSI No 992471004).
7709 E 1267.2	-Punta della Castagna.	44° 03.7' N 9° 51.1' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	10 3	4	Yellow post.	
	-La Spezia:						
7720 E 1268	--Punta Santa Maria.	44° 04.0' N 9° 51.1' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11	9	Red tower; 23.	Partially obscured 335°-347° Safety distance 30m. <b>AIS</b> (MMSI No 992471005).
7721 E 1267.5	---S.	44° 04.0' N 9° 51.1' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	10 3	4	Yellow post.	
7724 E 1269	--Detached breakwater, SW. head.	44° 04.1' N 9° 51.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	36 11	9	Green tower; 30.	<b>AIS</b> (MMSI No 992471008).
7728 E 1323	--Seno di Panigaglia.	44° 04.7' N 9° 50.2' E	<b>2 F.G.</b> (vert.)	26 8	3	Green post; 16.	1 meter apart. Private light.
7732 E 1300	---Cadimare Mole.	44° 05.3' N 9° 49.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	21 6	5	Red column, pedestal; 16.	
7736 E 1302	---S, entrance to port, inner detached breakwater, S. head.	44° 05.3' N 9° 50.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	21 6	7	Green column, pedestal; 16.	
7740 E 1304	---Inner detached breakwater, N. angle.	44° 05.6' N 9° 50.1' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	11	White column, pedestal; 16.	
7744 E 1312	---Entrance Range, front.	44° 05.9' N 9° 48.9' E	<b>Fl.W.R.G.</b> period 3s fl. 1s, ec. 2s	69 21	W. R. G. 8 6 6	White truncated pyramidal tower, black stripe; 20.	G. 297°-305°18', W.-306°48', R.-315°.
7748 E 1312.1	---Pegazzano, rear, 1.02 km. 306° from front.	44° 06.2' N 9° 48.3' E	<b>Iso.W.</b> period 4s	157 48	16	Red and white checkered tower; 43.	Visible 302°-310°. <b>AIS</b> (MMSI No 992471019).
7752 E 1319	---Basin No 1, entrance, S. side.	44° 05.7' N 9° 49.2' E	<b>F.R.</b>	37 11	3	Red tower; 33.	Private light.
7756 E 1318	---N. side.	44° 05.7' N 9° 49.3' E	<b>F.G.</b>	57 17	3	Green post; 52.	Private light.
			<b>2 F.R.</b> (vert.)				Occasional.
7760 E 1292	--Mirabello Molo, N. head.	44° 06.1' N 9° 49.7' E	<b>Iso.R.</b> period 2s	21 6	4	Red tower; 13.	
7760.2 E 1292.6	---Helicopter pad.	44° 05.9' N 9° 50.0' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	13 4	3	Red post.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7760.4 <i>E 1292.7</i>	---Fuel dock, head.	44° 05.9' N 9° 50.0' E	<b>Fl.Y.</b> period 2s fl. 0.5s, ec. 1.5s	13 4	5	SPECIAL Y, beacon, "X" topmark.	Private light.
7760.6 <i>E 1292.8</i>	---E. side of entrance.	44° 05.8' N 9° 50.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	20 6	5	Red post.	Private light.
7760.8 <i>E 1292.75</i>	---W. side of entrance.	44° 05.8' N 9° 49.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	20 6	5	Green post.	Obscured 265°-015°. Private light.
7764 <i>E 1290</i>	--Italia Molo, head.	44° 06.3' N 9° 50.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	8	Red tower; 23.	Safety distance 10m.
7772 <i>E 1285.2</i>	--Verzocchi Quay, N. corner.	44° 06.5' N 9° 51.1' E	<b>2 F.R.</b> (vert.)	36 11	3	Red tower; 30.	2 meters apart. Private light.
7776 <i>E 1285.4</i>	---S. corner.	44° 06.5' N 9° 51.2' E	<b>2 F.G.</b> (vert.)	36 11	3	Green tower; 30.	2 meters apart. Private light.
7780 <i>E 1285</i>	--Pontile ENEL.	44° 06.2' N 9° 51.2' E	<b>2 F.G.R.</b> (vert.)	20 6	3	Green post, red bands; 16.	2 meters apart. Private light.
7784 <i>E 1284</i>	--Molo dei Pagliari.	44° 06.1' N 9° 51.4' E	<b>2 F.R.G.</b> (vert.)	26 8	3	Red mast, green bands; 20.	2 meters apart. Private light.
7788 <i>E 1283</i>	--Pontile INMA, head.	44° 06.0' N 9° 51.4' E	<b>2 F.G.</b> (horiz.)	26 8	3	Red mast, green bands; 20.	Fl.G. 3s 5M and Fl.R. 3s 5M shown from breakwater heads about 330 meters S. Private light.
			<b>2 F.R.</b> (horiz.)	21 6			
7789 <i>E 1282.2</i>	--Porto Lotti entrance, S.	44° 05.8' N 9° 51.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	23 7	5	Green post; 16.	Private light.
7790 <i>E 1282.4</i>	---N.	44° 05.8' N 9° 51.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	23 7	5	Red post; 16.	Private light.
7792 <i>E 1281.2</i>	--Beacon.	44° 05.7' N 9° 51.8' E	<b>F.R.</b>	23 7	3	Red post; 16.	Private light.
7796 <i>E 1281</i>	--Beacon.	44° 05.7' N 9° 51.8' E	<b>F.G.</b>	23 7	3	Green post; 16.	Private light.
7800 <i>E 1280.2</i>	--Porticello San Bartolomeo.	44° 05.7' N 9° 51.8' E	<b>F.R.</b>	20 6	3	Red post; 16.	Fl.R. shown from radio mast about 412 meters N. Private light.
7804 <i>E 1280</i>	---S. side of entrance.	44° 05.7' N 9° 51.8' E	<b>F.G.</b>	20 6	3	Green post; 16.	Private light.
7808 <i>E 1278</i>	--Mole del Muggiano, head.	44° 05.3' N 9° 52.1' E	<b>F.G.</b>	26 8	3	Green post; 20.	Private light.
7812 <i>E 1270</i>	--Outer detached breakwater, E. head.	44° 04.8' N 9° 52.7' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Red tower; 26.	<b>AIS</b> (MMSI No 992471006). Safety distance 40m.
7816 <i>E 1270.2</i>	---Spur, ESE. from extremity.	44° 04.8' N 9° 52.8' E	<b>Iso.R.</b> period 2s	29 9	4	Red metal post; 16.	
7820 <i>E 1274</i>	--Punta Santa Teresa.	44° 04.9' N 9° 52.9' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Green tower; 13.	<b>AIS</b> (MMSI No 992471007). Safety distance 40m.
7824 <i>E 1324</i>	Lerici.	44° 04.4' N 9° 54.3' E	<b>2 F.G.</b> (vert.)	24 7	3	Green post; 20.	1 meter apart. Private light.
7832 <i>E 1328</i>	<b>Marina di Carrera.</b>	44° 02.2' N 10° 02.2' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	72 22	17	White four-sided tower; 72.	Reserve light range 12M. <b>AIS</b> (MMSI No 992471020).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7833 E 1328.5	-W. breakwater, elbow.	44° 02.0' N 10° 02.1' E	<b>Dir.W.R.G.</b>	105 32	W. 12 R. 10 G. 10	Post; 98.	F.G.-312°48'-315°18', Al.W.G.-317°18', F.W.- 318°18', Al.W.R.-320°18', F.R.-322°48'. Private light.
7836 E 1329	<b>-Diga Foranea, head.</b>	44° 01.6' N 10° 02.5' E	<b>Iso.R.</b> period 2s	43 13	7	Red column, pedestal; 16.	Safety distance 30m.
7840 E 1330	<b>-Molo di Levante.</b>	44° 01.8' N 10° 02.5' E	<b>Iso.G.</b> period 2s	33 10	7	Green column, pedestal; 16.	Safety distance 35m.
7844 E 1330.4	Marina di Massa.	44° 00.3' N 10° 05.8' E	<b>2 F.G.R.</b> (vert.)	33 10	3	Red post, green bands; 20.	2 meters apart. Private light.
7848 E 1331	Fiume Cinquale.	43° 58.7' N 10° 08.6' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	5	SPECIAL Y, post, "X" topmark; 16	Private light.
7852 E 1334	Forte dei Marmi.	43° 57.3' N 10° 09.9' E	<b>F.R.</b>	19 6	3	Red post; 10.	Private light.
7856 E 1340	<b>Viareggio.</b>	43° 51.5' N 10° 14.2' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	98 30	24	White round tower; 104.	Reserve light range 18M. <b>AIS</b> (MMSI No 992471021). Private light.
7860 E 1342	-Nuevo Diga Foranea, head.	43° 51.7' N 10° 14.1' E	<b>Iso.G.</b> period 3s	30 9	9	Green column, pedestal; 16.	Safety distance 20m.
7864 E 1341	- N. mole, head.	43° 51.7' N 10° 14.2' E	<b>Iso.R.</b> period 3s	30 9	7	Red column, pedestal; 16.	Private light.
FIUME ARNO:							
7868 E 1347.25	-S. breakwater, head.	43° 40.6' N 10° 16.1' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	8	Green post.	Private light.
7870 E 1347.6	FSRU Toscana.	43° 38.7' N 9° 59.3' E	<b>4 Fl.(2)+L.Fl.W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 5s	66 20	5	Platform.	1 on each corner of platform. Private light.
RACON				<b>U(••-)</b>	59 18		(3 & 10cm).
SECCHE DELLA MELORIA:							
7872 E 1347.8	-Shoal, N., NW. extremity.	43° 35.5' N 10° 12.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	59 18	10	White round concrete tower, truncated conical base; 66.	
7874 E 1348.5	-Shoal, NE. extremity.	43° 35.3' N 10° 15.5' E	<b>Q.(3)W.</b> period 10s	16 5	7	E. CARDINAL BYB, articulated beacon, topmark.	
7876 E 1348	-Bank, S. edge.	43° 32.8' N 10° 13.1' E	<b>Q.(6)+L.Fl.W.</b> period 15s	59 18	12	S. CARDINAL YB, tower, topmark; 56.	
LIVORNO (LEGHORN):							
7880 E 1358	-Diga Meloria, head.	43° 33.5' N 10° 17.2' E	<b>Fl.(3)W.G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	W. 8 G. 6	Green column, pedestal; 16.	W. 064°-138°, G.-341°.
7882 E 1359	--520 meters SSE.	43° 33.2' N 10° 17.3' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	33 10	5	White post; 23.	Visible 222°-229°.
7884 E 1370	-Diga Curvilinea, N. head.	43° 33.1' N 10° 17.4' E	<b>Fl.R.G.</b> period 3s fl. 1s, ec. 2s	23 7	5	Red column, pedestal, green bands; 16.	G. 160°-288°, R.-048°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST</b>							
7888 E 1368	--S. head.	43° 32.6' N 10° 17.4' E	<b>Fl.W.R.</b> period 3s fl. 0.5s, ec. 2.5s	72 22	W. 10 R. 11	Octagonal tower; 66.	R. 180°-078°, W.-139°. Reserve light Fl.R. 3s 6M.
7892 E 1356	<b>-Livorno.</b>	43° 32.6' N 10° 17.7' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	171 52	24	Round masonry tower; 171.	Reserve light range 18M. <b>AIS</b> (MMSI No 992471022).
	<b>-RACON</b>		<b>LI(• - ••••)</b>		19		(3 & 10cm).
7896 E 1360	<b>-Diga Marzocco, head.</b>	43° 33.5' N 10° 17.4' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	7	Red column, pedestal; 16.	
7912 E 1376.2	--Head.	43° 33.1' N 10° 17.7' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	6	Red column, pedestal; 16.	Visible 281°-135°.
7920 E 1380	<b>-Molo Mediceo, head.</b>	43° 33.0' N 10° 17.7' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	6	Green column, pedestal; 16.	Visible only within the harbor.
7924 E 1374	<b>-Diga della Vegliaia, W. head.</b>	43° 32.3' N 10° 17.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	59 18	12	Green round tower; 46.	Visible 330°-240°. Reserve light range 6M.
7928 E 1380.2	<b>-Porticciolo San Lacopo.</b>	43° 31.7' N 10° 18.3' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 13.	
7932 E 1380.4	<b>-Porticciolo San Leopoldo.</b>	43° 31.5' N 10° 18.5' E	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	26 8	4	Green post; 16.	
7936 E 1381	<b>-Antignano.</b>	43° 29.8' N 10° 19.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green column; 13.	
7940 E 1382	<b>-Quercianella.</b>	43° 27.5' N 10° 21.8' E	<b>F.R.</b>	23 7	3	Red post; 16.	Private light.

### CORSE (CORSICA) (F.)

#### STRAIT OF BONIFACIO:

7944 E 0876	<b>-Cap Pertusato.</b>	41° 22.0' N 9° 11.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	328 100	25	White square tower, black top with corners; 69.	Visible 239°-113°.
7948 E 0872	<b>-Ile Lavezzi.</b>	41° 20.1' N 9° 15.5' E	<b>Iso.W.R.</b> period 4s fl. 2s, ec. 2s	89 27	W. 18 R. 14	White square tower, red bands, white dwelling; 39.	W. 243°-351°, R.-243°. Partially obscured 138°-218°.
			<b>Oc.(2)W.R.</b> period 6s		W. 10 R. 7		Reserve light.
7950 E 0874.5	<b>-Ile Cavallo.</b>	41° 21.7' N 9° 15.9' E	<b>Q.W.R.G.</b> period 1.2s	23 7	W. 6 R. 4 G. 4	White masonry tower; 10.	G. 328°-337°, W.-344°, R.- 353°.
			<b>Fl.(3)G.</b> period 12s	16 5	2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CORSE (CORSICA) (F.)</b>							
7952 <i>E 0874</i>	-Ecueil Lavezzi Rock.	41° 19.0' N 9° 15.2' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	59 18	9	ISOLATED DANGER BRB, tower, topmark; 72.	Reserve light range 8M.
	-RACON		<b>C(- - - •)</b>				(3 & 10cm).
7960 <i>E 0875</i>	-Perduto Rock.	41° 22.0' N 9° 18.9' E	<b>Q.(3)W.</b> period 10s	52 16	11	E. CARDINAL BYB, tower, topmark; 92.	<b>Radar reflector.</b>
7964 <i>E 0878</i>	-Pointe de la Madonetta.	41° 23.2' N 9° 08.7' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	92 28	6	Red square tower, gray corners; 39.	
	-Bonifacio:						
7968 <i>E 0886</i>	--Pointe de l'Arenella.	41° 23.3' N 9° 09.1' E	<b>Oc.(2)R.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	30 9	3	Red cylindrical structure, gray base; 30.	Visible 035°-059°.
7976 <i>E 0882</i>	--Point Cacavento.	41° 23.3' N 9° 09.2' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	19 6	5	White pyramidal column, green top; 13.	
7980 <i>E 0888</i>	-Cap de Feno.	41° 23.5' N 9° 05.8' E	<b>Fl.(4)W.R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	75 23	W. 10 R. 7	White square tower, black top; 36.	R. 150°-270°, W.-150°. Directional light. Reserve light range 5/3M.
7984 <i>E 0890</i>	Les Moines.	41° 26.8' N 8° 53.8' E	<b>Q.(6)+L.Fl.W.</b> period 15s	85 26	9	S. CARDINAL YB, tower, topmark; 108.	
7986 <i>E 0889</i>	Caldarello, jetty, head.	41° 28.4' N 9° 04.3' E	<b>Q.W.R.G.</b>		W. 7 R. 6 G. 6	White tower.	G. 026°-035°, W.-037°30', R.- 046°.
7988 <i>E 0894</i>	<b>Pointe Senetosa.</b>	41° 33.5' N 8° 47.7' E	<b>Fl.W.R.</b> period 5s fl. 0.1s, ec. 4.9s	177 54	W. 20 R. 16	Two white towers, black tops; 49.	R. 306°-328° except where obscured by Pointe Latoniccia, W.-306°.
	GOLFE DE VALINCO:						
7992 <i>E 0896</i>	<b>-Propriano, Rocher Longo.</b>	41° 40.7' N 8° 53.8' E	<b>Oc.(3)W.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	53 16	W. 15 G. 12	White tower, green top; 56.	W. 070°-097°, G.-137°, W.- 002°.
7996 <i>E 0898</i>	--Jeteo Est.	41° 40.7' N 8° 54.0' E	<b>Iso.G.</b> period 4s	36 11	10	White column, green top; 23.	Visible 095°-094°.
8000 <i>E 0899</i>	--W. breakwater, head.	41° 40.6' N 8° 54.1' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	2	White column, red top; 3.	
8001 <i>E 0899.2</i>	--E. breakwater, head.	41° 40.7' N 8° 54.4' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	2	White structure, green top; 10.	
8004 <i>E 0900</i>	Cap de Muro.	41° 44.4' N 8° 39.7' E	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	187 57	9	White square tower, black top; 36.	Unintensified 186°-276°. F.R. shown from radio mast 5 miles ENE.
	AJACCIO:						
8008 <i>E 0908</i>	<b>-Citadelle.</b>	41° 55.0' N 8° 44.5' E	<b>Fl.(2)W.R.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	62 19	W. 20 R. 16	White tower, red top; 43.	R. 045°-057°, W.-045°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CORSE (CORSICA) (F.)</b>							
8012 <i>E 0910</i>	-Jetee de la Citadelle.	41° 55.2' N 8° 44.6' E	<b>Q.R.</b>	43 13	6	White column, red top; 43.	
8020 <i>E 0913</i>	-Jetee de Margonajo.	41° 55.7' N 8° 44.6' E	<b>Fl.R.</b> period 4s	22 7	3	White column; 20.	F.W. and F.R. (occasional) shown 1 mile E.
8021 <i>E 0912</i>	-Port des Cannes.	41° 55.8' N 8° 44.6' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	16 5	3	White tower, red top; 10.	
8024 <i>E 0914</i>	-Aspretto, outer jetty, head.	41° 55.3' N 8° 45.7' E	<b>Q.R.G.</b>	26 8	7	White column, green top; 16.	G. 035°-300°, R.-035°. Occasional.
8028 <i>E 0915</i>	--Inner jetty, head.	41° 55.3' N 8° 45.8' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	23 7	8	White column, red top; 10.	Occasional.
8032 <i>E 0906</i>	--L'Ecueil de la Citadelle.	41° 54.8' N 8° 44.4' E	<b>Fl.(4)R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	6	Red truncated tower; 43.	
8034 <i>E 0905</i>	-La Guardiola.	41° 54.3' N 8° 43.2' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	20 6	2	Red tower; 33.	
8036 <i>E 0902</i>	<b>Iles Sanguinaires.</b>	41° 52.7' N 8° 35.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 6.9s	321 98	24	White square tower, black top, white masonry building; 59.	
8038 <i>E 0915.2</i>	Cargese, S. jetty, head.	42° 07.8' N 8° 35.8' E	<b>Oc.(3)W.R.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	W. 9 R. 6	White truncated tower, red top; 10.	R. 025°-325°, W.-025°.
8038.5 <i>E 0915.4</i>	-N. jetty, head.	42° 07.9' N 8° 35.8' E	<b>Fl.(3)G.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	13 4	3	White cylindrical structure, green top; 13.	
8040 <i>E 0916</i>	Ile Gargalu, NW. point.	42° 22.3' N 8° 32.1' E	<b>Fl.W.R.</b> period 4s fl. 1s, ec. 3s	121 37	W. 8 R. 5	White column, black top; 23.	R. 345°-348°, W.-214°, R.- 221°.
8044 <i>E 0918</i>	<b>Pointe Revellata.</b>	42° 35.0' N 8° 43.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	318 97	21	White square tower, black top; 62.	Visible 060°-002°. Reserve light.
8048 <i>E 0919</i>	-Cala Revellata.	42° 34.8' N 8° 43.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	6	White tower, green top; 13.	
8052 <i>E 0920</i>	Calvi, foot of citadel.	42° 34.2' N 8° 45.7' E	<b>Oc.(2)G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	98 30	8	White hexagonal tower, green lantern; 20.	Visible 095°-005°.
8056 <i>E 0922</i>	-Pier, head.	42° 34.0' N 8° 45.7' E	<b>Q.G.</b>	33 10	8	White square tower, dark green top; 33.	
8060 <i>E 0923</i>	-Breakwater, head.	42° 33.9' N 8° 45.6' E	<b>Fl.R.</b> period 4s	19 6	7	White structure, red top; 13.	
8064 <i>E 0924</i>	Sant-Ambrogio.	42° 36.2' N 8° 49.7' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	3	White metal post, dark green top; 20.	Fl.(2)R. marks head of SW. jetty.
8068 <i>E 0926</i>	Ile-Rousse-La Pietra.	42° 38.7' N 8° 55.9' E	<b>Fl.(3)W.G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	209 64	W. 14 G. 11	White square tower, green top, white house; 43.	G. 300°-079°, W.-234°, G.- 275°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CORSE (CORSICA) (F.)</b>							
8072 <i>E 0928</i>	-Shelter wall of jetty, head.	42° 38.5' N 8° 56.4' E	<b>Iso.G.</b> period 4s	39 12	8	White tower, green top; 39.	Visible 143°-111°.
GOLFE DE SAINT-FLORENT:							
8076 <i>E 0930</i>	-Punta Mortella.	42° 42.9' N 9° 15.3' E	<b>Oc.G.</b> period 4s fl. 3s, ec. 1s	140 43	8	White square tower, green top; 46.	
8080 <i>E 0935</i>	-Pointe Vecchiaia.	42° 42.8' N 9° 19.6' E	<b>Fl.(3)W.R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	115 35	W. 10 R. 7	White truncated tower, red top; 16.	W. 035°-174°, R.-035°.
8084 <i>E 0932</i>	-Cap Fornali.	42° 41.2' N 9° 16.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	46 14	6	White square tower, green top; 36.	Unintensified 000°-090°.
8088 <i>E 0934</i>	-Tourelle Tignoso.	42° 40.9' N 9° 17.7' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	19 6	3	Red tower; 30.	
8092 <i>E 0933</i>	-Saint Florent.	42° 40.8' N 9° 17.9' E	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	W. 9 R. 6	White truncated column, red upper portion; 16.	R. 116°-080°, W.-116°.
8096 <i>E 0933.2</i>	--S. jetty, head.	42° 40.7' N 9° 18.0' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	3	White tower, green upper portion; 10.	
8098 <i>E 0853</i>	Centuri.	42° 58.0' N 9° 21.0' E	<b>Fl.G.</b> period 4s	23 7	6		Fl.R. 2m 2M close SE.
8100 <i>E 0852</i>	<b>Cap Corse.</b>	43° 01.3' N 9° 24.4' E	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	278 85	28	White tower, black upper portion; 85.	Visible 057°-314°.
8104 <i>E 0854</i>	Macinaggio.	42° 57.5' N 9° 27.3' E	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 11 R. 8	White tower, red upper portion; 26.	R. 120°-218°, W.-331°, R.- 000°, R.(unintensified)- 120°. Fl.(2)G. 2M marks N. spur head.
8108 <i>E 0855</i>	Capo Sagro.	42° 47.7' N 9° 29.5' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s		10	White tower, green upper portion; 13.	
8110 <i>E 0862</i>	Toga.	42° 42.6' N 9° 27.4' E	<b>Q.R.</b>	33 10	4	White tower, red upper portion; 20.	
8110.5 <i>E 0862.6</i>	-N. breakwater, head.	42° 42.6' N 9° 27.4' E	<b>Q.G.</b>		2	White masonry structure; 13.	
BASTIA:							
8112 <i>E 0856</i>	<b>-Jetee du Dragon, N. head.</b>	42° 41.7' N 9° 27.2' E	<b>Fl.W.R.</b> period 4s fl. 1s, ec. 3s	52 16	W. 15 R. 12	Gray tower, red lantern; 43.	R.(unintensified) 040°-130°, R.-215°, W.-325°, R.- 040°.
8116 <i>E 0861</i>	-Mole, head.	42° 42.0' N 9° 27.2' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	6 2	4	White column, red top; 3.	Visible 153°-026°.
8120 <i>E 0858</i>	-Genois Mole, head.	42° 41.7' N 9° 27.2' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	4	Gray tower, green top; 30.	
8124 <i>E 0860</i>	-Jetee St. Nicoles.	42° 41.9' N 9° 27.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	29 9	11	Stone tower, green top; 16.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CORSE (CORSICA) (F.)</b>							
8132 <i>E 0863</i>	Campoloro.	42° 20.2' N 9° 32.4' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	23 7	6	White column, red top; 16.	
8136 <i>E 0864</i>	Ruisseau d'Alistro.	42° 15.4' N 9° 32.4' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	305 93	22	Gray octagonal tower, black top, red dwelling; 89.	
8137 <i>E 0865</i>	Solenzara.	41° 51.4' N 9° 24.3' E	<b>Iso.G.</b> period 4s		3		
8138 <i>E 0865.2</i>	-Quay.	41° 51.5' N 9° 24.3' E	<b>Oc.(2)R.</b> period 6s		3		
GOLFE DE PORTO VECCHIO:							
8148 <i>E 0866</i>	-Pointe de Chiappa.	41° 35.7' N 9° 21.9' E	<b>Fl.(3+1)W.</b> period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s	213 65	23	White square tower, red lantern; 69.	Visible 90°-067°.
8152 <i>E 0866.4</i>	-Tourelle Pecorella.	41° 36.8' N 9° 22.2' E	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	39 12	6	White truncated tower, green top; 46.	
8156 <i>E 0867</i>	-Pointe St. Cyprien.	41° 37.1' N 9° 21.3' E	<b>Fl.W.G.</b> period 4s fl. 1s, ec. 3s	85 26	W. 11 G. 8	White square tower, black lantern; 43.	W. 220°-281°, G.-299°, W.- 072°, G.-084°.
8160 <i>E 0869</i>	-Pointe Sud de Pozzoli.	41° 36.5' N 9° 17.3' E	<b>Iso.W.R.G.</b> period 4s	33 10	W. 15 R. 13 G. 13	White truncated tower, black top; 16.	G. 258°42'-271°42' W.- 275°12', R.-288°12'.
8164 <i>E 0870.3</i>	-La Ciocca, tower.	41° 35.5' N 9° 17.4' E	<b>Fl.R.</b> period 2s fl. 0.4s, ec. 1.6s	10 3	2	Red truncated tower; 16.	
8168 <i>E 0870</i>	-Porto Vecchio.	41° 35.2' N 9° 17.4' E	<b>Oc.W.R.G.</b> period 4s	29 9	W. 11 R. 9 G. 9	Rectangular stone tower; 39.	G. 208°30'-223°30', W.- 225°30', R.-240°30'.
8172 <i>E 0870.6</i>	-S. jetty.	41° 35.4' N 9° 17.1' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	6	White tower, red top; 13.	Visible 212°-302°.
8176 <i>E 0870.8</i>	-N. jetty.	41° 35.4' N 9° 17.2' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	White tower, green top; 7.	Visible 200°-290°.
8180 <i>E 0871.5</i>	<i>Iles Cerbicales La Vacca, 2 Buoy.</i>	41° 32.7' N 9° 24.0' E	<b>Q.(3)W.</b> period 10s	13 4	6	E. CARDINAL BYB, pillar, topmark.	<b>Radar reflector.</b>

#### SARDEGNA (SARDINIA) (I.)

##### STRAIT OF BONIFACIO:

8188 <i>E 0942</i>	-Isola Santa Maria.	41° 17.9' N 9° 23.0' E	<b>Fl.(4)W.</b> period 20s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 9.5s	56 17	10	White two-story dwelling; 39.	Visible 173°-016°.
8192 <i>E 0946</i>	-Isola Corcelli.	41° 18.1' N 9° 24.0' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	72 22	11	ISOLATED DANGER BRB, tower, topmark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8196 <i>E 0940</i>	<b>-Isola Razzoli.</b>	41° 18.4' N 9° 20.4' E	<b>Fl.W.R.</b> period 2.5s fl. 0.1s, ec. 2.4s	253 77	W. 19 R. 15	Stone tower; 39.	W. 022°-092°, R.-137°, W.- 237°, R.-320°. <b>AIS</b> (MMSI No 992471125). Reserve light range 19/15M.
	-RACON		<b>M(- -)</b> period 30s			6	(3 & 10cm).
8200 <i>E 0936</i>	-Longonsardo (Santa Teresa de Gallura).	41° 14.7' N 9° 11.9' E	<b>Fl.W.R.</b> period 3s fl. 1s, ec. 2s	37 11	W. 10 R. 8	White hut; 23.	R. 030°-164°, W.-184°, R.- 210°.
8204 <i>E 0937</i>	-Entrance Range, front.	41° 14.3' N 9° 11.7' E	<b>Oc.R.</b> period 4s fl. 3s, ec. 1s	39 12		3 White and green post, white rectangular daymark, black stripe; 33.	Visible 181°30'-211°30'.
			<b>F.G.</b>	20 6		3	
For other lights in Bonifacio Strait, see Cap Pertusato.							
8204.1 <i>E 0937.1</i>	--Rear, 1280 meters 196°30' from front.	41° 13.6' N 9° 11.4' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	148 45		7 White post, white rectangular daymark, black stripe; 16.	Visible 151°30'-241°30'.
8208 <i>E 0938</i>	<b>-Capo Testa.</b>	41° 14.6' N 9° 08.7' E	<b>Fl.(3)W.</b> period 12s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 6.8s	220 67		22 White tower, two-story building; 75.	Visible 017°-256°. Reserve light range 17M.
8212 <i>E 1130</i>	<b>Isola Asinara.</b>	41° 07.1' N 8° 19.1' E	<b>Fl.(4)W.</b> period 20s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 9.5s	262 80		16 White round tower, three-story building; 115.	
GOLFO DELL'ASINARA:							
-Porto Torres:							
8216 <i>E 1138</i>	<b>--Porto Torres.</b>	40° 50.2' N 8° 23.8' E	<b>L.Fl.(2)W.</b> period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	147 45		16 White tower, two-story building; 66.	<b>AIS</b> (MMSI No 992471136). Reserve light range 12M.
8220 <i>E 1140</i>	--E. breakwater, head.	40° 50.7' N 8° 23.9' E	<b>L.Fl.R.</b> period 6s fl. 2s, ec. 4s	36 11		8 Red column, hut; 16.	F.R. and F.G. light is shown at entrance to basin near root of breakwater.
8224 <i>E 1139</i>	--W. breakwater, head.	40° 50.9' N 8° 24.0' E	<b>L.Fl.G.</b> period 6s fl. 2s, ec. 4s	37 11		11 Green column on hut; 30.	Reserve light range 8M.
	-RACON		<b>P(• - - •)</b>			6	(3 & 10cm).
8236 <i>E 1136.8</i>	--Pontile de Levante.	40° 50.9' N 8° 22.8' E	<b>Fl.(3)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10		4 Red column; 23.	Private light.
8244 <i>E 1136.32</i>	---E. head.	40° 51.1' N 8° 23.1' E	<b>Fl.(3)G.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	31 9		4 Green column; 23.	Private light.
8248 <i>E 1136.6</i>	-Pier No 1, S.I.R. terminal.	40° 50.9' N 8° 22.4' E	<b>2 F.G.R.</b> (vert.)	23 7 20 6		3 Red post, green bands.	1 meter apart. Private light.
8249 <i>E 1136.4</i>	--W. Range, front.	40° 50.2' N 8° 22.2' E	<b>Iso.G.</b> period 2s	89 27		2 Metal post, white rectangular daymark, black stripe; 98.	Visible 135°-225°. Private light.
			<b>2 F.G.</b> (vert.)	79 24			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8249.1 <i>E 1136.41</i>	--Rear, 120 meters 180° from front.	40° 50.1' N 8° 22.2' E	<b>F.G.</b>  <b>Oc.G.</b> (vert.) period 4s fl. 3s, ec. 1s	115 35	2	Metal post, black rectangular daymark, white stripe; 92.	Visible 135°-225°. Private light.
8250 <i>E 1136.5</i>	--E. Range, front.	40° 50.2' N 8° 22.5' E	<b>Iso.R.</b> period 2s  <b>F.R.</b> (vert.)	52 16	2	Pylon, white square daymark, black stripe; 56.	Visible 135°-225°. Private light.
8250.1 <i>E 1136.51</i>	--Rear, 120 meters 180° from front.	40° 50.1' N 8° 22.5' E	<b>F.R.</b>  <b>Oc.R.</b> (vert.) period 4s	75 23	2	Pylon, black square daymark, white stripe; 49.	Visible 135°-225°. Private light.
8252 <i>E 1136.55</i>	-Pier No 2, S.I.R. Terminal.	40° 50.9' N 8° 21.3' E	<b>2 F.G.</b> (vert.)	33 10	3	Green post; 16.	Private light.
8262 <i>E 1135</i>	-Fiumo Santo Power Plant.	40° 51.5' N 8° 18.3' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	13 4	3	Yellow tower.	Marks watering place. Private light.
8264 <i>E 1134</i>	-Stintino.	40° 56.2' N 8° 13.9' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	19 6	4	Red post.	Private light.
8264.5 <i>E 1134.4</i>	-Mole, head.	40° 56.1' N 8° 13.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	8	Green post.	Private light.
8265 <i>E 1133.5</i>	-Punta Salippi.	40° 59.3' N 8° 12.7' E	<b>Fl.W.R.G.</b> period 3s fl. 1s, ec. 2s	20 6	W. 5 R. 4 G. 4	White pillar, black stripes; 16.	G. 293°18'-297°, W.-305°, R.-308°42'.
8266 <i>E 1133</i>	--Passagio dei Fornelli.	40° 59.2' N 8° 13.5' E	<b>Fl.W.R.G.</b> period 3s fl. 1s, ec. 2s	20 6	W. 6 R. 4 G. 4	White pillar, black stripes; 13.	G. 065°12'-068°12', W.-076°12', R.-079°12'.
8268 <i>E 1132</i>	-Rada della Reale.	41° 03.2' N 8° 17.6' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	W. 7 R. 5	White round tower; 36.	R. 297°-320°, W.-297°.
PORTO CONTE:							
8276 <i>E 1124</i>	<b>-Capo Caccia.</b>	40° 33.6' N 8° 09.8' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	610 186	24	White tower, three-story building; 79.	<b>AIS</b> (MMSI No 992471128). Reserve light range 18M.
8280 <i>E 1126</i>	-Porto Conte.	40° 35.6' N 8° 12.2' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	57 17	10	White tower; 26.	
8284 <i>E 1122</i>	Isolotto della Maddalena.	40° 34.3' N 8° 18.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	4	White truncated conical tower, red bands; 20.	
8285 <i>E 1122.6</i>	--Inner breakwater, head.	40° 35.5' N 8° 17.3' E	<b>F.G.</b>	23 7	3	Green post; 16.	Private light.
PORTO ALGHERO:							
8286 <i>E 1117</i>	-S. mole, head.	40° 33.9' N 8° 18.3' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	8	Green column; 20.	
8288 <i>E 1117.2</i>	--Molo di Sottoflutto, head.	40° 33.9' N 8° 18.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	8	Red column; 20.	
8296 <i>E 1119</i>	-N. breakwater, head.	40° 33.7' N 8° 18.7' E	<b>F.R.</b>	23 7	3	Red post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8300 <i>E 1120</i>	Alghero AVIATION LIGHT.	40° 38.0' N 8° 17.0' E	<b>Al.FI.W.G.</b>				Occasional. Private light.
8308 <i>E 1116.4</i>	-E. side, mole, head.	40° 17.2' N 8° 28.6' E	<b>F.R.</b>	26 <b>8</b>	3	Red post; 23.	
8309 <i>E 1116.5</i>	-Outer mole, head.	40° 17.1' N 8° 28.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	36 <b>11</b>	11	Red post; 20.	Reserve light range 8M.
8312 <i>E 1112</i>	<b>Capo Mannu.</b>	40° 02.1' N 8° 22.7' E	<b>Fl.(3)W.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	195 <b>59</b>	<b>15</b>	White tower, building; 36.	
8316 <i>E 1111</i>	Isolotto di Mal di Ventre, highest point.	39° 59.6' N 8° 18.2' E	<b>Fl.W.R.</b> period 6s fl. 1s, ec. 5s	85 <b>26</b>	W. 11 R. 8	White round tower, hut; 26.	R. 004°-020°, W.-004°.
8320 <i>E 1108</i>	<b>-Capo San Marco.</b>	39° 51.6' N 8° 26.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2s fl. 0.2s, ec. 7.6s	187 <b>57</b>	<b>22</b>	Round tower, two-story building; 49.	Visible 215°-155°. Reserve light range 18M.
			<b>L.FI.R.</b> period 5s fl. 2s, ec. 3s	180 <b>55</b>	12		Visible 097°30'-102°30'. Over Scoglio il Catalano
8324 <i>E 1106</i>	-Torre Grande.	39° 54.4' N 8° 31.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	60 <b>18</b>	8	Round tower; 52.	
8332 <i>E 1107.2</i>	--Pontile Sipsa, head.	39° 53.5' N 8° 32.1' E	<b>2 F.R.G.</b> (vert.)	30 <b>9</b> 26 <b>8</b>	3	Red and green post; 20.	Private light.
8336 <i>E 1107.6</i>	--Pontile Perlite, head.	39° 53.6' N 8° 32.0' E	<b>2 F.G.R.</b> (vert.)	42 <b>13</b> 39 <b>12</b>	3	Green and red post; 36.	Private light.
8344 <i>E 1105.2</i>	--Oristano.	39° 51.9' N 8° 32.6' E	<b>Fl.R.</b> period 5s fl. 1.5s, ec. 3.5s	33 <b>10</b>	7	Red column; 16.	
8353 <i>E 1104.2</i>	--Mole, head.	39° 49.8' N 8° 33.1' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	16 <b>5</b>	3	Yellow post; 7.	Private light.
8356 <i>E 1104</i>	-Capo Fresca.	39° 46.2' N 8° 27.3' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	218 <b>66</b>	11	White round tower, hut; 23.	
8358 <i>E 1103.24</i>	Buggerru.	39° 24.2' N 8° 23.9' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s		4	Red structure; 23.	Fl.G. 3s 4M marks W. mole. Private light.
CANALE DI SAN PIETRO:							
8360 <i>E 1103</i>	-Isola Piana, N. extremity.	39° 11.6' N 8° 19.2' E	<b>Fl.(2)W.R.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	59 <b>18</b>	7	White round tower; 26.	R. 209°-231° Over Secca Grande, W.-209°, F.G. 3M marks head of breakwater about 625 meters SE. <b>Radar reflector.</b>
8362 <i>E 1103.2</i>	-Secca Grande.	39° 12.8' N 8° 20.3' E	<b>Q.W.</b>	20 <b>6</b>	3	N. CARDINAL BY, beacon, topmark.	<b>Radar reflector.</b>
-Portoscuso:							
8363 <i>E 1099.5</i>	--N. mole.	39° 12.0' N 8° 22.8' E	<b>F.G.</b>		4	Post.	Private light.
8363.5 <i>E 1099.2</i>	--S. mole.	39° 12.0' N 8° 22.8' E	<b>2 F.R.</b> (vert.)		4	Post.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8364 <i>E 1099</i>	-Scolglio la Ghinghetta.	39° 12.0' N 8° 22.2' E	<b>Fl.(2)W.R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	W. 11 R. 8	Black truncated tower, red bands.	W. 116°-153°, R.-165°, W.- 100°, R.-116°.
-Portovesme:							
8370 <i>E 1100</i>	--No 1.	39° 11.5' N 8° 22.4' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	16 5		4 STARBOARD (A) G, beacon, topmark; 20.	<b>Radar reflector.</b>
8371 <i>E 1100.04</i>	--No 2.	39° 11.6' N 8° 22.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5		4 PORT (A) R, beacon, topmark; 20.	Channel marked by lighted beacons. <b>Radar reflector.</b>
8374 <i>E 1100.6</i>	--Extension of Molo di Ponente.	39° 11.6' N 8° 23.2' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	36 11		7 Red column.	
8376 <i>E 1100.8</i>	--Elbow.	39° 11.7' N 8° 23.4' E	<b>Fl.R.</b>	26 8		3 Red post; 20.	Visible 195°-063°. Safety distance 30m.
8380 <i>E 1101</i>	--Nuovo Diga di Levante.	39° 11.6' N 8° 23.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	37 11		7 Green column, hut; 23.	Safety distance 20m.
-Carloforte:							
8388 <i>E 1093</i>	--Entrance Range, front, Duono.	39° 08.7' N 8° 18.3' E	<b>Fl.R.</b>	75 23		3 White bell tower; 72.	
8392 <i>E 1093.1</i>	---Rear, about 380 meters 273°27' from front.	39° 08.7' N 8° 18.1' E	<b>Fl.R.</b>	131 40		3 Black and white checkered beacon; 16.	
8396 <i>E 1096</i>	--Molo della Sanita, head.	39° 08.7' N 8° 19.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8		6 Green column; 20.	
8400 <i>E 1095</i>	--Molo Central, at head.	39° 08.7' N 8° 18.5' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	23 7		3 Yellow post; 16.	
8412 <i>E 1094</i>	--Leading beacon Range, front.	39° 08.4' N 8° 18.6' E	<b>Fl.R.</b>	36 11		6 White building, black bands; 26.	
8414 <i>E 1094.1</i>	---Rear, 1650 meters 241°55' from front.	39° 08.0' N 8° 17.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	246 75		9 White beacon; 13.	Visible 221°-251°.
8416 <i>E 1092</i>	--Molo San Vittorio (Molo S.), head.	39° 08.7' N 8° 19.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	24 7		8 Red column; 16.	
8418 <i>E 1093.5</i>	--Secca dei Marmi.	39° 09.0' N 8° 20.0' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	20 6		4 SPECIAL Y, beacon, "X" topmark.	<b>Radar reflector.</b>
8419 <i>E 1093.6</i>	--Approach beacon.	39° 08.7' N 8° 20.1' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	20 6		6 SAFE WATER RW, articulated beacon, topmark.	<b>Radar reflector.</b>
8419.5 <i>E 1096.5</i>	--Fishing harbor, S. pier, head.	39° 08.9' N 8° 18.7' E	<b>2 Fl.R. (vert.)</b>	23 7 16 5		2 Red mast; 13.	Private light.
8419.75 <i>E 1096.6</i>	---N. pier, head.	39° 08.9' N 8° 18.7' E	<b>2 Fl.G. (vert.)</b>	23 7 16 5		2 Green mast; 13.	Private light.
-Calasetta:							
8420 <i>E 1098</i>	--Isola di Sant' Antioco, N. side, outer mole, head.	39° 06.8' N 8° 22.5' E	<b>2 Fl.G. (vert.)</b>	20 6 16 5		3 Green mast; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8424 <i>E 1098.4</i>	---Inner mole, head.	39° 06.8' N 8° 22.4' E	<b>2 F.R.</b> (vert.)	19 6 16 5	3	Red mast; 16.	Private light.
8426 <i>E 1098.6</i>	---Shoal, N. edge.	39° 07.0' N 8° 22.2' E	<b>Q.W.</b>	16 5	5	N. CARDINAL BY, beacon, topmark.	Private light.
8428 <i>E 1086</i>	Scoglio Mangiabarche.	39° 04.6' N 8° 20.7' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	40 12	11	White truncated conical tower; 33.	
8432 <i>E 1090</i>	<b>Capo Sandalo.</b>	39° 08.8' N 8° 13.4' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 12.3s	438 134	24	White round tower, two-story stone dwelling; 98.	Aeromarine light. Visible 322°-191° and in Canale di Pietro 311°- 322°. <b>AIS</b> (MMSI No 992471135). Reserve light range 19M.
GOLFO DI PALMAS:							
8436 <i>E 1074</i>	-Isolotta Il Toro.	38° 51.7' N 8° 24.6' E	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	387 118	W. 11 R. 8	Round tower, white hut; 26.	W. 205°-199°, R.-205°.
-Porto Di Saint Antioco (Porto Romano):							
8438 <i>E 1081</i>	--Entrance channel, outer, E.	39° 02.7' N 8° 29.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	STARBOARD (A) G, beacon, topmark; 20.	<b>Radar reflector.</b>
8438.5 <i>E 1081.5</i>	---W.	39° 02.7' N 8° 28.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	PORT (A) R, beacon, topmark; 20.	<b>Radar reflector.</b>
8439 <i>E 1082</i>	--Inner, E.	39° 03.1' N 8° 28.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	STARBOARD (A) G, beacon, topmark; 20.	<b>Radar reflector.</b>
8439.5 <i>E 1082.2</i>	---W.	39° 03.1' N 8° 28.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	PORT (A) R, beacon, topmark; 20.	<b>Radar reflector.</b>
8440 <i>E 1080</i>	-- <b>Saint Antioco Ponti.</b>	39° 03.5' N 8° 28.4' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	75 23	15	White tower, two-story building; 72.	<b>AIS</b> (MMSI No 992471134). Reserve light range 11M.
8444 <i>E 1084</i>	--Banchina del Carbone, SE. head.	39° 03.3' N 8° 28.3' E	<b>F.R.</b>	26 8	4	Red post; 20.	
8444.5 <i>E 1085</i>	---SW. head.	39° 03.2' N 8° 28.2' E	<b>F.G.</b>	26 8	4	Green post; 20.	
PORTO DI TEULADA							
8445 <i>E 1073</i>	-Outer mole, head.	38° 55.6' N 8° 43.3' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	6	Red post; 7.	Private light.
8446 <i>E 1073.1</i>	-Inner mole, head.	38° 55.7' N 8° 43.2' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	6	Green post; 16.	Private light.
8448 <i>E 1072</i>	<b>Capo Spartivento.</b>	38° 52.7' N 8° 50.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 7.4s	265 81	22	Red tower, two-story building; 62.	Visible 240°-085°, and 093°- 094°. <b>AIS</b> (MMSI No 992471133). Reserve light range 18M.
8449 <i>E 1071.2</i>	-Cala Verde, right mole, head.	38° 59.1' N 9° 00.2' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 16.	Tourist port. Private light.
8449.1 <i>E 1071</i>	--Left mole, head.	38° 58.7' N 8° 59.9' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red post; 16.	Tourist port. Private light.

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<b>SARDEGNA (SARDINIA) (I.)</b>							
8452 <i>E 1070</i>	Capo di Pula.	38° 59.2' N 9° 01.3' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	157 48	11	Round tower, hut; 52.	
GOLFO DI CAGLIARI:							
-Sarroch:							
8456 <i>E 1067</i>	--Oil Terminal Platform.	39° 05.2' N 9° 03.1' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	89 27	6	Column, red platform.	Approach channel marked by articulated beacons. Private light.
8464 <i>E 1066.7</i>	--Pontile SARAS, Chimica, No 2 head. Approach Range, front.	39° 06.0' N 9° 01.7' E	<b>2 Iso.R.</b> (vert.) period 2s	36 11	3	Red pole, white triangular daymark point up, red stripe; 16.	2 F.G. (vert.) light is shown at head of inner spur. Private light.
8468 <i>E 1066.71</i>	--Pontile SARAS, No 2, rear, about 1240 meters 291° from front.	39° 06.2' N 9° 00.9' E	<b>2 Oc.R.</b> (vert.) period 4s lt. 3s, ec. 1s	92 28 89 27	3	Red pole, white triangular daymark point up, red stripe; 33.	Visible 287°-295°. Private light.
8476 <i>E 1066.24</i>	-Pontile Rumianca Sud, head.	39° 09.4' N 9° 02.9' E	<b>2 F.R.G.</b> (vert.)	29 9 26 8	3	Red and green poles; 10.	Private light.
8480 <i>E 1066.26</i>	--Pontile Rumianca Sud, 240 meters 306° from head.	39° 09.5' N 9° 02.8' E	<b>Q.W.</b>	29 9	3	White mast; 10.	Private light.
8484 <i>E 1066.28</i>	--Pontile Rumianca Sud, 960 meters 306° from head.	39° 09.7' N 9° 02.3' E	<b>Iso.R.G.</b> period 2s	29 9	3	Red and green post; 10.	G. 126°-306°, R.-126°. Private light.
8488 <i>E 1066</i>	-About 160 meters 000° from Pontile Rumianca Sud Root.	39° 10.1' N 9° 02.0' E	<b>Oc.G.</b> period 6s lt. 5s, ec. 1s	70 21	4	Green pole; 49.	Visible 126°-306°. Private light.
8492 <i>E 1066.2</i>	-About 206 meters 247° from Pontile Rumianca Sud Root.	39° 09.9' N 9° 01.9' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	70 21	4	Red pole; 49.	Visible 306°-126°. Private light.
-Cagliari:							
8500 <i>E 1056.2</i>	--W. breakwater, head.	39° 12.1' N 9° 06.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	43 13	9	White truncated conical tower, red band; 36.	Visible 120°-060°.
8501 <i>E 1056</i>	---Elbow.	39° 12.2' N 9° 06.6' E	<b>FR.</b>	23 7	4	Red post.	Visible 110°-330°.
8502 <i>E 1057</i>	--E. breakwater, head.	39° 11.7' N 9° 06.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	43 13	9	White truncated conical tower, green band; 36.	
---RACON <b>C(- • - •)</b> 6 (3 & 10cm).							
8503 <i>E 1057.4</i>	--Approach.	39° 11.0' N 9° 06.4' E	<b>Fl.(2+1)G.</b> period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 6	3	Green beacon, red band, green triangular daymark point up.	Fl.(2+1)G. 7s 6m 3M and Fl.(2+1)R. 7s 6m 3M beacons close S.
8503.2 <i>E 1065.62</i>	--Molo Settentrionale, head.	39° 11.7' N 9° 05.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		5	Green column.	Private light.
8503.25 <i>E 1065.61</i>	--Molo Meridionale, head.	39° 11.5' N 9° 05.6' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		5	Red column.	Private light.
8503.4 <i>E 1065.625</i>	--Entrance, NE. side.	39° 11.6' N 9° 05.8' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	Green beacon, green triangular daymark, point up.	Visible 268°-183°. Private light.

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<b>SARDEGNA (SARDINIA) (I.)</b>							
8503.45 <i>E 1065.615</i>	--SW. side.	39° 11.6' N 9° 05.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	Red beacon, red square daymark.	Visible 101°-006°. Private light.
8503.6 <i>E 1065.64</i>	--Dock approach, NE. side.	39° 12.2' N 9° 05.0' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	Green beacon, green triangular daymark, point up.	Private light.
8503.65 <i>E 1065.63</i>	--SW. side.	39° 12.2' N 9° 04.9' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	Red beacon, red square daymark.	Private light.
8503.8 <i>E 1065.68</i>	--Dock entrance, SE. side.	39° 12.5' N 9° 04.8' E	<b>2 F.G.</b> (vert.)		3	Green post.	Private light.
8503.85 <i>E 1065.67</i>	--NW. side.	39° 12.5' N 9° 04.7' E	<b>2 F.R.</b> (vert.)		3	Red post.	Private light.
8505 <i>E 1065.6</i>	--Basin.	39° 13.3' N 9° 03.6' E	<b>Dir.W.R.G.</b>	59 18	W. 5 R. 3 G. 3	White post; 20.	F.G. 313°06'-315°00', Al.W.G.-315°24', F.W.- 315°48', Al.W.R.-316°12', F.R.-318°06'.  Private light.
8508 <i>E 1064</i>	--Molo della Capitaneria, NW. corner.	39° 12.6' N 9° 06.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	3	Green mast; 16.	
8512 <i>E 1063</i>	--Pontile della Dogana, SE. corner.	39° 12.7' N 9° 06.8' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	23 7	3	Red mast; 16.	
8516 <i>E 1059.2</i>	--Molo Su Siccu, NW. arm.	39° 12.3' N 9° 07.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	19 6	3	Green pole; 16.	
8520 <i>E 1059</i>	--SE. arm.	39° 12.2' N 9° 07.4' E	<b>F.R.</b>	19 6	3	Red mast; 16.	
8524 <i>E 1058</i>	--Pontile Sant Elmo, head.	39° 12.1' N 9° 07.4' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	20 6	4	SPECIAL Y, beacon, "X" topmark.	
8528 <i>E 1065</i>	--Elmas AVIATION LIGHT.	39° 14.9' N 9° 04.0' E	<b>Al.FI.W.G.</b>				Occasional.
8532 <i>E 1054</i>	<b>-Capo Sant' Elia.</b>	39° 11.1' N 9° 08.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 6.5s	230 70	21	White round tower, black bands, two-story dwelling; 69.	<b>AlS</b> (MMSI No 992471132). Reserve light range 18M.
8536 <i>E 1053</i>	Marina Piccola del Poetto, breakwater, head.	39° 11.6' N 9° 09.8' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	19 6	1	Red mast; 13.	Private light.
8540 <i>E 1053.2</i>	-Entrance, E. side, pier, head.	39° 11.6' N 9° 09.8' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	19 6	1	Green mast; 16.	Private light.
8544 <i>E 1042.1</i>	Baia dei Carbonara.	39° 07.9' N 9° 29.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	46 14	6	White tower, hut; 16.	Visible 009°-058°.
8548 <i>E 1043</i>	<b>Capo Carbonara.</b>	39° 06.3' N 9° 30.8' E	<b>Fl.W.</b> period 7.5s fl. 0.3s, ec. 7.2s	394 120	23	White round tower; 16.	Visible 217°-109°. Reserve light range 18M.
8550 <i>E 1049</i>	Seccadi San Caterina beacon.	39° 05.0' N 9° 29.7' E	<b>Q.(9)W.</b> period 15s	16 5	5	W. CARDINAL YBY, beacon, topmark.	<b>Radar reflector.</b>
8552 <i>E 1048</i>	Isola dei Cavoli.	39° 05.4' N 9° 32.1' E	<b>Fl.(2)W.R.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	242 74	W. 11 R. 8	White tower, black bands, two- story building; 121.	W. 162°-073°, R.-093°, W.- 128°.



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<b>SARDEGNA (SARDINIA) (I.)</b>							
8556 <i>E 1044</i>	Secca dei Berni, near Porto Giunco.	39° 06.8' N 9° 33.1' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	4	ISOLATED DANGER BRB, tower, topmark; 26.	
8560 <i>E 1042</i>	Capo Ferrato.	39° 18.0' N 9° 37.9' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	167 51	11	White tower, white building; 36.	
8564 <i>E 1032</i>	<b>Capo Bellavista.</b>	39° 55.9' N 9° 43.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	541 165	26	White building, black bands; 62. Secondary structure: Concrete pylon.	<b>AIS</b> (MMSI No 992471131). Reserve light range 18M.
			<b>F.R.</b>	476 145	6		Visible 164°-177°30'.
8568 <i>E 1034</i>	Arbatax, Mole di Levante, head.	39° 56.0' N 9° 42.0' E	<b>F.R.</b>	45 14	5	White truncated conical tower, red top; 20.	Visible 295°-150°.
8569 <i>E 1033</i>	-Mole, head.	39° 56.6' N 9° 42.2' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	9	White tower, red band; 26.	
8572 <i>E 1036</i>	-Molo di Ponente.	39° 56.4' N 9° 42.2' E	<b>Fl.R.G.</b> period 3s fl. 1s, ec. 2s	42 13	8	Green column, stone tower; 33.	R. 107°-147°, G.-107°.
8580 <i>E 1031</i>	Cala Gonone, outer mole.	40° 17.0' N 9° 38.0' E	<b>F.G.</b>	23 7	3	Green post.	Private light.
8584 <i>E 1031.2</i>	-Inner mole.	40° 16.8' N 9° 38.4' E	<b>F.R.</b>	23 7	3	Red post.	Private light.
8588 <i>E 1030</i>	<b>Capo Comino.</b>	40° 31.6' N 9° 49.6' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	85 26	15	White tower, building; 66.	Visible 148°-010°. <b>AIS</b> (MMSI No 992471130). Reserve light range 11M.
8592 <i>E 1029</i>	La Caletta, outer mole.	40° 36.0' N 9° 45.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	2	Post, truncated pyramidal base; 7.	Private light.
8596 <i>E 1029.2</i>	-Inner mole.	40° 36.6' N 9° 45.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	16 5	2	Red post, truncated pyramidal base; 23.	Private light.
8598	Isolotto d'Ottiolò.	40° 44.3' N 9° 43.5' E	<b>Q.(3)W.</b> period 10s	16 5	5	E. CARDINAL BYB, beacon, topmark.	
GOLFO DI OLBIA:							
8600 <i>E 1028</i>	<b>-Isola Tavolara.</b>	40° 55.6' N 9° 44.1' E	<b>L.Fl.(2)W.</b> period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	236 72	15	White polygonal tower; 23.	Visible 050°-341°. <b>AIS</b> (MMSI No 992471129). Reserve light range 12M.
8604 <i>E 1028.4</i>	--Porticciolo, outer mole.	40° 55.2' N 9° 43.6' E	<b>F.R.</b>	23 7	3	Red column; 13.	
8608 <i>E 1028.6</i>	--Inner mole.	40° 55.2' N 9° 43.6' E	<b>F.G.</b>	23 7	3	Green column; 13.	
8612 <i>E 1013.8</i>	-Capo Ceraso Beacon.	40° 55.6' N 9° 38.1' E	<b>Q.W.</b>	21 6	5	N. CARDINAL BY, articulated beacon, topmark.	<b>Radar reflector.</b>
8616 <i>E 1014</i>	-- <b>Isola della Bacon.</b>	40° 55.2' N 9° 34.0' E	<b>L.Fl.W.</b> period 5s fl. 2s, ec. 3s	80 24	15	White tower, two-story building; 72.	Visible 180°-264°. <b>AIS</b> (MMSI No 992471127). Reserve light range 11M.
8624 <i>E 1019</i>	--Isola di Mezzo, on S. extremity.	40° 55.2' N 9° 30.7' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green column, pedestal; 16.	
8632 <i>E 1020</i>	--Pontile Benedetto Brin, S. corner, head.	40° 55.3' N 9° 30.6' E	<b>F.G.</b>	20 6	3	Green post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8640 <i>E 1025</i>	--Su Arrasolu Pier, E. corner of T-head.	40° 55.7' N 9° 30.9' E	<b>F.R.</b>	23 7	3	Red post, white hut; 16.	Private light.
8648 <i>E 1012.2</i>	-Golf of Aranci, head of mole, S. side.	40° 59.6' N 9° 37.3' E	<b>Oc.Y.</b> period 3s fl. 2s, ec. 1s	36 11	3	Yellow post; 26.	Oc.R. shown from head of commercial quay. F.R. 4M and F.G. 4M mark head of fishing harbor breakwaters.
8649 <i>E 1012.4</i>	--Head of mole, near launching cradle.	40° 59.6' N 9° 37.3' E	<b>Oc.G.</b> period 3s fl. 2s, ec. 1s		3	Green post, hut; 26.	
8656 <i>E 1013.5</i>	-Bais Caddinas Marina, outer mole, head.	40° 59.0' N 9° 36.0' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	2	Green post; 16.	Private light.
8660 <i>E 1013.6</i>	--Inner mole, head.	40° 59.7' N 9° 36.2' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	2	Red post; 16.	2 F.R.G. (vert.) light 1M is shown from T-mole head. Private light.
8664 <i>E 1010</i>	-Isolotto Figarolo, Golfo di Olbia, entrance, N. side.	40° 58.7' N 9° 38.7' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	233 71	11	Black column, white bands; 19.	Visible 225°-076°.
8665 <i>E 1009.65</i>	Punta Cala Volpe.	41° 02.4' N 9° 33.6' E	<b>Q.W.</b>	16 5	4	N. CARDINAL BY, beacon, topmark.	Private light.
8666 <i>E 1009.8</i>	Punta Canigione.	41° 01.5' N 9° 35.7' E	<b>Q.W.</b>	16 5	5	N. CARDINAL BY, beacon, topmark.	Private light.
8668 <i>E 1009.7</i>	Golfo di Marinella, jetty, head.	41° 00.3' N 9° 33.7' E	<b>Iso.R.</b> period 6s	19 6	3	Red post; 13.	Private light.
8669 <i>E 1009.56</i>	Porto Rotondo, shelter mole.	41° 01.8' N 9° 32.6' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	23 7	W. 7 R. 5	White post; 20.	R. 215°-240°, W.-215°. Private light.
8669.5 <i>E 1009.6</i>	-N. breakwater.	41° 01.8' N 9° 32.6' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	3	Red post; 10.	Private light.
8670 <i>E 1009.62</i>	-S. breakwater.	41° 01.8' N 9° 32.6' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	3	Green post; 10.	Private light.
8671 <i>E 1009.5</i>	-Portisco, Marina di Sa Petra, E. mole.	41° 02.0' N 9° 31.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	3	Green truncated conical tower, post; 16.	Fl.R. 4s 6m 4M marks W. mole. Private light.
8672 <i>E 1009</i>	Punta Ligata.	41° 03.9' N 9° 32.5' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	3	White truncated conical tower; 10.	Private light.
8676 <i>E 1009.2</i>	Cala di Volpe, N. cove, E. entrance point.	41° 04.9' N 9° 32.5' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	19 6	1	STARBOARD (A) G, post, topmark; 20.	Private light.
8680 <i>E 1009.4</i>	-W. entrance point.	41° 05.0' N 9° 32.2' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	1	PORT (A) R, post, topmark; 20.	Private light.
8684 <i>E 1008.4</i>	Isole Poveri, S. islet.	41° 05.2' N 9° 34.8' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	4	ISOLATED DANGER BRB, post, topmark; 13.	Private light.
8686 <i>E 1008.5</i>	--NE. shoal.	41° 05.7' N 9° 35.3' E	<b>Q.(3)W.</b> period 10s	20 6	4	E. CARDINAL BYB, beacon, topmark.	Private light.
8688 <i>E 1008.7</i>	Isolotti Mortorio, NE. islet.	41° 05.2' N 9° 37.1' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	4	ISOLATED DANGER BRB, tower, topmark; 10.	Private light.
8692 <i>E 1005.4</i>	Porto Cervo, S. entrance point.	41° 08.2' N 9° 32.3' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	6	Red truncated conical tower; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8696 <i>E 1005</i>	-N. entrance, point.	41° 08.3' N 9° 32.3' E	<b>FI.G.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	6	Green truncated conical tower; 16.	Private light.
8700 <i>E 1006</i>	-Head of bay, range, front.	41° 08.0' N 9° 31.4' E	<b>Iso.R.</b> period 2s	89 27	3	White post, white square tower, black stripe; 26.	Visible 247°-24'-252°-24'. Private light.
8704 <i>E 1006.1</i>	--Rear, 270 meters 252°-22' from front.	41° 08.0' N 9° 31.2' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	154 47	3	White square tower, black stripe; 10.	Visible 247°-24'-252°-24'. Private light.
8708 <i>E 1007</i>	-Inner N. breakwater.	41° 08.1' N 9° 31.9' E	<b>F.G.</b>	23 7	3	Green post; 16.	Private light.
8712 <i>E 1007.3</i>	-Inner reef, S.	41° 08.0' N 9° 32.0' E	<b>F.R.</b>	23 7	3	Red post; 16.	Private light.
8716 <i>E 1008</i>	Isole di li Nibani, on N. islet.	41° 07.9' N 9° 34.0' E	<b>Q.W.</b>	68 21	4	N CARDINAL BY, tower, topmark; 10.	Private light.
8720 <i>E 1004</i>	Secche del Cervo.	41° 08.7' N 9° 32.7' E	<b>Q.(3)W.</b> period 10s	20 6	4	E. CARDINAL BYB, beacon, topmark; 7.	Private light.
8724 <i>E 1002</i>	<b>Capo Ferro.</b>	41° 09.3' N 9° 31.4' E	<b>FI.(3)W.</b> period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	170 52	24	White round tower, two-story building; 59.	Aeromarine light. <b>AIS</b> (MMSI No 992471126). Reserve light range 18M.
			<b>Oc.R.</b> period 5s lt. 4s, ec. 1s	137 42	8		Visible 189°-203° over Secca delle Bisce and dei Monaci.
8728 <i>E 1003</i>	-320 meters 053° from main light.	41° 09.4' N 9° 31.6' E	<b>FI.R.</b> period 3s fl. 1s, ec. 2s	46 14	8	White truncated conical tower, red band; 33.	
8732 <i>E 1000</i>	Isola delle Bisce, S. side.	41° 09.7' N 9° 31.5' E	<b>FI.G.</b> period 3s fl. 1s, ec. 2s	36 11	8	White tower, green band; 30.	Visible 255°-110°.
8736 <i>E 0998</i>	Isolotti Monaci.	41° 13.0' N 9° 31.0' E	<b>FI.W.R.</b> period 5s fl. 1s, ec. 4s	79 24	W. 11 R. 8	White truncated conical tower; 52.	R. 246°-268°, W.-317°, R.- 357°, W.-246°.
8736.5 <i>E 0998.6</i>	-Secca dei Monaci.	41° 13.3' N 9° 32.6' E	<b>Q.W.</b>	20 6	3	N. CARDINAL BY, beacon, topmark.	
8737 <i>E 0995.4</i>	Porticciolo di Poltu Quatu, E. breakwater.	41° 08.5' N 9° 29.7' E	<b>FI.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red post; 13.	Private light.
8738 <i>E 0995.42</i>	-W. breakwater.	41° 08.5' N 9° 29.7' E	<b>FI.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green post; 13.	Private light.
8740 <i>E 0994</i>	Secca di Tre Monti Beacon.	41° 09.4' N 9° 27.7' E	<b>FI.(2)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	16 5	5	ISOLATED DANGER BRB, beacon, topmark.	<b>Radar reflector.</b>
8742 <i>E 0995</i>	Porticciolo di Cannigione.	41° 06.4' N 9° 26.7' E	<b>FI.G.</b> period 4s fl. 1s, ec. 3s	23 7	3	Green post.	Private light.
8744 <i>E 0996</i>	Isola Caprera, on Punta Rossa.	41° 10.1' N 9° 28.2' E	<b>FI.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	5	Green post, green truncated pyramidal building; 13.	Visible 275°-110°.
8748 <i>E 0992</i>	Capo d'Orso, NE. extremity.	41° 10.7' N 9° 25.4' E	<b>FI.W.</b> period 3s fl. 1s, ec. 2s	39 12	10	White truncated conical tower; 33.	
LA MADDALENA:							
8752 <i>E 0991</i>	-Punta Villamarina, Isola S. Stefano.	41° 11.2' N 9° 24.6' E	<b>FI.G.</b> period 4s fl. 1s, ec. 3s	46 14	4	Green column, pedestal; 20.	

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<b>SARDEGNA (SARDINIA) (I.)</b>							
8753 <i>E 0993</i>	-Cala Capra, N. mole, head.	41° 10.1' N 9° 25.3' E	<b>F.G.</b>	20 6	4	Green post, platform; 16.	Private light.
8756 <i>E 0966</i>	-Isola Chiesa, S. extremity, mole, head.	41° 12.6' N 9° 25.0' E	<b>F.R.</b>	26 8	3	Red column, hut; 23.	
8760 <i>E 0960</i>	--La Maddalena Range, front.	41° 12.8' N 9° 25.1' E	<b>F.G.</b>	56 17	3	White beacon tower, black band; 13.	
8761 <i>E 0960.1</i>	---Rear, 680 meters 066° from front.	41° 12.9' N 9° 25.3' E	<b>F.G.</b>	121 37	3	White beacon tower, black stripe; 23.	
8764 <i>E 0968</i>	--Beacon, 174 meters SW. of mole at S. extremity of island.	41° 12.5' N 9° 24.9' E	<b>F.G.</b>	19 6	3	Green beacon; 16.	
8766 <i>E 0955</i>	-Punta Tegge.	41° 12.6' N 9° 22.7' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	13 4	3	Red truncated pyramidal beacon.	
8768 <i>E 0957</i>	-Guardia Vecchia Range, front.	41° 12.9' N 9° 23.8' E	<b>Iso.G.</b> period 2s	164 50	8	White hut, black stripe; 3.	Visible 008°12'-019°48' between Secche del Paulau and Roma.
8772 <i>E 0957.1</i>	---Rear, about 869 meters 014° from front.	41° 13.3' N 9° 24.0' E	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	492 150	8	White hut, black stripe; 3.	
8776 <i>E 0962.4</i>	-Via G. Amendola, E. extremity.	41° 12.8' N 9° 24.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red post; 16.	
8780 <i>E 0962</i>	--W. extremity, E. side of Cala Gavetta entrance.	41° 12.6' N 9° 24.3' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	23 7	3	Green column; 20.	
8784 <i>E 0961</i>	--Mole, new head.	41° 12.6' N 9° 24.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	20 6	3	Red column; 16.	
8788 <i>E 0963</i>	-Cala Mangiavolpe, pier, head.	41° 12.8' N 9° 24.6' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	23 7	3	Yellow post; 16.	
8792 <i>E 0964</i>	-W. side of bay, breakwater, head.	41° 12.8' N 9° 24.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	16 5	3	Red post; 7.	
8796 <i>E 0972</i>	-Hospital Wharf, head.	41° 12.8' N 9° 25.5' E	<b>F.R.</b>	23 7	3	Red post; 20.	
8804 <i>E 0974</i>	-Cala Camiciotto, W. side of entrance, mole, head.	41° 12.8' N 9° 25.6' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red post; 16.	
8805 <i>E 0975</i>	--E. side of entrance, mole, head.	41° 12.8' N 9° 25.7' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green post; 16.	
8816 <i>E 0980</i>	-Cala Stagnali Range, front.	41° 12.0' N 9° 27.1' E	<b>F.G.</b>	30 9	3	White post, white pylon, black bands; 16.	
8820 <i>E 0980.1</i>	---Rear, about 87 meters 139° from front.	41° 11.9' N 9° 27.1' E	<b>F.G.</b>	46 14	3	White post, white pylon, black bands; 16.	
8824 <i>E 0953</i>	Secca di Mezzo Passo, Isola Maddalena, off SE. head.	41° 12.3' N 9° 22.8' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	5	ISOLATED DANGER BRB, beacon, topmark; 23.	
8828 <i>E 0958</i>	Secca del Palau.	41° 11.8' N 9° 23.2' E	<b>V.Q.(6)+L.Fl.W.</b> period 10s	26 8	5	S. CARDINAL YB, beacon, topmark; 29.	
8829 <i>E 0958.2</i>	-Shoal, E. limit.	41° 11.9' N 9° 23.4' E	<b>Fl.Y.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	4	SPECIAL Y, beacon, "X" topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SARDEGNA (SARDINIA) (I.)</b>							
8832 <i>E 0988</i>	Punta Palau.	41° 11.3' N 9° 22.9' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	4	White round truncated tower, green band; 33.	
8833 <i>E 0990</i>	-Palau, pier, head.	41° 10.9' N 9° 23.2' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	20 6	3	SPECIAL Y, post, "X" topmark; 16.	
8834 <i>E 0990.2</i>	-Beacon.	41° 10.9' N 9° 23.3' E	<b>V.Q.(9)W.</b> period 10s	16 5	5	W. CARDINAL YBY, beacon, topmark.	<b>Radar reflector.</b>
8835 <i>E 0990.6</i>	-Shelter mole.	41° 10.8' N 9° 23.2' E	<b>F.G.</b>	20 6	3	Green post; 16.	Private light.
8835.5 <i>E 0990.4</i>	Marina, breakwater, head.	41° 10.8' N 9° 23.2' E	<b>F.R.</b>	20 6	3	Red post; 16.	Private light.
8836 <i>E 0950</i>	Punta Coda Sardegna, island, N. coast.	41° 12.4' N 9° 21.8' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	125 38	11	White two-story dwelling; 49.	
8840 <i>E 0984</i>	Porto Massimo (Lungo), dike, head.	41° 15.5' N 9° 25.7' E	<b>F.G.</b>	16 5	3	Green post; 13.	Private light.

# Section 7

## West Coast of Italy and Sicily

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
8848 E 0951	Secca Corsara Beacon.	41° 13.4' N 9° 20.1' E	<b>Q.(6)+L.FI.W.</b> period 15s	20 6	5	S. CARDINAL YB, buoyant beacon, topmark.	<b>Radar reflector.</b>
8852 E 1392	-Punta Paratella, island, N. point.	43° 26.4' N 9° 54.1' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	346 105	9	White tower; 16.	Signal station, on summit.
8856 E 1394	-Cala Dello Scalo, mole, head.	43° 25.7' N 9° 54.6' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red lamppost; 13.	
8860 E 1396	-Punta Cala Scirocco, island, SE. point.	43° 25.3' N 9° 54.0' E	<b>FI.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	147 45	9	White tower; 16.	
ISOLA CAPRAIA:							
8864 E 1400	-Punta del Ferraione.	43° 03.0' N 9° 50.7' E	<b>L.FI.W.</b> period 6s fl. 2s, ec. 4s	98 30	16	White tower, dwelling; 39.	<b>AIS</b> (MMSI No 992471023). Reserve light range 11M.
8872 E 1401	--NE. mole, elbow.	43° 03.0' N 9° 51.0' E	<b>FI.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green post; 13.	Visible 195°-074°.
8876 E 1403	--Inner mole, head.	43° 02.7' N 9° 50.3' E	<b>FI.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red post; 13.	
ISOLA D'ELBA:							
8884 E 1444	-Punta Polveriaia.	42° 47.6' N 10° 06.7' E	<b>L.FI.(3)W.</b> period 15s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 5s	170 52	16	White tower, building; 33.	Visible 036°-000°. Reserve light range 11M. <b>AIS</b> (MMSI No 992471027).
8888 E 1408	-Marciana Marina, mole, head.	42° 48.4' N 10° 11.9' E	<b>FI.G.</b> period 4s fl. 1s, ec. 3s	36 11	7	Green column, pedestal; 18.	
8890 E 1409	-Secca di Capo Bianco.	42° 49.5' N 10° 19.1' E	<b>Q.W.</b>	16 5	3	N. CARDINAL BY, buoyant beacon, topmark.	
8892 E 1410	-Scoglietto, Portoferraio approach.	42° 49.7' N 10° 19.8' E	<b>FI.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	7	Castellated tower, hut; 26.	
-Portoferraio:							
8896 E 1412	--Forte Stella.	42° 49.0' N 10° 20.0' E	<b>FI.(3)W.</b> period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	207 63	16	Tower; 82.	Visible 104°-014°. Reserve light range 11M. <b>AIS</b> (MMSI No 992471028).
			<b>FR.</b>	197 60	6		Visible 100°-131°.
8900 E 1415	--Mole, head.	42° 48.7' N 10° 19.8' E	<b>FI.R.</b> period 4s fl. 1s, ec. 3s	23 7	3	Metal bracket, wall tower; 23.	Visible 320°-068°
8904 E 1416.5	--Pontile G. Massima, head.	42° 48.7' N 10° 19.4' E	<b>FI.Y.</b> period 3s fl. 1s, ec. 2s	20 6	4	Yellow post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
8916 E 1414	--Tower Point, NW. angle.	42° 48.7' N 10° 19.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	36 11	4	Green post; 23.	
8920 E 1417	--N. mole, head.	42° 48.6' N 10° 19.0' E	<b>F.G.</b>	16 5	3	Green post; 10.	Private light.
8924 E 1417.2	--S. mole, head.	42° 48.6' N 10° 19.0' E	<b>F.R.</b>	16 5	3	Red post; 10.	Private light.
8928 E 1424	--Cavo, N. mole, head.	42° 51.6' N 10° 25.3' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	4	Green post.	Private light.
8932 E 1423	--E. mole, head of pier extension.	42° 51.6' N 10° 25.5' E	<b>2 F.R.</b> (vert.)	36 11 33 10	3	Red post; 29.	A F.R. 5M light is shown from head of spur of mole. Private light.
8934 E 1429	--Pontile Vigneria.	42° 49.2' N 10° 25.9' E	<b>Iso.W.</b> period 2s	33 10	5	White post; 13.	
8935 E 1428.2	--Inner mole, head.	42° 49.0' N 10° 25.8' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green post; 23.	
8936 E 1428	--Rio Marina, breakwater, head.	42° 48.9' N 10° 25.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	31 9	4	Red post; 23.	
-Porto Azzurro (Longone):							
8940 E 1436	--Pier, head.	42° 45.8' N 10° 23.9' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6	6	Green column; 13.	
8944 E 1434	--Punta S. Giovanni.	42° 45.7' N 10° 23.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	49 15	6	White square hut; 10.	Visible 230°-010°.
8948 E 1432	-- <b>Capo Focardo.</b>	42° 45.2' N 10° 24.6' E	<b>Fl.(3)W.</b> period 15s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 6.5s	105 32	16	Tower, old fort; 20.	Reserve light range 11M. <b>AIS</b> (MMSI No 992471025).
8952 E 1438	-- <b>Monto Poro.</b>	42° 43.6' N 10° 14.3' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	525 160	16	White round tower; 7.	Reserve light range 12M. <b>AIS</b> (MMSI No 992471026).
8956 E 1439	--Marina di Campo, pier, root.	42° 44.3' N 10° 14.2' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	111 34	10	White post, yellow building.	
8960 E 1440	--Outer mole, head.	42° 44.5' N 10° 14.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	3	Red post; 20.	Safety distance 40M
8964 E 1441	--Pier, head.	42° 44.6' N 10° 14.3' E	<b>F.R.</b>	23 7	3	Red post; 16.	Visible 180°-293°. Locally maintained.
8968 E 1448	<b>Isola Pianosa.</b>	42° 34.5' N 10° 05.7' E	<b>Fl.(2)W.</b> period 10s fl. 1.5s, ec. 2s fl. 1.5s, ec. 5s	138 42	16	White tower, white building; 62.	Reserve light range 10M. <b>AIS</b> (MMSI No 992471029).
8972 E 1450	--Cala San Giovanni, mole, head.	42° 35.0' N 10° 06.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red post; 16.	
8976 E 1454	Scoglio d'Africa.	42° 21.0' N 10° 04.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	62 19	7	Round stone tower; 52.	Reserve light range 7M.
8980 E 1384	Secche di Vada, off Capo Cavallo.	43° 19.2' N 10° 21.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	59 18	12	Black round tower, red band; 59	

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
8984 <i>E 1388.4</i>	-Head of pier 0.8 km. WNW. of village.	43° 21.1' N 10° 26.6' E	<b>F.G., F.R.</b> (vert.)	23 7 16 5	G. 3 R. 3	Red post, green bands.	
8988 <i>E 1390</i>	Porto Baratti.	42° 59.6' N 10° 29.8' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	246 75	9	White framework post, hut; 13.	
8992 <i>E 1446</i>	Isola Palmaiola.	42° 52.0' N 10° 28.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	344 105	10	White building; 46.	<b>AIS</b> (MMSI No 992471024).
8996 <i>E 1455</i>	-Rocchetta.	42° 55.2' N 10° 31.5' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	59 18	11	Square tower; 16.	
PORTOVECCHIO DI PIOMBINO:							
9000 <i>E 1456</i>	-Molo Batteria (Mole Foraneo).	42° 55.9' N 10° 33.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	8	Red column, pedestal; 16.	
9004 <i>E 1458</i>	-Molo Magona d'italia, at center of head.	42° 55.9' N 10° 32.7' E	<b>F.R.</b>	20 6	3	Red post.	
9008 <i>E 1457</i>	-Pontile Italsider, head.	42° 56.0' N 10° 32.9' E	<b>4 F.G.</b> (horiz.)	23 7	3	Green posts; 10.	Private light.
9012 <i>E 1459</i>	-Darsena Italsider.	42° 56.1' N 10° 32.6' E	<b>2 F.R.</b> (vert.)	36 11 31 9	3	Red tower; 28.	Private light.
9014 <i>E 1456.3</i>	-Beacon No 3.	42° 55.9' N 10° 35.2' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	SPECIAL Y, articulated beacon, "X" topmark.	Beacon No 2 2.9 miles NE. and No 1 3.9 miles NE. show same characteristics. <b>Radar reflector.</b>
9016 <i>E 1460</i>	Torre del Sale, floating pier, root.	42° 57.1' N 10° 36.1' E	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s	29 9	5	White post; 26.	Entrance is marked by Oc.G. and Oc.R. lights. Two small towers, each with Fl.Y. lights, mark the sea- shore installation.
9020 <i>E 1461</i>	Follonica, pier head, N. corner.	42° 54.0' N 10° 46.0' E	<b>3 F.R.G.R.</b> (vert.)	49 15	3	Red post, green bands; 30.	A similar light is shown from S. corner of the head, and a F.G. light from middle of pier. 1.5 meters apart. Private light.
9024 <i>E 1462</i>	Portiglione.	42° 53.0' N 10° 47.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	5	Green support.	Private light.
9032 <i>E 1466</i>	Punta Ala, outer mole, elbow.	42° 48.0' N 10° 44.0' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	39 12	7	White multi-sided tower; 24.	Obscured inside the port.
9036 <i>E 1466.2</i>	-Inner mole, head.	42° 48.5' N 10° 44.2' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	39 12	5	White multi-sided tower, red bands; 22.	Private light.
9040 <i>E 1466.4</i>	-Mole, head.	42° 48.2' N 10° 44.0' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	39 12	5	White multi-sided tower, green bands; 22.	Private light.
9044 <i>E 1468</i>	Castiglione della Pescaia, S. mole, head.	42° 46.0' N 10° 53.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	8		
9048 <i>E 1470</i>	-N. mole, head.	42° 45.6' N 10° 52.2' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	8	White tower, red bands; 20.	Safety distance 30M



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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9056 E 1474	Formiche di Grosseto, (Maggiore), N. rock.	42° 34.6' N 10° 52.9' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	77 23	11	White round tower, building; 39.	
9060 E 1476	<b>Talamone.</b>	42° 33.1' N 11° 08.0' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	98 30	15	White square tower; 59.	Reserve light range 11M.
9068 E 1477.5	-Outer mole, head.	42° 33.2' N 11° 08.2' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	7	Red column, pedestal; 16.	Safety distance 15M
9076 E 1480	<b>Punta Lividonia.</b>	42° 26.8' N 11° 06.2' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	154 47	16	White round tower, two-story building; 39.	Visible 035°-228°. Reserve light range 11M.
9080 E 1483	-Sanita, mole, head.	42° 26.5' N 11° 07.0' E	<b>2 F.G.</b> (vert.)	23 7 18 5	3	Green post; 23.	Safety distance 30m.
PORTO SANTO STEFANO:							
9084 E 1482	-Porto del Valle, E. mole, head.	42° 26.2' N 11° 07.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red column, pedestal; 16.	
9088 E 1481	-Molo Giuseppe Garibaldi, SE. of port, head.	42° 26.3' N 11° 07.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green post.	
ISOLA DEL GIGLIO:							
9092 E 1486	<b>-Punta Fenaio</b> , N. point.	42° 23.3' N 10° 52.8' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	129 39	16	White octagonal tower, red band, red building, white stripe.	Visible 026°-249°. Reserve light range 12M. <b>AIS</b> (MMSI No 992471030).
9096 E 1488	-Giglio Castello Marina, E. mole, head.	42° 21.7' N 10° 55.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	29 9	7	Red tower; 20.	Safety distance 20m.
9100 E 1490	--W. mole, head.	42° 21.7' N 10° 55.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	29 9	7	Green tower; 20.	Safety distance 10m.
9104 E 1492	<b>-Punta del Capel Rosso.</b>	42° 19.2' N 10° 55.2' E	<b>Fl.(4)W.</b> period 30s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 18.4s	295 90	23	White tower, white building, red bands; 66.	<b>AIS</b> (MMSI No 992471031). Visible 232°-134°. Reserve light range 18M. Obscured by Isola di Giannutri over an arc of 008°.
9108 E 1496	Isola di Giannutri, Punta Rosso.	42° 14.4' N 11° 06.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	200 61	13	White tower, red band, red building, white band.	Visible 195°-106°.
PORT ERCOLE:							
9112 E 1500	<b>-Fort La Rocca.</b>	42° 23.4' N 11° 12.7' E	<b>L.Fl.W.R.</b> period 7s fl. 2s, ec. 5s	300 91	W. 16 R. 13	White round tower, parapet; 62.	R. 177°-285°, W.-010°. Reserve light range 11/8M. <b>AIS</b> (MMSI No 992471032).
9116 E 1502	-Punta Santa Barbara, mole, head.	42° 23.6' N 11° 12.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	8	Red column; 16.	
9120 E 1503	-Punta Scoglione, N. side of entrance.	42° 23.7' N 11° 12.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	30 9	4	Green column, pedestal; 13.	Safety distance 35m.
9124 E 1504	-Cala Galera, protective mole, head.	42° 24.2' N 11° 12.8' E	<b>Iso.W.R.</b> period 2s	34 10	W. 10 R. 7	White column, pedestal, red band; 16.	R. 017°-197°, W.-017°. Private light.

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9128 <i>E 1504.4</i>	--Lee mole, head.	42° 24.2' N 11° 12.7' E	<b>Iso.G.</b> period 2s	34 10	6	Green column, pedestal; 16.	Visible 085°-275°. Private light.
9132 <i>E 1508</i>	<b>Monte Cappuccini.</b>	42° 05.9' N 11° 49.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	410 125	24	White tower. two-story building; 98.	Visible 344°-180°. Reserve light range 18M. <b>AIS</b> (MMSI No 992471033).
9136 <i>E 1506</i>	Torre Valdaliga, W. pier, head.	42° 07.3' N 11° 45.8' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	33 10	4	Yellow post; 23.	F.R. light on chimney about 800 meters NW. Private light.
9137 <i>E 1505.2</i>	-Torrino esterno.	42° 07.4' N 11° 45.1' E	<b>Fl.(3)Y.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	5	Yellow post.	Private light.
9137.5 <i>E 1505</i>	-Torrino intermedio.	42° 07.5' N 11° 45.3' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	20 6	5	Yellow post.	Private light.
9138 <i>E 1506.2</i>	-E. pier, head.	42° 07.2' N 11° 45.9' E	<b>Fl.Y.</b> period 2s fl. 0.5s, ec. 1.5s	33 10	4	Yellow post; 23.	Private light.
9138.5 <i>E 1506.5</i>	Darsena Energetica Grandi masse, inner quay.	42° 07.1' N 11° 45.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	13 4	3	Green post.	Private light.
CIVITAVECCHIA:							
9140 <i>E 1510</i>	-Entrance, W.	42° 06.5' N 11° 45.5' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	46 14	7	Green pile.	Private light.
9140.1 <i>E 1509.8</i>	--E.	42° 06.6' N 11° 45.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	46 14	8	Red pile.	
9140.2 <i>E 1509.55</i>	-Secche della Mattonara.	42° 06.6' N 11° 45.7' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	46 14	3	Yellow pile.	
9141 <i>E 1509.5</i>	-Container Terminal.	42° 06.4' N 11° 46.1' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	3	Post.	Private light.
9148 <i>E 1514</i>	-Banchina Campagna Rona, NW. of Molo Amerigo Vespucci, head.	42° 05.7' N 11° 46.9' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	8	Red column, pedestal.	
9152 <i>E 1513</i>	-Banchina XIV Maggio, mole, head.	42° 05.9' N 11° 46.8' E	<b>F.R.</b>	26 8	3	Red post.	
9153 <i>E 1518.2</i>	-Molo Cialdi.	42° 05.5' N 11° 47.2' E	<b>F.R.</b>	26 8	3	Red post.	
9154 <i>E 1518.5</i>	Riva di Traiano, outer mole, head.	42° 04.0' N 11° 48.6' E	<b>Fl.G.</b> period 5s fl. 1.5s, ec. 3.5s	33 10	6	Green post; 16.	2 F.R. (vert.) shown on inner mole. Private light.
9154.5 <i>E 1518.7</i>	-Beacon.	42° 04.0' N 11° 48.7' E	<b>Fl.R.</b> period 5s fl. 1.5s, ec. 3.5s	26 8	5	Red beacon.	Private light.
9156 <i>E 1518</i>	-Molo Lazaretto, head.	42° 05.6' N 11° 47.1' E	<b>F.R.</b>	26 8	3	Red post.	
9160 <i>E 1519</i>	Santa Marinella, on the outer mole.	42° 02.1' N 11° 52.4' E	<b>2 F.R. (vert.)</b>	23 7 19 6	3	Red post; 13.	Private light.
9164 <i>E 1519.4</i>	-On the inner mole.	42° 02.0' N 11° 52.4' E	<b>2 F.G. (vert.)</b>	16 5 13 4	3	Green post; 13.	Private light.

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
FIUMICINO:							
9168 <i>E 1524</i>	-N. mole, head.	41° 46.3' N 12° 13.1' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	7	Pedestal, red lantern; 20.	Safety distance 40m.
9172 <i>E 1526.3</i>	-S. mole, 60 meters from head.	41° 46.3' N 12° 12.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	8	Pedestal, green lantern; 16.	
9180 <i>E 1526</i>	--At root.	41° 46.2' N 12° 13.3' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	66 20	11	White post; 56.	Fl.G. 5s 5M and Fl.R. 5s 5M mark mouth of Tevere River 1.9 miles SSE.
9184 <i>E 7053</i>	-Offshore pipeline terminal platform, R2.	41° 44.6' N 12° 10.0' E	<b>Fl.(2)W.</b> period 4s fl. 0.5s, ec. 0.5s fl. 1s, ec. 2s	33 10	5	Post.	Floating hose with Fl.R. lights attached to platform. Private light.
9188 <i>E 7054</i>	--Platform R1.	41° 45.1' N 12° 09.2' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	33 10	5	Post.	<b>Horn:</b> Mo.(N) ev. 30s (bl. 4s, si. 2s, bl. 2s, si. 22s). Private light.
ANZIO:							
9192 <i>E 1538</i>	-Cape d'Anzio.	41° 26.8' N 12° 37.3' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	121 37	22	White tower, building; 69.	Visible 255°-155°. <b>AIS</b> (MMSI No 992471034). Reserve light range 18M.
9196 <i>E 1540.5</i>	-Molo Frangiflutti, elbow.	41° 26.6' N 12° 38.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	5	Red post; 16.	
9200 <i>E 1541</i>	-Beacon.	41° 26.8' N 12° 38.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	18 5	4	STARBOARD (A) G, beacon, topmark; 20.	
9204 <i>E 1541.3</i>	Molo Sottoflutto, head.	41° 27.2' N 12° 39.6' E	<b>Fl.R.</b> period 5s fl. 1.5s, ec. 3.5s	36 11	8	Red tower.	Private light.
9208 <i>E 1541.2</i>	-Molo Sopraflutto, head.	41° 27.2' N 12° 39.6' E	<b>Fl.G.</b> period 5s fl. 1.5s, ec. 3.5s	36 11	8	Green tower.	Private light.
9212 <i>E 1541.6</i>	Tori di Foce Verde, pier, head.	41° 24.5' N 12° 48.7' E	<b>Fl.(2)Y.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	4	Yellow post; 30.	Private light.
9216 <i>E 1577</i>	Isola Zannone, on Capo Negro.	40° 58.4' N 13° 03.3' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	121 37	11	White tower, building; 43.	Visible 060°-280°.
9220 <i>E 1576</i>	Punta Varo.	40° 57.9' N 13° 03.0' E	<b>L.Fl.W.</b> period 8s fl. 2s, ec. 6s	134 41	8	White post; 16.	Visible 270°-044°.
ISOLE DI PONZIA:							
9224 <i>E 1588</i>	-Punta della Guardia.	40° 52.7' N 12° 57.2' E	<b>Fl.(3)W.</b> period 30s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 17.7s	367 112	24	Tower, two-story building, red and white bands; 56. Secondary structure: 7.	Visible 225°-155°, except where obscured by Isola Palmarola (118°-136°). <b>AIS</b> (MMSI No 992471036). Reserve light range 10M.
			<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	315 96	8		Visible 235°-265°.

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9228 <i>E 1580</i>	<b>Rotonda della Madonna, Porto di Ponza</b> , entrance, S. side.	40° 53.7' N 12° 58.2' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	200 61	15	White truncated conical tower, three-story dwelling; 59.	Visible 206°-023° and 070°- 080° to aid anchoring at Chiaia di Luna. Reserve light range 11M. F.R. on radio antenna 1.2 miles NNW.
			<b>F.R.</b>	180 55	9		Visible 301°-341°.
9232 <i>E 1584</i>	-Porto di Ponza, mole, head.	40° 53.7' N 12° 57.9' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	39 12	9	Red tower; 39.	
9236 <i>E 1583</i>	-Breakwater, head.	40° 53.8' N 12° 57.9' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	8	Red post; 23.	Safety distance 25m.
9240 <i>E 1582</i>	Scoglio Ravia.	40° 54.0' N 12° 57.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	85 26	6	Green square hut; 10.	
9244 <i>E 1542</i>	<b>Capo Circeo.</b>	41° 13.3' N 13° 04.1' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	125 38	23	White round tower, red two-story building; 59.	Visible 263°-107°. <b>AIS</b> (MMSI No 992471035). Reserve light range 18M.
TERRACINA:							
9248 <i>E 1550</i>	-Mole Gregoriano, head.	41° 17.0' N 13° 15.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	39 12	9	Red lantern, base; 30.	Safety distance 50m.
9252 <i>E 1551</i>	-Outer mole, head.	41° 17.0' N 13° 15.5' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	6	Green post; 20.	Safety distance 25m.
9256 <i>E 1552</i>	-Canal entrance, S. side.	41° 17.0' N 13° 16.0' E	<b>F.R.</b>	26 8	3	Red post; 20.	
9260 <i>E 1554</i>	--N. side.	41° 17.0' N 13° 16.0' E	<b>F.G.</b>	26 8	3	Green post; 20.	
GAETA:							
9264 <i>E 1558</i>	<b>-Monte Oriando.</b>	41° 12.4' N 13° 34.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	607 185	23	Round tower; 46.	<b>AIS</b> (MMSI No 992471038). Reserve light range 18M.
9268 <i>E 1560</i>	-Punta dello Stenardo, S. entrance of port.	41° 12.6' N 13° 35.4' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	66 20	7	Red round tower; 20.	
9272 <i>E 1562</i>	-Punta S. Antonio, mole, head.	41° 13.0' N 13° 34.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	6	Pedestal, red lantern; 16.	2 F.R. (vert.) and 2 F.G. (vert.) shown inside Porto San Antonio.
PORTO SALVO:							
9276 <i>E 1564</i>	-Mole, head.	41° 13.2' N 13° 34.4' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	27 8	7	Pedestal, green lantern; 16.	
9280 <i>E 1565</i>	-Front range, about 307 meters 269° from head of mole.	41° 13.4' N 13° 34.3' E	<b>Q.R.</b>				Private light.
9284 <i>E 1565.1</i>	--Rear, 190 meters 269° from front.	41° 13.4' N 13° 34.2' E	<b>F.R.</b>				Private light.
9288 <i>E 1566</i>	-Oil pier, head.	41° 13.4' N 13° 34.5' E	<b>2 F.R.</b> (vert.)	36 11	1	Post; 23.	1 meter apart. Private light.

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9294 E 1568	-Banchino Salvo d'Acquisto, mole, head.	41° 13.9' N 13° 34.4' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	7	Green lantern, base; 23.	Safety distance 30m.
9296 E 1570	Porticciolo di Capossele, entrance, W. side.	41° 15.0' N 13° 36.0' E	<b>F.R.</b>	13 4	2	Red post; 7.	Private light.
9300 E 1570.2	-Entrance, E. side.	41° 15.0' N 13° 35.9' E	<b>F.G.</b>	13 4	2	Green post; 7.	Private light.
9304 E 1573	Formia, breakwater, near outer head.	41° 15.2' N 13° 36.9' E	<b>Fl.W.R.</b> period 3s fl. 1s, ec. 2s	36 11	W. 11 R. 8	Red lantern, base; 23.	W. 252°-072°, R.-252°. Safety distance 30m.
9308 E 1572	-E. breakwater, head.	41° 15.3' N 13° 36.8' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	30 9	7	Pedestal, green lantern; 16.	Safety distance 30m.
9310 E 1574	Scauri, breakwater, head.	41° 15.1' N 13° 42.1' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	16 5	4	Green post; 10.	Private light.
9312 E 1575.5	Coppola Pinetamare Marina.	40° 58.4' N 13° 58.4' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s		6	Red post.	Fl.Y. light marks harbor entrance. Fl.G. 5s 6M light marks south breakwater close SE. Fl.G. 5s 2M light marks inner breakwater. Private light.
ISOLA VENTOTENE:							
9320 E 1592	<b>-Porto Nicolo.</b>	40° 47.8' N 13° 26.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	69 21	15	White round tower, building; 52.	Visible 158°-022°, obscured 286°-305° over Isola Santo Stefano. <b>AIS</b> (MMSI No 992471037). Reserve light range 11M.
9324 E 1594	-Cala Rossano, outer breakwater, head.	40° 48.0' N 13° 26.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	5	Pedestal, red lantern; 16.	Private light.
9326 E 1595	--Inner breakwater, 15 meters from head.	40° 48.0' N 13° 26.1' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s		4	STARBOARD (A) G, post, topmark; 16.	Private light.
ISOLA D'ISCHIA:							
9328 E 1598	<b>-Punta Imperatore.</b>	40° 42.7' N 13° 51.2' E	<b>Fl.(2)W.</b> period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	538 164	22	White tower, two-story building; 43.	Visible 316°-190°. <b>AIS</b> (MMSI No 992471040). Reserve light range 18M.
9332 E 1600	-Folio, W. mole, head.	40° 44.5' N 13° 51.5' E	<b>Fl.R.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	5	Pedestal, green lantern.	G. 110°-005°, R.-110°. Safety distance 30m. Private light.
9333 E 1600.5	--E. mole, head.	40° 44.5' N 13° 51.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	2	Red post; 13.	Safety distance 50m. Private light.
9340 E 1606	-Casamiccola, 20 meters from head of outer mole.	40° 45.1' N 13° 54.6' E	<b>Fl.G.</b> period 4s	23 7	5	Green post.	Private light.
9341 E 1606.2	--Inner mole.	40° 45.1' N 13° 54.6' E	<b>F.R.</b>	23 7	2	Red post.	Safety distance 20m. Private light.
-Ischia Porto:							
9344 E 1608	-- <b>Bagno</b> , mole, head.	40° 44.9' N 13° 56.5' E	<b>Fl.W.R.</b> period 3s fl. 1s, ec. 2s	43 13	W. 15 R. 12	Red round tower; 36.	R. 127°-197°, W.-127°. Reserve light range W. 11M, R. 9M.
9348 E 1610	--Harbor, W. side of entrance.	40° 44.8' N 13° 56.5' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	14 4	8	Green tower; 10.	

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9352 <i>E 1612</i>	--E. side of entrance.	40° 44.8' N 13° 56.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	14 4	8	Red tower; 10.	Visible 196°-217°.
9356 <i>E 1614</i>	<b>-Castello d' Ischia.</b>	40° 43.9' N 13° 57.9' E	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	269 82	16	Terrace, castle; 10.	Visible 119°-001°. <b>AIS</b> (MMSI No 992471039). Reserve light range 12M.
ISOLA DI PROCIDA:							
9360 <i>E 1614.3</i>	-Secche Formiche di Vivara.	40° 44.6' N 13° 58.6' E	<b>Q.(9)W.</b> period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark; 20.	<b>Radar reflector.</b>
9362 <i>E 1615</i>	-Porticciolo della Chiaiolella, outer mole.	40° 44.8' N 14° 00.4' E	<b>2 F.G.</b> (vert.)	30 9	4	Green post; 23.	2 meters apart. Private light.
9363 <i>E 1615.2</i>	-Molo Ponente, head.	40° 44.9' N 14° 00.3' E	<b>2 F.R.</b> (vert.)	30 9	4	Red post; 23.	Safety distance 20M. 2 meters apart. Private light.
9364 <i>E 1618</i>	-Punta Pioppeto.	40° 46.2' N 14° 01.0' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	69 21	11	White pylon, hut; 10.	Visible 076°-287°.
9368 <i>E 1616</i>	-Procida, mole, head.	40° 46.2' N 14° 01.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	8	Green lantern, base; 23.	Safety distance 30m.
9372 <i>E 1617</i>	-E. breakwater, head.	40° 46.1' N 14° 01.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	8	Red lantern, base; 23.	
9376 <i>E 1619</i>	-Secca del Torrione, S. extremity of shoal.	40° 46.6' N 14° 02.6' E	<b>Q.(6)+L.Fl.W.</b> period 15s	16 5	5	S. CARDINAL YB, articulated beacon, topmark; 16.	<b>Radar reflector.</b>
GOLFO DI POZZUOLI:							
9380 <i>E 1620</i>	<b>-Capo Miseno.</b>	40° 46.7' N 14° 05.3' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	262 80	16	White tower on two-story building; 39.	Visible 199°-112°. <b>AIS</b> (MMSI No 992471041). Reserve light range 12M.
9384 <i>E 1622</i>	-Baia, Fortino Tenaglia.	40° 48.7' N 14° 04.9' E	<b>Iso.R.</b> period 4s	43 13	8	Red tower; 26.	
9388 <i>E 1623</i>	-Arco Felice, Pontile Pirelli, W. corner.	40° 49.7' N 14° 06.2' E	<b>F.Y.</b>	26 8	4	Yellow post; 20.	F.Y. 4M light marks E. corner. Private light.
9390 <i>E 1625</i>	-Molo Caligoliano, breakwater, head.	40° 49.4' N 14° 06.6' E	<b>Iso.G.</b> period 4s	43 13	6	Green tower, white building; 32.	
9400 <i>E 1628.4</i>	-Isola de Nisida, Molo Dandolo, spur.	40° 48.0' N 14° 09.8' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	46 14	7	Green post; 16.	
9404 <i>E 1626</i>	--Pontile Ilva Nord, outer corner.	40° 48.5' N 14° 09.5' E	<b>F.R.</b>	26 8	3		A F.R. light is shown from the opposite corner. Private light.
-Bagnoli:							
9408 <i>E 1626.2</i>	--Mole.	40° 48.5' N 14° 09.9' E	<b>F.G.</b>	20 6	3		A F.G. is shown from the opposite corner. Private light.
9412 <i>E 1626.4</i>	--Pontile Ilva Sud, outer corner.	40° 48.3' N 14° 10.0' E	<b>F.R.</b>	13 4	3		A F.R. light is shown from the opposite corner. Private light.
9416 <i>E 1626.6</i>	--Pontile Montecantini, N. corner.	40° 48.3' N 14° 10.2' E	<b>F.R.</b>	10 3	3	Red and green post.	A F.G. light is shown from the S. corner. Private light.

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9417 <i>E 1628.5</i>	-La Gaiola.	40° 47.7' N 14° 11.0' E	<b>Iso.Y.</b> period 1s	33 10	4	SPECIAL Y, post, "X" topmark; 16.	Private light.
9418 <i>E 1628.6</i>	-Scoglio Traverso.	40° 47.5' N 14° 11.3' E	<b>Fl.(2)Y.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	33 10	4	SPECIAL Y, post, "X" topmark; 16.	Private light.
9420 <i>E 1628.7</i>	-Secca della Cavallara, shoal, S. extremity.	40° 47.1' N 14° 11.3' E	<b>Q.(6)+L.Fl.W.</b> period 15s	18 5	5	S. CARDINAL YB, articulated beacon, topmark; 16.	<b>Radar reflector.</b>
NAPOLI:							
9424 <i>E 1629</i>	-Porticciolo Sannazzaro, W. side of entrance, mole, head.	40° 49.6' N 14° 13.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	29 9	8	Pedestal, red lantern; 16.	Safety distance 20m.
9428 <i>E 1629.4</i>	--E. breakwater, head.	40° 49.7' N 14° 13.4' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	7	Pedestal, green lantern; 16.	
9432 <i>E 1631</i>	-Porticciolo di Santa Lucia (Santa Lucia Harbor), N. side of entrance, angle of quay.	40° 49.8' N 14° 15.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	23 7	4	Green lantern, base; 16.	
9436 <i>E 1632</i>	--S. side of entrance, head of detached breakwater.	40° 49.8' N 14° 15.1' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	5	Red lantern, base; 16.	
9440 <i>E 1636</i>	-Porticciolo del Molosiglio, S. side of entrance, mole, head.	40° 50.0' N 14° 15.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	8	Red lantern, base; 20.	
9444 <i>E 1634</i>	--N. mole, head.	40° 50.1' N 14° 15.3' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 9	3	Pedestal, green lantern; 20.	
9452 <i>E 1652</i>	-Diga Foranea Emanuele Filiberto Duca D'Aosta, E. head.	40° 49.6' N 14° 18.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	39 12	5	Pedestal, red lantern; 16.	Channel marked by 2 Fl.G. and 2 Fl.R. articulated lights. Safety distance 20m.
9456 <i>E 1653</i>	--Bend, near E. head.	40° 50.0' N 14° 17.4' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	4	Pedestal, red lantern; 16.	Visible 122°-308°.
9460 <i>E 1654</i>	--(Angle), W. head.	40° 50.2' N 14° 16.8' E	<b>Fl.R.G.</b> period 4s fl. 1s, ec. 3s	23 7	5	Green pedestal, red lantern; 16.	G. 032°-175°, R.-298°.
9464 <i>E 1648</i>	-Antemurale Thaon de Revel, S. head.	40° 50.0' N 14° 16.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	59 18	9	Green round tower; 39.	
9465 <i>E 1647.5</i>	-Breakwater extension, head.	40° 49.8' N 14° 16.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	49 15	4	Red tower; 33.	
	-RACON		<b>N (- •)</b> period 30s		10		(3cm).
9475 <i>E 1646</i>	-Molo San Vincenzo, head.	40° 50.0' N 14° 16.3' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	82 25	22	Red round tower; 79.	Obscured inside the port 102°-233°. <b> AIS (MMSI No 992471042).</b>
9476 <i>E 1650</i>	--Spur, entrance, W. side.	40° 50.0' N 14° 16.3' E	<b>FR.</b>	20 6	2	Stone structure; 26.	
9480 <i>E 1658</i>	-Molo Martello, head.	40° 50.4' N 14° 16.0' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	2	Green post; 16.	

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9484 <i>E 1662</i>	-Drydock No 3, S. corner.	40° 50.3' N 14° 16.3' E	<b>2 F.R.</b> (vert.)	30 9	3	Post; 26.	Safety distance 100m. F.R. on centre of caisson at S. entrance. 1 meter apart.
9488 <i>E 1664</i>	Darsena Armando Diaz, spur, head.	40° 50.4' N 14° 16.5' E	<b>F.G.</b>	23 7	2	Green post; 16.	
9492 <i>E 1663</i>	-Calata della Marinella Pier, head.	40° 50.5' N 14° 16.5' E	<b>2 F.R.G.</b> (vert.)		3		1 meter apart.
9500 <i>E 1667</i>	-Pontile Vigliena, SE. corner.	40° 50.1' N 14° 17.4' E	<b>F.G.</b>	20 6	2	Green post; 13.	
9516 <i>E 1678</i>	Portici, head of the quay, inner side of breakwater.	40° 48.6' N 14° 20.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	52 16	11	White tower; 46.	
9520 <i>E 1679</i>	-NW. spur of breakwater, mole, head.	40° 48.6' N 14° 20.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s		3	Green post, base; 20.	
9524 <i>E 1680</i>	Torre del Greco, at foot of Mt. Vesuvius, mole, head.	40° 47.0' N 14° 21.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	39 12	9	Pedestal, red lantern; 16.	
9528 <i>E 1681</i>	-Inner mole, head.	40° 47.1' N 14° 21.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	3	Green post; 20.	
9532 <i>E 1685</i>	Torre Annunziata, Molo di Levante, marks shoal.	40° 44.9' N 14° 26.9' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	13 4	5	STARBOARD (A) G, articulated beacon, topmark.	<b>Radar reflector.</b>
9536 <i>E 1684</i>	-W. mole, head.	40° 44.7' N 14° 27.0' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	4	Pedestal, red lantern; 20.	Safety distance 50m.
9537 <i>E 1683.8</i>	-Port entry.	40° 44.6' N 14° 27.3' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	13 4	5	STARBOARD (A) G, beacon, topmark; 13.	Private light.
9538 <i>E 1687</i>	-Fishing harbor, mole, head.	40° 45.2' N 14° 26.8' E	<b>F.R.</b>	16 5	4	Red post; 13.	Safety distance 15m.
9539 <i>E 1683.5</i>	-Marina di Aprea, W. breakwater, head.	40° 44.5' N 14° 27.6' E	<b>F.R.</b>			Red post.	Private light.
9539.1 <i>E 1683</i>	--E. breakwater, head.	40° 44.5' N 14° 27.5' E	<b>F.G.</b>			Green post.	Private light.
<b>CASTELLAMMARE DI STABIA:</b>							
9539.2 <i>E 1688.5</i>	-Scoglio Rovigliano.	40° 43.7' N 14° 27.9' E	<b>Fl.(5)Y.</b> period 20s	36 11	4	SPECIAL Y, beacon, "X" topmark.	Private light.
9539.5 <i>E 1688</i>	-Marina di Stabia.	40° 43.0' N 14° 27.0' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	10 3	4	SPECIAL Y, beacon, "X" topmark.	Marks end of submarine pipeline. Private light.
9540 <i>E 1692</i>	-Main, 1 km. 187° from head of mole.	40° 41.3' N 14° 28.2' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	374 114	16	White tower, white three-story building; 52.	Visible 095°-223°. <b>AIS</b> (MMSI No 992471043). Reserve light range 12M.
9544 <i>E 1693</i>	-W. mole, head.	40° 42.0' N 14° 28.4' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	39 12	8	Pedestal, green lantern; 16.	Safety distance 50m.
9546 <i>E 1693.9</i>	-Molo Quartuccio, head.	40° 41.8' N 14° 28.5' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	3	Red post; 20.	Private light.



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9548 <i>E 1694</i>	-Molo di Sottoflutto, head.	40° 41.8' N 14° 28.5' E	<b>Fl.(2)Y.</b> period 6s fl. 1s, ec. 5s	26 <b>8</b>	3	Red post; 20.	
9550 <i>E 1692.5</i>	-Pozzano.	40° 41.3' N 14° 27.1' E	<b>2 F.R.G.</b> (vert.)	23 <b>7</b>	3	Green post, red bands.	2 meters apart. Private light.
9552 <i>E 1695</i>	Marine di Equa, 30 meters from breakwater, head.	40° 39.7' N 14° 25.0' E	<b>2 F.G.</b> (vert.)	26 <b>8</b>	4	Green post; 20.	2 F.R. (vert.) marks opposite breakwater head. 2 meters apart. Private light.
9554 <i>E 1695.6</i>	Marina di Meta, mole, head.	40° 38.9' N 14° 24.3' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 <b>8</b>	5	Green post; 20.	Private light.
9556 <i>E 1696</i>	Marina di Cassano, mole, head.	40° 38.4' N 14° 24.0' E	<b>F.G.</b>	23 <b>7</b>	3	Green post; 20.	Safety distance 20m.
9560 <i>E 1698</i>	Sorrento, breakwater, head.	40° 37.9' N 14° 22.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	31 <b>9</b>	5	Pedestal, green lantern; 16.	Private light.
9564 <i>E 1700</i>	Scoglio Vervecce.	40° 37.1' N 14° 19.5' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	49 <b>15</b>	7	ISOLATED DANGER BRB, structure, topmark.	
9568 <i>E 1702</i>	Punta Campanella.	40° 34.2' N 14° 19.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	213 <b>65</b>	10	Black tower, white bands; 59.	Visible 270°-166°, obscured by Isola di Capri 066°- 089°.
ISOLA DI CAPRI:							
9572 <i>E 1706</i>	<b>-Punta Carena.</b>	40° 32.2' N 14° 11.9' E	<b>Fl.W.</b> period 3s fl. 0.2s, ec. 2.8s	240 <b>73</b>	<b>25</b>	White tower, two-story building; 92.	Visible 265°-175°. <b>AIS</b> (MMSI No 992471044). Reserve light range 18M.
9576 <i>E 1708</i>	-Il Capo, island, NE. point.	40° 33.6' N 14° 15.8' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	39 <b>12</b>	7	Pedestal, white lantern; 16.	Visible 110°-335°.
9580 <i>E 1710</i>	-Marina Grande, breakwater, head.	40° 33.5' N 14° 14.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	36 <b>11</b>	8	Pedestal, green lantern; 16.	
9584 <i>E 1711</i>	--Molo di Sopraflutto, head.	40° 33.4' N 14° 14.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 <b>9</b>	8	Pedestal, red lantern; 16.	Safety distance 50m.
9588 <i>E 1716</i>	Isolotti Li Galli, N. extremity.	40° 35.0' N 14° 26.0' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	220 <b>67</b>	6	White square tower; 39.	
AMALFI:							
9592 <i>E 1718</i>	-W. mole, head.	40° 37.9' N 14° 36.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 <b>13</b>	8	Pedestal, red lantern; 16.	
9596 <i>E 1720</i>	-Stone jetty, harbor, N. side.	40° 37.9' N 14° 36.1' E	<b>F.G.</b>	26 <b>8</b>	3	Green post; 20.	
9600 <i>E 1722</i>	<b>Capo d'Orso.</b>	40° 38.0' N 14° 40.8' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	217 <b>66</b>	<b>16</b>	White terrace, white two-story building, red bands; 16.	Visible 263°-093°. <b>AIS</b> (MMSI No 992471045). Reserve light range 12M.
SALERNO:							
9604 <i>E 1730</i>	-Outer elbow.	40° 40.3' N 14° 45.3' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	43 <b>13</b>	11	Pedestal, white lantern; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9612 E 1730.2	-Molo di Levante, head.	40° 39.8' N 14° 44.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	42 13	9	Hut, green lantern; 30.	Safety distance 50m.
	<b>RACON</b>		<b>C(- • - •)</b> period 30s		6		(3 & 10cm).
9616 E 1730.4	-Molo di Ponente, head.	40° 40.0' N 14° 44.8' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 13	8	Hut, red lantern; 30.	Safety distance 25m.
9620 E 1733	-Old port, Banchina Manfredi, S. corner.	40° 40.3' N 14° 45.2' E	<b>2 F.G.</b> (vert.)	26 8	3	Green post; 16.	2 meters apart.
9624 E 1733.5	-Secca Manfredi.	40° 40.5' N 14° 45.3' E	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	23 7	2	Green post; 13.	Private light.
9626 E 1734	-Port Masuccio Salernitano, outer mole, head.	40° 40.3' N 14° 45.9' E	<b>2 F.G.</b> (vert.)	20 6	3	Green post; 13.	1 meter apart. Private light.
9627 E 1734.3	--Inner mole, head.	40° 40.4' N 14° 46.0' E	<b>2 F.R.</b> (vert.)	20 6	3	Red post; 13.	Safety distance 30m. 1 meter apart. Private light.
9628 E 1737	San Marco di Castellabate, W. mole.	40° 16.2' N 14° 56.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	2	Green post, base; 20.	Private light.
9632 E 1735	<b>Agropoli.</b>	40° 21.3' N 14° 59.2' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	138 42	16	Tower, hut; 33.	<b>AIS</b> (MMSI No 992471046). Reserve light range 12M.
9636 E 1738	Isolotto Licosa, near Punta Licosa.	40° 15.1' N 14° 54.0' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	43 13	11	White round tower; 30.	
9640 E 1739	Acciaroli, outer mole, head.	40° 10.5' N 15° 01.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	Red post; 20.	Private light.
9644 E 1739.2	-Inner mole, head.	40° 10.5' N 15° 01.6' E	<b>2 F.G.</b> (vert.)	16 5	3	Green post.	1 meter apart. Private light.
9648 E 1739.4	-500 meters E. of outer mole, head.	40° 10.5' N 15° 01.7' E	<b>Iso.R.G.</b> period 2s		4	Red post.	R. 294°-062°, G.-083°. Private light.
9650 E 1739.7	Casalvelino Marina, outer mole, head.	40° 10.5' N 15° 06.5' E	<b>Fl.G.</b> period 3s	26 8	5	Green post.	Private light.
9650.1 E 1739.8	-Inner Mole, outer arm.	40° 10.5' N 15° 06.5' E	<b>Fl.R.</b> period 3s	26 8	5	Red post.	Private light.
9652 E 1740	<b>Capo Palinuro.</b>	40° 01.4' N 15° 16.6' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	675 206	25	White tower, two-story building; 46.	Visible 286°-132°. <b>AIS</b> (MMSI No 992471047). Reserve light range 18M.
9656 E 1741	Camerota marina.	40° 00.0' N 15° 23.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	3	Red post; 16.	Private light.
9660 E 1742	<b>Scario.</b>	40° 02.8' N 15° 29.5' E	<b>Fl.(4)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	79 24	15	White tower, two-story building; 39.	Obscured when bearing more than 025°. <b>AIS</b> (MMSI No 992471048). Reserve light range 12M.
9661 E 1743	-Outer mole, head.	40° 03.0' N 15° 30.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	23 7	4	Red post; 16.	Safety distance 15m. Private light.
9662 E 1743.2	-Inner mole, head.	40° 02.9' N 15° 29.5' E	<b>F.G.</b>	16 5	3	Green post.	Safety distance 40m. Private light.

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9664 E 1746	Sapri (Pisacane), on Punta del Fortino.	40° 04.1' N 15° 37.3' E	<b>Fl.(2)W.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	43 13	7	Red tower; 13.	Visible 223°-083°.
9668 E 1747	Maratea, outer mole, head.	39° 59.2' N 15° 42.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	6	Red post; 10.	Safety distance 30m. Private light.
9672 E 1747.3	-Lee mole, head.	39° 59.2' N 15° 42.6' E	<b>F.G.</b>	24 7	4	Green post; 13.	Private light.
9674 E 1747.2	-S. breakwater, head.	39° 59.2' N 15° 42.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	6	Green post; 16.	Safety distance 30m. Private light.
9676 E 1750	<b>Capo Bonifati.</b>	39° 32.6' N 15° 53.0' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	207 63	15	White tower, hut; 23.	<b>AIS</b> (MMSI No 992471049). Reserve light range 11M.
9680 E 1752	<b>Paola.</b>	39° 21.6' N 16° 02.0' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	175 53	15	Tower; 56.	Visible 315°-160°. <b>AIS</b> (MMSI No 992471050). Reserve light range 11M.
GOLFO DI SANT EUFEMIA:							
9684 E 1756	<b>-Capo Suvero.</b>	38° 57.1' N 16° 09.5' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	190 58	16	White tower, building; 82.	Visible 280°-155°. <b>AIS</b> (MMSI No 992471051). Reserve light range 12M.
9688 E 1756.5	-Turina, pier, head.	38° 51.1' N 16° 13.6' E	<b>2 F.R.G.</b> (vert.)	36 11	4	Red post, green bands.	1 meter apart. Private light.
9692 E 1757	<b>-Vibo Valentia Marina, N.</b> mole, head.	38° 43.4' N 16° 07.7' E	<b>Fl.W.G.</b> period 5s fl. 1s, ec. 4s	56 17	W. 15 G. 12	Green tower; 49.	W. 068°-230°, G.-068°. Reserve light range W. 10M, G. 8M.
9696 E 1758	--S. mole, head.	38° 43.2' N 16° 07.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	7	Pedestal, red lantern; 16.	
9700 E 1760	-Tropea, mole, head.	38° 40.8' N 15° 54.2' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	46 14	5		Safety distance 30m. Private light.
STRETTO DI MESSINA:							
9704 E 1762	<b>-Capo Vaticano.</b>	38° 37.1' N 15° 49.7' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	354 108	24	White tower, building; 26.	Obscured in the Golfo di Santa Eufemia when bearing E. of 205°. Partially visible 208°-215°. <b>AIS</b> (MMSI No 992471052). Reserve light range 18M.
9704.5 E 1763	Gioia Tauro, N. breakwater.	38° 26.7' N 15° 53.5' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	46 14	8	Red tower; 33.	Private light.
RACON							
9704.6 E 1763.35	-Port entry.	38° 26.5' N 15° 54.3' E	<b>Dir.W.R.G.</b>	72 22	6	White tower.	Fl.G. 097°18'-098°18', F.G.-099°18', Oc.G.-100°18', Iso.G.-101°18', F.W.-102°18', Iso.R.-103°18', Oc.R.-104°18', F.R.-105°18', Fl.R.-107°18'. Private light.
9704.7 E 1763.2	-S. breakwater.	38° 26.6' N 15° 53.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	46 14	8	Green tower; 33.	Private light.

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<b>ITALY-WEST COAST AND ADJACENT ISLANDS</b>							
9705 <i>E 1764</i>	-Condoleo di Scilla Range, front.	38° 15.0' N 15° 45.0' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s			2 SPECIAL Y, beacon, "X" topmark.	Marks SW. limit of prohibited area. Private light.
9705.1 <i>E 1764.1</i>	--Rear, 20 meters 175° from front.	38° 15.2' N 15° 44.6' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s			2 SPECIAL Y, beacon, "X" topmark.	Private light.
9706 <i>E 1764.3</i>	-Farazzina Range, front.	38° 15.6' N 15° 45.7' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s			2 SPECIAL Y, beacon, "X" topmark.	Marks NE. limit of prohibited area. Private light.
9706.7 <i>E 1764.31</i>	--Rear, 142° from front.	38° 15.6' N 15° 45.7' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s			2 SPECIAL Y, beacon, "X" topmark.	Private light.
9708 <i>E 1766</i>	<b>-Scilla.</b>	38° 15.4' N 15° 42.9' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	236 72	22	Round tower; 20.	<b>AIS</b> (MMSI No 992471053). Reserve light range 18M.
9716 <i>E 1769</i>	-AVIATION LIGHT, cable tower, ESE. of Torre Cavallo.	38° 14.7' N 15° 41.1' E	<b>FR.Or.</b> (vert.)	1188 362		Pylon, tower; 656.	5 F.R. lights arranged vertically along tower. Private light.
9720 <i>E 1770</i>	<b>-Punta Pezzo.</b>	38° 13.9' N 15° 38.2' E	<b>Fl.(3)R.</b> period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	85 26	15	White round tower, red bands; 75.	Visible 010°-246°. <b>AIS</b> (MMSI No 992471054). Reserve light range 13M.
9724 <i>E 1772</i>	-Villa San Giovanni, mole, head.	38° 13.1' N 15° 37.8' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	45 14	7	Green tower, pedestal; 33.	
9728 <i>E 1773</i>	--Molo Sottoflutto, head.	38° 13.2' N 15° 38.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	6	Red post; 16.	
9732 <i>E 1773.6</i>	--Ferryboat, mole, head.	38° 13.4' N 15° 37.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	4	Green post; 20.	Private light.
9736 <i>E 1776</i>	-Reggio di Calabria, breakwater, head.	38° 07.7' N 15° 39.0' E	<b>Iso.G.</b> period 2s	46 14	7	Pedestal, green lantern; 33.	
9740 <i>E 1777</i>	-Molo di Sottoflutto, head.	38° 07.6' N 15° 39.1' E	<b>Iso.R.</b> period 2s	36 11	6	Red lantern.	
9744 <i>E 1780</i>	<b>-Capo dell'Armi.</b>	37° 57.4' N 15° 40.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 7.5s	312 95	22	White tower, building; 39.	Visible 295°-148°. <b>AIS</b> (MMSI No 992471086). Reserve light range 18M.
9748 <i>E 1780.5</i>	Saline de Montebello.	37° 56.0' N 15° 43.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	4	Green post; 16.	Private light.
9752 <i>E 1780.6</i>	-Inner mole, head.	37° 56.0' N 15° 43.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	23 7	4	Red post; 16.	Private light.
9756 <i>E 1780.7</i>	-Pier, head.	37° 56.0' N 15° 43.0' E	<b>2 F.R.G.</b> (vert.)		1	Green post; 16.	Private light.
9760 <i>E 1780.8</i>	-Sea water intake platform.	37° 56.0' N 15° 43.0' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Tower, platform; 20.	Private light.
9764 <i>E 1781</i>	-Saline Joniche, pier No 2.	37° 56.0' N 15° 44.0' E	<b>2 F.R.</b> (vert.)	36 11	3	Red post; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
PORTO DE MESSINA:							
9766 <i>E 1813</i>	-Marina del Nettuno.	38° 12.0' N 15° 33.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	10 3	3	Red post.	Private light.
9768 <i>E 1814</i>	<b>-Punta San Raineri.</b>	38° 11.6' N 15° 34.5' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	136 41	22	White tower, black bands; 138.	<b>AIS</b> (MMSI No 992471056). Reserve light range 17M.
9772 <i>E 1816</i>	-Punta Secca, peninsula, NE. corner.	38° 11.8' N 15° 34.4' E	<b>Oc.Y.</b> period 3s lt. 2s, ec. 1s	43 13	10	Yellow tower; 39.	Visible 097°-335°.
9776 <i>E 1817</i>	-Punta San Salvatore, entrance.	38° 11.8' N 15° 33.8' E	<b>Fl.(2)R.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	52 16	8	Red lantern; 39.	Visible 340°-250°. The Statue of the Madonna della Lettera, 53m high, located close E., is illuminated.
9780 <i>E 1818</i>	-Port Office.	38° 11.8' N 15° 33.5' E	<b>Fl.(2)G.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	52 16	8	Green tower; 39.	F.G. and F.R. lights are shown from the heads of the westernmost and easternmost jetties of the ferry slips, respectively. Jetty heads between the above are marked by vertically disposed R. and G. lights.
9782 <i>E 1820.5</i>	-Inner mole, head.	38° 08.0' N 15° 31.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	8	Green post; 16.	Private light.
9784 <i>E 1806</i>	<b>Capo Peloro.</b>	38° 16.1' N 15° 39.0' E	<b>Fl.(2)G.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	121 37	19	White octagonal tower, black bands, white building; 121.	Visible 112°30'-069°. <b>AIS</b> (MMSI No 992471055). Reserve light range 13M.
			<b>Iso.R.</b> period 2s	72 22	9		Visible 100°-127° over Rascolmo Bank.
	<b>RACON</b>		<b>M(- -)</b>		10		(3 & 10cm).
9785 <i>E 1810</i>	-Mortelle Range, front.	38° 16.3' N 15° 36.9' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, beacon, "X" topmark.	Marks E. limit of prohibited area. Private light.
9785.1 <i>E 1810.1</i>	--Rear, 30 meters 256° from front.	38° 16.3' N 15° 36.9' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, beacon, "X" topmark.	Private light.
9786 <i>E 1810.2</i>	-Casabianca Range, front.	38° 16.6' N 15° 35.5' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, beacon, "X" topmark.	Marks W. limit of prohibited area. Private light.
9786.1 <i>E 1810.21</i>	--Rear, 30 meters 232° from front.	38° 16.7' N 15° 35.5' E	<b>Fl.(2)Y.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, beacon, "X" topmark.	Private light.
9788 <i>E 1809</i>	-AVIATION LIGHT, cable tower, S. of Capo Peloro.	38° 15.9' N 15° 39.1' E	<b>2 F.G.Or.</b> (vert.)	764 233		Pylon, tower; 656.	5 F.R. lights arranged vertically along tower. Private light.
9792 <i>E 2046</i>	<b>Capo Rasocolmo.</b>	38° 17.7' N 15° 31.1' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	279 85	15	White building; 43.	Visible 280°-255°. Reserve light range 9M. <b>AIS</b> (MMSI No 992471084).
9796 <i>E 2042</i>	<b>Capo di Milazzo.</b>	38° 16.2' N 15° 13.8' E	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	295 90	16	White tower; 33.	Reserve light range 12M. <b>AIS</b> (MMSI No 992471083).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
9800 <i>E 2044</i>	Milazzo, N. mole, head.	38° 13.0' N 15° 15.0' E	<b>L.F.I.G.</b> period 5s fl. 2s, ec. 3s	40 12	7	Pedestal, green lantern; 20.	
9804 <i>E 2045.4</i>	-Harbor platform.	38° 12.5' N 15° 16.9' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	3	SPECIAL Y, platform, "X" topmark.	Private light.
9808 <i>E 2044.2</i>	-S. mole, head.	38° 12.9' N 15° 14.8' E	<b>L.F.I.R.</b> period 5s fl. 2s, ec. 3s	39 12	6	Pedestal, red lantern; 16.	Safety distance 30m.
9812 <i>E 2044.4</i>	-Pontile Etoile, head.	38° 13.1' N 15° 14.5' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	23 7	3	Yellow post; 13.	2 F.R. (vert.) shown on pier 80 meters SSE.
9816 <i>E 2045</i>	-Oil Pier No 1, head.	38° 12.8' N 15° 15.9' E	<b>2 F.G.</b> (vert.)	54 16	5	Green dolphin.	2 F.G.R. (vert.) 5M shown from Pier No 2, close E. 2 meters apart. Private light.
9820 <i>E 2045.3</i>	-Pier, head.	38° 12.7' N 15° 16.5' E	<b>2 F.R.</b> (vert.)	39 12	5	Red post, dolphin.	2 meters apart. Private light.
ISOLE EOLIE:							
9824 <i>E 1786</i>	<b>-Isola Vulcano, Punta dei Porci, S. head.</b>	38° 22.0' N 14° 59.5' E	<b>Fl.(4)W.</b> period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	115 35	16	White tower, two-story building; 102.	Visible 251°-093°. Reserve light range 12M.
9825 <i>E 1786.3</i>	--Punta Nere.	38° 24.8' N 14° 58.0' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	3	Tower, base; 13.	Visible 176°-285°. Private light.
9826 <i>E 1786.5</i>	--Port Levanto, pier, head.	38° 24.9' N 14° 57.7' E	<b>2 F.G.</b> (vert.)	23 7	3	Green post; 16.	Private light.
-Isola Lipari:							
9828 <i>E 1788</i>	--Lipari Anchorage, head of Pignatoro Mole.	38° 28.6' N 14° 57.8' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	36 11	8	Green tower, hut; 20.	
9830 <i>E 1792.7</i>	--Pontile Traghetti.	38° 29.5' N 14° 57.8' E	<b>F.G.</b>	20 6	7	Green post; 16.	Private light.
9832 <i>E 1790</i>	--Punta Scaliddi.	38° 28.2' N 14° 57.4' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	7	Red post; 20.	F.R.G. (vert.) 4M marks head of jetty 290 meters NNW.
9836 <i>E 1792</i>	--Marina Corta.	38° 27.9' N 14° 57.5' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	36 11	14	White round tower; 20.	
9838 <i>E 1793</i>	--Porticello.	38° 31.0' N 14° 57.6' E	<b>2 F.R.</b> (vert.)	23 7	3	White post, red bands; 23.	1 meter apart. Private light.
9840 <i>E 1800</i>	-Isola Panarea, Punta Peppemaria.	38° 38.2' N 15° 04.7' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	49 15	W. 10 R. 8	White tower; 23.	R. 319°-343° over Scoglio Le Formiche, W.-319°.
9844 <i>E 1802</i>	-Isola Stromboli, Isolott Strombolicchio, summit.	38° 49.1' N 15° 15.2' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	187 57	11	White round tower; 26.	
9845 <i>E 1801</i>	--Ginostra, mole, head.	38° 47.1' N 15° 11.4' E	<b>2 F.G.R.</b> (vert.)	16 5	5	Green and red post.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
9846 <i>E 1785</i>	-Isola Filicudi.	38° 34.9' N 14° 31.6' E	<b>Fl.(6)W.</b> period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	66 20	11	Post; 20.	Visible 317°-090° and 095°-255°. Reserve light range 8M.
9847 <i>E 1784</i>	-Isola Alicudi.	38° 32.0' N 14° 21.7' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	36 11	10	White post; 26.	Private light.
-Isola Salina:							
9848 <i>E 1798</i>	-- <b>Capo Faro (Salina).</b>	38° 34.8' N 14° 52.3' E	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	184 56	18	Tower, building; 39.	Visible 123°-357°, light faint 123°-137°. <b>AIS</b> (MMSI No 992471085). Reserve light range 11M.
9852 <i>E 1796</i>	--Punta Lingua.	38° 32.2' N 14° 52.3' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	43 13	11	White tower, building; 36.	Visible 186°-076°.
9856 <i>E 2038</i>	<b>Capo d'Orlando.</b>	38° 09.9' N 14° 45.0' E	<b>L.Fl.(2)W.</b> period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	89 27	16	Tower, building; 33.	Reserve light range 12M. <b>AIS</b> (MMSI No 992471082).
9860 <i>E 2036</i>	<b>Capo Cefalu.</b>	38° 02.3' N 14° 01.8' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	262 80	25	White tower, building; 85.	Reserve light range 18M. <b>AIS</b> (MMSI No 992471081).
TERMINI IMERESE:							
9868 <i>E 2035</i>	-Pontile della Societa Tifeo.	37° 59.3' N 13° 45.1' E	<b>Q.R.</b>	66 20	5	White post.	Private light.
9870 <i>E 2035.2</i>	-Water intake.	37° 58.7' N 13° 45.1' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	3	Red post, white bands.	Private light.
9876 <i>E 2030</i>	-Inner mole.	37° 59.1' N 13° 42.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	23 7	5	Pedestal, red lantern; 16.	
9890 <i>E 2024</i>	Scoglio Formica.	38° 05.4' N 13° 33.6' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 2	3	ISOLATED DANGER BRB, beacon, topmark.	
9892 <i>E 2025</i>	Punta Porticello, outer breakwater, head.	38° 05.3' N 13° 32.5' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	20 6	5	Pylon, hut; 13.	Private light.
9896 <i>E 2026</i>	-Transverse mole, head.	38° 05.3' N 13° 32.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	4	Red framework tower, pedestal; 20.	Safety distance 35m. Private light.
9900 <i>E 2023</i>	<b>Capo Zafferano.</b>	38° 06.7' N 13° 32.3' E	<b>Fl.(3)W.R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	111 34	W. 16 R. 12	White tower, building; 36.	W. 105°-298°, R.-344°, W.-355°. Reserve light range W. 12M, R. 9M. <b>AIS</b> (MMSI No 992471080).
PALERMO:							
9908 <i>E 2008</i>	- <b>Diga Foranea</b> , elbow.	38° 07.6' N 13° 22.5' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	49 15	15	White round tower; 36.	
	-RACON		<b>P(• - - •)</b>		10		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
9910 E 2013	--Head.	38° 07.3' N 13° 22.8' E	<b>L.FI.G.</b> period 5s fl. 2s, ec. 3s	33 10	5	Green post; 23.	
9912 E 2014	-S. mole, head.	38° 07.6' N 13° 22.3' E	<b>L.FI.R.</b> period 5s fl. 2s, ec. 3s	31 9	8	Red tower; 20.	Safety distance 35m.
9914 E 2010	-Industrial Port, breakwater, head.	38° 08.0' N 13° 22.7' E	<b>F.G.</b>				
9916 E 2019	-Pontile Vittorio Veneto, head.	38° 07.6' N 13° 22.1' E	<b>2 F.G.</b> (vert.)	26 8	3	Post; 20.	1 meter apart. Private light.
9917 E 2011	-Aguasanta, outer mole, head.	38° 08.7' N 13° 22.4' E	<b>2 F.G.</b> (vert.)	36 11	3	Green post; 30.	Private light.
9917.5 E 2012	--Inner mole, head.	38° 08.6' N 13° 22.3' E	<b>2 F.R.</b> (vert.)	36 11	3	Red post; 16.	Private light.
9918 E 2012.3	-Molo di Sopralfutto.	38° 08.5' N 13° 22.4' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	20 6	4	Yellow post; 13.	Private light.
9924 E 2005	Mondello Valdesi, mole, head.	38° 11.9' N 13° 20.1' E	<b>2 F.R.</b> (vert.)	24 7	3	Red post; 16.	2 F.G. (vert.) on mole 0.6 miles NNW. 1 meter apart. Private light.
9936 E 2004	<b>Capo Gallo.</b>	38° 13.4' N 13° 19.0' E	<b>L.FI.(2)W.</b> period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	131 40	16	White round tower, building; 23.	Visible 077°-297°. <b>AIS</b> (MMSI No 992471079). Reserve light range 13M.
9940 E 1994	<b>Punta Raisi, AVIATION LIGHT.</b>	38° 11.4' N 13° 06.5' E	<b>Al.FI.W.G.</b>		35		<b>AIS</b> (MMSI No 992471076). Private light.
9948	-AVIATION LIGHT, near point.	38° 11.1' N 13° 06.1' E	<b>Mo.(Q)G.</b> period 8s		12		Private light.
9952 E 1993.54	Terrasini, E. mole, head.	38° 09.0' N 13° 04.6' E	<b>2 F.R.</b> (vert.)	26 8	1	Red round post; 16.	Private light.
ISOLA D'USTICA:							
9956 E 1996	<b>-Punta Omo-Morto.</b>	38° 42.8' N 13° 11.9' E	<b>Fl.(3)W.</b> period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	328 100	25	White tower, building; 33.	Visible 087°-356°. <b>AIS</b> (MMSI No 992471077). Reserve light range 11M.
			<b>Oc.R.</b> period 5s lt. 4s, ec. 1s	312 95	9		Visible 135°-145° over Secca Colombara.
9960 E 1997	-Cala Santa Maria, mole, head.	38° 42.5' N 13° 11.8' E	<b>2 F.R.</b> (vert.)	31 9	3	Red post; 13.	1 meter apart. Private light.
9964 E 2000	<b>-Punta Cavazzi.</b>	38° 41.6' N 13° 09.3' E	<b>Fl.(4)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	131 40	16	White cylindrical tower; 92.	Visible 297°-194°. <b>AIS</b> (MMSI No 992471078). Reserve light range 12M.
9968 E 1992	Castellammare del Golfo.	38° 01.8' N 12° 52.9' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	62 19	10	White square hut; 13.	Visible 093°-263°.
9972 E 1993.5	Terrasini, outer mole, head.	38° 09.6' N 13° 04.8' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	White post, black bands; 13.	Private light.
9976 E 1993.6	-Inner mole, head.	38° 09.4' N 13° 04.6' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	White post, red bands; 13.	Private light.



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<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
9980 <i>E 1993</i>	-N. mole, head.	38° 02.1' N 12° 52.9' E	<b>Fl.G.</b> period 8s fl. 1s, ec. 7s	19 6	3	Green post; 16.	
9984 <i>E 1990</i>	-Punta Solanto, close N. of Torre dell'Usciére.	38° 10.5' N 12° 46.2' E	<b>Fl.W.R.</b> period 3s fl. 1s, ec. 2s	82 25	W. 10 R. 8	White square hut; 16.	R. 122°-144°, W.-122°.
9988 <i>E 1986</i>	<b>Capo San Vito.</b>	38° 11.1' N 12° 44.3' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s  <b>Iso.R.</b> period 4s	148 45  39 12	<b>25</b>	White cylindrical tower, building; 131.	Visible 036°-000°. AIS (MMSI No 992471075). Reserve light range 18M.  Visible 165°-225°.
9992 <i>E 1987</i>	-Breakwater, head.	38° 10.7' N 12° 44.0' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green post; 16.	Private light.
9996 <i>E 1988</i>	-Lee breakwater, head.	38° 10.7' N 12° 44.0' E	<b>2 F.R.</b> (vert.)	31 9	3	Red post; 20.	2 meters apart. Private light.
ISOLE EGADI:							
10000 <i>E 1962</i>	Isola de Levanzo, Capo Grosso, island, N. head.	38° 01.0' N 12° 20.0' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	223 68	11	White round tower, building; 39.	Visible 032°-331°. Reserve light range 10M.
10004 <i>E 1956</i>	--Punta Libeccio.	37° 57.3' N 12° 03.0' E	<b>Fl.(2)W.</b> period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	240 73	<b>24</b>	White tower, two-story white building, black bands; 79.	Visible 298°-151°. AIS (MMSI No 992471074). Reserve light range 15M.
-Isola Marettimo:							
10008 <i>E 1960</i>	--Punta San Simone, island, E. side.	37° 57.9' N 12° 04.6' E	<b>F.G.</b>	23 7	3	Green post; 16.	Safety distance 30m. Private light.
10012 <i>E 1958</i>	--Landing pier, head.	37° 58.1' N 12° 04.4' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	5	Pedestal, red lantern; 20.	
10016 <i>E 1948</i>	<b>Isola Favignana, Punta Marsala.</b>	37° 54.2' N 12° 21.9' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	65 20	<b>15</b>	White cylindrical tower, two-story building; 46.	Visible 202°-095°. AIS (MMSI No 992471072). Reserve light range 11M.
10018 <i>E 1947.5</i>	Punta Scario Beacon.	37° 54.1' N 12° 24.5' E	<b>Q.(9)W.</b> period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	<b>Radar reflector.</b>
10020 <i>E 1952</i>	<b>Punta Sottile.</b>	37° 56.0' N 12° 16.2' E	<b>Fl.W.</b> period 8s fl. 0.3s, ec. 7.7s	141 43	<b>25</b>	White cylindrical tower, building; 125.	Visible 316°-237°. Aeromarine light. AIS (MMSI No 992471073). Reserve light range 18M.
10024 <i>E 1949</i>	Favignana, outer mole, head.	37° 55.9' N 12° 20.8' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	7	Pedestal, red lantern; 16.	Safety distance 35m.
10028 <i>E 1950</i>	-Inner mole, head.	37° 55.8' N 12° 19.6' E	<b>2 F.R.G.</b> (vert.)	23 7 19 6	4	Red post, green bands; 20.	1 meter apart. Private light.
10032 <i>E 1966</i>	Isolotto Formica, on the castle.	37° 59.3' N 12° 25.4' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	92 28	11	White cylindrical tower, building; 66.	
10036 <i>E 1968</i>	Scogli Porcelli, in approach to Trapani.	38° 02.4' N 12° 26.3' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	75 23	11	Cylindrical tower; 82.	

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<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
10040 <i>E 1982</i>	Isolotto Asinelli, in approach to Trapani.	38° 03.9' N 12° 31.9' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	7	ISOLATED DANGER BRB, tower, topmark; 36.	
10044 <i>E 1970</i>	Scoglio Palumbo, N. side of entrance.	38° 00.8' N 12° 29.3' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	54 16	11	White cylindrical tower, building; 39.	
			<b>Iso.R.</b> period 2s	30 9	8		Visible 131°-176°.
10052 <i>E 1978</i>	-Molo del Ronciglio, head.	38° 00.7' N 12° 30.3' E	<b>F.G.</b>	33 10	3	Green pylon, hut; 7.	Safety distance 25m.
10060 <i>E 1979.2</i>	-Detached breakwater, E. head.	38° 00.8' N 12° 30.0' E	<b>Fl.R.</b> period 6s fl. 1s, ec. 5s	23 7	4	Red post, base; 20.	Visible 073°-023°.
<b>MARSALA:</b>							
10064 <i>E 1940</i>	-W. mole, inner head.	37° 47.0' N 12° 26.2' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	62 19	15	White cylindrical tower, dwelling; 62.	<b>AIS</b> (MMSI No 992471071). Reserve light range 12M.
10068 <i>E 1942</i>	--Outer head.	37° 46.9' N 12° 26.2' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	36 11	8	Pedestal, red lantern; 20.	
10072 <i>E 1944</i>	-E. mole, head.	37° 47.1' N 12° 26.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	30 9	8	Pedestal, green lantern; 20.	
10076 <i>E 1938</i>	Capo Feto.	37° 39.7' N 12° 31.2' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	46 14	11	White cylindrical tower, square hut; 39.	
10078 <i>E 1938.3</i>	-Gas pipeline beacon.	37° 39.5' N 12° 32.3' E	<b>Fl.(3)Y.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	4	SPECIAL Y, post, "X" topmark.	Private light.
10080 <i>E 1932</i>	Mazara del Vallo, W. mole, head.	37° 38.5' N 12° 35.2' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	43 13	5	Pedestal, red lantern; 16.	
10082 <i>E 1932.5</i>	-SE. corner.	37° 38.8' N 12° 35.0' E	<b>Iso.Y.</b> period 2s	33 10	3	Pedestal, yellow lantern; 16.	
10084 <i>E 1933</i>	-E. mole, head.	37° 38.7' N 12° 35.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	43 13	8	Pedestal, green lantern; 16.	
10092 <i>E 1930</i>	<b>Capo Granitola.</b>	37° 33.9' N 12° 39.7' E	<b>L.Fl.W.</b> period 10s fl. 3s, ec. 7s	123 37	18	White cylindrical tower; 115.	<b>AIS</b> (MMSI No 992471066). Reserve light range 13M.
10094 <i>E 1928.5</i>	<b>Capo San Marco.</b>	37° 29.8' N 13° 01.2' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 7s	82 25	18	White tower, hut; 36.	<b>AIS</b> (MMSI No 992471065).
<b>SCIACCA:</b>							
10096 <i>E 1926</i>	-Molo di Levante, old head.	37° 30.1' N 13° 04.9' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s		2	Green post; 10.	Visible inside the harbor only.
10100 <i>E 1926.2</i>	--Head.	37° 30.0' N 13° 04.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s		2	Green lantern.	Visible inside the harbor only. Safety distance 30m.
10104 <i>E 1927</i>	-Molo di Ponete, about 7 meters from head.	37° 30.1' N 13° 04.6' E	<b>L.Fl.R.</b> period 6s fl. 2s, ec. 4s	30 9	8	Pedestal, red lantern; 16.	Safety distance 40m.

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<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
10108 <i>E 1928</i>	-Diga di Levante.	37° 30.0' N 13° 04.6' E	<b>L.F.I.G.</b> period 6s fl. 2s, ec. 4s	36 11	8	Pedestal, green lantern; 20.	
10112 <i>E 1922</i>	<b>Capo Rosello.</b>	37° 17.7' N 13° 26.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	312 95	22	Tower, building; 26.	<b>AIS</b> (MMSI No 992471064). Reserve light range 18M.
PORTO EMPEDOCLE:							
10116 <i>E 1918</i>	-E. mole, head.	37° 16.8' N 13° 31.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	30 9	8	Green tower; 23.	Fl.R. 2.5s 178m and 2 Fl.R. 2.5s 147m on radio antenna 2 miles NE.
10120 <i>E 1916</i>	-W. mole, head.	37° 16.5' N 13° 31.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	39 12	8	Pedestal, red lantern; 16.	4 F.R. lights are shown from each of 2 chimneys, 269 feet high, about 275 yards west of root of W. mole.
10124 <i>E 1920</i>	-Molo Francesco Crispi, old port, W. side.	37° 17.1' N 13° 31.8' E	<b>F.R.</b>	19 6	3	Red post; 13.	Visible 172°-050°.
LICATA:							
10128 <i>E 1904</i>	<b>-Mole di Levante.</b>	37° 05.8' N 13° 56.5' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	131 40	21	White cylindrical tower; 123.	Visible 180°-095°. <b>AIS</b> (MMSI No 992471063). Reserve light range 18M.
10132 <i>E 1908</i>	-Diga di Levante, head.	37° 05.1' N 13° 56.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	8	Green round tower; 26.	
10136 <i>E 1906</i>	--E. head.	37° 05.3' N 13° 56.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	4	Red tower; 3.	
10137 <i>E 1907</i>	-Darsena Marianello entrance, W.	37° 05.5' N 13° 56.0' E	<b>2 F.R.</b> (vert.)	20 6	3	Red post; 16.	F.Y. 2m 1M is shown on two piers inside the harbor. Visible inside the harbor only. 2 meters apart. Private light.
10138 <i>E 1912.5</i>	--E. head.	37° 05.5' N 13° 56.1' E	<b>2 F.G.</b> (vert.)	20 6	3	Green post; 16.	Visible inside the harbor only. 2 meters apart. Private light.
10140 <i>E 1912</i>	-Molo di Ponente, head.	37° 05.6' N 13° 56.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	4	Pedestal, red lantern; 16.	Visible 160°-325°.
10144 <i>E 1905</i>	-Molo di Levante, head.	37° 05.5' N 13° 56.3' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	39 12	4	Pedestal, green lantern; 16.	
GELA:							
10152 <i>E 1902</i>	-Porto Refugio, Molo di Levante, head.	37° 03.9' N 14° 13.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	16 5	8	Pedestal, green lantern; 26.	Safety distance 25m.
10156 <i>E 1902.2</i>	--Molo di Ponente, head.	37° 03.8' N 14° 13.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	8	Pedestal, red lantern; 16.	Safety distance 25m.
10160 <i>E 1900.6</i>	-Jetty, head.	37° 02.7' N 14° 15.5' E	<b>2 F.R.</b> (vert.)	32 10	3	Red post; 16.	1 meter apart. Private light.
10164 <i>E 1900.4</i>	-Porto Isola, pier, head.	37° 01.9' N 14° 15.1' E	<b>2 F.R.G.</b> (vert.)	75 23	3	Black post, red bands.	2 meters apart. Private light.
10168 <i>E 1900.2</i>	--Breakwater, W. head.	37° 02.1' N 14° 14.8' E	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	40 12	3	Green post, sentry box; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
10172 <i>E 1900</i>	--Breakwater, E. head.	37° 01.8' N 14° 15.4' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	40 12	3	Red post, sentry box; 17.	Private light.
10180 <i>E 1898</i>	Scoglitti.	36° 53.5' N 14° 25.6' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	49 15	8	White tower, building; 43.	
10184 <i>E 1896</i>	<b>Scaramia.</b>	36° 47.2' N 14° 29.6' E	<b>Fl.(2)W.</b> period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	121 37	16	White cylindrical tower; 112.	<b>AIS</b> (MMSI No 992471062). Reserve light range 12M.
10188 <i>E 1894</i>	Marina de Ragusa (Mazzarelle), on beach.	36° 46.9' N 14° 33.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	40 12	8	Yellow tower, building; 39.	
10190 <i>E 7120</i>	Platform VEGA.	36° 32.3' N 14° 37.5' E	<b>4 Mo.(U)W.</b> period 15s	62 19	10	Red framework tower, white bands, yellow platform; 226.	Aero lights 10 FR. 3M. <b>Horn:</b> Mo.(U) ev. 30s. Private light.
			<b>3 Mo.(U)R.</b> period 15s	197 60	5		
	RACON		<b>V(••• -)</b> period 30s		10		(3 & 10cm).
10196 <i>E 1889.05</i>	<b>Pozzallo</b> , on beach.	36° 42.6' N 14° 49.8' E	<b>Fl.(4)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	59 18	15	White masonry tower; 49.	Reserve light range 11M.
10208 <i>E 1888</i>	Scogli Porri, on largest rock.	36° 41.1' N 14° 55.9' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	7	Black post, red bands; 20.	
10212 <i>E 1886</i>	Isola delle Correnti, S. point.	36° 38.7' N 15° 04.6' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	52 16	11	Tower, building; 36.	
10216 <i>E 1885</i>	Porto Palo, mole, head.	36° 41.0' N 15° 09.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	19 6	3	Green lantern; 13.	Visible 130°-060°. Safety distance 25m. Private light.
10224 <i>E 1882</i>	<b>Cozzo Spadaro.</b>	36° 41.1' N 15° 07.9' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	270 82	24	White tower, building; 118.	Visible 170°-095°. Aeromarine light. <b>AIS</b> (MMSI No 992471061). Reserve light range 18M.
10228 <i>E 1884</i>	Capo Passero.	36° 41.2' N 15° 09.1' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	128 39	11	White tower, castle; 62.	Visible 151°-063°.
10230 <i>E 1880</i>	<i>ACQUA AZZURA, LIGHTSHIP.</i>	36° 42.9' N 15° 09.2' E	<b>F.R.</b>				F.W. on bow and stern. Vessel 50 meters in length. Private. Private light.
10232 <i>E 1879</i>	Marzamemi, mole, head.	36° 44.0' N 15° 07.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	34 10	3	Pedestal, red lantern; 20.	2 F.R.W. (vert.) are shown from N. breakwater. Safety distance 30m. Private light.
10236 <i>E 1878</i>	-N. breakwater, head.	36° 43.9' N 15° 07.3' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	4	Pedestal, green lantern; 16.	Safety distance 25m. Private light.
10238 <i>E 1877.8</i>	Ognina.	36° 58.8' N 15° 15.8' E	<b>Iso.W.</b> period 2s	16 5	2	White post.	Private light.
10240 <i>E 1876</i>	<b>Capo Murro di Porco.</b>	37° 00.2' N 15° 20.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	112 34	17	White tower; 66.	Visible 160°-090°. <b>AIS</b> (MMSI No 992471060). Reserve light range 10M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
10241 <i>E 1877</i>	-Plemmirio, N.	37° 00.5' N 15° 20.2' E	<b>Fl.Y.</b> period 4s fl. 1s, ec. 3s	16 5	3	SPECIAL Y, beacon, "X" topmark.	Private light.
10242 <i>E 1877.5</i>	--S.	37° 00.1' N 15° 19.8' E	<b>Fl.Y.</b> period 4s fl. 1s, ec. 3s	16 5	3	SPECIAL Y, beacon, "X" topmark.	Private light.
SIRACUSA:							
10244 <i>E 1867</i>	-Punta Castelluccio, entrance, S. side.	37° 02.6' N 15° 18.2' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	69 21	9	Red tower, building; 26.	
10248 <i>E 1866</i>	-Castello Maniace, entrance, N. side.	37° 03.2' N 15° 17.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	90 27	9	Green tower, building; 23.	Visible 188°-330°.
10250 <i>E 1865.5</i>	-Isola dei Cani.	37° 03.6' N 15° 18.1' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	ISOLATED DANGER BRB, post, topmark.	Private light.
10252 <i>E 1868</i>	-Caderini, W. shore of Porto Grande, entrance Range, front.	37° 02.9' N 15° 16.4' E	<b>Iso.R.</b> period 2s	39 12	17	Red and white checkered tower; 26.	Visible 224°-274°. Reserve light range 12M.
10256 <i>E 1868.1</i>	--Carroziere, rear, about 969 meters 267°12' from front.	37° 02.8' N 15° 15.7' E	<b>Oc.W.</b> period 5s lt. 4s, ec. 1s	82 25	17	Red and white checkered tower; 49.	Visible 261°-272°. Reserve light range 10M.
10260 <i>E 1870</i>	-La Darsena, S. entrance, E. side.	37° 03.8' N 15° 17.4' E	<b>F.G.</b>	18 5	3	Black post, white bands; 10.	F.R. marks W. side of entrance. Private light.
10268 <i>E 1864</i>	-Porto Marmorea, N. breakwater, head.	37° 04.1' N 15° 17.6' E	<b>2 F.G.</b> (vert.)	33 10 26 8	3	Green post, hut; 16.	Safety distance 15m. 2 meters apart. Private light.
10272 <i>E 1865</i>	--S. breakwater, head.	37° 04.1' N 15° 17.6' E	<b>2 F.R.</b> (vert.)	33 10 26 8	3	Red post, hut; 16.	2 meters apart. Private light.
10276 <i>E 1862</i>	Baia dis Panagia, pier, head.	37° 07.1' N 15° 16.2' E	<b>2 F.G.R.</b> (vert.)		5	White post, black bands.	Private light.
10280 <i>E 1862.4</i>	-Pier, head.	37° 06.6' N 15° 15.7' E	<b>F.G.</b>		2	White post, black bands; 16.	Private light.
10282 <i>E 1861.8</i>	-Dockyard pier, head.	37° 06.9' N 15° 15.1' E	<b>Q.R.</b>	23 7	4	Post.	Private light.
10284 <i>E 1862.5</i>	-A1 Range, front.	37° 06.6' N 15° 15.3' E	<b>Q.G.</b>	42 13	4	Green post.	Visible 211°-244°. Private light.
10288 <i>E 1862.51</i>	--Rear, 229° 340 meters from front.	37° 06.5' N 15° 15.1' E	<b>Oc.G.</b> period 3s lt. 2s, ec. 1s	65 20	4	Green post.	Visible 196°-239°. Private light.
10292 <i>E 1862.59</i>	-A2 Range, front.	37° 06.4' N 15° 15.6' E	<b>Q.R.</b>	43 13	4	Red post.	Visible 214°-247°. Private light.
10296 <i>E 1862.6</i>	--Common rear, 340 meters 229° from A2 front, 380 meters 245° from A3 front.	37° 06.3' N 15° 15.5' E	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	65 20	4	Red post.	Visible 219°-251°30'. Private light.
10300 <i>E 1862.61</i>	-A3 Range, front.	37° 06.4' N 15° 15.7' E	<b>Q.W.</b>	42 13	5	White post.	Visible 218°-251°. Private light.
10304 <i>E 1862.8</i>	--Beacon.	37° 06.8' N 15° 15.5' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	10 3	4	Yellow beacon.	Private light.
10304.5 <i>E 1862.9</i>	-Terminal.	37° 06.6' N 15° 15.5' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	20 6	3	SPECIAL Y, articulated beacon, "X" topmark.	Marks pipeline terminal. Private light.

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<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
10305 <i>E 1861.5</i>	-Seawater intake.	37° 08.4' N 15° 13.4' E	<b>2 F.R.</b> (vert.)	26 8	4	Red post; 16.	2 meters apart. Private light.
10306 <i>E 1861</i>	-Pontile Gulf, head.	37° 08.7' N 15° 14.3' E	<b>2 F.G.</b> (vert.)	56 17	3	Green post, castle; 56.	1 meter apart. Private light.
10308 <i>E 1860</i>	Pensola Magnisi, on point, N. side.	37° 09.5' N 15° 14.1' E	<b>Fl.(4)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	11	Black truncated conical tower, white bands, black base; 20.	Visible 090°-320°.
10316 <i>E 1859</i>	Seno del Priolo, oil pier, head.	37° 09.9' N 15° 12.6' E	<b>Iso.R.</b> period 2s	33 10	3	Post; 20.	Private light.
AUGUSTA:							
10320 <i>E 1847</i>	-Diga Settentrionale, off head.	37° 11.9' N 15° 13.9' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	8	STARBOARD (A) G, beacon, topmark; 39.	<b>Radar reflector.</b>
	-RACON		<b>G(- - •)</b>		10		(3 & 10cm).
10324 <i>E 1848</i>	-Diga Centrale, off N. head.	37° 11.7' N 15° 13.9' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	46 14	8	PORT (A) R, beacon, topmark; 46.	2 F.R. mark floodlit chimney 3.1 miles WNW. <b>Radar reflector.</b>
10328 <i>E 1846</i>	-Punta Gennalena, entrance Range, front.	37° 12.0' N 15° 11.0' E	<b>Iso.W.</b> period 4s	54 16	12	White tower, black bands, white building; 30.	Visible 247°-299°. F.R. marks chimney 1.2 miles NW.
10332 <i>E 1846.1</i>	-- <b>Dromo Giggia</b> , rear, 3 km. 273°51' from front.	37° 12.1' N 15° 09.2' E	<b>Oc.W.</b> period 5s lt. 3s, ec. 2s	259 79	17	White tower, black bands, white building; 30.	Visible 245°-301°. Reserve light range 13M.
10336 <i>E 1849</i>	-Porticciolo di Terre Vecchie, breakwater, head.	37° 13.0' N 15° 13.4' E	<b>F.R.</b>	26 8	3	Red post; 20.	
10337 <i>E 1849.4</i>	-Augusta.	37° 13.2' N 15° 12.7' E	<b>Q.(9)W.</b> period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	<b>Radar reflector.</b>
10338 <i>E 1849.6</i>	--Darsena Servizi, W. mole, head.	37° 13.5' N 15° 13.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6	4	Green post; 16.	Fl.R. 5s 4M marks E. mole. Private light.
10340 <i>E 1850</i>	-Cala dei Molo, entrance, S. side.	37° 13.9' N 15° 12.9' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green post, hut; 20.	A F.R. light is located at Porto di Augusta on the Cathedral Belfry.
10352 <i>E 1852</i>	-Pontile Shell, head.	37° 14.3' N 15° 12.9' E	<b>2 F.G.</b> (vert.)	21 6	3	Post; 16.	1 meter apart. Private light.
10354 <i>E 1852.5</i>	-Commercial Pier, head.	37° 14.1' N 15° 11.9' E	<b>F.G.</b>	20 6	4	Green post; 16.	Private light.
10355 <i>E 1852.6</i>	-Pontile Ro-Ro, head.	37° 14.1' N 15° 11.7' E	<b>3 F.R.G.R.</b> (vert.)	26 8	4	Red structure, green bands; 20.	Private light.
10364 <i>E 1854</i>	-Pontile Esso No 1, 150 meters from head.	37° 12.7' N 15° 11.6' E	<b>2 F.R.G.</b> (vert.)	29 9	3	Gray post.	2 meters apart. Private light.
10368 <i>E 1855</i>	--No 2.	37° 12.5' N 15° 11.6' E	<b>3 F.R.R.G.</b> (vert.)	26 8	3	Yellow post; 79.	2 meters apart. Private light.
10372 <i>E 1855.2</i>	--Water hydrant.	37° 12.6' N 15° 11.1' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s		3	SPECIAL Y, structure, "X" topmark.	Private light.
10376 <i>E 1856</i>	-Cement pier, head.	37° 11.7' N 15° 11.6' E	<b>2 F.G.</b> (vert.)	40 12	3	Green post; 36.	1 meter apart. Private light.
10378 <i>E 1856.5</i>	-Pier, head.	37° 11.5' N 15° 11.4' E	<b>F.R.</b>	23 7	3	Yellow post.	Private light.

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<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
10380 <i>E 1857</i>	-Pontile Marina Militare, head.	37° 11.5' N 15° 11.9' E	<b>FL.Y.</b> period 4s fl. 1s, ec. 3s		5	Yellow post; 13.	
10384 <i>E 1857.4</i>	-Supertanker Pier, head.	37° 11.3' N 15° 12.4' E	<b>3 F.G.</b> (vert.)	60 <b>18</b>	3	Green post.	1 and 2 meters apart. Private light.
10386 <i>E 1858</i>	-Liquids Pier, head.	37° 10.9' N 15° 12.4' E	<b>3 F.G.R.G.</b> (vert.)	56 <b>17</b>	3	Post; 46.	1 and 2 meters apart. Private light.
10387 <i>E 1858.1</i>	-Center, head.	37° 10.7' N 15° 12.2' E	<b>F.R.</b>		3	Gray post.	Private light.
10388 <i>E 1858.2</i>	-Solids Pier, head.	37° 10.5' N 15° 12.5' E	<b>3 F.R.G.R.</b> (vert.)	59 <b>18</b>	3	Post; 46.	2 and 1 meters apart. Private light.
10389 <i>E 1858.3</i>	-Jetty.	37° 10.4' N 15° 12.4' E	<b>F.R.</b>		3	Gray post.	Private light.
10390 <i>E 1858.4</i>	-South Passage, E. side.	37° 10.6' N 15° 13.0' E	<b>FI.G.</b> period 3s fl. 0.5s, ec. 2.5s	30 <b>9</b>	5	Green beacon, triangular daymark point up; 33.	Safety distance 50. Private light.
10391 <i>E 1858.6</i>	--W. side.	37° 10.5' N 15° 12.8' E	<b>FI.R.</b> period 3s fl. 0.5s, ec. 2.5s	30 <b>9</b>	5	Red beacon, square daymark; 33.	Safety distance 30m. Private light.
10392 <i>E 1838</i>	<b>Capo Santa Croce.</b>	37° 14.6' N 15° 15.4' E	<b>L.FI.(2)W.</b> period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	128 <b>39</b>	16	White cylindrical tower; 89.	Visible 146°-021°. <b>AIS</b> (MMSI No 992471059). Reserve light range 10M.
10396 <i>E 1836</i>	Brucoli, entrance, E. side.	37° 17.0' N 15° 11.2' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	43 <b>13</b>	11	White tower, red band, building; 16.	Obscured by Capo Campolato when bearing greater than 230°.
CATANIA:							
10400 <i>E 1828</i>	<b>-Sciara Biscari.</b>	37° 29.3' N 15° 05.1' E	<b>FI.W.</b> period 5s fl. 0.4s, ec. 4.6s	102 <b>31</b>	22	White cylindrical tower; 92.	<b>AIS</b> (MMSI No 992471058). Reserve light range 18M.
10420 <i>E 1830</i>	-Molo di Levante, head.	37° 29.0' N 15° 06.0' E	<b>L.FI.G.</b> period 5s fl. 2s, ec. 3s	39 <b>12</b>	8	Green post; 20.	
10422 <i>E 1832.5</i>	-Breakwater, head.	37° 29.3' N 15° 05.7' E	<b>L.FI.R.</b> period 5s fl. 2s, ec. 3s	20 <b>6</b>	5	Red post on platform; 16.	
10424 <i>E 1831</i>	-Molo di Levante, knuckle.	37° 29.5' N 15° 05.9' E	<b>FI.G.</b> period 2s fl. 0.5s, ec. 1.5s	37 <b>11</b>	5	Pedestal, green lantern; 16.	Visible 355°-175°.
10428 <i>E 1827</i>	Acicastello, Molo Porticciolo, N. corner.	37° 33.3' N 15° 08.9' E	<b>FI.R.</b> period 4s fl. 1s, ec. 3s	19 <b>6</b>	3	Red post; 10.	Private light.
10432 <i>E 1826</i>	<b>Capo Molini.</b>	37° 34.6' N 15° 10.6' E	<b>FI.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	138 <b>42</b>	22	White hut, building; 66.	<b>AIS</b> (MMSI No 992471057). Reserve light range 18M.
10434 <i>E 1821</i>	Giardini Naxos, mole, head.	37° 49.6' N 15° 16.6' E	<b>FI.R.</b> period 4s fl. 1s, ec. 3s	16 <b>5</b>	8	Red lantern.	Private light.
RIPOSTO:							
10436 <i>E 1822</i>	-Punta Chiancona.	37° 43.7' N 15° 12.7' E	<b>L.FI.W.</b> period 5s fl. 2s, ec. 3s	49 <b>15</b>	11	White round tower; 20.	
10440 <i>E 1823</i>	-E. mole, head.	37° 44.1' N 15° 12.6' E	<b>FI.R.</b> period 3s fl. 0.5s, ec. 2.5s	36 <b>11</b>	5	Red lantern.	

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<b>SICILIA (SICILY) AND ADJACENT ISLANDS (I.)</b>							
10442 <i>E 1824</i>	-W. mole, head.	37° 44.0' N 15° 12.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green post; 16.	
ISOLE PELAGIE:							
-Isola di Lampedusa:							
10444 <i>E 2088</i>	-- <b>Capo Grecale.</b>	35° 31.0' N 12° 38.0' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	269 82	22	Multi-sided tower, building; 62.	Visible 112°-075°. Reserve light range 18M. <b>AIS</b> (MMSI No 992471069).
10448 <i>E 2089</i>	--Lampedusa, on Punta Maccafferri, entrance, E. side.	35° 29.6' N 12° 36.3' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	57 17	8	Pedestal, green lantern; 16.	
10452 <i>E 2092</i>	---Health office, mole, head.	35° 29.8' N 12° 36.3' E	<b>F.R.</b>	23 7	3	Red post; 13.	
10456 <i>E 2091</i>	--Punta Favalaro, breakwater, head.	35° 29.8' N 12° 36.2' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	7	Pedestal, red lantern; 16.	Safety distance 15m.
10460 <i>E 2090</i>	--Punta Guitgia, entrance, W. side.	35° 29.8' N 12° 35.9' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	47 14	8	Pedestal, red lantern; 16.	
10464 <i>E 2086</i>	--Capo Ponente, island, W. head.	35° 31.2' N 12° 31.3' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	360 110	8	Pedestal, white lantern; 20.	Visible 290°-222°.
-Isola di Linosa:							
10468 <i>E 2082</i>	-- <b>Punta Beppe Tuccio.</b>	35° 52.4' N 12° 52.6' E	<b>Fl.(4)W.</b> period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	105 32	16	White cylindrical tower, building; 56.	Visible 107°-345°, at distance less than 6 miles 103°- 346°. <b>AIS</b> (MMSI No 992471070). Reserve light range 12M. Reserve light range 12M.
10472 <i>E 2080</i>	--Punta Arena Bianca, island, SW. side.	35° 51.6' N 12° 51.4' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	31 9	9	Pylon, white hut; 20.	Visible 276°30'-150°.
10476 <i>E 2084</i>	-Isolotto Lampione.	35° 33.0' N 12° 19.2' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	131 40	7	Square hut; 20.	
ISOLA DI PANTELLARIA:							
10480 <i>E 2094</i>	- <b>Punta Spadillo.</b>	36° 49.4' N 12° 00.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	164 50	24	White round tower, building; 69.	Reserve light range 18M. <b>AIS</b> (MMSI No 992471067).
10484 <i>E 2107</i>	-Punta Tracino.	36° 47.9' N 12° 03.0' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	161 49	10	White round tower; 10.	
10492 <i>E 2106</i>	-Punta Limarsi.	36° 44.3' N 12° 02.0' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	7	Pedestal, white lantern; 16.	
10496 <i>E 2096</i>	-Scauri.	36° 46.1' N 11° 57.7' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	60 18	10	Pedestal, white lantern; 16.	Fl.R. 3s shown from head of W. mole, Fl.G. 3s shown from head of E. mole.
10500 <i>E 2098</i>	- <b>Punta San Leonardo.</b>	36° 50.1' N 11° 56.7' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	69 21	15	Red building, white lantern; 10.	Reserve light range 8M. <b>AIS</b> (MMSI No 992471068).



# Section 8

## Malta, South and East Coasts of Italy, and Slovenia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MALTA AND GHAWDEX (GOZO)</b>							
GHAWDEX (GOZO):							
10504 E 2050	<b>-Gurden (Gordan).</b>	36° 04.3' N 14° 13.1' E	<b>Fl.W.</b> period 7.5s fl. 0.3s, ec. 7.2s	592 180	20	White tower, building; 72.	
10508 E 2051	-Ramla Tal-Mgarr Harbor, main breakwater.	36° 01.5' N 14° 18.1' E	<b>Fl.R.</b> period 4s				
10512 E 2051.2	--N. breakwater, head.	36° 01.6' N 14° 18.1' E	<b>Fl.G.</b> period 5s				
KEMMUNA RAS L-LRQIEQA:							
10516 E 2054	-Irkieka ta Kemmuna.	36° 00.2' N 14° 19.5' E	<b>Fl.R.</b> period 2s	23 7	2	White column.	
MALTA:							
10524 E 2055.5	-Cirkewwa, ro-ro terminal, head.	35° 59.4' N 14° 19.8' E	<b>Fl.G.</b> period 2s	33 10	2	Column.	
10524.1 E 2056	--SE. pier, head.	35° 59.4' N 14° 19.8' E	<b>Fl.R.G.</b> period 5s	20 6	2		R. 042°-222°, G.-042°.
10526 E 2057	-Mellieha rock.	35° 58.3' N 14° 21.5' E	<b>Fl.(2)W.</b> period 5s	10 3	2		
10528 E 2058	-St. Paul's Bay, jetty, root.	35° 56.8' N 14° 23.4' E	<b>Fl.R.</b> period 2s	26 8	2	White column, base; 20.	
10532	--Fairway Buoy.	35° 54.8' N 14° 32.5' E	<b>L.Fl.W.</b> period 10s			SAFE WATER RW, pillar, topmark.	
10544 E 2061.5	<b>-Valleta.</b>	35° 54.2' N 14° 31.1' E	<b>Fl.(3)W.</b> period 15s	161 49	19	Pylon.	
10548 E 2062	--St. Elmo, W. side of entrance to Grand Harbor, breakwater, head.	35° 54.2' N 14° 31.5' E	<b>Q.G.</b>	52 16	7	White round tower, red band.	
10552 E 2064	--Ricasoli Breakwater, Grand Harbor, E. side of entrance, head.	35° 54.0' N 14° 31.4' E	<b>Q.R.</b>	36 11	6	White framework tower, red band; 30.	Obscured 120°-157° during firing or searchlight exercises.
10560 E 2068	<b>-Luca AVIATION LIGHT.</b>	35° 51.3' N 14° 28.1' E	<b>Mo.(LU)G.</b> period 9s	340 104	25	Structure; 10.	Visible 170°-345°.
10564 E 2070	<b>-Delimara Point.</b>	35° 49.3' N 14° 33.5' E	<b>Fl.(2)W.</b> period 12s	115 35	15	Black tower, white band, building.	Visible 272°-090°.
10565 E 2070.6	--Breakwater, head.	35° 49.1' N 14° 33.0' E	<b>Fl.R.</b> period 3s fl. 0.7s, ec. 2.3s	59 18	6		Visible 260°-042°.
10572 E 2076	--Fueling dolphin.	35° 49.7' N 14° 33.0' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s			Dolphin.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-SOUTHEAST COAST</b>							
10580 <i>E 1782</i>	<b>Capo Spartivento.</b>	37° 55.6' N 16° 03.6' E	<b>Fl.W.</b> period 8s fl. 0.3s, ec. 7.7s	208 63	24	White tower, building; 49.	Visible 222°-082°. <b>AIS</b> (MMSI No 992471087). Reserve light range 18M.
10584 <i>E 2108</i>	<b>Punta Stilo.</b>	38° 27.0' N 16° 34.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	177 54	22	White octagonal tower, black bands; 49.	Reserve light range 11M. <b>AIS</b> (MMSI No 992471088).
10588 <i>E 2109</i>	Siderno Marina.	38° 27.0' N 16° 35.0' E	<b>2 F.R.G.</b> (vert.)	43 13	3	Black post, red bands.	1 meter apart. Private light.
10596 <i>E 2112</i>	<b>Capo Rizzuto.</b>	38° 53.8' N 17° 05.5' E	<b>L.Fl.(2)W.R.</b> period 10s fl. 2s, ec. 1s fl. 2s, ec. 5s	121 37	W. 17 R. 13	White tower, building; 56.	R. 227°-270°, W.-084°, R.- 133°. Reserve light range 11/8M. <b>AIS</b> (MMSI No 992471089).
10600 <i>E 2118</i>	<b>Capo Colonne.</b>	39° 01.6' N 17° 12.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	131 40	24	White tower, two-story building; 72.	Visible 127°-020°. Reserve light range 18M. <b>AIS</b> (MMSI No 992471090).
CROTONE:							
10604 <i>E 2122</i>	-Porto Vecchio, 38 meters from breakwater, head.	39° 04.7' N 17° 08.2' E	<b>Fl.(2)G.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36 11	8	Green hut, lantern; 30.	Safety distance 60m.
10608 <i>E 2123</i>	-Molo Sanita, head.	39° 04.7' N 17° 08.2' E	<b>Fl.(2)R.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	30 9	8	Red hut, lantern; 26.	
10612 <i>E 2121.5</i>	-Porto Nuovo, head of Molo Giunti.	39° 05.2' N 17° 07.9' E	<b>F.G.</b>	30 9	4	Green post; 23.	
10616 <i>E 2121</i>	-Molo Sottoflutto, head.	39° 05.5' N 17° 07.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	43 13	8	Green framework tower; 23.	Safety distance 50m.
10620 <i>E 2120</i>	-Foraneo, mole, head.	39° 05.8' N 17° 07.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	36 11	8	Red framework tower; 30.	Safety distance 100m.
10624 <i>E 2128</i>	<b>Punta Alice.</b>	39° 23.9' N 17° 09.1' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	102 31	16	White tower, building; 89.	Reserve light range 12M. <b>AIS</b> (MMSI No 992471091).
10630 <i>E 2130.5</i>	Punta Coscio.	39° 43.9' N 16° 30.0' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	75 23	12	Tower, three-story building; 66.	Private light.
10631 <i>E 2130.6</i>	Laghi di Sibari Range, front.	39° 44.0' N 16° 30.6' E	<b>Iso.W.</b> period 2s		4	White tower, black bands; 13.	Visible 124°-154°. Private light.
10631.1 <i>E 2130.61</i>	-Rear, 60 meters 139° from front.	39° 44.1' N 16° 30.6' E	<b>Iso.W.</b> period 2s	23 7	4	Red framework tower, white bands; 20.	Visible 136°-246°. Synchronized with front. Private light.
10632 <i>E 2131</i>	Laghi di Sibari, marina, head of S. mole.	39° 44.0' N 16° 31.0' E	<b>F.R.</b>	20 6	6	Red post; 20.	Private light.
10636 <i>E 2131.2</i>	-N. mole, head.	39° 44.0' N 16° 31.0' E	<b>F.G.</b>	20 6	6	Green post; 20.	Private light.
TARANTO:							
10640 <i>E 2132</i>	<b>-Capo San Vito.</b>	40° 24.7' N 17° 12.2' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	151 46	22	White tower, two-story building; 141.	<b>AIS</b> (MMSI No 992471092). Reserve light range 18M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-SOUTHEAST COAST</b>							
10642 E 2133	-Mar Grande.	40° 25.3' N 17° 10.4' E	<b>Q.(9)W.</b> period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	<b>Radar reflector.</b>
10644 E 2134	-Diga di San Vito, W. head.	40° 25.8' N 17° 11.7' E	<b>Fl.(2)G.</b> period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	72 22	9	Green framework tower; 62.	When near Capo San Vito, partially obscured by the lights of Taranto.
10646 E 2137	-Isola San Pietro, jetty, head.	40° 27.3' N 17° 09.7' E	<b>Fl.Y.</b> period 4s fl. 1s, ec. 3s	26 8	4	Yellow post; 23.	
10648 E 2138	-Isolotto San Paolo, breakwater, head.	40° 26.2' N 17° 10.8' E	<b>Fl.(2)R.</b> period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	38 12	7	Red round tower; 33.	Safety distance 50 meters.
10650 E 2142.3	-Secca della Sirena, S.	40° 27.6' N 17° 12.4' E	<b>Q.(6)+L.Fl.W.</b> period 15s	16 5	5	S. CARDINAL YB, articulated beacon, topmark.	Q.R. and Q.G. articulated lights mark channel to E. <b>Radar reflector.</b>
10656 E 2142.4	-Secca della Sirena, W.	40° 27.7' N 17° 12.7' E	<b>Q.R.</b>	19 6	6	Red buoyant beacon, square daymark.	Private light. <b>Radar reflector.</b>
10660 E 2142.5	-Mar Grande, close SW. Secca della Sirena.	40° 27.6' N 17° 13.0' E	<b>Q.G.</b>	20 6	7	Green buoyant beacon, triangular daymark point up.	Private light. <b>Radar reflector.</b>
10664 E 2142.6	-Detached breakwater, SE. head.	40° 27.9' N 17° 12.5' E	<b>Q.R.</b>	33 10	4	Red post; 26.	Private light.
10672 E 2143	-Pontile Chiapparo, W. extremity.	40° 26.3' N 17° 14.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	3	Green post; 19.	
10676 E 2143.2	--N. extremity.	40° 26.4' N 17° 14.7' E	<b>Fl.Y.</b> period 2s fl. 0.5s, ec. 1.5s	26 8	3	Yellow post; 19.	
10677 E 2144	--Jetty, head.	40° 26.8' N 17° 14.8' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	3	Pedestal, red lantern.	
-Passagio Piccolo:							
10680 E 2150	--Mar Grande Range, Secca della Tarantola, front.	40° 26.9' N 17° 13.7' E	<b>Fl.W.G.</b> period 3s fl. 1s, ec. 2s	39 12	W. G. 9 7	Green cylindrical tower; 36.	G. 057°-187°30', W.(over range line)-198°30', G.- 025°. Safety distance 150m.
10684 E 2150.1	--Rear, near Casa Gigante, about 3 km. 193° from front.	40° 25.4' N 17° 13.2' E	<b>Iso.W.</b> period 3s	69 21	14	White tower, black stripes; 66.	Visible 189°45'-196°25'. F.R. on masthead. Reserve light range 10M.
10688 E 2152	--Mar Piccolo, N. Range, front.	40° 29.3' N 17° 14.4' E	<b>Q.R.</b>	39 12	6	Black pyramidal structure, white stripes; 33.	
10689 E 2152.1	---Rear, 013° from front, near Casa Trollo.	40° 30.0' N 17° 15.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	66 20	8	White tower, black stripes; 33.	
10690 E 2158.6	--Fanale.	40° 29.7' N 17° 15.9' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	43 13	3	Platform; 43.	Private light.
10694 E 2158.4	--Water intake.	40° 29.5' N 17° 14.2' E	<b>F.Y.</b>	33 10	3	Yellow post.	A F.Y. light is shown at head of three structures. Private light.
10695 E 2156	--Molo Sauro.	40° 28.6' N 17° 14.9' E	<b>Fl.Y.</b> period 4s fl. 0.5s, ec. 3.5s	20 6	2	Yellow post; 16.	A Fl.Y. light is shown at head of three piers.
10695.5 E 2156.6	--Molo Lavori, jetty, head.	40° 28.6' N 17° 15.1' E	<b>Fl.Y.</b> period 4s fl. 0.5s, ec. 3.5s	20 6	2	Yellow post; 16.	
10696 E 2153	--Canale Navigabile.	40° 28.3' N 17° 14.1' E	<b>F.R.</b>	26 8	4	Wall, lantern.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-SOUTHEAST COAST</b>							
10700 E 2145	--Commercial port, W. mole, head.	40° 28.6' N 17° 13.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	4	Red post; 26.	Private light.
10702 E 2145.2	---W. side.	40° 28.6' N 17° 13.2' E	<b>F.G.</b>	33 10	4	Green post; 23.	Private light.
10704 E 2146	---E. mole, head.	40° 28.5' N 17° 13.4' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	39 12	8	Green column, hut, pedestal; 33.	Private light.
-Porto Industriale:							
10708 E 2144.4	--Italsider, pier 2, SE. corner, head.	40° 28.4' N 17° 13.0' E	<b>F.R.</b>	33 10	5	Red post; 20.	Private light.
10710 E 2144.42	--SW corner.	40° 28.5' N 17° 12.9' E	<b>F.G.</b>	33 10	5	Green post; 20.	Private light.
10712 E 2144.43	---Pier 3, SE. corner, head.	40° 28.4' N 17° 12.7' E	<b>F.R.</b>	33 10	3	Red post; 20.	Private light.
10716 E 2144.44	---SW. corner, head.	40° 28.4' N 17° 12.6' E	<b>F.G.</b>	33 10	3	Green post; 20.	Private light.
10718 E 2144.47	---Pier 4 Range, front.	40° 28.7' N 17° 12.3' E	<b>Q.R.</b>	66 20	6	Post, white square daymark, black stripe; 59.	Occasional. Private light.
10719 E 2144.48	----Rear, 690 meters 341° from front.	40° 28.7' N 17° 12.1' E	<b>Oc.W.</b> period 3s fl. 1s, ec. 2s	137 42	20	Post, white square daymark, black stripe; 69.	Occasional. Private light.
10720 E 2144.45	--Pier 4, SE. corner, head.	40° 28.4' N 17° 12.4' E	<b>F.R.</b>	33 10	3	Red post; 20.	Private light.
10722 E 2142.8	--Pontile AGIP, 150 meters SSE from breakwater, head.	40° 28.2' N 17° 11.7' E	<b>Fl.Y.</b> period 2s fl. 0.5s, ec. 1.5s	33 10	3	Yellow post; 20.	Marks fixed mooring caisson. Private light.
10724 E 2144.5	--E. breakwater, E. head.	40° 28.2' N 17° 13.2' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	39 12	6	Red column, hut, pedestal; 30.	Private light.
-Punta Rondinella:							
10728 E 2162	--Detached breakwater, N. head.	40° 29.5' N 17° 08.3' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	46 14	8	Green post; 20.	Private light. Punta Rondinella Passage marked by Fl.R. 3s, Fl.G. 3s 1.35 miles ESE.
10732 E 2162.2	---S. head.	40° 28.9' N 17° 08.7' E	<b>Q.R.</b>	47 14	4	Red post; 20.	Harbor approach marked by articulated beacons Q.(6)+L.Fl.W. 15s 2.8 miles SSW., Q.(9)W. 15s 2.4 miles SW., 2.5 miles WSW., 1.5 miles W. Private light.
10736 E 2162.4	--Lee mole, head.	40° 29.7' N 17° 08.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	47 14	8	Red post; 20.	Articulated beacons Q.Y. 5M 650 meters 315°, Q.Y. 6M 840 meters 167°, Q.G. 3M 620 meters 114° from light. Private light.
10740 E 2162.6	--Passaggi scogliera Punta Rondinella, N. side.	40° 29.8' N 17° 09.3' E	<b>F.G.</b>	33 10	3	Green post; 20.	Private light.
10744 E 2142.92	--W. side.	40° 28.6' N 17° 10.4' E	<b>Q.G.</b>	33 10	3	Green post; 26.	Private light.
10748 E 2142.9	---breakwater, E. side.	40° 28.6' N 17° 10.4' E	<b>Q.R.</b>	33 10	3	Red post; 26.	Private light.
10752 E 2164	Porto Cesareo, entrance Range, front.	40° 15.5' N 17° 54.0' E	<b>Iso.W.</b> period 2s	42 13	7	Framework tower, black and white checkered hut; 39.	Visible 350°-068°. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-SOUTHEAST COAST</b>							
10756 E 2164.1	-Rear, 765 meters 034° from front.	40° 15.8' N 17° 54.3' E	<b>Oc.W.</b> period 3s fl. 2s, ec. 1s	87 27	10	Black and white checkered tower; 49.	Private light.
GALLIPOLI:							
10760 E 2168	<b>-Isola Sant' Andrea.</b>	40° 02.8' N 17° 56.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	148 45	19	White tower, two-story building; 141.	Reserve light range 15M.
10764 E 2172	-Molo di Tramontana.	40° 03.7' N 17° 59.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	36 11	9	Green round tower; 29.	Safety distance 70m. F.R. 51m on antenna 880 meters ESE.
10765 E 2172.2	--Molo di Sottoflutto.	40° 03.5' N 17° 59.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	36 11	9	Red round tower; 29.	Safety distance 50m.
10768 E 2170	-Secca del Rafo.	40° 03.8' N 17° 58.7' E	<b>Q.W.</b>	16 5	5	N. CARDINAL BY, articulated beacon, topmark.	<b>Radar reflector.</b>
10772 E 2173	-Seno del Canneto, breakwater, head.	40° 03.2' N 17° 58.8' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	20 6	3	Red post; 13.	Fl.G. shown on mole.
10776 E 2174	<b>Torre San Giovanni.</b>	39° 53.1' N 18° 06.8' E	<b>Iso.W.R.</b> period 4s	79 24	W. 15 R. 11	Black and white checkered tower; 72.	R. 311°-013°, W.-133°. <b>AIS</b> (MMSI No 992471093). Reserve light range W. 11M, R. 9M.
10778 E 2174.4	-Secche di Ugento.	39° 49.8' N 18° 08.3' E	<b>Q.(9)W.</b> period 15s	19 6	5	W. CARDINAL YBY, beacon, topmark.	<b>Radar reflector.</b>
10780 E 2176	<b>Capo Santa Maria di Leuca.</b>	39° 47.7' N 18° 22.1' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s  <b>Oc.R.</b> period 4s fl. 3s, ec. 1s	334 102  328 100	24  11	White tower, two-story building; 157.	Visible 220°-068°. Aeromarine light. <b>AIS</b> (MMSI No 992471094). Reserve light range 10M.  Visible 094°-106°. Reserve light range 9M.
10784 E 2177	Tricase, outer mole, head.	39° 55.9' N 18° 23.7' E	<b>Iso.G.</b> period 2s	33 10	4	Green post; 20.	
10786 E 2177.5	Castro, outer mole, head.	40° 00.0' N 18° 25.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	20 6	7	Red post; 16.	Private light.
<b>ITALY-EAST COAST</b>							
10788 E 2178	<b>Capo d'Otranto.</b>	40° 06.3' N 18° 31.2' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	197 60	18	White four-sided tower, building; 105.	<b>AIS</b> (MMSI No 992471095). Reserve light range 12M.
10792 E 2182	Otranto, Punta Craul, N. of port.	40° 09.2' N 18° 29.5' E	<b>Fl.(3)W.R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	39 12	W. 13 R. 8	Round tower, white lantern; 30.	R. 165°-183°, W.-165°. Reserve light range 11/7M.
10796 E 2186	-Punta San Nicola, mole, head.	40° 09.0' N 18° 29.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	36 11	8	Pedestal, red lantern; 20.	Safety distance 60m.
10800 E 2188	<b>Torre Sant' Andrea.</b>	40° 15.4' N 18° 26.7' E	<b>Fl.(2)W.R.</b> period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	79 24	W. 15 R. 12	Black and white checkered tower; 52.	R. 300°-343°, W.-300°. <b>AIS</b> (MMSI No 992471096). Reserve light range W. 11M, R. 8M.
10804 E 2190.5	San Foca di Melendugno.	40° 18.3' N 18° 24.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s		5	Green post.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
10808 E 2192	<b>Punta San Cataldo di Lecce.</b>	40° 23.5' N 18° 18.4' E	<b>L.FI.W.</b> period 5s fl. 2s, ec. 3s	82 25	16	White tower, building; 75.	Visible 140°-315°. <b>AIS</b> (MMSI No 992471097). Reserve light range 12M.
BRINDISI:							
10812 E 2194	-Capo di Torre Cavallo.	40° 39.7' N 18° 02.2' E	<b>Q.(3)W.</b>	16 5	5	E. CARDINAL BYB, articulated beacon, topmark.	<b>Radar reflector.</b>
10816 E 2196	-Le Pedagne, on Isolotto Traverso, E. side.	40° 39.5' N 17° 59.4' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	69 21	8	White tower, red lantern, white building.	Visible 349°-252°.
10822 E 2208	<b>-Brindisi-Casale AVIATION LIGHT.</b>	40° 39.5' N 17° 56.5' E	<b>Al.FI.W.G.</b> period 17s W. fl. 1s, ec. 3s G. fl. 1s, ec. 3s W. fl. 1s, ec. 8s	59 18	W. 24 G. 18	Framework tower; 33.	Private light.
10822.5 E 2198	-Main breakwater, head.	40° 39.8' N 17° 59.8' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	40 12	8	Green pole.	Private light.
RACON <b>B(- • • •)</b>							
10823 E 2200	<b>-Isola Sant' Andrea.</b>	40° 39.5' N 17° 58.2' E	<b>Dir.W.R.G.</b>	98 30	20	Post; 82.	F.G. 258°58'-260°16', Al.W.G.-261°10', F.W.- 261°46', Al.W.R.-262°40', F.R.-263°58'.  Private light.
10823.5 E 2202	<b>-Forte a Mare.</b>	40° 39.3' N 17° 58.1' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 12s	92 28	21	Balcony, castle; 82.	<b>AIS</b> (MMSI No 992471098). Reserve light range 18M.
10824 E 2204	--S., N. breakwater, head.	40° 39.2' N 17° 58.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	7	Steel pole; 23.	
10828 E 2203.5	-Diga di Costa Morena, N. breakwater, head.	40° 39.1' N 17° 58.4' E	<b>F.R.</b>	23 7	5	Red post.	Private light.
10830 E 2203	-Molo Montecatini Edison, head.	40° 39.0' N 17° 58.9' E	<b>2 F.R. (vert.)</b>	36 11	5	Red post; 16.	1 meter apart. Private light.
-Canale Pigonati:							
10832 E 2212	--Inner harbor entrance, E. side.	40° 38.7' N 17° 57.2' E	<b>Iso.R.</b> period 2s	30 9	5	Hut, red lantern; 20.	
10836 E 2210	---W. side.	40° 38.7' N 17° 57.1' E	<b>Iso.G.</b> period 2s	30 9	5	Hut, green lantern; 20.	
10840 E 2216	--Inner end of entrance to canal, on E. side.	40° 38.6' N 17° 57.1' E	<b>F.R.</b>	33 10	4	Red post; 26.	Visible 018°-227°.
10844 E 2214	---On W. side.	40° 38.7' N 17° 57.0' E	<b>F.G.</b>	33 10	4	Green post; 26.	Visible 227°-070°.
10848 E 2217	--Galleggianti, E. pier, head.	40° 38.5' N 17° 56.3' E	<b>F.R.</b>	26 8	2	Post; 23.	
10852 E 2217.5	---W. pier, head.	40° 38.5' N 17° 56.2' E	<b>F.R.</b>	26 8	2	Post; 23.	
10856 E 2222	<b>Torre Canne.</b>	40° 50.5' N 17° 28.1' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	115 35	16	White tower, building; 104.	<b>AIS</b> (MMSI No 992471099). Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
10860 <i>E 2223</i>	Savelletri.	40° 52.4' N 17° 24.8' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 <b>8</b>	3	Green post; 13.	Private light.
10864 <i>E 2223.4</i>	-S. mole, head.	40° 52.5' N 17° 24.8' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 <b>8</b>	3	Red post; 16.	Private light.
10868 <i>E 2224</i>	Monopoli, Molo Margherita, head.	40° 57.3' N 17° 18.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	48 <b>15</b>	8	Red tower, white bands; 49.	
10872 <i>E 2226</i>	-N. mole, head.	40° 57.4' N 17° 18.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	43 <b>13</b>	8	Green framework tower; 33.	
10876 <i>E 2228</i>	Mola di Bari, breakwater, head.	41° 03.6' N 17° 06.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	46 <b>14</b>	7	Green framework tower, white hut; 36.	Safety distance 35m.
10880 <i>E 2228.5</i>	-E. mole, head.	41° 03.7' N 17° 06.1' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	46 <b>14</b>	7	Red column, pedestal; 20.	
10884 <i>E 2230</i>	Cala Portecchia, outer mole, head.	41° 03.7' N 17° 06.0' E	<b>Fl.R.</b>	26 <b>8</b>	5	Red post; 20.	Private light.
10886 <i>E 2230.4</i>	-N. mole, head.	41° 03.8' N 17° 05.3' E	<b>Fl.G.</b>	26 <b>8</b>	5	Green post; 20.	Private light.
10888 <i>E 2231</i>	Torra Mare (Torre Pelosa).	41° 05.4' N 16° 59.9' E	<b>Fl.R.</b>	31 <b>9</b>	3	Red post; 26.	F.G. shown from inner breakwater. Private light.
10892 <i>E 2232</i>	<b>Punta San Cataldo.</b>	41° 08.3' N 16° 50.7' E	<b>Fl.(3)W.</b> period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	218 <b>66</b>	<b>24</b>	White tower, two-story building; 203.	Oc.R. shown about 0.7 km. WSW. 2 Fl.R. 2.5s 57m on radio antennas 2.2 miles ESE. Reserve light range 18M.
10896 <i>E 2233</i>	Nuovo Molo Foraneo, 5th arm, head.	41° 08.9' N 16° 50.9' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	39 <b>12</b>	7	Pedestal, red lantern; 20.	
10900 <i>E 2236</i>	Nuovo Molo Foraneo, 3rd arm, head.	41° 08.6' N 16° 51.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	16 <b>5</b>	4	Pedestal, red lantern; 13.	Visible 273°-129°.
10904 <i>E 2241</i>	-Inner spur, head.	41° 08.5' N 16° 52.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 <b>7</b>	3	Red post; 16.	
10908 <i>E 2234</i>	Molo San Cataldo, head.	41° 08.5' N 16° 51.2' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	36 <b>11</b>	7	Green metal framework tower, square base; 26.	
10916 <i>E 2240</i>	Molo di Ridosso, head.	41° 08.4' N 16° 52.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 <b>8</b>	3	Green post; 20.	
10920 <i>E 2238</i>	Vecchio Molo Foraneo, head.	41° 08.2' N 16° 51.7' E	<b>Fl.R.</b>	36 <b>11</b>	4	Red post; 13.	
10924 <i>E 2243</i>	Molo S. Vito, head.	41° 08.0' N 16° 51.9' E	<b>Fl.Y.</b> period 2s fl. 0.5s, ec. 1.5s	26 <b>8</b>	3	Yellow post; 20.	
10928 <i>E 2242</i>	Molo Pizzoli, head.	41° 08.0' N 16° 51.7' E	<b>Fl.G.</b>	36 <b>11</b>	4	Green post; 13.	
10932 <i>E 2244</i>	Molo San Antonio.	41° 07.6' N 16° 52.8' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	56 <b>17</b>	9	White round tower, green bands; 46.	Visible 190°-130°.
10936 <i>E 2246</i>	Santo Spirito, entrance, N. side.	41° 10.0' N 16° 45.0' E	<b>2 Fl.G. (vert.)</b>	33 <b>10</b> 26 <b>8</b>	3	Green post; 26.	2 meters apart. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
10940 <i>E 2246.2</i>	-Entrance, S. side.	41° 09.9' N 16° 45.0' E	<b>2 F.R.</b> (vert.)	33 10 26 8	3	Red post; 26.	2 meters apart. Private light.
10944 <i>E 2247</i>	Giovinazzo, W. breakwater.	41° 11.5' N 16° 40.4' E	<b>F.G.</b>	26 8	4	Green post; 20.	Private light.
10948 <i>E 2247.3</i>	-E. breakwater.	41° 11.4' N 16° 40.4' E	<b>F.R.</b>	26 8	4	Red post; 20.	Private light.
10952 <i>E 2248</i>	<b>Molfetta.</b>	41° 12.5' N 16° 35.7' E	<b>Iso.W.</b> period 6s	72 22	16	White octagonal tower; 59.	Reserve light range 12M.
10956 <i>E 2252</i>	-Molo Foraneo, head.	41° 12.7' N 16° 35.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	7	Red round tower; 33.	Safety distance 30m.
10960 <i>E 2250</i>	-Detached breakwater, head.	41° 12.8' N 16° 35.4' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	43 13	7	Pedestal, green lantern; 20.	Safety distance 30m.
10964 <i>E 2254</i>	-Molo Pennello, head.	41° 12.5' N 16° 35.5' E	<b>F.G.</b>	16 5	4	Green pylon, hut; 10.	
10968 <i>E 2258</i>	Bisceglie, W. mole, head.	41° 14.7' N 16° 30.4' E	<b>F.R.</b>	33 10	1	Red tower; 20.	Visible 280°-230°. Private light.
TRANI:							
10972 <i>E 2261</i>	-Molo San Antonio, 20 meters from head of extension.	41° 16.9' N 16° 25.2' E	<b>L.Fl.R.</b> period 5s fl. 2s, ec. 3s	33 10	8	Tower; 26.	
10976 <i>E 2260</i>	-Molo San Antonio, head.	41° 16.9' N 16° 25.3' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	31 9	14	Round tower; 16.	Reserve light range 11M.
10980 <i>E 2262</i>	-Braccio di San Nicola.	41° 16.9' N 16° 25.2' E	<b>L.Fl.G.</b> period 5s fl. 2s, ec. 3s	33 10	8	Tower; 26.	
BARLETTA:							
10984 <i>E 2264</i>	<b>-Molo di Tramontana.</b>	41° 19.8' N 16° 17.4' E	<b>L.Fl.(2)W.</b> period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	118 36	17	Octagonal tower; 102.	<b>AIS</b> (MMSI No 992471100). Reserve light range 12M.
10988 <i>E 2266</i>	--At head.	41° 19.8' N 16° 17.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	39 12	8	Pedestal, green lantern; 23.	Visible 160°-080°. F.G. marks head of breakwater 280 meters NNW.
10992 <i>E 2263.5</i>	-Church.	41° 19.0' N 16° 16.4' E	<b>F.W.</b>		10	Cupola.	
10996 <i>E 2268</i>	-Diga di Levante, head.	41° 20.0' N 16° 17.7' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	39 12	8	Pedestal, red lantern; 20.	
11000 <i>E 2274.4</i>	Margherita de Savoia, outer mole, head.	41° 23.4' N 16° 08.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	4	Red post; 20.	Private light.
11004 <i>E 2274.6</i>	-Inner mole, head.	41° 23.3' N 16° 07.9' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	4	Green post; 20.	Private light.
11008 <i>E 2275</i>	Foce Aloisa, pier, head.	41° 26.0' N 16° 00.6' E	<b>F.R.</b>	52 16	3	Red post, white hut.	Private light.
11012 <i>E 2276</i>	<b>Manfredonia.</b>	41° 37.7' N 15° 55.4' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	66 20	23	Tower, two-story building; 59.	May be lost in background lights at 11 miles or less. <b>AIS</b> (MMSI No 992471103). Reserve light range 18M.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
11016 <i>E 2277</i>	-Molo di Levante, head.	41° 37.2' N 15° 55.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	46 14	7	White cylindrical tower, green bands, green triangular daymark point up; 39.	
11020 <i>E 2278</i>	-Molo di Mezzogiorno, head.	41° 37.3' N 15° 55.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	7	White cylindrical tower, red bands, red square daymark; 33.	
11024 <i>E 2281</i>	-Industrial Port, outer mole, head.	41° 36.8' N 15° 57.0' E	<b>Oc.G.</b> period 3s lt. 2s, ec. 1s	33 10	7	Pedestal, green lantern; 16.	Private light.
11028 <i>E 2282</i>	--Inner mole, head.	41° 37.0' N 15° 56.9' E	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	33 10	7	Pedestal, red lantern; 16.	Private light.
11032 <i>E 2284</i>	Mattinata, on Punta Agnuli.	41° 42.6' N 16° 04.8' E	<b>F.G.</b>	26 8	3	Green post; 20.	Private light.
11036 <i>E 2286</i>	<b>Torre Preposti.</b>	41° 46.9' N 16° 11.6' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	203 62	15	Red tower, white house; 72.	Visible 186°-020°. <b>AIS</b> (MMSI No 992471102). Reserve light range 12M.
11040 <i>E 2288</i>	<b>Vieste.</b>	41° 53.2' N 16° 11.1' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	131 40	25	Tower, two-story building; 89.	Visible 124°-348°. <b>AIS</b> (MMSI No 992471101). Reserve light range 18M.
11044 <i>E 2288.4</i>	-Cala San Lorenzo, head.	41° 53.2' N 16° 10.7' E	<b>F.R.</b>	23 7	4	Red post; 16.	
11052 <i>E 3586</i>	<b>Otok Palagruza (Cr.).</b>	42° 23.5' N 16° 15.3' E	<b>Fl.W.</b> period 17.5s fl. 0.8s, ec. 16.7s	361 110	26	Stone tower, building; 72.	Reserve light range 12M. <b>AIS</b> (MMSI No 992381030).
11056 <i>E 3588</i>	-Near main light (Cr.).	42° 23.5' N 16° 15.3' E	<b>Iso.R.</b> period 2s	315 96	5	White column; 26.	Visible 264°-304°. <b>AIS</b> (MMSI No 238645810).
11060 <i>E 2300</i>	Isola Pianosa.	42° 13.5' N 15° 44.8' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	82 25	10	White framework tower, 56.	
ISOLE DI TREMITI:							
11064 <i>E 2296</i>	-Isola Caprara.	42° 08.3' N 15° 31.2' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	75 23	4	White framework tower; 33.	
11068 <i>E 2298</i>	-Isola San Nicola, Tremiti, mole, head.	42° 07.1' N 15° 30.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	3	Green post; 23.	
11072 <i>E 2297</i>	-Isola San Nicola.	42° 07.4' N 15° 30.5' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	285 87	12	White framework tower, red bands; 49.	Reserve light range 7M.
11076 <i>E 2294</i>	-Punta del Diavolo, Isola San Domino, SW. head.	42° 06.4' N 15° 28.6' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	157 48	11	White tower; 52.	Visible 300°-175°.
TERMOLI:							
11080 <i>E 2303</i>	<b>-Termoli.</b>	42° 00.4' N 14° 59.9' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	135 41	15	White four-sided structure; 56.	Reserve light range 11M.
11084 <i>E 2304</i>	-Molo Nord, outer head.	42° 00.4' N 15° 00.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	36 11	8	Pedestal, green lantern; 33.	

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<b>ITALY-EAST COAST</b>							
11088 <i>E 2304.2</i>	--Inner head.	42° 00.2' N 15° 00.1' E	<b>F.G.</b>	26 8	3	Green lantern; 20.	Visible 290°-135°.
11092 <i>E 2305</i>	-Molo Sud, head.	42° 00.1' N 15° 00.1' E	<b>Fl.(2)Y.</b> period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	30 9	8	Platform, yellow lantern; 23.	Safety distance 40m.
11100 <i>E 2306</i>	<b>Punta della Penna.</b>	42° 10.2' N 14° 42.9' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	277 84	25	Tower, two-story building; 230.	<b>AIS</b> (MMSI No 992471104). Reserve light range 18M.
11104 <i>E 2307</i>	-Porto Vasto, Molo di Levante, head.	42° 10.6' N 14° 42.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	29 9	4	Red lantern; 23.	
11108 <i>E 2307.2</i>	--Spur.	42° 10.4' N 14° 42.6' E	<b>Fl.R.</b> period 6s fl. 1s, ec. 5s	29 9	4	Beacon; 20.	Visible 309°-203°.
11112 <i>E 2307.5</i>	--Molo di Ponente, head.	42° 10.6' N 14° 42.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	29 9	7	Green lantern; 23.	
11120 <i>E 2307.7</i>	---Spur.	42° 10.6' N 14° 42.7' E	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	29 9	4	Beacon; 20.	Visible 169°-015°.
11124 <i>E 2308</i>	San Vito Chietino, pier, head.	42° 19.0' N 14° 27.0' E	<b>FR.</b>	26 8	1	Red post; 20.	Private light.
ORTONA:							
11128 <i>E 2312</i>	-Molo Nord.	42° 21.5' N 14° 24.5' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	75 23	15	White tower, building; 78.	<b>AIS</b> (MMSI No 992471105). Reserve light range 11M.
11132 <i>E 2313</i>	--Near head.	42° 21.1' N 14° 25.4' E	<b>F.G.</b>	30 9	5	Green tower; 16.	Visible 210°-140°.
11136 <i>E 2315</i>	-Molo a Martello, E. corner, head.	42° 21.3' N 14° 24.9' E	<b>F.G.</b>	26 8	3	Pedestal, green lantern; 20.	
11138 <i>E 2315.1</i>	-Mandracchio, head.	42° 21.4' N 14° 24.6' E	<b>FR.</b>				Private light.
11140 <i>E 2314</i>	-Molo Sud, head.	42° 20.9' N 14° 25.4' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	9	Red tower; 16.	
11142 <i>E 2315.6</i>	-Tower.	42° 27.9' N 14° 19.3' E	<b>Oc.(2)Y.</b> period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	66 20	5	Framework tower, dwelling; 75.	<b>Horn:</b> Mo.(R) ev. 45s. Private light.
PESCARA:							
11143 <i>E 2315.7</i>	-Detached breakwater, W. head.	42° 28.4' N 14° 13.6' E	<b>Fl.R.</b> period 6s fl. 1s, ec. 5s	33 10	5	Pedestal, red lantern; 20.	
11143.5 <i>E 2315.72</i>	--E. head.	42° 28.3' N 14° 14.1' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Pedestal, green lantern; 20.	
11145 <i>E 2316</i>	-Marina, breakwater, head.	42° 28.2' N 14° 13.9' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	4	Green post.	Private light.
11146 <i>E 2316.35</i>	-Lighthouse.	42° 28.0' N 14° 13.7' E	<b>Fl.(3)W.</b> period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	39 12	17	White two-story building; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
11151 <i>E 2319</i>	-Molo di Scirocco.	42° 28.1' N 14° 13.8' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11	1	Red column, pedestal; 30.	
11152 <i>E 2320</i>	-Molo di Maestro.	42° 28.0' N 14° 13.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	43 13	8	Pedestal, green lantern; 36.	
<b>GIULIANOVA:</b>							
11156 <i>E 2324</i>	-Molo Sud, head.	42° 45.3' N 13° 58.8' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	4	Pedestal, red lantern; 23.	Private light.
11164 <i>E 2326</i>	-Molo Nord, head.	42° 45.2' N 13° 58.7' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	4	Pedestal, green lantern; 23.	Private light.
11168 <i>E 2326.2</i>	--Spur, head.	42° 45.2' N 13° 58.6' E	<b>F.G.</b>		2		<b>Horn:</b> Mo.(G) ev. 45s. Private light.
11172 <i>E 2335</i>	Fiume Tronto, S. side.	42° 53.6' N 13° 55.3' E	<b>2 F.R.</b> (vert.)	39 12	3	Red post; 26.	2 meters apart. Private light.
11176 <i>E 2332</i>	<b>San Benedetto del Tronto.</b>	42° 57.2' N 13° 53.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2s fl. 0.2s, ec. 7.6s	102 31	22	White cylindrical tower, building; 102.	Visible 135°-045°. <b>AIS</b> (MMSI No 992471106). Reserve light range 18M.
11180 <i>E 2333</i>	-N. mole, head.	42° 57.2' N 13° 53.2' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	8	Pedestal, green lantern; 23.	
11184 <i>E 2334</i>	-S. mole, head.	42° 57.2' N 13° 53.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	8	Pedestal, red lantern; 20.	<b>Horn:</b> Mo.(W) ev. 45s.
11188 <i>E 2336</i>	<b>Pedaso</b> , about 1 km. S. of village.	43° 05.5' N 13° 50.7' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	167 51	16	White tower, building; 69.	<b>AIS</b> (MMSI No 992471107). Reserve light range 12M.
11190 <i>E 2337</i>	Porto San Giorgio, outer mole.	43° 10.3' N 13° 48.7' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	5	Red post; 20.	<b>Horn:</b> Mo.(U) ev. 45s. Private light.
11192 <i>E 2337.2</i>	-Inner mole.	43° 10.0' N 13° 48.8' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	5	Green post; 20.	Private light.
11196 <i>E 2339</i>	Porto Civitanova, N. mole, head.	43° 18.8' N 13° 44.1' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	31 9	8	Green tower; 26.	
11200 <i>E 2338</i>	-E. mole, head.	43° 18.9' N 13° 43.9' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	8	Pedestal, red lantern; 20.	
11204 <i>E 2338.2</i>	--On spur, extending W. from head.	43° 18.7' N 13° 44.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red post, 16.	
11208 <i>E 2337.6</i>	-Chiesa di Cristo Re.	43° 18.7' N 13° 43.6' E	<b>Fl.(4)W.</b> period 20s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 9.5s	138 42	11	Church tower; 151.	
<b>ANCONA:</b>							
11214 <i>E 2343</i>	-Scogliera I Travi.	43° 34.8' N 13° 34.7' E	<b>Fl.Y.</b> period 5s fl. 0.5s, ec. 4.5s	10 3	2	SPECIAL Y, beacon, "X" topmark.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
11216 E 2344	-Colle Cappuccini.	43° 37.4' N 13° 31.0' E	<b>Fl.(4)W.</b> period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	387 118	25	Gray tower, white stripe; 49.	Obscured S. of bearing 306°. Visible 121°30'-120°. <b>AIS</b> (MMSI No 992471108). Reserve light range 18M.
11220 E 2349	-Molo Foraneo Sud, NW. extension, head.	43° 37.3' N 13° 29.7' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	36 11	5	Green tower; 33.	
11224 E 2346	-Molo Foraneo Nord, head.	43° 37.5' N 13° 29.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	36 11	5	Red tower; 20.	Visible 334°-224°.
	-RACON		<b>A(• -)</b>		6		(3 & 10cm).
11225 E 2346.5	-Detached Breakwater, S. Head.	43° 37.3' N 13° 29.1' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	7	Pedestal, red lantern; 20.	
11226 E 2346.7	--N. head.	43° 37.7' N 13° 29.4' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	7	Pedestal, green lantern; 20.	
11228 E 2347	-Molo Nord, spur, W. head.	43° 37.5' N 13° 29.9' E	<b>FR.</b>	23 7	3	Red post; 23.	
11232 E 2348	--E. end.	43° 37.4' N 13° 30.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	3	Pedestal, red lantern; 23.	
11236 E 2350	-Molo Sud.	43° 37.4' N 13° 29.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	36 11	3	Pedestal, green lantern; 23.	
11248 E 2352	-Naval shipyard breakwater, W. head.	43° 37.7' N 13° 29.9' E	<b>Q.R.</b>	23 7	4	Red post.	Private light.
FALCONARA MARITTIMA:							
11256 E 7471	-Pipeline terminal AP 1.	43° 44.7' N 13° 31.3' E	<b>Mo.(U)W.</b> period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 10s		6	Revolving platform; 23.	<b>Horn:</b> Mo.(U) ev. 30s. Private light.
11260 E 7470	-Pipeline terminal.	43° 40.1' N 13° 24.4' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	98 30	6	Platform; 98.	<b>Horn:</b> Mo(M) ev. 45s (bl. 5s, si. 2s, bl. 5s, si. 33s). Private light.
11264 E 2354	-Mole, head.	43° 38.9' N 13° 23.6' E	<b>3 F.Y. (vert.)</b>	33 10 8 23 7	2	SPECIAL Y, mast, "X" topmark; 33.	Private light.
SENIGALLIA:							
11268 E 2359	-E. mole, head.	43° 43.3' N 13° 13.4' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	8	Platform, yellow lantern; 23.	
11276 E 2358	-Molo Di Levante.	43° 43.3' N 13° 13.4' E	<b>L.Fl.(2)W.</b> period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	57 17	15	White tower, white building, black band; 56.	<b>AIS</b> (MMSI No 992471109). Reserve light range 11M.
FANO:							
11280 E 2362	-Inner part of channel.	43° 51.1' N 13° 00.9' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	69 21	15	White tower, two-story building; 66.	<b>AIS</b> (MMSI No 992471110). Reserve light range 11M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
11284 E 2364	-E. mole, head.	43° 51.2' N 13° 01.1' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	29 9	8	Pedestal, red lantern; 23.	
11288 E 2366	-W. mole, head.	43° 51.2' N 13° 01.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	8	Pedestal, green lantern; 23.	
11292 E 2368	-Canal entrance, mole, outer head.	43° 51.1' N 13° 01.0' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	26 8	3	Yellow post.	
PESARO:							
11296 E 2372	<b>-Monte di San Bartolo.</b>	43° 55.4' N 12° 53.0' E	<b>Fl.(2)W.</b> period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	574 175	25	White tower, two-story building; 82.	Obscured S. of bearing 125°. AIS (MMSI No 992471111). Reserve light range 18M.
11300 E 2374	-45 meters from E. mole, head.	43° 55.5' N 12° 54.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	8	Pedestal, red lantern; 23.	
11304 E 2376	-20 meters from W. mole, head.	43° 55.4' N 12° 54.3' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	8	Pedestal, green lantern; 23.	
11308 E 2381	<b>Cattolica.</b>	43° 58.1' N 12° 45.1' E	<b>Mo.(O)W.</b> period 14s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 6s	56 17	15	White four-sided structure, black bands; 56.	AIS (MMSI No 992471112). Reserve light range 11M.
11312 E 2382	-E. mole, head.	43° 58.2' N 12° 45.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	8	Pedestal, red lantern; 20.	
11316 E 2384	-W. mole, head.	43° 58.2' N 12° 45.1' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	8	Pedestal, green lantern; 20.	
11317 E 2388	Porto Verde.	43° 58.0' N 12° 44.0' E	<b>Iso.R.</b> period 2s		3		Private light.
11318 E 2388.2	-Mole, head.	43° 58.4' N 12° 43.0' E	<b>Iso.G.</b> period 2s		3		Private light.
11320 E 2390	Riccione, E. mole, head.	44° 00.5' N 12° 39.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	5	Red structure.	<b>Horn:</b> Mo.(M) ev. 45s. Private light.
11324 E 2394	<b>Rimini.</b>	44° 04.5' N 12° 34.5' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	89 27	15	White tower, dwelling; 82.	Visible 160°-280°. Obscured 269°-272° out to 2-7M. AIS (MMSI No 992471113). Reserve light range 11M.
11328 E 2396	-E. mole, head.	44° 04.9' N 12° 34.6' E	<b>Fl.(2)Y.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	3	Pedestal, yellow lantern.	
11332 E 2397	-W. mole, head.	44° 04.8' N 12° 34.5' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	23 7	8	Pedestal, green lantern; 20.	
11336 E 2393	-AVIATION LIGHT.	44° 01.5' N 12° 37.1' E	<b>Al.FI.W.G.</b>				Occasional. Private light.
CESENATICO:							
11340 E 2404	<b>-Cesenatico.</b>	44° 12.4' N 12° 24.1' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	59 18	15	White cylindrical tower; 56.	AIS (MMSI No 992471114). Reserve light range 11M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-EAST COAST</b>							
11344 E 2405	-E. mole, head.	44° 12.5' N 12° 24.2' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	8	Red column, pedestal; 20.	Fl.Y. 5m 4M signals the opening and closing of the Porte Vinciane. <b>Horn:</b> Mo.(R) ev. 45s (bl. 2s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 33s).
11348 E 2406	-W. mole, head.	44° 12.5' N 12° 24.3' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	8	Green column, pedestal; 20.	Fl.Y. 5m 4M signals the opening and closing of the Porte Vinciane.
11352 E 2411	Cervia.	44° 15.9' N 12° 21.2' E	<b>Iso.W.</b> period 2s	54 16	11	Multi-sided tower; 52.	Obscured outside of channel by high buildings. Private light.
11356 E 2413	-N. mole, head.	44° 16.1' N 12° 21.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green post; 23.	Private light.
11360 E 2412	-S. mole, head.	44° 16.2' N 12° 21.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	Red column, pedestal; 23.	<b>Horn:</b> Mo.(U) ev. 45s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 33s). Private light.
<b>ITALY-NORTHEAST COAST</b>							
PORTO CORSINI (MARINA DI RAVENNA):							
11368 E 7520	-AGIP 1.	44° 28.4' N 12° 21.2' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	8	White post, red bands; 52.	Private light.
11374 E 7522	-AGIP 4.	44° 27.6' N 12° 31.4' E	<b>Mo.(U)W.</b> period 15s		6	White platform, red stripes; 20.	<b>Horn:</b> Mo.(U) ev. 30s. Private light.
	-RACON		<b>U(• • -)</b> period 120s				(3cm).
11375 E 2417.9	-Baiona.	44° 29.4' N 12° 15.9' E	<b>Dir.F.W.R.G.</b>	39 12	6	Metal tower; 39.	G. 256°15'-259°36', W.-260°24', R.-263°45'.
11376 E 2418	-Corsini.	44° 29.5' N 12° 17.0' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	115 35	20	White tower, three-story building; 108.	<b>AIS</b> (MMSI No 992471115). Reserve light range 18M. Traffic signals. Current signals.
11380 E 2417.8	-Approach beacon.	44° 30.0' N 12° 20.7' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	16 5	6	SAFE WATER RW, articulated beacon, topmark.	<b>Radar reflector.</b>
11384 E 2419	-S. breakwater, head.	44° 29.7' N 12° 18.8' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Red column, pedestal; 26.	
11388 E 2420	-N. breakwater, head.	44° 29.9' N 12° 18.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Green column, pedestal; 26.	
11392 E 2421	-S. mole, head.	44° 29.6' N 12° 17.5' E	<b>Fl.R.</b> period 4s fl. 1.5s, ec. 2.5s	24 7	8	Red column, pedestal; 20.	
11396 E 2422	-N. mole, head.	44° 29.7' N 12° 17.4' E	<b>Fl.G.</b> period 4s fl. 1.5s, ec. 2.5s	24 7	8	Green column, pedestal; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-NORTHEAST COAST</b>							
PORTO GARIBALDI:							
11400 E 2426	-Molo Nord, near root.	44° 40.6' N 12° 14.7' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	46 14	15	White cylindrical tower, two-story building; 39.	<b>AIS</b> (MMSI No 992471116). Reserve light range 11M.
11404 E 2428	--Near head.	44° 40.6' N 12° 15.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 9	8	Green column, pedestal; 23.	
11408 E 2430	-Molo Sud, head.	44° 40.6' N 12° 15.2' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	8	Red column, pedestal; 23.	
11420 E 2433	--Entrance, E. side.	44° 50.4' N 12° 17.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	6	Green post.	Private light.
11424 E 2432	---W. side.	44° 47.0' N 12° 14.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	6	Red post.	Private light.
11428 E 2434	<b>-Porto di Goro.</b>	44° 47.5' N 12° 23.8' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 22	17	White tower; 79.	<b>AIS</b> (MMSI No 992471117). Reserve light range 13M.
11436 E 2440	<b>-Punta della Maestra.</b>	44° 58.1' N 12° 31.8' E	<b>Fl.(3)W.</b> period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	154 47	25	White round tower; 148.	Aeromarine light. Reserve light range 18M. F.R. lights on chimney stacks 2m WSW. <b>AIS</b> (MMSI No 992471120).
11438 E 2441	-Beacon, 2.5 miles ESE of Punta della Maestra.	44° 57.8' N 12° 35.4' E	<b>Q.(3)W.</b> period 10s	13 4	6	E. CARDINAL BYB, articulated beacon, topmark.	<b>Radar reflector.</b>
11448 E 2443	<b>-Porto Levante, NW. of entrance range.</b>	45° 04.2' N 12° 20.7' E	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	180 55	15	Water tower; 171.	Visible 200°-290°. Reserve light range 12M.
11449 E 2443.3	--E. of Porto Levante.	45° 04.6' N 12° 23.3' E	<b>Iso.Y.</b> period 2s	16 5	6	SPECIAL Y, articulated beacon, "X" topmark.	Private light.
11451 E 2444.7	--Off shore, E.	45° 05.1' N 12° 35.3' E	<b>Fl.(5)Y.</b> period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 11s	20 6	5	Yellow beacon.	Private light.
CHIOGGIA:							
11452 E 2450	<b>-Forte San Felice.</b>	45° 13.8' N 12° 17.8' E	<b>L.Fl.(2)W.</b> period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	66 20	15	White framework tower; 59.	<b>AIS</b> (MMSI No 992471118). Reserve light range 11M.
11456 E 2451	--120 meters NNW. on NW. extremity of fort.	43° 13.9' N 12° 17.4' E	<b>Fl.(2)R.</b> period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	19 6	8	Red hut; 13.	<b>Horn:</b> Mo.(N) ev. 30s.
11460 E 2452	-N. breakwater, head.	45° 14.0' N 12° 18.8' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	36 11	8	Green column, pedestal; 26.	Visible 302°-342°. <b>Horn:</b> Mo.(K) ev. 45s.
			<b>Fl.G.</b>	20 6	6		Visible 302°-342°.
	-RACON		<b>K(- • -)</b> period 30s		6		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-NORTHEAST COAST</b>							
11464 E 2453	-S. breakwater, head.	45° 13.7' N 12° 18.8' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s  <b>FR.</b>	36 11  20 6	8  6	Red column, pedestal; 26.	Visible 313°-257°.  Visible 257°-313°.
11476 E 2458	-Canale San Domenico.	45° 13.4' N 12° 17.0' E	<b>FR.</b>	30 9	3	Red post; 26.	
11480 E 2462	Oceanographic platform.	45° 18.8' N 12° 30.8' E	<b>Mo.(U)W.</b> period 15s		8	Platform.	<b>Horn:</b> Mo.(U) 30s (bl. 1s, si. 2s, bl. 1s, si. 2s, bl. 2s, si. 22s). Private light.
11484 E 2465	Malamocco Approach Beacon.	45° 19.5' N 12° 23.0' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	23 7	6	SAFE WATER RW, articulated beacon, topmark; 20.	Channel marked by articulated beacons. <b>Radar reflector.</b>
11488 E 2464	<b>-Rochetta.</b>	45° 20.4' N 12° 18.7' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	82 25	16	White round tower, black stripe, platform; 75.	Reserve light range 11M. <b>AIS</b> (MMSI No 992471119).
11490 E 2463	-Fort Rocchetta. pilot tower.	45° 20.4' N 12° 18.7' E	<b>Dir.W.R.G.</b>	98 30	6	White tower; 115.	F.G. 285°-287°, F.W.-288°, F.R.-290°.
11492 E 2464.4	-Beacon.	45° 20.3' N 12° 18.7' E	<b>Fl.(3)G.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	20 6	7	Green hut, platform.	
11496 E 2467	-S. mole, head.	45° 19.9' N 12° 20.2' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s  <b>FR.</b>	52 16  20 6	8  6	Red round tower; 46.	Visible 060°-290°.  Visible 290°-060°.
11500 E 2466	-N. mole, head.	45° 20.0' N 12° 20.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	59 18	8	Green tower, white two-story building, green top; 62.	
11504 E 2468	Palata delle Ceppe, entrance, S. side.	45° 20.1' N 12° 19.0' E	<b>Fl.(3)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	36 11	5	Red column, pedestal; 33.	
PORTO DI LIDO:							
11508 E 2481	-Approach Beacon.	45° 23.9' N 12° 28.8' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	23 7	6	SAFE WATER RW, articulated beacon; 20.	Fl.G. 2s and Fl.R. 2s articulated beacons mark entrance to approach channel. <b>Radar reflector.</b>
11516 E 2480	-N. breakwater, head.	45° 25.4' N 12° 26.2' E	<b>L.Fl.(2)W.</b> period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s  <b>Fl.(2)G.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s  <b>F.G.</b>	85 26  46 14  16 5	15  7  6	White and black checkered pagoda; 82.	Reserve light range 11M. Fl.R. 2.5s 96m lights on two antennas 7M WNW. <b>Horn:</b> Mo.(N) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 37s).  Visible 348°-040°.
	-RACON		<b>V(•••-)</b>		6		(3 & 10cm).



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ITALY-NORTHEAST COAST</b>							
11520 <i>E 2484</i>	-S. breakwater, head.	45° 25.1' N 12° 25.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	46 14	8	Red round tower; 46.	Visible 013°-290°.
			<b>F.R.</b>	16 5	6		Visible 290°-013°.
11524 <i>E 2486</i>	-Entrance Range, front, at inner bend of channel.	45° 26.3' N 12° 23.4' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	43 13	11	White tower, black bands, platform; 33.	
11528 <i>E 2486.1</i>	-- <b>Isola de Murano</b> , rear, 3,164 meters 300°40' from front.	45° 27.2' N 12° 21.3' E	<b>Oc.W.</b> period 6s lt. 4s, ec. 2s	115 35	20	White cylindrical tower, black and white bands on E. side; 115.	
			<b>Oc.W.</b> period 6s	121 37	17		Visible 300°10'-301°10'. <b>AIS</b> (MMSI No 992471121). Reserve light range 11M.
11530 <i>E 2488.4</i>	-1st Port Articulated Beacon.	45° 25.4' N 12° 25.4' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	20 6	5	PORT (A) R, articulated beacon, topmark.	<b>Radar reflector.</b>
11531 <i>E 2488.5</i>	-1st Starboard Articulated beacon.	45° 25.5' N 12° 25.5' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	20 6	5	STARBOARD (A) G, articulated beacon, topmark.	<b>Radar reflector.</b>
11532 <i>E 2485</i>	-Beacon, 1.5 km. 315° from S. breakwater.	45° 25.6' N 12° 24.9' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	20 6	5	Red hut, platform.	
11534 <i>E 2488.7</i>	-2nd Port Articulated Beacon.	45° 25.9' N 12° 24.3' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	20 6	5	PORT (A) R, articulated beacon, topmark.	<b>Radar reflector.</b>
11535 <i>E 2488.8</i>	-2nd Starboard Articulated Beacon.	45° 26.0' N 12° 24.4' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	20 6	5	STARBOARD (A) G, articulated beacon, topmark.	<b>Radar reflector.</b>
11536 <i>E 2488</i>	-Beacon, 375 meters 080° from new semaphore station.	45° 26.1' N 12° 23.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	20 6	5	Red hut, platform.	
11540 <i>E 2490</i>	--Channel, N. side.	45° 26.2' N 12° 23.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	5	Green hut, platform.	
11544 <i>E 2489</i>	--S. side.	45° 26.1' N 12° 23.2' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	20 6	5	Red hut, platform.	
11545 <i>E 2490.8</i>	-Articulated beacon.	45° 25.6' N 12° 22.5' E	<b>Fl.(3)Y.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	20 6	5	SPECIAL Y, articulated beacon, "X" topmark.	<b>Radar reflector.</b>
11546 <i>E 2491</i>	-Articulated beacon.	45° 25.4' N 12° 22.2' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6	5	Green articulated beacon, triangular daymark point up.	<b>Radar reflector.</b>
11548 <i>E 2492</i>	-S. side of channel, 873 meters 006° from San Lazzaro Church.	45° 25.2' N 12° 21.8' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	23 7	5	Red hut, platform.	
11556 <i>E 2504</i>	<b>Porto di Piave Vecchia.</b>	45° 28.7' N 12° 35.0' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	147 45	15	White cylindrical tower, black bands, building; 157.	<b>AIS</b> (MMSI No 992471122).
11557 <i>E 2504.2</i>	-Fiume Sile.	45° 28.8' N 12° 35.0' E	<b>Fl.(2)G.</b> period 6s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 3.7s	16 5	4	STARBOARD (A) G, post, topmark.	Fl.(2)R. 6s shown nearby. Private light.
11558 <i>E 2505.1</i>	Porto di Cortellazzo, Fiume Piave, W. side.	45° 31.8' N 12° 43.6' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red post, 16.	Private light.

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<b>ITALY-NORTHEAST COAST</b>							
11560 E 2506	Porto di Santa Margherita, W. jetty, head.	45° 35.1' N 12° 52.1' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s			3 Red post; 20.	Private light.
11564 E 2506.4	-E. jetty, head.	45° 35.1' N 12° 52.2' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s			3 Green post; 20.	Private light.
11568 E 2508	Caorle, church of Madonna degli Angeli.	45° 36.0' N 12° 53.6' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12		14 Tower; 30.	Reserve light range 10M.
11572 E 2518	<b>Punta Tagliamento.</b>	45° 38.2' N 13° 05.8' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	72 22		15 White cylindrical tower, building; 69.	2 F.R. (vert.) shown from pier head 4 kilometers N. <b>AIS</b> (MMSI No 992471123). Reserve light range 11M.
11574 E 2519.5	Lignano Sabbiadoro, approach.	45° 39.7' N 13° 09.7' E	<b>Fl.W.</b> period 2s	20 6		6 SAFE WATER RW, articulated beacon, topmark.	Private light.
11576 E 2521	Porto Lignano, pier, head.	45° 41.9' N 13° 09.2' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	23 7		8 Red hut; 20.	Visible 152°-330°. F.W. fishing light shown about 5M N. on Marano bridge.
11580 E 2520	-Beacon, about 0.5 km. 092° from pier.	45° 41.8' N 13° 09.6' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	18 5		4 Green column; 10.	Visible 343°-142°.
11584 E 2520.4	-Lignano Sabbiadoro, port.	45° 42.2' N 13° 08.9' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10		4 Red post.	Visible 325°-235°. Private light.
11588 E 2520.5	--Starboard.	45° 42.2' N 13° 08.7' E	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10		4 Green post.	Visible 200°-068°. Private light.
PORTO BUSO:							
11592 E 2524	-Fiume Aussa, entrance, E. side.	45° 43.1' N 13° 15.0' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8		4 Green structure; 20.	
11596 E 2524.7	-E. breakwater, head.	45° 42.3' N 13° 15.2' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	16 5		4 Green hut; 7.	
11600 E 2524.5	-W. breakwater, head.	45° 42.4' N 13° 14.8' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	16 5		4 Red hut; 7.	
11604 E 2524.3	-About 750 meters NNW. of E. entrance.	45° 43.3' N 13° 14.8' E	<b>Fl.W.G.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	W. G.	4 Green hut, dolphin; 16. 2	W. 346°-351°, G.-346°.
PORTO DI GRADO:							
11608 E 2525.7	-Articulated beacon.	45° 39.6' N 13° 20.9' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	16 5		6 SAFE WATER RW, beacon, topmark.	<b>Radar reflector.</b>
11612 E 2526	-Canale di Grado, entrance, S. side.	45° 40.8' N 13° 22.0' E	<b>Fl.W.R.</b> period 3s fl. 1s, ec. 2s	16 5	W. R.	7 Platform, red lantern; 16. 5	R. 193°-031°, W.-036°. <b>Horn:</b> (at head of E. dike) Mo.(K) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 31s).
11616 E 2528	-Junction of Canale di San Pietro d'Orio and Grado.	45° 41.0' N 13° 22.4' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5		4 Platform, red lantern; 20.	

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<b>ITALY-NORTHEAST COAST</b>							
11620 <i>E 2530</i>	-Canale di Grado, S. side.	45° 41.0' N 13° 22.6' E	<b>FI.G.</b> period 3s fl. 1s, ec. 2s	16 5	3	Platform, green post; 16.	
11624 <i>E 2534</i>	-Head of pier, close W. of entrance to Canale della Darsena.	45° 40.9' N 13° 23.1' E	<b>F.R.</b>	23 7	3	Red post; 16.	
11628 <i>E 2536</i>	-Canale di Belvedene, E. side.	45° 41.0' N 13° 23.2' E	<b>F.G.</b>	23 7	3	Green lantern; 16.	
11630 <i>E 2537.5</i>	-End of pipeline.	45° 40.3' N 13° 23.7' E	<b>FI.Y.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Post.	Private light. <b>Radar reflector.</b>
11632 <i>E 2538</i>	Branco Molo di Muggia, beacon, near bank, S. head.	45° 39.3' N 13° 26.3' E	<b>Q.(6)+L.FI.W.</b> period 15s	23 7	6	S. CARDINAL YB, beacon, topmark; 26.	<b>Radar reflector.</b>
11634 <i>E 2540</i>	Punta Sdobba, shoal.	45° 43.3' N 13° 34.3' E	<b>FI.R.</b> period 5s fl. 1s, ec. 4s	23 7	4	Red truncated conical tower; 23.	
11635 <i>E 2543</i>	-Articulated beacon.	45° 44.6' N 13° 36.4' E	<b>FI.W.</b> period 10s fl. 1s, ec. 9s	16 5	6	SAFE WATER RW, beacon, topmark.	<b>Radar reflector.</b>
11636 <i>E 2544</i>	-Channel, W. side.	45° 45.3' N 13° 35.2' E	<b>FI.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	4	Concrete tower; 20.	W. side of channel marked by 2 lights FI.R. 5s 5M, FI.(2)R. 10s 5M. <b>Radar reflector.</b>
11644 <i>E 2548</i>	Duino, mole, head.	45° 46.4' N 13° 35.9' E	<b>F.G.</b>	23 7	3	Green post; 20.	Private light.
11648 <i>E 2547</i>	-Canale San Giovanni, about 0.5 mile NW. of Duino.	45° 46.5' N 13° 35.5' E	<b>FI.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	16 5	4	Platform, green hut; 7.	
11652 <i>E 2550</i>	Sistiana, head of W. breakwater.	45° 46.1' N 13° 37.6' E	<b>F.R.</b>	26 8	3	Red post; 23.	Safety distance 15m. Private light.
11656 <i>E 2551</i>	-E. breakwater, head.	45° 46.0' N 13° 38.0' E	<b>F.G.</b>	24 7	3	Green post; 23.	F.G. 3M marks head of mole 2.4 miles SE. Safety distance 15m. Private light.
11660 <i>E 2553</i>	Santa Croce di Trieste, boat basin mole, head.	45° 43.6' N 13° 41.4' E	<b>F.G.</b>	24 7	3	Green lantern; 16.	Private light.
11664 <i>E 2554</i>	Valle Grignano, pier, head.	45° 42.4' N 13° 42.7' E	<b>F.G.</b>	20 6	3	Green post.	Private light.
11668 <i>E 2555</i>	Cedas breakwater, head.	45° 41.6' N 13° 44.2' E	<b>F.G.</b>	20 6	4	Pedestal, green lantern; 16.	Private light.
11670 <i>E 2556</i>	Barcola.	45° 40.9' N 13° 45.0' E	<b>F.G.</b>	26 8	4	Green post; 23.	Private light.
PORTO DI TRIESTE:							
11676 <i>E 2558</i>	<b>-Vittoria.</b>	45° 40.5' N 13° 45.4' E	<b>FI.(2)W.</b> period 10s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 7.8s	378 115	22	White round stone tower, bronze figure on top; 223.	Reserve light range 18M. FI.R. 2.5s 87m on radio antenna 0.4M E. Oc.R. 110m on radio antenna 1.8M E. <b>AIS</b> (MMSI No 992471124).
-Porto Franco Vecchio:							
11680 <i>E 2560</i>	--Detached breakwater, S. head.	45° 39.3' N 13° 45.7' E	<b>FI.R.</b> period 3s fl. 1s, ec. 2s	23 7	6	Red lantern; 23.	
11684 <i>E 2561</i>	--Spur, head.	45° 39.8' N 13° 45.5' E	<b>F.G.</b>	23 7	3	Green hut, lantern; 16.	Visible 130°-040°.

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<b>ITALY-NORTHEAST COAST</b>							
11688 E 2562	--Detached breakwater, N. head.	45° 39.8' N 13° 45.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	8	Green hut, lantern; 13.	
11696 E 2568	--Molo Fratelli Bandiera Breakwater, head.	45° 38.9' N 13° 45.1' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	Red post; 13.	
11700 E 2565	--Breakwater, E. head.	45° 39.0' N 13° 45.6' E	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 7	5	Green post; 16.	
11706 E 2557	-Outfall.	45° 38.6' N 13° 40.9' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	5	Yellow beacon.	Private light. <b>Radar reflector.</b>
-Emanuele Filiberto Duca d'Acosta Basin:							
11708 E 2576	--N. detached breakwater, N. head.	45° 38.8' N 13° 44.2' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	5	Green pedestal, lantern; 23.	
11712 E 2578	---S. head.	45° 38.3' N 13° 44.4' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	8	Red pedestal, lantern; 23.	
11716 E 2588	--Mole No 5, NW. corner.	45° 38.4' N 13° 44.6' E	<b>F.G.</b>	23 7	4	Green post; 16.	
11717 E 2588.2	---SW. corner.	45° 38.3' N 13° 44.7' E	<b>F.R.</b>	23 7	4	Red post; 16.	
11724 E 2580	--Middle detached breakwater, N. head.	45° 38.2' N 13° 44.2' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	31 9	5	Green pedestal, lantern; 23.	
11728 E 2582	---S. head.	45° 38.0' N 13° 44.3' E	<b>Iso.R.</b> period 2s	31 9	5	Red pedestal, lantern; 23.	Visible 198°-148°.
11732 E 2586	-Diga Luigi Rizzo, N. head.	45° 37.9' N 13° 44.1' E	<b>Iso.G.</b> period 2s	21 6	5	Green pedestal, lantern; 16.	Visible 018°-328°.
11736 E 2587	--S. head.	45° 37.0' N 13° 44.3' E	<b>Fl.(3)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Red pedestal, lantern; 23.	
11748 E 2593	-Servola, Banchina Italsider, NW. corner.	45° 37.2' N 13° 46.5' E	<b>2 F.R.</b> (vert.)	26 8	3	Red post; 16.	Private light.
SAN SABBA:							
11752	-Approach Bell Buoy.	45° 37.0' N 13° 43.0' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	7 2	5	SAFE WATER RW, pillar, topmark.	Marks SW. limit of tanker anchorage. Bell. Private light. <b>Radar reflector.</b>
11756 E 2601	-Trieste-Ingolstadt pipeline terminal, San Sabba, W. mole, head.	45° 36.7' N 13° 46.9' E	<b>2 F.R.</b> (vert.)	26 8	4	Red post; 10.	2 meters apart. Private light.
11760 E 2598	--Terminal No 1, head.	45° 36.6' N 13° 46.5' E	<b>2 F.R.G.</b> (vert.)	26 8	4	Red post, green bands; 16.	1 meter apart. Private light.
11764 E 2597	---No 2, head.	45° 36.7' N 13° 46.3' E	<b>2 F.R.G.</b> (vert.)	26 8	4	Red post, green bands; 16.	1 meter apart. Private light.
11768 E 2597.2	---Root.	45° 36.8' N 13° 46.6' E	<b>F.G.</b>	20 6	4	Green post; 10.	Visible 298°-118°. Private light.
11772 E 2601.4	--Head of pier about 220 yards ESE. of San Sabba Mole.	45° 36.7' N 13° 47.2' E	<b>F.G.</b>	26 8	3	Green post; 20.	

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<b>ITALY-NORTHEAST COAST</b>							
BAIA DI MUGGIA:							
11776 <i>E 2603</i>	-Porto Industriale.	45° 36.8' N 13° 48.8' E	<b>F.W.R.G.</b>	34 10	10	Aluminum post; 30.	G. 059.3°-063.3°, W.-064.3°, R.-069.3°.
11784 <i>E 2602.2</i>	-Petroli Aquila Pier, head.	45° 36.3' N 13° 47.6' E	<b>F.R.</b>	20 6	3	Red post; 13.	Private light.
11788 <i>E 2602</i>	--E. arm, head.	45° 36.3' N 13° 47.6' E	<b>F.G.</b>	21 6	3	Green post; 13.	Private light.
11792 <i>E 2595</i>	-Muggia, E. mole, head.	45° 36.4' N 13° 46.0' E	<b>F.R.</b>	23 7	3	Red post; 16.	Private light.
11796 <i>E 2596</i>	--W. mole, head.	45° 36.4' N 13° 46.0' E	<b>F.G.</b>	23 7	3	Green post; 16.	Private light.
11800 <i>E 2604</i>	-Zaule, pier.	45° 36.5' N 13° 48.1' E	<b>2 F.G.</b> (vert.)	20 6	3	Green post; 16.	Private light.
11808 <i>E 2605</i>	-Jetty, head.	45° 35.8' N 13° 43.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	21 6	3	Red lantern; 16.	Private light.
<b>SLOVENIA</b>							
KOPERSKI ZALIV:							
11812 <i>E 2607</i>	-Plicinia Debeli, 0.5 km. W. of Rt Debeli.	45° 35.5' N 13° 42.0' E	<b>Q.(9)W.</b> period 15s	26 8	8	W. CARDINAL YBY, tower, topmark; 13.	
-Koper:							
11814 <i>E 2608</i>	--Zaliv Valdoltra.	45° 34.8' N 13° 43.6' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	Red tower; 13.	
11816 <i>E 2611.5</i>	--Basin 3, E. side.	45° 34.0' N 13° 44.8' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	4	Red tower; 13.	
11817 <i>E 2611.7</i>	--Basin 3 Range, front.	45° 33.9' N 13° 44.8' E	<b>Q.Y.</b>	26 8	10	Red column, white bands, "X" topmark; 20.	<b>AIS</b> (MMSI No 992783030).
11817.5 <i>E 2611.71</i>	---Rear, 089° from front.	45° 33.9' N 13° 44.9' E	<b>Q.Y.</b>	39 12	10	Red column, white bands, "X" topmark; 41.	
11820 <i>E 2613</i>	--Marina, W. breakwater.	45° 33.0' N 13° 43.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red metal tower, column, gallery; 16.	Visible 270°-115°.
11820.3 <i>E 2613.3</i>	--Basin 1.	45° 33.2' N 13° 44.3' E	<b>F.Bu.</b>	82 25	15		Visible 088°06'-092°36'. <b>AIS</b> (MMSI No 992783011).
11820.5 <i>E 2613.5</i>	---E. breakwater.	45° 33.0' N 13° 43.6' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Green metal tower, column, gallery; 16.	
11828 <i>E 2612.2</i>	--Stara Luka, N. mole, head.	45° 32.9' N 13° 43.3' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	22 7	4	Red metal tower, column, gallery; 20.	
11832 <i>E 2612</i>	---S. pier, head.	45° 32.9' N 13° 43.4' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	White metal tower, column, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SLOVENIA</b>							
-Izola:							
11836 <i>E 2618</i>	--Rt Petelin.	45° 32.5' N 13° 39.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	6	White metal tower, column, gallery; 20.	
11840 <i>E 2620</i>	--N. mole, head.	45° 32.4' N 13° 39.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	20 6	4	White metal tower, column, gallery; 16.	
11844 <i>E 2622</i>	--S. mole, head.	45° 32.2' N 13° 39.1' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	4	Red metal tower, column, gallery; 16.	
PIRANSKI ZALIV:							
-Piran:							
11848 <i>E 2624</i>	--Rt <b>Madona</b> , bay, N. entrance.	45° 31.8' N 13° 33.8' E	<b>Iso.W.</b> period 4s	43 13	15	Gray octagonal tower; 30.	Visible 351°-253°. Reserve light range 8M.
11852 <i>E 2630</i>	--Head of transverse mole, S. side of entrance.	45° 31.5' N 13° 34.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green four-sided stone hut; 23.	
11856 <i>E 2628</i>	--Entrance, N. side, mole, head.	45° 31.5' N 13° 34.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red four-sided stone hut; 23.	
-Uvala Portoroz:							
11860 <i>E 2632</i>	--Rt Sveti Bernard, mole, head.	45° 30.8' N 13° 34.4' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red conical metal tower; 26.	
11864 <i>E 2634</i>	--Mole, head.	45° 30.7' N 13° 35.4' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	6	White metal tower, column, gallery; 16.	

# Section 9

## Croatia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
11868 <i>E 2642</i>	Rt Savudrija.	45° 29.4' N 13° 29.5' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 3.3s fl. 0.5s, ec. 7s	118 36	30	White round masonry tower, gray cupola; 95.	Reserve light range 12M. <b>AIS</b> (MMSI No 992381250). <b>Siren:</b> 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
11869 <i>E 2642.5</i>	-Plic Zanestra.	45° 28.4' N 13° 29.9' E	<b>Q.(9)W.</b> period 15s	23 7	3	W. CARDINAL YBY, beacon, topmark; 20.	
11870 <i>E 2643</i>	Stara Savudrija.	45° 30.2' N 13° 30.2' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White conical tower, red post; 16.	Visible 090°-163° and 264°-304°.
LUKA UMAG:							
11872 <i>E 2644</i>	-Plicina Paklena, shoal, W. edge.	45° 26.5' N 13° 30.2' E	<b>Fl.(2)W.R.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	33 10	W. 8 R. 6	Red tower, column, gallery, stone base; 20.	W. 347°-165°, R.-347°. <b>AIS</b> (MMSI No 992381540).
11876 <i>E 2646</i>	-Mole, head.	45° 26.2' N 13° 30.8' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	29 9	4	Green tower, column, gallery; 20.	Visible 076°-316°.
11880 <i>E 2648</i>	-Inner mole, head.	45° 25.9' N 13° 31.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	White square tower, column, gallery; 23.	Visible 136°-006°.
11884 <i>E 2649</i>	-Mole, head.	45° 25.4' N 13° 31.0' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Green column; 16.	Visible 056°-318°.
11888 <i>E 2652</i>	Dajla, mole, head.	45° 21.6' N 13° 33.1' E	<b>FR.</b>	23 7	1	Red column; 20.	Private light.
LUKA NOVIGRAD:							
11892 <i>E 2654</i>	-Breakwater, head.	45° 19.1' N 13° 33.3' E	<b>Fl.W.R.G.</b> period 5s fl. 1s, ec. 4s	23 7	W. 8 R. 5 G. 6	White tower, gallery; 20.	G. 117°-003°, W.-025°, R.-058°, W.-117°.
11896 <i>E 2655</i>	-Mole, head.	45° 19.2' N 13° 33.7' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	White tower, column, gallery; 20.	
11900 <i>E 2656</i>	-Boat harbor, mole, head.	45° 19.1' N 13° 33.8' E	<b>FG.</b>	17 5	3	White column; 13.	
11904 <i>E 2658</i>	Rt.	45° 17.9' N 13° 34.1' E	<b>Fl.(3)W.R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	36 11	W. 9 R. 6	Stone dwelling.	R. 325°-018°, W.-325°.
11905 <i>E 2660</i>	Plicina Civran, NW. side.	45° 16.9' N 13° 34.3' E	<b>Q.W.</b>	23 7	5	N. CARDINAL BY, beacon, topmark; 20.	
11906 <i>E 2660.2</i>	-SW. side.	45° 16.5' N 13° 34.0' E	<b>Q.(9)W.</b> period 15s	23 7	5	W. CARDINAL YBY, beacon, topmark; 20.	
POREC:							
11908 <i>E 2662</i>	-Hrid Barbaran, N. of entrance.	45° 13.8' N 13° 35.2' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	W. 8 R. 5	Red tower, column, gallery; 23.	R. 011°-062°, W.-153°, R.-308°, W.-011°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
11912 E 2663	-N. point of Otocic Sv. Nikola, mole, head.	45° 13.7' N 13° 35.1' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	White tower, green cupola; 20.	Visible 074°-023°.
11914 E 2664	-Athletic field, SW. head.	45° 13.7' N 13° 35.4' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red tower, column, gallery; 16.	Visible 314°-130°.
11920 E 2665	-Mole, head.	45° 13.6' N 13° 35.5' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	20 6	4	White tower, column, gallery; 16.	
11924 E 2670	Crlenazemja, mole, head.	45° 10.6' N 13° 36.0' E	<b>FR.</b>	16 5	3	Red column.	Shown on request.
11925 E 2670.2	-Funtana Marina.	45° 10.7' N 13° 35.6' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Green tower, platform; 16.	Visible 100°-122° and 147°-068°.
11926 E 2669	--NW.	45° 11.4' N 13° 34.4' E	<b>Q.(9)W.</b> period 15s	23 7	5	W. CARDINAL YBY, beacon, topmark.	
11928 E 2668	Otocic Visoki (Altijez), on summit of islet.	45° 11.9' N 13° 34.1' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	29 9	8	White tower, column, gallery; 20.	<b>AIS</b> (MMSI No 992381450).
11932 E 2672	Plicina Mramori, on the S. shoal.	45° 08.8' N 13° 34.2' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	43 13	7	Red tower, column, gallery; 20.	<b>AIS</b> (MMSI No 992381480).
11936 E 2674	Otocic Galiner, Vrsar, entrance.	45° 09.2' N 13° 35.6' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	67 20	5	Red framework tower; 33.	Visible 049°-064°, 099°-116° and 185°-025°.
11940 E 2676	Vrsar, mole, head.	45° 08.9' N 13° 36.1' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	21 6	4	White round tower, column, gallery; 16.	Visible 072°-000°.
ROVINJ:							
11944 E 2680	-Rt Sveta Eufemija.	45° 05.0' N 13° 37.8' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	62 19	7	Square stone tower, gallery; 23.	
11948 E 2684	-Juzna Luka, breakwater, head.	45° 04.8' N 13° 38.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 20.	
11956 E 2682	-Sjeverna Luka, quay.	45° 05.1' N 13° 38.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green tower, column, gallery; 20.	
11960 E 2690	<b>Hrid Sveti Ivan na Pucini.</b>	45° 02.6' N 13° 36.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	75 23	24	Stone tower, dwelling; 49.	Reserve light range 12M. <b>AIS</b> (MMSI No 992381110). <b>Siren:</b> 1 bl. ev. 30s (bl. 4s, si. 26s).
11968 E 2712	-Fazana, N. mole, head.	44° 55.7' N 13° 48.1' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	25 8	2	Red tower, column, gallery; 16.	
11972 E 2692	-Kabula, Brioniski Otoci, rock, N. side.	44° 56.7' N 13° 42.6' E	<b>Q.W.</b>	32 10	9	N. CARDINAL BY, beacon, topmark; 16.	
11976 E 2696	-Saluga, Otok Veliki Brioni, shoal, NE. side.	44° 55.2' N 13° 46.8' E	<b>Fl.(2)W.R.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	6	Red tower, column, gallery, stone base; 20.	R. 130°-142°, W.-130°.
11980 E 2694	-Brioni (Brijuni), N. mole, head.	44° 55.1' N 13° 46.2' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green tower, column, gallery; 20.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
11988 E 2700	-Kotez, on shoal, S. side of channel.	44° 54.4' N 13° 47.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	22 7	6	Green tower, column, gallery; 20.	
11992 E 2706	-Otok Sveti Jerolim, W. point.	44° 53.9' N 13° 47.0' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	33 10	5	White tower, column, gallery; 16.	Visible 349°-221°.
11996 E 2710	-Rt Pinida, Brionski Otoci, S. point.	44° 53.3' N 13° 45.2' E	<b>Iso.W.</b> period 4s	66 20	11	Square tower, dwelling; 49.	Visible 238°-114°. Reserve light range 7M. AIS (MMSI No 992381300).
LUKA PULA:							
12000 E 2718	-Rt Kristo, entrance, NE. side.	44° 53.4' N 13° 47.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	5	Square stone tower, red top; 16.	
12004 E 2720	-Rt Kumpare, breakwater, head.	44° 53.2' N 13° 47.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	6	Green tower, column, gallery; 16.	AIS (MMSI No 992381220).
12008 E 2721	-Otocic Sveta Katerina, S. side.	44° 52.5' N 13° 49.5' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	1	Red tower, column, gallery; 16.	
12012 E 2721.2	--About 80 meters ENE.	44° 52.4' N 13° 49.8' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	1	Red tower, gallery; 16.	
12016 E 2724	-Otocic Sveti Andrija, N. side.	44° 52.4' N 13° 49.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	1	Green tower, gallery; 16.	
12020 E 2726	-Otocic Sveti Andrija, S. side.	44° 52.2' N 13° 49.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	17 5	4	Red square hut, gallery, white pedestal; 16.	
12024 E 2728	-Commercial port, Gat Rijeka.	44° 52.5' N 13° 50.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	White metal tower, column, gallery; 20.	
12032 E 2727	-Otocic Uljanik.	44° 52.6' N 13° 50.4' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower; 16.	
12036 E 2734	Rt Verudica, Luka Veruda, entrance, N. side.	44° 50.0' N 13° 50.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	6	White tower, red top, gallery, dwelling; 26.	
12037 E 2735	-Rt Rakovica.	44° 48.6' N 13° 51.7' E	<b>Fl.(2)G.</b> period 5s	30 9	4		Visible 323°-198°.
12040 E 2738	<b>Hrid Porer.</b>	44° 45.5' N 13° 53.4' E	<b>Fl.(3)W.</b> period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	115 35	25	Stone tower, dwelling; 102.	Visible 255°-147°. Reserve light range 12M. AIS (MMSI No 992381100). Siren: 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
RACON			<b>M(— —)</b>		<b>20</b>		(3 & 10cm).
KVARNER WEST:							
12048 E 2742	-Plicina Albanez.	44° 44.1' N 13° 54.1' E	<b>Fl.(2)W.R.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	49 15	W. 10 R. 6	White tower, gallery; 46.	R. 172°-227°, W.-172°. AIS (MMSI No 992381050).
12052 E 2738.2	-Hrid Porer, rock, S. head.	44° 45.0' N 13° 54.0' E	<b>Iso.W.R.G.</b> period 6s	39 12	W. 11 R. 7 G. 7	Column, gallery, dwelling, red lantern; 7.	W. 258°-326°, R.-352°, G.-163°. Lighted when Plicina Albanez is extinguished.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12054 E 7580	Platform Ivana A.	44° 44.7' N 13° 17.6' E	<b>Mo.(U)W.</b> period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 1.2s	75 23	10		<b>Horn:</b> Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
			<b>Mo.(U)R.</b> period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 1.2s	79 24	5		
12054.2 E 7583	-Ivana B.	44° 41.2' N 13° 12.8' E	<b>Mo.(U)W.</b> period 15s		10	Platform.	<b>Horn:</b> Mo.(U) ev. 30s.
12054.5 E 7581	-Ivana D.	44° 47.0' N 13° 15.5' E	<b>Mo.(U)W.</b> period 15s		10	Platform.	<b>Horn:</b> Mo.(U) ev. 30s.
12054.6 E 7582	-Ivana E.	44° 44.7' N 13° 14.5' E	<b>Mo.(U)W.</b> period 15s		10	Platform.	<b>Horn:</b> Mo.(U) ev. 30s.
12055 E 7584	-IDA-C.	44° 27.7' N 13° 30.0' E	<b>Mo.(U)W.</b> period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 1.2s		10	Platform.	<b>Horn:</b> Mo.(U) ev. 30s. (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
	-Medulinski Zaliv:						
12056 E 2748	--Rt Munat Skrajni.	44° 48.2' N 13° 55.4' E	<b>Fl.W.R.</b> period 2s fl. 0.3s, ec. 1.7s	29 9	W. 7 R. 4	Red tower, column, gallery; 16.	W. 312°-327°, R.-312°.
12058 E 2749	--Bodulas, islet, SW.	44° 47.4' N 13° 56.6' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	5	Green tower; 23.	Visible 278°-142°.
12060 E 2750	--Rt Marlera.	44° 48.2' N 14° 00.1' E	<b>Fl.W.</b> period 8s fl. 0.5s, ec. 7.5s	69 21	9	White tower, gallery, concrete base; 30.	Visible 186°-038°.
12064 E 2751	-Rt Seka, on shoal.	44° 53.7' N 14° 01.0' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green tower, gallery; 16.	
	-Zaliv Rasa:						
12068 E 2768	--Rt Ubas (Ubac), entrance, E. side.	44° 56.7' N 14° 03.9' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	52 16	8	White tower, column, gallery; 16.	<b>AIS</b> (MMSI No 992381320).
12072 E 2769	--Rt Mulac, entrance, W. side.	44° 57.0' N 14° 03.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	69 21	3	Red tower, column, gallery; 26.	
12076 E 2770	--Rt Kucica.	44° 58.1' N 14° 04.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green tower, column, gallery; 16.	
12080 E 2772	--Rt Sveti Mikula.	44° 58.7' N 14° 04.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	29 9	1	Red tower, gallery, white base; 20.	
12084 E 2773	--Uvala Tunarica.	44° 58.4' N 14° 05.8' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red tower, column, gallery; 16.	
12088 E 2774	--Rt Prascarica.	44° 59.5' N 14° 04.2' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	1	Red tower, column, gallery; 16.	
12092 E 2776	--Uvala Teplica, W. point.	45° 00.2' N 14° 03.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	30 9	1	Green tower, gallery, white base, 20.	
12096 E 2780	--Trget, inlet, W. point.	45° 01.3' N 14° 03.2' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	1	Green tower, column, gallery; 16.	Visible 326°-170°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12099 <i>E 2781</i>	-Koromacno, wharf, head.	44° 57.9' N 14° 07.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	3	Green tower, column, gallery; 20.	Visible 002°-253°.
12100 <i>E 2782</i>	-Rt Crna Punta.	44° 57.4' N 14° 08.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 15	10	White octagonal tower, gallery; 16.	Visible 245°-104°. AIS (MMSI No 992381310).
12102 <i>E 2783</i>	--Skvaranska.	44° 59.2' N 14° 10.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	10	White tower, column, gallery; 16.	
	-Luka Rabac:						
12104 <i>E 2794</i>	--Rt Sveti Andrija.	45° 04.4' N 14° 09.9' E	<b>Fl.(3)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	5	Square stone tower; 13.	
12108 <i>E 2798</i>	--Quay.	45° 04.7' N 14° 09.5' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	2	Green tower, column, gallery; 16.	Visible 350°-270°.
12110 <i>E 2798.2</i>	Rt Masnjak.	45° 07.0' N 14° 12.3' E	<b>Fl.(2)W.</b> period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	52 16	8	White tower, gallery; 20.	Visible 286°-127°.
12112 <i>E 2799</i>	Uvala Brestova, cove, head.	45° 08.7' N 14° 13.4' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	23 7	4	Green tower, column, gallery; 16.	
	KVARNER EAST:						
12116 <i>E 2744</i>	-Hrid Galiola.	44° 43.7' N 14° 10.5' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	69 21	12	Octagonal stone tower, gallery; 59.	AIS (MMSI No 992381040).
	-RACON		<b>K(- • -)</b>		20		(3 & 10cm).
	-Otok Unije:						
12120 <i>E 2752</i>	--Rt Vnetak.	44° 37.2' N 14° 14.1' E	<b>Fl.(3)W.R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	56 17	W. 10 R. 7	Stone tower, dwelling; 43.	W. 270°-158°, R.-176°. AIS (MMSI No 992381260).
12124 <i>E 2754</i>	--Luka Unije, mole, head.	44° 38.2' N 14° 14.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower, column, gallery; 20.	Visible 093°-146°.
12128 <i>E 2756</i>	--Rt Lakunji.	44° 41.3' N 14° 16.8' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	8	White tower, column, gallery; 20.	
12132 <i>E 2760</i>	-Otocic Zecevo, SW. point.	44° 45.9' N 14° 18.1' E	<b>Fl.(2)W.R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	43 13	W. 8 R. 6	Square stone tower; 26.	W. 194°-176°, R.-194°.
12136 <i>E 2761</i>	-Otocic Visoki, NW. side.	44° 46.6' N 14° 20.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	43 13	6	Stone tower; 26.	
	-Otok Cres:						
12140 <i>E 2758</i>	--Uvala Bijar.	44° 41.9' N 14° 23.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red tower, column, gallery; 16.	Visible 116°-106°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12144 <i>E 2759</i>	--Osor, mole.	44° 41.6' N 14° 23.5' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Red tower, column, gallery; 16.	
12148 <i>E 2762</i>	--Martinscica, mole, head.	44° 49.1' N 14° 21.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column, gallery; 16.	
12152 <i>E 2764</i>	--Hrid Zaglav.	44° 55.3' N 14° 17.3' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	65 20	10	Square tower, gallery, dwelling; 49.	<b>AIS</b> (MMSI No 992381120).
12154 <i>E 2750.3</i>	--Sika, rock.	44° 49.1' N 13° 59.9' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	Red tower; 23.	Visible 112°-340°.
--Luka Cres:							
12156 <i>E 2784</i>	---Rt Kovacine, entrance, N. side.	44° 57.6' N 14° 23.4' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	29 9	8	Red tower; 20.	Visible 297°-185°.
12160 <i>E 2792</i>	---Luka Cres, on Rt Krizice.	44° 57.3' N 14° 23.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	29 9	4	Green tower; 20.	
12164 <i>E 2788</i>	---Rt Melin.	44° 57.4' N 14° 24.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	19 6	3	Red tower, column, gallery; 16.	
12172 <i>E 2802</i>	--Rt Prestenice, Kanal Vela Vrata, E. entrance point.	45° 07.2' N 14° 16.4' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	56 17	10	Square tower, dwelling; 43.	Visible 350°-205°. <b>AIS</b> (MMSI No 992381410).
12176 <i>E 2799.4</i>	--Rt Sip.	45° 10.8' N 14° 14.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	8	Red tower, gallery; 16.	
12180 <i>E 2799.2</i>	C. Brestova.	45° 08.2' N 14° 13.4' E	<b>Fl.(2)R.</b> period 12s fl. 1s, ec. 2.5s fl. 1s, ec. 7.5s	131 40	13	Red tower, gallery; 16.	<b>AIS</b> (MMSI No 992381580).
12184 <i>E 2799.6</i>	--Banja, Kanal Vela Vrata, NE. entrance point.	45° 09.9' N 14° 18.1' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	8	Green tower, gallery; 16.	
12188 <i>E 2801</i>	--Livala Porozina, mole, head.	45° 07.9' N 14° 17.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	
KANAL SREDNJA VRATA:							
-Otok Cres:							
12194 <i>E 2871</i>	--Merag.	44° 58.8' N 14° 26.8' E	<b>Fl.(3)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 8	4	White tower; 16.	
12196 <i>E 2873</i>	--Rt Tarej.	44° 57.3' N 14° 29.2' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	6	Red tower, column, gallery, white pedestal; 16.	
RIJECKI ZALIV:							
12200 <i>E 2804</i>	-Moscenice, quay, SE. corner.	45° 14.3' N 14° 15.4' E	<b>Fl.G.</b>	23 7	3	Green tower, column, gallery; 16.	
12204 <i>E 2810</i>	-Lovran, S. breakwater, head.	45° 17.4' N 14° 16.7' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	4	Green square tower, column, gallery; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12212 <i>E 2816</i>	-Opatija, mole, head.	45° 20.2' N 14° 18.7' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	6	Red tower, column, gallery; 20.	Visible 137°-354°.
12216 <i>E 2817</i>	--Marina, breakwater, head.	45° 19.7' N 14° 18.1' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red tower, column, gallery; 16.	
12220 <i>E 2818</i>	-Volosko, S. mole, head.	45° 20.9' N 14° 19.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column, gallery; 16.	
12224 <i>E 2820</i>	--N. mole, head.	45° 20.9' N 14° 19.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column, gallery; 16.	
12226 <i>E 2829</i>	-Petrolejska.	45° 20.0' N 14° 24.6' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green tower, column, gallery; 20.	
12228 <i>E 2822</i>	<b>-Mlaka.</b>	45° 20.0' N 14° 25.2' E	<b>Fl.W.</b> period 10s fl. 0.7s, ec. 9.3s	128 39	15	Black tower, white bands, cupola, gallery; 125.	Reserve light range 12M.
	-Luka Rijeka:						
12232 <i>E 2830</i>	--Brgud, S. breakwater, head.	45° 20.1' N 14° 23.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	33 10	4	Green tower, column, building; 10.	
12234 <i>E 2830.5</i>	--Marina breakwater, head.	45° 20.2' N 14° 23.2' E	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 7	2	Green tower; 23.	
12240 <i>E 2824</i>	--Generala Petra Drapsina, breakwater, head.	45° 19.6' N 14° 25.2' E	<b>Fl.(3)G.</b> period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	49 15	8	Green tower, gallery; 46.	Reserve light range 3M.
12244 <i>E 2828</i>	--Mole Lole Ribara, head.	45° 19.8' N 14° 25.3' E	<b>Fl.(3)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	30 9	3	Red square tower, column, gallery; 23.	
	-Susak:						
12248 <i>E 2842</i>	--Detached breakwater, S. side.	45° 19.4' N 14° 26.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	29 9	3	Green tower, column, gallery; 23.	
12252 <i>E 2840</i>	---N. side.	45° 19.4' N 14° 26.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red tower, column, gallery; 16.	
12254 <i>E 2843</i>	-RoRo berth.	45° 19.2' N 14° 27.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	23 7	4	White tower; 20.	
12256 <i>E 2844</i>	-Luka Marinscica, E. breakwater, head.	45° 18.7' N 14° 28.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	38 12	3	Green tower, column, gallery; 16.	
12256.2 <i>E 2844.5</i>	--W. pier.	45° 18.7' N 14° 28.5' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	Red column; 13.	
	KVARNER:						
12260 <i>E 3036</i>	<b>-Otok Susak.</b>	44° 30.9' N 14° 18.1' E	<b>L.Fl.(2)W.</b> period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	328 100	19	Square tower, dwelling; 39.	Reserve light range 8M. <b>AIS</b> (MMSI No 992381190).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12264 E 3038	-Uvala Dragoca, N. breakwater, head.	44° 30.8' N 14° 18.7' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column, gallery; 16.	
12268 E 3034	-Hrid Silo, Otok Srakane Male, SE.	44° 33.5' N 14° 20.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	5	Stone tower, red gallery, white concrete base; 20.	
12270 E 3035	-Otocic Vele Srakane.	44° 34.5' N 14° 19.2' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	White tower; 13.	
12272 E 3042	-Otocic Sveti Petar, Otok Losinj, SW.	44° 27.6' N 14° 33.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	5	White tower, column, gallery; 16.	Visible 115°-124° and 285°-320°.
12273 E 3043	-Otok Ilovik.	44° 27.8' N 14° 32.9' E	<b>Fl.(3)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	23 7	3	White tower, column, gallery; 16.	
	-Otok Losinj:						
12276 E 3032	--Rt Kurila.	44° 33.7' N 14° 22.1' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	W. 8 R. 6	Stone tower, white pedestal; 26.	W. 189°-175°, R.-189°.
	--Luka Mali Losinj:						
12280 E 3022	---Otocic Murtar, SW. point.	44° 33.0' N 14° 25.3' E	<b>L.Fl.W.</b> period 8s fl. 2s, ec. 6s	30 9	8	White tower, gallery, pedestal, dwelling; 30.	
12284 E 3023	---Otocic Zabodaski, W. side.	44° 33.1' N 14° 24.2' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	39 12	4	Square stone tower, red top; 20.	
12288 E 3024	---Otocic Koldurac (Koludarc), on Rt Kriz, entrance, S. side.	44° 33.5' N 14° 25.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	Green tower, white pedestal; 23.	
12292 E 3026	---Rt Torunza, entrance, N. side.	44° 33.6' N 14° 25.6' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	W. 6 R. 4	Red tower, white concrete base; 23.	W. 065°-072°, R.-065°.
12296 E 3028	---Rt Poljana.	44° 33.2' N 14° 26.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	5	Red framework tower, white pedestal; 26.	
12300 E 3029	---Mole, NW. corner.	44° 32.1' N 14° 28.0' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	4	Red tower, column, gallery; 16.	
12304 E 3019	--Luka Cikat, on Rt Madona.	44° 31.5' N 14° 26.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	3	Stone tower, green gallery; 23.	
12308 E 3016	--Veli Losinj, on E. entrance point.	44° 31.4' N 14° 30.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	Red tower, column, gallery; 16.	Visible 170°-270°.
12310 E 3015	--Luka Rovenska, breakwater, head.	44° 31.4' N 14° 30.5' E	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	16 5	3	Red tower; 13.	
12312 E 3014	--Luka Sveta Martin, mole, head.	44° 32.0' N 14° 28.7' E	<b>Fl.(3)R.</b> period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	16 5	2	Red column; 13.	
12316 E 3012	--Nerezine, S. mole, head.	44° 39.8' N 14° 24.2' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	3	Red column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12320 <i>E 3008</i>	--Otocic Palacol.	44° 32.4' N 14° 37.2' E	<b>Fl.(2)W.R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	W. 8 R. 5	White tower, gallery, white concrete pedestal; 23.	R. 078°-150°, W.-078°.
-Otok Cres:							
12324 <i>E 3006</i>	--Rt Suha.	44° 36.2' N 14° 29.9' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	W. 9 R. 6	White tower, column, gallery; 16.	R. 285°-319°, W.-285°.
12328 <i>E 3004</i>	--Luka Jadresnica.	44° 36.9' N 14° 30.3' E	<b>F.G.</b>	16 5		Green column; 16.	
12332 <i>E 3002</i>	-Otocic Trstenik.	44° 40.1' N 14° 34.7' E	<b>L.Fl.W.R.</b> period 10s fl. 2s, ec. 8s	85 26	W. 11 R. 8	Stone tower, dwelling; 39.	W. 042°-346°, R.-018°, W.- 032°. <b>AIS</b> (MMSI No 992381170).
RIJECKI ZALIV:							
12336 <i>E 2850</i>	-Podurinj (Urinj), mole, head.	45° 17.0' N 14° 31.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	19 6		Green tower, column, gallery; 16.	
12340 <i>E 2855</i>	--Rt Sridnji, entrance, N. point.	45° 16.8' N 14° 33.4' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12		White round tower, column, gallery; 16.	Visible 212°30'-053°.
12342 <i>E 2845.1</i>	-Rt Ostro, Kraljevica.	45° 16.4' N 14° 33.6' E	<b>Iso.W.</b> period 4s	49 15		Red tower, white bands; 49.	
-Bakarski Zaliv:							
12348 <i>E 2854</i>	---NE. corner.	45° 16.4' N 14° 34.1' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	20 6		White tower; 16.	
12352 <i>E 2856</i>	--Kavranic, entrance, NE. point.	45° 16.9' N 14° 33.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	49 15		Pyramidal stone tower; 20.	
12356 <i>E 2857</i>	--Rt Babno.	45° 17.1' N 14° 33.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	41 12		Red round tower, column, gallery; 16.	
12360 <i>E 2862</i>	--Bakarac, mole, head.	45° 16.8' N 14° 34.9' E	<b>F.R.</b>	20 6		Red tower, column; 16.	
VELEBITSKI KANAL:							
-Tihi Kanal:							
12364 <i>E 2890</i>	--Otocic Sv. Marko.	45° 15.2' N 14° 34.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	49 15		Red tower, column, gallery; 20.	
12368 <i>E 2892</i>	--Rt Glavina.	45° 14.5' N 14° 34.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7		Red tower, column, gallery; 16.	
12376 <i>E 2894</i>	--Rt Voscica, on Otok Krk.	45° 14.3' N 14° 35.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12		Masonry tower, red square daymark, dwelling; 26.	Visible 106°-346°.
12380 <i>E 2895</i>	--Rt Turnac, W. side.	45° 13.5' N 14° 36.2' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	29 9		White tower, red daymark; 20.	
12384 <i>E 2896</i>	--Rt Ertak, E. side.	45° 13.2' N 14° 36.6' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	29 9		White tower, column, gallery, dwelling; 20.	
12388 <i>E 2906</i>	-Crikvenica, E. side of channel, S. mole, head.	45° 10.3' N 14° 41.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8		Green square tower, column, gallery; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
-Otok Krk:							
12392 <i>E 2898</i>	--Soline, near Cape Glavati.	45° 09.7' N 14° 38.1' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	4	Stone tower, red daymark; 20.	Visible 090°-248°.
12396 <i>E 2899</i>	---Hrid Crni, about 0.5 km. SW. of Soline.	45° 09.6' N 14° 37.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	13 4	3	Red tower, column; 10.	Visible 051°-256°.
12400 <i>E 2900</i>	--Klimno, mole, head.	45° 09.4' N 14° 37.2' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower, column, gallery; 16.	
12404 <i>E 2902</i>	--Uvala Stipanjanja, Silo, breakwater.	45° 08.9' N 14° 39.9' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	3	Green tower, column, gallery; 16.	
12408 <i>E 2901</i>	---Rt Silo.	45° 09.4' N 14° 40.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	7	Stone tower; 30.	
12412 <i>E 2908</i>	-Selce, pier, head.	45° 09.4' N 14° 43.1' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	White tower, column, gallery; 20.	Visible 036°-306°.
12416 <i>E 2910</i>	-Rt Tokal.	45° 08.3' N 14° 44.4' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	66 20	9	White tower, column; 23.	
12424 <i>E 2913</i>	--Breakwater, head.	45° 07.6' N 14° 47.1' E	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	16 5	3	Red column.	Visible 040°-324°.
12428 <i>E 2903.3</i>	-Vrbnik, mole, head.	45° 04.7' N 14° 40.4' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red tower, column, gallery; 16.	
12432 <i>E 2916</i>	-Hrid Sv. Anton, on SW. extremity.	45° 05.8' N 14° 50.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	29 9	6	Square stone tower; 13.	
12436 <i>E 2923</i>	-Senj, Sv. Ambroz mole, head.	44° 59.5' N 14° 53.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	5	Stone tower, red top; 30.	
12444 <i>E 2922</i>	-Marija Art breakwater, head.	44° 59.4' N 14° 53.8' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	34 10	8	Stone tower; 30.	
12448 <i>E 2926</i>	-Jurjevo, mole, head.	44° 55.8' N 14° 55.2' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	Stone tower, red column; 16.	Visible 093°-183°.
12452 <i>E 2928</i>	-Lukovo Otocko, Rt Malta.	44° 51.5' N 14° 53.1' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	29 9	8	Square stone tower; 13.	
12458 <i>E 2931</i>	-Starigard.	44° 47.8' N 14° 52.9' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White tower; 23.	
KVARNERIC:							
12460 <i>E 2887</i>	-Rt Strazica, Otok Prvic, NW. extremity.	44° 56.0' N 14° 46.1' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	75 23	9	Square stone tower; 16.	
12464 <i>E 2886.4</i>	-Rt Skuljica, Otok Krk, SE. extremity.	44° 56.5' N 14° 45.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	59 18	6	Red tower; 16.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12468 <i>E 2886</i>	-Otocic Galun, NE. extremity.	44° 56.5' N 14° 40.6' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	39 12	8	Square stone tower, white pedestal; 26.	
KANAL SREDNJA VRATA:							
12472 <i>E 2872</i>	-Rt Veli Pin, Otok Plavnik, W. extremity.	44° 58.9' N 14° 29.1' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	66 20	10	Stone tower, white pedestal; 39.	<b>AIS</b> (MMSI No 992381430).
12473 <i>E 2885</i>	-Otok Plavnik, S.	44° 57.4' N 14° 33.4' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red post.	Visible 320°-308°.
VELEBITSKI KANAL:							
12476 <i>E 2904</i>	--Baska, mole, head.	44° 58.1' N 14° 45.6' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	33 10	4	Square tower, green daymark; 26.	
12480 <i>E 2905</i>	---W. mole, head.	44° 58.1' N 14° 45.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	
KVARNERIC:							
12484 <i>E 2884</i>	--Rt Negrit.	44° 58.8' N 14° 37.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	5	Green tower, column, gallery, dwelling; 16.	
12488 <i>E 2880</i>	--Puntarska Draga, on Rt Pod Strazica.	45° 00.7' N 14° 37.4' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	29 9	5	White tower, column, gallery, pedestal; 16.	
12492 <i>E 2882</i>	---Punat, breakwater, head.	45° 01.3' N 14° 37.7' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	20 6	3	Green tower, column, gallery, dwelling; 16.	Visible 082°-294°.
12496 <i>E 2874</i>	--Krk, mole, head.	45° 01.4' N 14° 34.6' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	26 8	3	Red square tower; 26.	
12500 <i>E 2876</i>	---E. mole, head.	45° 01.5' N 14° 34.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower, column; 16.	
KANAL SREDNJA VRATA:							
12504 <i>E 2870.4</i>	--Rt Sv. Mikula.	45° 01.3' N 14° 29.9' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green tower, column, gallery; 16.	
12508 <i>E 2870</i>	--Rt Manganel.	45° 04.4' N 14° 26.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	43 13	8	Square stone tower, pedestal; 26.	
12512 <i>E 2869</i>	--Rt Glavotok.	45° 05.4' N 14° 26.1' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	3	Red tower, column; 20.	
RIJECKI ZALIV:							
12524 <i>E 2867</i>	--Njivice, mole, head.	45° 09.9' N 14° 32.5' E	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	23 7	3	White tower, column, gallery; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12528 <i>E 2866</i>	--Tenka Punta.	45° 13.7' N 14° 31.8' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	Square stone tower, pedestal; 23.	<b>AIS</b> (MMSI No 992381520).
12532 <i>E 2863</i>	--Kijac.	45° 14.2' N 14° 32.2' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	46 14	8	Red round tower; 16.	Visible 331°-224°.
12536 <i>E 2864</i>	---Range, front.	45° 12.7' N 14° 33.1' E	<b>Iso.G.</b> period 2s	75 23	11	White column, red top.	
12540 <i>E 2864.1</i>	----Rear, 490 meters 151° from front.	45° 12.5' N 14° 33.2' E	<b>Oc.G.</b> period 5s lt. 3s, ec. 2s	105 32	11	White column, red top.	
VELEBITSKI KANAL:							
12544 <i>E 2888</i>	-Rt Sajalo, Otok Goli, NW point.	44° 51.1' N 14° 48.0' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	5	Stone tower; 16.	
12547 <i>E 2937</i>	-Stinica.	44° 43.2' N 14° 53.4' E	<b>Fl.(3)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 8	4	White tower; 26.	Visible 052°-012°.
12548 <i>E 2940</i>	-Jablanac, on Rt Gradic, entrance, N. side.	44° 42.3' N 14° 53.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	10 3	4	Red square tower, column; 16.	
12552 <i>E 2941</i>	--Entrance, S. side.	44° 42.3' N 14° 54.2' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower, column, gallery; 16.	
12556 <i>E 2942</i>	-Plicina Glavina.	44° 42.0' N 14° 52.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	4	ISOLATED DANGER BRB, tower, topmark; 13.	
12558 <i>E 2942.3</i>	-Rt Glavina.	44° 42.3' N 14° 52.0' E	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	26 8	4	Green tower, gallery, pedestal; 20.	
12560 <i>E 2942.4</i>	-Misnjak.	44° 42.3' N 14° 51.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower; 16.	Visible 132°-288°.
12564 <i>E 2942.5</i>	-Luka Misnjak.	44° 42.4' N 14° 51.6' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	20 6	3	White tower, column, gallery; 16.	Visible 254°-016°.
12568 <i>E 2938</i>	--Rt Stokic, N. of port.	44° 42.5' N 14° 53.5' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	164 50	8	White tower, concrete base; 20.	Visible 346°-174°.
12576 <i>E 2943</i>	-Hrid Pohlilb.	44° 41.9' N 14° 50.5' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	5	Square stone tower; 16.	Visible 275°-168°.
12578 <i>E 2943.9</i>	-Plicina Prizna.	44° 36.2' N 14° 57.9' E	<b>Q.(2)W.</b> period 5s	26 8	8	ISOLATED DANGER BRB, tower, topmark; 26.	
12580 <i>E 2944</i>	-Rt Jurisnica.	44° 34.4' N 14° 59.3' E	<b>Fl.(3)W.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	33 10	9	White tower; 23.	
12584 <i>E 2948</i>	-Karlobag, S. mole, head.	44° 31.4' N 15° 04.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	Green square tower, column, gallery; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
KVARNERIC:							
-Otok Rab:							
12588 <i>E 2975</i>	--Lopar, mole, head.	44° 50.2' N 14° 43.3' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	White tower, post, gallery; 23.	
12592 <i>E 2976</i>	--Rt Sorinj.	44° 50.7' N 14° 40.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	6	White tower; 23.	
12594 <i>E 2977</i>	--Supetarska, breakwater, head.	44° 48.2' N 14° 43.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red tower, column, gallery.	
12596 <i>E 2978</i>	--Rt Kalifront.	44° 47.4' N 14° 39.3' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	36 11	8	White tower, gallery, pedestal; 16.	
12600 <i>E 2982</i>	--Uvala Kristofor, entrance, W. side.	44° 45.5' N 14° 41.7' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	8	White tower, gallery, pedestal; 16.	
12604 <i>E 2995</i>	-Otok Dolin, on Donji Rt.	44° 44.6' N 14° 46.2' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	White metal tower, column, gallery; 20.	
12608 <i>E 2984</i>	--Luka Rab, Plicina Frkanj.	44° 44.9' N 14° 45.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	4	Green tower, gallery, white concrete pedestal; 13.	
12612 <i>E 2986</i>	---Rt Frkanj.	44° 45.1' N 14° 45.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	16 5	4	Square stone tower, red topmark; 13.	
12616 <i>E 2994</i>	---Otocic Tunera, N. extremity.	44° 45.1' N 14° 46.0' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	46 14	4	Stone tower, green top; 23.	Visible 349°-194°.
12620 <i>E 2992</i>	--Luka Rab, on Rt Sveti Ante, extremity of shoal.	44° 45.2' N 14° 45.7' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Red tower, column, gallery; 20.	
12624 <i>E 2988</i>	---Mole, head.	44° 45.2' N 14° 45.8' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	23 7	3	Green tower, column, gallery; 20.	
12632 <i>E 2998</i>	-Otocic Dolfin.	44° 41.5' N 14° 41.2' E	<b>Fl.(2)W.R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	W. 10 R. 7	White square tower, column, gallery; 16.	R. 138°-153°, W.-138°.
12640 <i>E 2995.6</i>	-Uvala Stara Novallja, Rt Deda.	44° 36.3' N 14° 52.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	5	Square stone tower, white pedestal; 20.	
12644 <i>E 2997</i>	--Luka Novallja, pier, S. head.	44° 33.3' N 14° 53.0' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	White tower, column, gallery; 16.	Visible 085°-096°.
12646 <i>E 2946</i>	-Zigljen.	44° 34.9' N 14° 57.1' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower, column, gallery; 16.	Visible 157°-219°.
12646.5 <i>E 2945</i>	--NW. point.	44° 34.9' N 14° 57.1' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	39 12	6	Red round tower, gallery, red concrete base; 23.	Visible 019°-270°.
12647 <i>E 2995.8</i>	-Rt Zali.	44° 36.7' N 14° 54.6' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	8	White round tower, concrete pedestal; 26.	Visible 091°-308°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
VIRSKO MORE:							
-Otok Pag:							
12648 <i>E 3075</i>	--Uvala Mandre.	44° 29.0' N 14° 54.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	7	White tower, column, gallery; 16.	
12656 <i>E 3077</i>	--Rt Zaglav.	44° 23.6' N 15° 02.3' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	White tower, column, gallery; 16.	
12660 <i>E 3078</i>	--Luka Kosljun, mole, root.	44° 23.9' N 15° 04.6' E	<b>Fl.R.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	R. G. 3 2	Green tower, column, gallery; 16.	G. 353°-027°, R.-353°.
12664 <i>E 3080</i>	--Luka Nova Povljana.	44° 21.0' N 15° 05.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	5	Red tower, column, gallery; 20.	
12668 <i>E 3082</i>	--Bitve.	44° 19.0' N 15° 06.7' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Square stone tower, red daymark; 20.	
12672 <i>E 3084</i>	--Rt Prutna.	44° 17.5' N 15° 10.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Pyramidal stone tower, red gallery; 20.	Visible 121°-031°.
12676 <i>E 3083</i>	--Plicina Prutna, shoal, SW. edge.	44° 17.6' N 15° 09.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Square stone tower, red daymark; 20.	Visible 296°-180°.
12680 <i>E 3087</i>	-Otocic Sikavic Mali, on SE. point.	44° 17.7' N 15° 14.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	
12684 <i>E 3086</i>	-Otocic Misjak, on NW. point.	44° 18.2' N 15° 11.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Pyramidal stone tower, green gallery; 20.	
12688 <i>E 2953</i>	--Pag Luka, near Rt Golija.	44° 26.8' N 15° 03.1' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	7	Red tower, column, gallery; 16.	
12692 <i>E 2954</i>	---S. mole.	44° 26.6' N 15° 03.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	2	Red tower, column, gallery; 16.	
12696 <i>E 2951</i>	--Rt Zaglav.	44° 30.0' N 15° 00.4' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	29 9	4	Green tower, column, gallery; 20.	
12700 <i>E 2952</i>	--Rt Sveti Nikola.	44° 28.8' N 15° 02.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	4	Red tower; 16.	
12704 <i>E 2950</i>	--Rt Kristofor.	44° 28.6' N 15° 04.8' E	<b>Fl.W.</b> period 5s fl. 5s, ec. 4.5s	203 62	7	White octagonal tower; 20.	
12708 <i>E 2960</i>	-Hrid Konj.	44° 25.3' N 15° 12.8' E	<b>Fl.(3)W.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	23 7	6	White tower, column, gallery; 20.	
12712 <i>E 2962</i>	-Kruscica Dukoba, on Rt Duga.	44° 21.0' N 15° 18.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	5	Red tower, column, gallery; 16.	
12716 <i>E 3088</i>	-Ljubacka Vrata, on Rt Ostrljak, entrance, E. side.	44° 19.4' N 15° 15.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	4	Square stone tower, green daymark; 20.	Visible 335°-213°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12720 E 3087.4	--Rt Fortica, entrance, W. side.	44° 19.3' N 15° 15.4' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	21 6	3	Square stone tower, red daymark; 13.	
12724 E 2961	-Rt Debela Nozica.	44° 19.9' N 15° 16.0' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	6	Pyramidal stone tower, gallery; 20.	
12728 E 2964	-Otocic Razanac Veli.	44° 19.0' N 15° 21.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	52 16	9	White tower, column, gallery; 20.	
12732 E 2966	-Razanac, breakwater, head.	44° 17.1' N 15° 20.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower, column, gallery; 16.	
12736 E 2970	-Starigrad, breakwater, head.	44° 17.7' N 15° 26.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	
12740 E 2972	-Vinjerac, mole, head.	44° 15.5' N 15° 27.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column, gallery; 16.	Visible 151°-135°.
12744 E 2971	-Rt Pisak.	44° 16.1' N 15° 28.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	
NOVSKO ZDRILO:							
12748 E 2973	-Rt Baljenica.	44° 14.8' N 15° 31.4' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	5	Red square tower; 13.	
12749 E 2972.5	-Rovanjska.	44° 15.0' N 15° 32.2' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red tower; 20.	
12752 E 2973.1	-Rt Korotanja.	44° 14.6' N 15° 31.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	29 9	2	Green tower, column, gallery, pedestal; 16.	
12756 E 2973.3	-Rt Vranine, W. shore.	44° 14.3' N 15° 31.2' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	2	Green tower, column, gallery, pedestal; 16.	
12760 E 2973.4	-Rt Brzac, E. shore.	44° 14.0' N 15° 31.0' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	2	Red tower, column, gallery, pedestal; 16.	
12764 E 2973.6	-Rt Zdrijac, W. shore.	44° 13.2' N 15° 32.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green tower, column, gallery; 16.	
NOVIGRADSKO MORE:							
12767 E 2974.3	-Posedarje.	44° 12.4' N 15° 28.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, gallery; 20.	Visible 263°-189°.
12768 E 2974	-Luka Novigrad, on Rt Sveti Nikola.	44° 11.3' N 15° 33.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	4	Stone tower, concrete dwelling; 20.	
KVARNER:							
12772 E 3044	-Otocic Grujica.	44° 24.6' N 14° 34.1' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	56 17	10	Square tower, dwelling; 49.	Reserve light F.W. 8M. AIS (MMSI No 992381010).
	-RACON		<b>O(---)</b>		20		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
OTOK PREMUDA:							
12780 E 3046	-Otocic Kamenjak, N. head.	44° 21.4' N 14° 34.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	7	White tower, gallery, pedestal; 26.	
12784 E 3048	-Luka Krijal, N. mole, head.	44° 20.2' N 14° 35.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	White tower, column, gallery; 16.	
12788 E 3050	-Uvala Loza.	44° 20.8' N 14° 36.1' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower, column, gallery; 16.	
VIRSKO MORE:							
-Sibanski Kanal:							
--Otok Silba:							
12792 E 3054	---Zalic, mole, head.	44° 22.4' N 14° 41.5' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	3	White tower, column, gallery; 16.	
12796 E 3058	---Rt Arat.	44° 20.8' N 14° 43.2' E	<b>Q.(6)+L.Fl.W.</b> period 15s	30 9	8	S. CARDINAL YB, tower, topmark; 30.	
12800 E 3052	--Otocic Grebeni.	44° 19.9' N 14° 41.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	69 21	6	Square stone tower; 13.	<b>AIS</b> (MMSI No 992381340).
-Olipiski Kanal:							
12804 E 3060	--Silbinski Kanal, breakwater, head.	44° 22.5' N 14° 42.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red square tower, column, gallery; 23.	
12808 E 3064	--Otocic Morovnik.	44° 25.9' N 14° 43.9' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	5	Square stone tower; 26.	
12812 E 3066	--Luka Olib, breakwater, head.	44° 22.8' N 14° 46.5' E	<b>Fl.W.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	White tower, column, gallery; 20.	R. 144°-165°, W.-144°.
-Pohlibski Kanal:							
12816 E 3072	--Ostrov Skrda, NW. point.	44° 28.8' N 14° 50.9' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	49 15	10	Square stone tower, pedestal; 39.	
12820 E 3068	--Otocic Pohlib.	44° 23.7' N 14° 53.6' E	<b>Fl.W.</b> period 5s fl. 5s, ec. 4.5s	52 16	9	White tower, column, gallery, stone base; 26.	
12824 E 3081	-Otok Vir, on W. side.	44° 18.2' N 15° 01.6' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	69 21	11	Stone tower, gallery, dwelling; 69.	Visible 315°-163°. <b>AIS</b> (MMSI No 992381200).
OTOK IST:							
12825 E 3065	-Plic Krizica.	44° 17.6' N 14° 43.8' E	<b>Fl.(2+1)R.</b> period 6s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 3.5s	20 6	4	Red tower, green band; 20.	Visible 215°-138°.
12826 E 3089	-Uvala Kosiraca, head.	44° 16.8' N 14° 45.4' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White tower, column, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12828 E 3090	-Uvala Siroka, mole, head.	44° 16.2' N 14° 46.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green tower, column, gallery; 16.	
OTOK MOLAT:							
12832 E 3092	-Rt Vranac.	44° 16.0' N 14° 48.2' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	43 13	5	White conical tower, gallery, pedestal; 26.	
12835 E 3090.5	-Rt Tureta.	44° 15.8' N 14° 47.3' E	<b>Fl.(2)W.R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	26 8	4	Red tower, gallery, concrete base; 16.	R. 242°-024°, W.-041°, R.- 082°.
12836 E 3093	-Rt Bonaster, Otok Molat, SW. point.	44° 12.0' N 14° 50.3' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	9	Pyramidal stone tower; 20.	
12844 E 3094.4	-Otocic Golac, on N. shore.	44° 11.3' N 14° 50.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	6	White tower, column, gallery; 16.	Visible 066°-280°.
12848 E 3097.4	-Otocic Trata.	44° 12.7' N 14° 55.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	6	Red tower, column, gallery; 20.	
12852 E 3096	-Otocic Vrtlac.	44° 12.1' N 14° 55.5' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	5	White tower, column, gallery; 16.	
12856 E 3095	-Otocic Tun Mali.	44° 11.5' N 14° 53.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	27 8	3	Red tower, column, gallery; 16.	
12860 E 3097	-Otok Tun Veli.	44° 11.3' N 14° 54.2' E	<b>Fl.W.G.</b> period 5s fl. 0.5s, ec. 4.5s	88 27	W. 7 G. 4	White conical tower, gallery; 23.	W. 092°-099°30', G.-213°, W.-223°, G.-092°.
DUGI OTOK:							
12864 E 3098	-Rt Veli Rat.	44° 09.1' N 14° 49.1' E	<b>Fl.(2)W.</b> period 20s fl. 0.8s, ec. 4.4s fl. 0.8s, ec. 14s	134 41	22	Brown tower, gallery, dwelling; 118.	Reserve light range 10M. <b> AIS</b> (MMSI No 992381060).
12868 E 3099	-Zaliv Pantera, Rt Tanki.	44° 09.1' N 14° 50.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column, gallery; 20.	Visible 189°-120°. Fl.G. 3s 6m 3M beacon marks entrance NE.
12870 E 3099.5	-Zverinacki Kanal.	44° 10.3' N 14° 52.5' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	21 6	4	White tower, gallery; 118.	Visible 132°-318°.
12872 E 3134	-Otocic Sestrice.	43° 51.2' N 15° 12.3' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	154 47	20	White tower, red diagonal stripes, dwelling; 85.	<b> AIS</b> (MMSI No 92381150). Reserve light range 12M.
12874 E 3133.5	-Rt Vidilica.	43° 52.0' N 15° 12.0' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	3	Red tower; 20.	Visible 180°-355°.
12874.5 E 3133	-Hrid Skoljic.	43° 53.0' N 15° 12.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower, column, gallery; 16.	Visible 014°-216°.
12875 E 3132.8	-Rt Proversa.	43° 53.3' N 15° 12.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Red tower; 20.	
12875.5 E 3132.5	-Rt Cuska.	43° 53.8' N 15° 13.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red tower; 20.	Visible 180°-028°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
SREDNJI KANAL:							
-Dugi Otok:							
12876 E 3100	--Bozava, on Rt Sv. Nedjela.	44° 08.5' N 14° 54.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	White tower, column, gallery; 16.	
12877 E 3121.3	--Otocic Utra.	44° 05.4' N 14° 59.4' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column, gallery; 20.	
12878 E 3121.5	--Rt Kamik.	44° 05.3' N 14° 59.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red tower, gallery; 16.	
12879 E 3121.7	--Lucina.	44° 05.0' N 14° 59.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	
12880 E 3122	--Brbinj, on Rt Koromasnjak.	44° 04.4' N 15° 00.5' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	28 8	4	White tower, column, gallery; 20.	
12884 E 3120	-Otok Rava, on Rt Garmina.	44° 01.4' N 15° 03.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower, gallery; 16.	
12888 E 3119	-Otocic Maslinovac.	44° 00.1' N 15° 05.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	95 29	4	White tower, gallery; 16.	
12892 E 3124	--Uvala Zmanskica.	43° 58.3' N 15° 07.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green round tower, column, gallery; 16.	
12897 E 3127	---Harbor, E. head.	43° 56.2' N 15° 10.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green tower, column, gallery; 16.	
12898 E 3127.4	---N. side of reef.	43° 57.0' N 15° 08.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	4	Red tower; 16.	
12902 E 3131	--S. breakwater, head.	43° 56.1' N 15° 10.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower, column, gallery.	
12904 E 3132	-Otok Lavdara.	43° 56.7' N 15° 11.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	5	White tower, column, gallery; 23.	Visible 005°-276°.
12906 E 3132.3	-Otocic Lavdara.	43° 54.9' N 15° 13.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	8	White tower, gallery; 20.	
12908 E 3106	--Otocic Tri Sestrice, on SE. islet.	44° 10.3' N 15° 00.6' E	<b>Fl.(2)W.R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	W. 8 R. 6	Square stone tower, dwelling; 52.	R. 225°-234°, W.-225°. AIS (MMSI No 992381330).
12912 E 3107	--Otok Rivanj, on Rt Zanavin.	44° 10.0' N 15° 01.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	White tower, column, gallery; 16.	Visible 349°-209°.
12916 E 3107.2	---Harbor, mole, head.	44° 09.1' N 15° 01.8' E	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 7	4	Red tower, column, gallery; 16.	
12918 E 3107.5	-Rt Rivanjski.	44° 08.5' N 15° 03.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	Red tower, column, gallery; 20.	Visible 172°-091°.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
12920 <i>E 3108</i>	--Otok Sestrunj, on Rt Trska.	44° 08.8' N 15° 01.5' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	10	Square stone tower; 26.	Obscured from 323° by Otopica Parenak.
12922 <i>E 3121</i>	--Plicina Beli.	44° 05.3' N 15° 02.5' E	<b>Fl.(2)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	23 7	6	ISOLATED DANGER BRB, column, gallery, topmark; 20.	<b>AIS</b> (MMSI No 992381550).
12924 <i>E 3110</i>	--Iz Veli.	44° 03.1' N 15° 06.7' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	4	Red tower, column, gallery; 16.	
12928 <i>E 3112</i>	--Uvala Komaseva, mole, head.	44° 01.7' N 15° 08.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red tower, column, gallery; 16.	
12932 <i>E 3115</i>	-Otocic Mrtovnjak.	44° 00.6' N 15° 10.5' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	89 27	7	White tower, column, gallery; 16.	
12936 <i>E 3116</i>	-Otocic Karantunic.	44° 00.5' N 15° 14.3' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	98 30	9	White tower; 16.	
12938 <i>E 3116.3</i>	-Shoal beacon.	43° 56.7' N 15° 15.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	3	ISOLATED DANGER BRB, column, topmark; 16.	
12940 <i>E 3116.2</i>	-Otocic Balabra Vela.	43° 56.8' N 15° 16.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	Square stone tower; 13.	Visible 090°-313°.
12944 <i>E 3116.4</i>	-Hrid Galigolica.	43° 52.6' N 15° 22.2' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	7	Square stone tower, pedestal; 26.	Visible 155°-325°.
12948 <i>E 3117</i>	-Otocic Kosara, W. head.	43° 53.0' N 15° 24.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	11	White tower, column, gallery, pedestal; 23.	
12950 <i>E 3118</i>	-Otocic Zizanj.	43° 52.8' N 15° 26.3' E	<b>Q.(3)W.</b> period 10s	20 6	3	E. CARDINAL BYB, beacon, topmark; 16.	
12952 <i>E 3106.4</i>	-Plicina Sajda.	44° 11.2' N 15° 02.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	5	ISOLATED DANGER BRB, tower, topmark; 13.	<b>AIS</b> (MMSI No 992381560).
12954 <i>E 3150</i>	-Rt Sveti Petar.	44° 09.5' N 15° 03.8' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column, gallery; 20.	Visible 020°-302°.
12954.5 <i>E 3151</i>	--Rt Sveti Petar, SW.	44° 09.2' N 15° 03.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column, gallery; 20.	Visible 344°-200°.
12956 <i>E 3152</i>	-Ugljan.	44° 07.8' N 15° 06.4' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red tower, column, gallery; 16.	Visible 220°-286° and 352°-090°.
12960 <i>E 3154</i>	--Lukoran, quay, N. head.	44° 06.3' N 15° 09.1' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red tower, column, gallery; 16.	Visible 018°-168°.
12964 <i>E 3156</i>	--Sutomiscica, on Rt Sveti Grgur.	44° 06.0' N 15° 10.2' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red tower; 20.	

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<b>CROATIA</b>							
12968 E 3157	--Poljana, on the shoal.	44° 05.5' N 15° 11.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower, column, gallery; 16.	
12972 E 3158	--Preko, breakwater, head.	44° 04.9' N 15° 11.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	Visible 205°-125°.
12976 E 3160	--Otocic Oslijak, NE. point.	44° 04.7' N 15° 12.6' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	8	White tower; 30.	
12980 E 3164	--Kali, E. mole, head.	44° 04.0' N 15° 12.2' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column, gallery; 16.	
12984 E 3165	--Gazemica.	44° 05.2' N 15° 15.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green tower, column, gallery.	
12985 E 3166	--Kukljica.	44° 02.1' N 15° 15.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green tower, column, gallery; 16.	
12986 E 3167	--Mole, head.	44° 02.0' N 15° 15.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower, column, gallery; 20.	
12988 E 3140	-Luka Petrcane, on Rt Radman.	44° 10.8' N 15° 09.3' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	W. R. 7 4	Square masonry tower; 16.	R. 141°-262°, W.-141°.
12992 E 3142	<b>-Ostri Rat.</b>	44° 07.8' N 15° 12.3' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	46 14	15	Stone tower, spiral staircase; 46.	Reserve light range 7M.
12996 E 3144	-Zadar, breakwater, head.	44° 07.1' N 15° 13.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	White tower, red bands, red cupola; 16.	
13000 E 3148	--Istarske Obala, NW. side.	44° 07.1' N 15° 13.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	4	White tower, green bands, green cupola; 16.	
13003 E 3167.5	-Otocic Misnjak.	44° 01.6' N 15° 15.8' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	8	White tower, gallery; 20.	
13004 E 3168	-Sukosan, on Rt Podvara.	44° 02.6' N 15° 17.8' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	W. R. 8 5	White square tower; 16.	R. 207°-318°, W.-207°.
PASMANSKI KANAL:							
-Otok Pasman:							
13010 E 3172	--Nevidane.	43° 58.9' N 15° 20.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red tower, column, gallery; 16.	
13016 E 3174	-Otocic Galesnjak, shoal on S. side.	43° 58.5' N 15° 23.0' E	<b>Fl.G.</b> period 3s fl. 0.6s, ec. 2.4s	23 7	2	Green tower, column, gallery; 16.	
13032 E 3180	-Otocic Babac, W. point.	43° 57.4' N 15° 23.6' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	10	Stone tower, dwelling; 20.	Reserve light range 7M.
13044 E 3184	-Otocic Planac, N. point.	43° 56.4' N 15° 25.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	Visible 051°-321°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13048 <i>E 3186</i>	-Otocic Cavatul, off NE. extremity.	43° 56.3' N 15° 24.8' E	<b>Fl.G.</b> period 3s fl. 0.6s, ec. 2.4s	20 6	3	Green tower, gallery; 20.	
13052 <i>E 3185</i>	-Biograd, NW. mole, head.	43° 56.2' N 15° 26.3' E	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 7	3	White tower, column, gallery; 16.	
13056 <i>E 3188</i>	-Otocic Sv. Katarina, SW. point.	43° 55.9' N 15° 25.7' E	<b>Fl.(2)W.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	28 9	8	White tower, concrete base, dwelling; 16.	Visible 309°-142°.
13058 <i>E 3191</i>	-Tkon.	43° 55.4' N 15° 25.1' E	<b>Fl.(2)R.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	4	Red tower, column, gallery; 16.	
13060 <i>E 3193</i>	-Otocic Ostarije, island, S. side.	43° 54.7' N 15° 28.0' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	7	White tower, column, gallery; 16.	Visible 292°-140°.
13062 <i>E 3194</i>	-Pakostane.	43° 54.3' N 15° 30.5' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green tower, column, gallery; 16.	
13063 <i>E 3197</i>	Vrgada.	43° 51.5' N 15° 30.2' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Red tower, column, gallery; 20.	Visible 183°-290° and 343°-155°.
13064 <i>E 3196</i>	Otocici Artice.	43° 51.9' N 15° 31.5' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	24 7	7	White tower, column, gallery, pedestal; 20.	Visible 302°-228°.
PIROVACKI ZALIV:							
13068 <i>E 3205</i>	-Plicina Kusija.	43° 51.6' N 15° 33.3' E	<b>Q.(6)+L.Fl.W.</b> period 15s	20 6	5	S. CARDINAL YB, tower, topmark; 13.	
13072 <i>E 3214</i>	-Pirovac, quay, S. head.	43° 48.9' N 15° 40.0' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green tower, column, gallery; 16.	Visible 140°-070°.
13076 <i>E 3202</i>	Otocic Prisnjak, near W. extremity.	43° 49.5' N 15° 33.5' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	62 19	9	Stone tower, dwelling; 49.	Visible 249°-146°. <b>AIS</b> (MMSI No 992381140).
13080 <i>E 3200</i>	Hrid Misine (Kamicac).	43° 48.7' N 15° 33.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	29 9	5	Red tower, column, gallery, pedestal; 16.	
13084 <i>E 3206</i>	-Hramina, head of mole, N. side of Otok Murter.	43° 49.4' N 15° 35.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	2	Red tower, column, gallery; 16.	
13088 <i>E 3204</i>	-Otocic Tegina, NE. point.	43° 50.2' N 15° 35.4' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	4	White round tower, metal column, gallery, pedestal; 16.	
MURTERSKI KANAL:							
13092 <i>E 3208</i>	-Betina, landing mole, head.	43° 49.3' N 15° 36.3' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower, column, gallery; 16.	
13096 <i>E 3212</i>	-Rt Rat.	43° 49.4' N 15° 36.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	32 10	5	White tower; 30.	
13104 <i>E 3218</i>	--Mole, head.	43° 47.8' N 15° 38.7' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13112 E 3234	-Greben Bacvica.	43° 44.9' N 15° 42.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	3	ISOLATED DANGER BRB, tower, topmark; 16.	
13116	-Plicina Mijoka Buoy.	43° 45.3' N 15° 39.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s		5	ISOLATED DANGER BRB, pillar, topmark.	
13120 E 3220	-Otocic Maslinjak.	43° 46.1' N 15° 40.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	57 17	3	Green conical tower, gallery; 23.	Visible 282°-195°.
13124 E 3219	Rt Murteric, SW. side of Otok Murter.	43° 46.5' N 15° 37.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	62 19	3	Green tower, column, gallery; 20.	
13128 E 3224	Otocic Kukuljari, E. islet.	43° 45.6' N 15° 38.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	10	White tower, column, gallery, concrete base; 16.	
13132 E 3222	Sv. Nikola, head of mole (Otok Murter).	43° 46.6' N 15° 37.8' E	<b>Fl.G.</b> period 5s fl. 0.3s, ec. 4.7s	16 5	4	Green tower, column, gallery; 13.	
13136 E 3225	Otok Smokvica Vela, island, N. point.	43° 44.0' N 15° 28.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	43 13	5	Square stone tower; 26.	
13138 E 3225.1	Otocic Babina Guzica.	43° 42.6' N 15° 29.3' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Green tower; 20.	Visible 215°-140°.
13140 E 3225.2	Otocic Mrtovnjak.	43° 42.5' N 15° 32.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	10	Square stone tower; 26.	
13142 E 3225.3	Cavlin Shoal.	43° 44.5' N 15° 33.4' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	6	ISOLATED DANGER BRB, beacon, topmark; 20.	<b>AIS</b> (MMSI No 992381470).
13143 E 3229.75	Hrid Mala Mare.	43° 42.8' N 15° 38.0' E	<b>Fl.(2)W.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	5	ISOLATED DANGER BRB, beacon, topmark; 20.	
APPROACHES TO SIBENIK:							
13144 E 3231	-Otok Tijat, on Rt Tijascica.	43° 42.4' N 15° 46.4' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	42 13	7	Square stone tower; 26.	Visible 265°-128°.
13148 E 3230.5	Obonjon.	43° 40.8' N 15° 47.3' E	<b>Fl.(3)R.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	20 6	4	Red tower, column, gallery; 16.	
13152 E 3230	Plicina Sestre, in Zlarinski Kanal.	43° 41.1' N 15° 48.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	4	ISOLATED DANGER BRB, tower, topmark; 16.	
13156 E 3240	-Otok Prvic, Uvala Prvicluka, mole, head.	43° 43.4' N 15° 47.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column, gallery; 16.	
13160 E 3238	--Pivic Sepurieve, mole, head.	43° 43.9' N 15° 47.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	3	Green tower, column, gallery; 16.	Visible 337°-129°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
LUKA SIBENIK:							
-Sibenski Kanal:							
13164 <i>E 3232</i>	--Tribunj.	43° 45.2' N 15° 44.6' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green tower, column, gallery; 16.	
13164.4 <i>E 3232.5</i>	---Breakwater, head.	43° 45.0' N 15° 44.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Green tower, column, gallery; 16.	Visible 273°-136°.
13168 <i>E 3236</i>	--Vodice, S. mole, head.	43° 45.3' N 15° 46.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower, column, gallery; 16.	Visible 096°-033°.
-Sibenska Vrata:							
13172 <i>E 3244</i>	--Luka Zlarin, mole, head.	43° 42.0' N 15° 50.0' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	2	White square tower, column, gallery; 23.	
13176 <i>E 3243</i>	--Rt Konj, Otok Lupac, SE. point.	43° 42.9' N 15° 48.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	2	Red tower, column, gallery; 16.	
13180 <i>E 3242</i>	--Plicina Rozenik.	43° 42.8' N 15° 49.6' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	6	Green tower, column, gallery; 16.	<b>AIS</b> (MMSI No 992381360).
13184 <i>E 3248</i>	--Rt Jadrija, entrance, N. side.	43° 43.3' N 15° 51.0' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	9	Stone tower, gallery, dwelling; 39.	Visible 160°-098°. <b>AIS</b> (MMSI No 992381210). Reserve light range 6M. <b>Horn:</b> 2 bl. ev. 20s (bl. 4s, si. 2s, bl. 4s, si. 10s).
-Kanal Sv Ante:							
13188 <i>E 3250</i>	--Hrid Rocni, entrance, S. side.	43° 43.2' N 15° 51.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column, gallery; 16.	
13192 <i>E 3251</i>	--Fort Sv. Nikola, NW. side.	43° 43.3' N 15° 51.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	19 6	4	Green tower; 16.	Visible 045°-234°.
13196 <i>E 3256</i>	--Rt Debeli, N. side.	43° 43.5' N 15° 51.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	21 6	1	Red tower, column, gallery; 16.	Visible 240°-050°.
13200 <i>E 3252</i>	--Rt Senisna, S. shore.	43° 43.5' N 15° 51.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	4	Green round tower, gallery; 23.	
13204 <i>E 3260</i>	--Rt Svet Ante, S. shore.	43° 43.6' N 15° 52.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	29 9	4	Green round tower, gallery, pedestal; 23.	
13208 <i>E 3262</i>	--Rt Svet Kriz, N. shore.	43° 43.7' N 15° 52.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red round tower, gallery, pedestal; 16.	Visible 243°-027°.
13212 <i>E 3258</i>	--Rt Baba, N. shore.	43° 43.7' N 15° 52.1' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	1	Red tower, column, gallery; 16.	
13216 <i>E 3263</i>	--Rt Juzni Turan, S. shore.	43° 43.7' N 15° 53.1' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	Green tower, column, gallery; 16.	
13220 <i>E 3264</i>	--Plicini Paklena.	43° 43.7' N 15° 53.2' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	19 6	3	Green tower, column, gallery; 16.	
13224 <i>E 3266</i>	-Sibenik, on Gata Krk.	43° 45.0' N 15° 53.5' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	White tower, column, gallery; 16.	

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<b>CROATIA</b>							
13231 E 3265.8	-Gat Vrulje.	43° 43.7' N 15° 53.7' E	<b>Fl.(3)W.</b> period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	30 9	2	White tower, column and gallery.	
13232 E 3267	-Gata Martinska, S. corner.	43° 44.3' N 15° 52.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red tower, column, gallery; 16.	Rijecka Krka is marked by lights shown from shore points.
13234 E 3267.5	-Rt. Vela Kapela.	43° 45.7' N 15° 51.0' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 2.7s	23 7	3	Green round tower, column; 10.	
SIBENSKI KANAL:							
13236 E 3277	-Plicina Krapanj.	43° 41.2' N 15° 54.0' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red tower, column, gallery; 16.	Visible 080°-313°.
13240 E 3278	-Otok Kraprnj, mole, head.	43° 40.3' N 15° 55.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	21 6	2	Red tower, column, gallery; 16.	Visible 134°-356°.
13248 E 3279	-Otok Krbela Vela, SE. point.	43° 39.3' N 15° 54.8' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	23 7	4	Red tower, column, gallery; 16.	Visible 147°-057°.
13252 E 3280	-Rt Ostrica Vela.	43° 38.9' N 15° 54.1' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	30 9	3	Green tower, column, gallery; 16.	
13256 E 3276	-Otocic Dvanka, NW. point.	43° 39.3' N 15° 52.7' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	25 8	8	Square stone tower; 16.	Visible 326°-172°.
13258 E 3276.6	-Zablace, breakwater, head.	43° 42.3' N 15° 52.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green tower, column, gallery; 16.	
13259 E 3276.7	--Solaris Marina.	43° 41.9' N 15° 52.6' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green column, pedestal; 16.	
13260 E 3275	-Rt Rat, Otok Zlarin, SE. extremity.	43° 39.7' N 15° 52.2' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	6	Square stone tower; 26.	Visible 180°-045°. AIS (MMSI No 992381230).
13264 E 3275.5	-Otocic Drvenik.	43° 40.1' N 15° 52.9' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green tower, column, gallery; 16.	
13268 E 3274	Otocic Komorica, S. entrance to Zlarinski Kanal.	43° 39.0' N 15° 50.4' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	36 11	5	Red tower, gallery; 23.	Visible 080°-328°. AIS (MMSI No 992381440).
13272 E 3229.5	Otok Zmajan, on Rt Sir.	43° 40.8' N 15° 46.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	2	Red square tower, pedestal; 16.	
13276 E 3228.5	Otok Kaprije, on Rt Lemes.	43° 40.2' N 15° 43.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	3	Green square tower, pedestral; 13.	
13280 E 3229	-Luka Kaprije, quay, head.	43° 41.3' N 15° 42.5' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	21 6	3	White tower, column, gallery; 20.	
13284 E 3229.7	Otok Kakan, SE. extremity.	43° 40.7' N 15° 41.5' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	Red square tower, pedestral; 13.	
13286 E 3226.5	Otocic Raparasnjak.	43° 40.9' N 15° 35.2' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	69 21	7	White tower; 16.	Visible 350°-334°.

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<b>CROATIA</b>							
13288 <i>E 3229.8</i>	Brak Prascica.	43° 40.5' N 15° 38.6' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	7	ISOLATED DANGER BRB, tower, topmark; 13.	
13292 <i>E 3227</i>	Otok Zirje, on Rt Muna.	43° 39.9' N 15° 39.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	2	Red tower, column, gallery; 16.	Fl.G. 3s 4M shown 300 meters S.
13296 <i>E 3229.2</i>	Otocic Ravan.	43° 39.6' N 15° 44.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	10	Square stone tower, pedestal; 26.	
13298 <i>E 3227.7</i>	-Rasohe.	43° 37.6' N 15° 43.8' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Red tower; 20.	Visible 188°-061°.
13300 <i>E 3228</i>	Otocic Hrbosnjak.	43° 38.8' N 15° 44.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	81 25	5	Red tower, gallery; 16.	
13304 <i>E 3226</i>	<b>Otocic Blitvenica.</b>	43° 37.5' N 15° 34.5' E	<b>Fl.(2)W.</b> period 30s fl. 1.2s, ec. 6.6s fl. 1.2s, ec. 21s	125 38	24	Stone tower, dwelling; 69.	<b>AIS</b> (MMSI No 992381020). Reserve light range 12M.
13308 <i>E 3283</i>	Primosten, mole, head.	43° 35.1' N 15° 55.4' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red square tower, column, gallery; 23.	
13312 <i>E 3284</i>	-Vojske, on W. mole, head.	43° 35.1' N 15° 55.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column, gallery; 16.	Visible 259°-154°.
13316 <i>E 3282</i>	-Rt Kremik.	43° 34.5' N 15° 55.0' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	8	White tower; 26.	Visible 339°-205°.
13318 <i>E 3285.5</i>	--SE. point.	43° 33.9' N 15° 56.0' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	3	Red tower, pedestal; 16.	Visible 220°-110°.
13319 <i>E 3285.51</i>	Rt Zecevo.	43° 33.5' N 15° 55.5' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green tower, pedestal; 16.	Visible 357°-248°.
13320 <i>E 3285</i>	Plicina Peles, on reef.	43° 33.9' N 15° 54.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	5	Red tower, column, gallery; 23.	
13322 <i>E 3286.5</i>	Greban Grbavac.	43° 33.6' N 15° 53.0' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	7	ISOLATED DANGER BRB, tower, topmark; 20.	
13324 <i>E 3286</i>	<b>Hrid Mulo.</b>	43° 30.9' N 15° 55.1' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	21	Stone tower, dwelling; 58.	Reserve light range 12M. <b>AIS</b> (MMSI No 992381090).
LUKA ROGOZNICA:							
13328 <i>E 3288</i>	-Rt Gradina.	43° 31.3' N 15° 57.7' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	50 15	4	Red square tower; 13.	Visible 248°-173°.
13332 <i>E 3290</i>	-Uvala Razanj, entrance, E. side.	43° 30.7' N 15° 58.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	22 7	3	Red tower, column, gallery; 20.	Visible 214°-144°.
13333 <i>E 3289</i>	-Hrid Razanjski Skoljic, N. of Razanj.	43° 30.9' N 15° 58.3' E	<b>Q.(9)W.</b> period 15s	23 7	3	W. CARDINAL YBY, column, topmark.	
13334 <i>E 3291.5</i>	-Cape Kopara.	43° 31.2' N 15° 58.3' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	3	Red square tower, gallery, pedestal.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13336 <i>E 3287</i>	-Hrid Kalebinjak, E. of Otocic Smokvica.	43° 30.8' N 15° 56.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	3	ISOLATED DANGER BRB, tower, topmark; 13.	
13340 <i>E 3292</i>	-Pier, outer head.	43° 31.6' N 15° 58.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column, gallery; 16.	
13344 <i>E 3293</i>	Otocic Muljica.	43° 28.4' N 16° 00.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	49 15	5	White tower, column, gallery; 16.	
13346 <i>E 3292.5</i>	Rt Ploca.	43° 29.6' N 15° 58.1' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	5	Green tower, gallery, pedestal; 26.	Visible 288°-198°.
DRVENICKI KANAL:							
13348 <i>E 3294</i>	-Otocic Velika Murvica.	43° 28.0' N 16° 03.4' E	<b>L.Fl.R.</b> period 8s fl. 2s, ec. 6s	49 15	7	Square stone tower, dwelling; 23.	Reserve light range 6M. <b>AIS</b> (MMSI No 992381130). <b>Siren:</b> 1 bl. ev. 30s (bl. 4s, si. 26s).
13352 <i>E 3295</i>	-Otok Drvenik Mali, on Rt Pasika.	43° 27.3' N 16° 04.4' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	7	Square stone tower, pedestal; 33.	
-Otok Drvenik Mali:							
13356 <i>E 3295.4</i>	--Uvala Borak, pier.	43° 27.0' N 16° 05.5' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	W. 4 R. 2	White tower, column, gallery; 16.	W. 028°-252°, R.-258°, W.-298°.
13358 <i>E 3295.7</i>	-Otocic Malta.	43° 27.2' N 16° 06.7' E	<b>Fl.(2)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	36 11	5	White tower, gallery; 23.	
13360 <i>E 3296</i>	-Luka Drvenik, E. shore.	43° 27.0' N 16° 08.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red tower, column, gallery; 16.	
13364 <i>E 3297</i>	-Rt Artatur.	43° 28.7' N 16° 07.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	Square stone tower, pedestal; 13.	
TROGIRSKI ZALIV:							
13368 <i>E 3298</i>	-Hrid Galera.	43° 28.3' N 16° 11.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	10	White tower, pedestal; 16.	<b>AIS</b> (MMSI No 992381390).
13370 <i>E 3331.5</i>	-Plicina Mlin.	43° 27.0' N 16° 14.4' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	8	ISOLATED DANGER BRB, column, topmark; 20.	<b>AIS</b> (MMSI No 992381270).
13372 <i>E 3299</i>	-Balkun, rock, entrance.	43° 28.4' N 16° 11.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Red tower, pedestal; 16.	
13376 <i>E 3299.4</i>	-Zaporinovac, islet, entrance.	43° 28.7' N 16° 12.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green tower, pedestal; 16.	
13384 <i>E 3302</i>	-Hrid Celice.	43° 30.0' N 16° 11.6' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	49 15	6	White conical tower, gallery, pedestal; 23.	
13388 <i>E 3304</i>	-Zaliv Marina, Rt Pasji Rat.	43° 30.6' N 16° 07.8' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	25 8	4	Red conical tower, gallery, pedestal; 23.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13392 <i>E 3306</i>	-Pier.	43° 30.8' N 16° 06.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column, gallery; 16.	
13400 <i>E 3314</i>	-Slatine, mole, head.	43° 30.0' N 16° 20.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower, column, gallery; 13.	
LUKA SPLIT:							
13408 <i>E 3349</i>	-Breakwater, head.	43° 30.1' N 16° 26.2' E	<b>L.Fl.G.</b> period 6s fl. 2s, ec. 4s	36 11	10	Green tower, gallery, house; 33.	Visible 285°-252°. 2 F.R. in line 334° mark pipeline 0.4 mile E. Reserve light range 5M. <b>Siren:</b> 1 bl. ev. 30s (bl. 4s, si. 26s).
13416 <i>E 3350</i>	-W. breakwater, head.	43° 30.1' N 16° 26.1' E	<b>Fl.R.</b> period 6s fl. 0.5s, ec. 5.5s	29 9	5	Red tower, column, gallery; 20.	Visible 139°-020°.
13418 <i>E 3351</i>	-Inner breakwater.	43° 30.2' N 16° 25.8' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red structure, column, glass control building; 16.	Visible 016°-312°.
13420 <i>E 3354</i>	-Gat Sv Petra.	43° 30.3' N 16° 26.3' E	<b>Fl.(3)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	3	White tower; 26.	
13424 <i>E 3356</i>	-Gat Listopada, SW. corner.	43° 30.4' N 16° 26.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	White square tower, column, gallery; 16.	
13425 <i>E 3348.2</i>	-Pomorac.	43° 30.1' N 16° 26.6' E	<b>Fl.(2)W.</b> period 20s fl. 0.8s, ec. 4.6s fl. 0.8s, ec. 13.8s	177 54	10	Square tower.	
13426 <i>E 3348</i>	-Zenta, E. mole, head.	43° 29.9' N 16° 27.5' E	<b>Fl.(2)G.</b> period 4.5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 2.9s	30 9	4	Green tower, concrete base; 23.	Visible 263°-165°.
13427 <i>E 3331.2</i>	-Rt Ciova.	43° 29.3' N 16° 23.5' E	<b>Fl.(3)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	7	White tower, gallery, concrete base; 23.	
KASTELANSKI ZALIV:							
13428 <i>E 3331</i>	-Rt Marjan, E. entrance point, mole, head.	43° 30.5' N 16° 23.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	25 8	5	Green square stone tower, column, gallery; 20.	Visible 290°-210°.
13433 <i>E 3316.5</i>	-Breakwater, head.	43° 31.7' N 16° 18.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green tower, column, gallery; 16.	
13434 <i>E 3318</i>	Kastel Stari.	43° 33.0' N 16° 20.7' E	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 6	4	Green tower, gallery; 16.	
13436 <i>E 3327</i>	-Lora, N. breakwater, head.	43° 31.6' N 16° 25.4' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Stone tower, red gallery; 16.	
13440 <i>E 3328</i>	--W. breakwater, head.	43° 31.6' N 16° 25.4' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Stone tower, green gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13444 E 3328.4	-Hrid Skoljic.	43° 31.3' N 16° 24.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	24 7	4	Green tower; 7.	
13446 E 3328.6	-Poljud, N. pier.	43° 31.2' N 16° 25.5' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	20 6	3	White tower, gallery; 16.	
13448 E 3323	-Hridi Galija.	43° 31.9' N 16° 25.1' E	<b>Fl.R.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	R. G. 4 3	Round structure; 26.	G. 061°-103°, R.-061°.
13452 E 3324	-Plicina Silo, NE. of Rt Rat.	43° 31.9' N 16° 25.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	7	ISOLATED DANGER BRB, tower, topmark; 16.	
13463	-Rt Grmovac.	43° 32.3' N 16° 26.4' E	<b>Fl.(2)W.</b> period 5s	39 12	4		
13464 E 3325	-On rock SW. of Otocic Barbarinac.	43° 32.1' N 16° 26.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	Red tower, column, gallery; 20.	
13466	-Kastilac.	43° 32.8' N 16° 23.7' E	<b>F.G.</b>	20 6	3		
13467 E 3320.1	-Kastel marina, breakwater.	43° 32.7' N 16° 23.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green column; 16.	Visible 359°-318°.
13468 E 3326	-Vranjic, landing place, W. corner.	43° 31.8' N 16° 27.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	24 7	4	Red tower, column, gallery; 16.	
13472 E 3325.4	-Uvala Supaval, point, E. entrance.	43° 31.8' N 16° 26.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	16 5	4	Green tower; 3.	
13476 E 3330	-Luka Poljud, pier.	43° 31.0' N 16° 25.2' E	<b>F.G.</b>	13 4	3	Green column; 10.	F.R. light shown from head of pier about 0.2 km. eastward.
BRACKI KANAL:							
13478 E 3357	Uvala Stobrec, Stozanac.	43° 30.0' N 16° 32.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green tower; 13.	Visible 356°-063°.
13480 E 3356.5	-Stobrec Bay, W. side.	43° 30.0' N 16° 31.6' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Red column.	Visible 133°-033°.
13492 E 3376	--Mole, head.	43° 26.5' N 16° 41.7' E	<b>Fl.W.G.</b> period 3s fl. 0.3s, ec. 2.7s	21 6	W. G. 4 2	White tower, column, gallery; 16.	G. 334°-038°, W.-334°.
13496 E 3378	-Kutlesa, mole, head.	43° 24.2' N 16° 48.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	19 6	4	Green tower, column, gallery; 16.	
13502 E 3386	-Soline-Brela, breakwater, head.	43° 21.9' N 16° 55.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	21 6	4	White tower, column, gallery; 16.	
13504 E 3387	-Baska Voda, breakwater, head.	43° 21.4' N 16° 56.7' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	5	Red tower, column, gallery; 16.	

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<b>CROATIA</b>							
SPLITSKI KANAL:							
-Otok Solta:							
13508 E 3332	--Luka Maslinica (Novsko Zdrilo), on Rt Sv. Nicola.	43° 23.7' N 16° 12.1' E	<b>Fl.W.R.</b> period 3s fl. 0.5s, ec. 2.5s	34 10	W. R.	7 4	Square stone tower, cupola; 23. R. 011°-056°, W.-011°.
13509 E 3331.9	--Otocic Stipanska.	43° 24.4' N 16° 10.1' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8		6	Green column; 16. Visible 355°-255°. <b>AIS</b> (MMSI No 992381460).
13510 E 3333	--Rogac.	43° 23.8' N 16° 18.0' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8		3	White tower, column, gallery; 16.
13512 E 3334	---Rt Bad.	43° 24.0' N 16° 18.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		4	Red tower, gallery; 20. Visible 018°-288°.
13514 E 3334.5	--Necujam.	43° 23.7' N 16° 19.6' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	30 9		5	White tower, gallery, concrete base; 23. Visible 026°-305°.
13516 E 3336	--Uvala Stomorska, entrance, E. side.	43° 22.4' N 16° 21.2' E	<b>Fl.(2)R.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 11		3	Red tower, column, gallery; 16.
13520 E 3338	-Rt Livka.	43° 19.8' N 16° 23.9' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	37 11		8	Red tower, structure, white hut; 33. Visible 168°-058°. <b>AIS</b> (MMSI No 992381420).
13524 E 3340	-Otok Mrduja.	43° 20.3' N 16° 24.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	46 14		4	White tower, column, gallery; 20.
13528 E 3342	-Rt Razanj, Otok Brac, W. head.	43° 19.2' N 16° 24.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	56 17		13	Hexagonal stone tower, dwelling; 46. Visible 340°-175°. Reserve light range 8M. <b>AIS</b> (MMSI No 992381240). <b>Siren:</b> 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
13532 E 3344	-Milna, on Rt Bijaka.	43° 19.8' N 16° 26.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		3	White square tower, gallery; 26.
13536 E 3346	--Inner port, entrance.	43° 19.6' N 16° 26.9' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7		4	Red tower, column, gallery; 16.
BRACKI KANAL (OTOK BRAC):							
13540 E 3364	-Sutivan, SW. angle of mole, head.	43° 23.2' N 16° 28.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	21 6		2	Red tower, column, gallery; 16.
13544 E 3366.2	-Supetar, mole, head.	43° 23.2' N 16° 33.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7		5	Red tower, column, gallery; 16.
13545 E 3366	--Old mole, head.	43° 23.1' N 16° 33.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7		4	White tower; 20. Visible 307°-207°.
13548 E 3368	-Uvala Splitska, entrance, E. side.	43° 22.8' N 16° 36.4' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	21 6		2	Red tower, column, gallery, pedestal; 16.
13552 E 3370	-Postire, mole, head.	43° 22.7' N 16° 37.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7		3	Square stone tower, red cupola; 20. Visible 326°-259°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13556 <i>E 3380</i>	-Luka Pucisca, on Rt Sv. Nikola.	43° 21.7' N 16° 44.1' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	66 20	8	Square stone tower, gallery, building; 36.	
13560 <i>E 3384</i>	-Rt Povelja.	43° 20.4' N 16° 49.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	24 7	7	Square stone tower; 16.	
13564 <i>E 3392</i>	-Rt Rascatna.	43° 18.8' N 16° 53.9' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	41 12	8	Square stone tower; 26.	
HVARSKI KANAL (OTOK BRAC):							
13568 <i>E 3396</i>	-Luka Sumartin, entrance, E. side.	43° 16.8' N 16° 52.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	7	White square stone tower, cupola, hut; 20.	
13572 <i>E 3398</i>	--W. side of entrance, breakwater, head.	43° 17.1' N 16° 52.3' E	<b>Fl.(3)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	3	White tower, column, gallery; 26.	
13576 <i>E 3400</i>	-Bol, mole, head.	43° 15.6' N 16° 39.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	24 7	3	Square stone tower, green cupola; 23.	
13580 <i>E 3388</i>	-Makarska, Poluotocica Sveta Petar, W. head.	43° 17.7' N 17° 00.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	52 16	11	Square masonry tower, dwelling; 46.	Visible 321°-141°. Reserve light range 7M.
13584 <i>E 3390</i>	--Mole, head.	43° 17.6' N 17° 01.2' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	4	White tower, column, gallery; 16.	
13586 <i>E 3393</i>	-Tučepi.	43° 15.7' N 17° 03.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red tower, column, gallery; 16.	
13588 <i>E 3394</i>	-Uvala Podgora, mole, head.	43° 14.6' N 17° 04.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red tower, column, gallery; 16.	
13590 <i>E 3395</i>	-Drvenik.	43° 09.2' N 17° 15.0' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	16 5	3	Green round tower; 13.	
13591 <i>E 3493</i>	-Gradac, breakwater, head.	43° 06.2' N 17° 20.5' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red tower; 16.	Visible 133°-098°.
PAKLENI KANAL:							
13592 <i>E 3431.5</i>	-Pakleni Otoki, on Otocic Vodnjak Veli, islet, SW. part.	43° 10.2' N 16° 18.7' E	<b>Fl.W.</b> period 6s fl. 0.5s, ec. 5.5s	102 31	9	Stone tower; 26.	
-Otok Hvar:							
13596 <i>E 3404</i>	--Rt Pelegrin.	43° 11.7' N 16° 22.0' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	69 21	8	Stone tower, pedestal; 26.	
13598 <i>E 3405</i>	--Hrid Baba.	43° 10.1' N 16° 23.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	4	ISOLATED DANGER BRB, tower, topmark; 16.	
13600 <i>E 3406</i>	--Otocic Galisnik.	43° 09.9' N 16° 26.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	5	Square stone tower, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13604 <i>E 3408</i>	--Luka Hvar, quay, S. corner.	43° 10.2' N 16° 26.5' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	19 6	4	Green tower, column, gallery; 16.	
13608 <i>E 3409</i>	--Sv. Jerolim.	43° 09.6' N 16° 26.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	4	Red tower, column, gallery; 16.	
13612 <i>E 3410</i>	--Otocic Pokonji Dol.	43° 09.4' N 16° 27.1' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	66 20	10	Square stone tower, dwelling; 49.	Reserve light range 5M. <b>AIS</b> (MMSI No 992381400).
HVARSKI KANAL:							
13616 <i>E 3412</i>	--Uvala Pribinja, Rt Galijola, W. entrance point.	43° 11.9' N 16° 25.5' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	6	White column; 16.	
13620 <i>E 3412.4</i>	---Nezadovoljan, peninsula, head.	43° 11.6' N 16° 25.8' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Red tower, column, gallery, pedestal; 16.	
13624 <i>E 3412.6</i>	---Vira, mole, head.	43° 11.4' N 16° 25.6' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	12 4	3	White tower; 7.	
13628 <i>E 3418</i>	--Rt Kabal.	43° 13.5' N 16° 31.2' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	7	White tower, column, gallery; 20.	Visible 324°-227°.
13632 <i>E 3414</i>	--Stari Grad, on Rt Fortin.	43° 11.1' N 16° 35.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	29 9	4	Green tower, column, gallery, white pedestal; 23.	
13636 <i>E 3413</i>	--Stari Grad, ferry landing.	43° 10.9' N 16° 34.6' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column, gallery; 16.	Visible 109°-020°.
13638 <i>E 3413.1</i>	---W. pier.	43° 10.9' N 16° 34.5' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	White tower, column, gallery; 16.	
13642 <i>E 3419</i>	--Rt Travna.	43° 14.1' N 16° 33.7' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	7	White tower, gallery, concrete base; 23.	Visible 082°-276°.
13644 <i>E 3426</i>	--Otocic Zecevo, E. point.	43° 11.4' N 16° 41.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	5	Square stone tower, pedestal; 20.	
13648 <i>E 3420</i>	--Vrboska, on Rt Kriz.	43° 10.6' N 16° 41.2' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	18 5	5	White tower, column, gallery; 16.	
13652 <i>E 3422</i>	---Quay.	43° 10.8' N 16° 40.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	3	Red column, stone fort; 13.	
13656 <i>E 3428</i>	--Jelsa, N. mole, head.	43° 09.8' N 16° 41.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Stone tower, cupola; 20.	
13660 <i>E 3431</i>	---S. mole.	43° 10.0' N 16° 42.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	5	Red tower; 16.	
13664 <i>E 3490</i>	--Rt Sucuraj.	43° 07.5' N 17° 11.8' E	<b>Iso.W.</b> period 4s	46 14	11	Square stone tower, dwelling; 46.	Reserve light range 7M.
OTOK VIS:							
13668 <i>E 3492</i>	--Luka Sucuraj, mole, head.	43° 07.5' N 17° 11.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13672 <i>E 3432</i>	-Rt Stoncica.	43° 04.4' N 16° 15.3' E	<b>Fl.W.</b> period 15s fl. 0.7s, ec. 14.3s	125 38	30	Stone tower, dwelling; 92.	Visible 110°-357°. Reserve light range 12M. <b>AIS</b> (MMSI No 992381380).
13676 <i>E 3434</i>	-Hrid Krava.	43° 04.7' N 16° 13.1' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	4	White tower with gallery, pedestal; 16.	
13680 <i>E 3436</i>	-Viska Luka, on Otocic Host.	43° 04.6' N 16° 12.3' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	70 21	8	Stone tower, dwelling; 36.	
HVARSKI KANAL:							
13684 <i>E 3438</i>	-Prirovo.	43° 03.7' N 16° 11.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	21 6	3	Green tower, column, gallery; 16.	
13688 <i>E 3439</i>	-Hridi Volici.	43° 05.2' N 16° 11.6' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	6	White tower, gallery, pedestal; 16.	
13692 <i>E 3440</i>	-Otocic Mali Barjak.	43° 03.2' N 16° 02.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	43 13	8	White square stone tower; 26.	
13696 <i>E 3442</i>	-Komiza, breakwater, head.	43° 02.7' N 16° 05.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower, gallery, column; 16.	
13700 <i>E 3443</i>	-Rt Stupisce.	43° 00.4' N 16° 04.0' E	<b>Fl.(3)W.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	59 18	10	Square stone tower; 26.	Reserve light range 7M.
13704 <i>E 3444</i>	-Otok Bisevo Kobila.	42° 59.3' N 16° 01.2' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 3s fl. 1s, ec. 5s	59 18	11	Red tower, gallery; 16.	Reserve light range 7M. <b>AIS</b> (MMSI No 992381590).
13708 <i>E 3445</i>	-Hridi Lukavci.	43° 06.0' N 16° 34.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	5	Stone tower; 26.	<b>AIS</b> (MMSI No 992381530).
13712 <i>E 3446</i>	-Otok Scedro.	43° 05.1' N 16° 39.9' E	<b>Fl.W.R.</b> period 6s fl. 0.5s, ec. 5.5s	68 21	W. 10 R. 6	Square stone tower, pedestal; 26.	R. 087°-094.5°, W.-087°.
13716 <i>E 3448</i>	-Luka Lovisce, entrance, E. side.	43° 05.9' N 16° 42.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	Red tower, column, gallery; 16.	
13720 <i>E 3450</i>	-Otocic Plocica, NW. extremity.	43° 01.9' N 16° 49.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 25	10	Square stone tower, dwelling; 43.	<b>AIS</b> (MMSI No 992381350).
13724 <i>E 3451</i>	-Prigradica, mole, head.	42° 58.0' N 16° 48.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	21 6	3	Red tower, column, gallery; 16.	
NERETVANSKI KANAL:							
13732 <i>E 3500.5</i>	-Rt. Visnjica, S. side.	43° 02.4' N 17° 25.0' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 13	7	White tower, column, gallery; 16.	<b>AIS</b> (MMSI No 992381510).
13736 <i>E 3501</i>	--NE. side.	43° 02.5' N 17° 25.1' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	39 12	2	Red tower, column, gallery; 16.	
-Luka Kardelevo:							
13740 <i>E 3501.2</i>	--Rt Bad.	43° 02.8' N 17° 25.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	30 9	2	Red square tower, pyramidal structure; 13.	

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<b>CROATIA</b>							
13744 <i>E 3491.4</i>	--Gata Oslobodenja, W. head.	43° 02.9' N 17° 25.4' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower, column, gallery; 16.	
13746 <i>E 3501.6</i>	--Rt. Zminjac.	43° 03.1' N 17° 25.8' E	<b>FI.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	3	Red tower, pedestal; 13.	Visible 250°-138°.
13748.5 <i>E 3499.5</i>	--Oil terminal.	43° 02.0' N 17° 25.9' E	<b>FI.R.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	3	Red tower, pedestal; 13.	Visible 238°-055°.
13750 <i>E 3499.2</i>	-Kanal Vlaska, S. side.	43° 01.7' N 17° 25.5' E	<b>FI.Y.</b> period 3s fl. 0.5s, ec. 2.5s		3	Yellow post; 13.	
	-Neretva:						
13752 <i>E 3502</i>	--N. mole, head.	43° 01.2' N 17° 26.7' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	4	Red column, dwelling; 16.	River to Metkovic marked by FI.G. 3s lights to starboard and FI.R. 3s lights to port.
13756 <i>E 3502.2</i>	--S. mole, head.	43° 01.1' N 17° 26.7' E	<b>FI.G.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	4	Green hut, column; 16.	Visible 122°-235°.
	-Uvala Blaca:						
13764 <i>E 3516</i>	--Otocic Mali Skojic.	42° 59.9' N 17° 28.6' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red tower, column, gallery; 16.	Visible 178°-088°.
<b>KANAL MALOG STONA:</b>							
13772 <i>E 3526</i>	-Rt Celjen.	42° 52.1' N 17° 40.8' E	<b>FI.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	6	White tower, column, gallery, pedestal; 16.	
13776 <i>E 3528</i>	-Rt Mirina (Mirna).	42° 51.5' N 17° 41.3' E	<b>FI.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	White tower, column, gallery; 16.	
13780 <i>E 3530</i>	-Plicina Vranjak (Greda), shoal, N. side.	42° 51.4' N 17° 41.9' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	21 6	1	Red tower, column, gallery; 16.	
13784 <i>E 3531</i>	-Otocic Skoljic.	42° 51.2' N 17° 42.5' E	<b>FI.G.</b> period 2s fl. 0.3s, ec. 1.7s	21 6	1	Green tower, column, gallery, concrete base; 16.	
13788 <i>E 3532</i>	-Rt Mali Voz.	42° 51.1' N 17° 42.7' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	21 6	1	Red tower, column, gallery; 16.	
13792 <i>E 3521</i>	-Rt Rep Kieka.	42° 56.1' N 17° 33.2' E	<b>FI.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	5	White tower, gallery; 16.	
13796 <i>E 3521.3</i>	-Hrid Lopata.	42° 56.1' N 17° 33.9' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower, gallery; 16.	
13800 <i>E 3521.5</i>	-Luka Neum.	42° 55.1' N 17° 37.0' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red tower, column, gallery; 16.	
13804 <i>E 3522</i>	-Rt Blaca.	42° 55.5' N 17° 31.1' E	<b>FI.W.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	8	White tower, column, gallery, pedestal; 23.	Visible 127°-285°.
<b>NERETVANSKI KANAL (POLUOTOK PELJESAC):</b>							
13808 <i>E 3520</i>	-Luka Drace, NE. mole, head.	42° 55.5' N 17° 31.1' E	<b>FI.W.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	W. 4 R. 2	White tower, column; 16.	R. 197°-243°, W.-197°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13810	-Crkvice.	42° 58.5' N 17° 22.4' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower; 23.	
13812 E 3496	-Trpanj, E. breakwater, head.	43° 00.7' N 17° 16.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	4	Red tower; 16.	
13813 E 3498	--Floodgate, head.	43° 00.6' N 17° 16.1' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	2	White tower, column, gallery; 23.	Visible 103°-135°.
13814 E 3488.5	-Duba.	43° 01.5' N 17° 10.3' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red tower; 16.	
KORCULANSKI KANAL:							
13820 E 3488	-Rt Lovisce, Poluotok Peljesac, NW. point.	43° 02.8' N 17° 00.1' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 10	10	White square stone tower, gallery, pedestal; 30.	Visible 357°-258°. <b>AIS</b> (MMSI No 992381500).
13824 E 3487	-Uvala Luka (Lovisce).	43° 01.5' N 17° 01.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Red tower, column, gallery; 16.	Visible 243°-113°.
13828 E 3486.5	-Rt Osicac, Poluotok Peljesac, SW. point.	43° 00.6' N 17° 00.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	8	White octagonal concrete tower; 26.	Visible 322°-270°.
PELJESKI KANAL:							
13832 E 3470	-Otocic Kneza Vela, NE. side.	42° 58.9' N 17° 03.2' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 13	8	Stone tower; 20.	
13834 E 3470.5	-Kucisce.	42° 58.8' N 17° 07.0' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	3	White tower; 16.	
13836 E 3471	-Rt Sv. Ivan.	42° 59.1' N 17° 04.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	4	Green tower, column, gallery; 16.	
13840 E 3476	-Luka Korcula, mole, head.	42° 57.8' N 17° 08.2' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	4	Red square tower, column, gallery; 23.	
13844 E 3477	-Wharf, NE. corner, E. of harbor.	42° 57.6' N 17° 08.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	2	Green tower, column, gallery; 16.	
13848 E 3478	-Badija.	42° 57.3' N 17° 09.1' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, pedestal; 16.	
13852 E 3479	-Korcula.	42° 57.2' N 17° 09.0' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Red tower; 16.	
13856 E 3480	-Luka Orebic, mole, head.	42° 58.3' N 17° 10.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	25 8	3	Green square tower, column, gallery; 23.	
13860 E 3481	-Otocic Stupe Velike, W. head.	42° 57.8' N 17° 11.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	29 9	3	Red tower, column, gallery; 16.	Visible 085°-261°.



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<b>CROATIA</b>							
13864 <i>E 3482</i>	-Otocici Sestrice, NW. islet.	42° 57.7' N 17° 12.5' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	58 18	11	Square stone tower, dwelling; 43.	<b>AIS</b> (MMSI No 992381290).
LASTOVSKI KANAL:							
13872 <i>E 3486</i>	-Rt Rasnjic, Otok Korcula, SE. point.	42° 55.0' N 17° 12.1' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	43 13	9	White square tower; 26.	
13876 <i>E 3463</i>	-Rt Veli Zaglav.	42° 53.8' N 16° 50.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	43 13	7	White tower, column, gallery; 16.	
13878 <i>E 3464</i>	-Brna.	42° 54.3' N 16° 51.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	Visible 224°-025°.
ZALIV VELA LUKA:							
13884 <i>E 3461</i>	-Rt Velo Dance, Otok Korcula, SW. point.	42° 55.6' N 16° 38.3' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	39 12	11	Stone tower; 26.	<b>AIS</b> (MMSI No 992381490).
13888 <i>E 3454</i>	-Otocic Kamenjak, S. side.	42° 58.2' N 16° 39.5' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	32 10	4	Stone tower; 20.	Visible 233°-163°.
13892 <i>E 3458</i>	-Rt Vranac.	42° 57.7' N 16° 42.4' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	24 7	2	Stone pyramidal tower, red gallery; 20.	Visible 011°-101°.
13896 <i>E 3460</i>	-Vela Luka, pier, W. head.	42° 57.7' N 16° 42.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	21 6	2	Green tower, column, gallery; 16.	
13900 <i>E 3452</i>	-Otocic Proizd, island, off W. head.	42° 59.0' N 16° 36.4' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	11	Stone tower; 26.	Visible 290°-229°. <b>AIS</b> (MMSI No 992381280).
13904 <i>E 3538</i>	<b>Otok Susac.</b>	42° 45.0' N 16° 29.4' E	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	308 94	24	Square stone tower, dwelling; 56.	Visible 253°-213°. Reserve light range 12M. <b>AIS</b> (MMSI No 992381180).
OTOK LASTOVO:							
13908 <i>E 3545</i>	-Skrivena Luka, on Rt Strazica.	42° 43.9' N 16° 53.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Red tower, column, gallery, pedestal; 20.	
13912 <i>E 3544</i>	<b>-Rt Struga.</b>	42° 43.4' N 16° 53.0' E	<b>Fl.W.</b> period 10s fl. 0.6s, ec. 9.4s	344 105	27	Stone tower, dwelling; 66.	Visible 259°-095°. Reserve light range 12M.
13920 <i>E 3548</i>	-Luka Velji Lago, Otocic Prezba, SE. point.	42° 45.2' N 16° 48.8' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	59 18	W. 8 R. 5	White tower, column, gallery, pedestal; 26.	W. 067°-084°, R. 235°-023°, W.-045°.
13932 <i>E 3546</i>	-Ubli (Sv. Petar), port, SE. extremity.	42° 44.7' N 16° 49.5' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	2	Red tower, column, gallery; 16.	
13936 <i>E 3552</i>	-Hrid Pod Mrcaru, islet, center.	42° 46.8' N 16° 46.5' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 23	9	White tower, column, gallery, pedestal; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
13938 <i>E 3553</i>	-Entrance.	42° 46.5' N 16° 52.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	5	Red tower, column, gallery; 16.	Visible 350°-243°.
13939 <i>E 3554.5</i>	Petrovac Rock.	42° 45.3' N 16° 57.1' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower.	Visible 288°-201°.
13940 <i>E 3551</i>	Otocic Tajan Velji.	42° 49.0' N 16° 59.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	66 20	8	Square stone tower; 23.	
13944 <i>E 3554</i>	<b>Otocic Glavat.</b>	42° 45.9' N 17° 08.8' E	<b>Fl.(5)W.</b> period 30s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 14.4s	148 45	22	Stone tower, dwelling; 62.	Visible 120°-070°. Reserve light range 12M. <b>AIS</b> (MMSI No 992381070).
MLJETSKI KANAL:							
-Otok Mljet:							
13947 <i>E 3535.5</i>	--Rt Goli.	42° 47.7' N 17° 19.9' E	<b>Fl.(3)W.R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	39 12	W. 8 R. 5	White tower, pedestal; 36.	W. 060°-237°, R.-060°.
13947.5	--Maslinovac rock.	42° 48.3' N 17° 22.8' E	<b>Fl.(2)W.</b> period 5s	20 6	3	ISOLATED DANGER BRB, beacon, topmark; 16.	
13948 <i>E 3536</i>	--Luka Polace, on Hrid Kula.	42° 47.2' N 17° 26.1' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	36 11	6	White tower, pedestal; 16.	
13952 <i>E 3537</i>	--Luka Sovra, Rt Pusti.	42° 44.7' N 17° 36.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	47 14	7	White tower; 33.	Visible 156°-043°. Fl.R. 3s marks head of ferry jetty.
13956 <i>E 3537.4</i>	--Luka Okuklje, Rt Stoba.	42° 43.8' N 17° 40.8' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	32 10	6	White tower, column, gallery, pedestal; 16.	
13960 <i>E 3537.5</i>	---Point of land in harbor.	42° 43.6' N 17° 40.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	24 7	1	Green tower, column, gallery; 16.	
13964 <i>E 3537.6</i>	---Harbor, head.	42° 43.7' N 17° 40.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	13 4	1	Green tower; 6.	
-Poluotok Peljesac:							
13968 <i>E 3556</i>	--Trstenik, mole, head.	42° 54.9' N 17° 24.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower, column, gallery; 16.	
13975 <i>E 3558</i>	--Zuljana, mole, head.	42° 53.4' N 17° 27.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower, column, gallery; 16.	Visible 078°-015°.
13980 <i>E 3560</i>	-Otocic Lirica.	42° 52.4' N 17° 25.6' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	112 34	9	White tower, pedestal; 45.	Visible 293°-210°.
13982 <i>E 3560.5</i>	-Prapatno, head.	42° 48.7' N 17° 40.6' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green tower, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
KOLOCEPSKI KANAL:							
13984 <i>E 3561</i>	-Otocic Olipa.	42° 45.5' N 17° 46.6' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	102 31	10	Square stone tower; 36.	Visible 253°-104°.
13988 <i>E 3562</i>	-Otocic Tajan, island, NW. extremity.	42° 45.5' N 17° 47.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	4	Red tower, column, gallery; 16.	Visible 061°-268°.
13990 <i>E 3564</i>	-Rt. Grbljava (Pologrin).	42° 47.2' N 17° 46.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	7	White tower, column, gallery, pedestal; 16.	
-Stonski Kanal:							
13992 <i>E 3566</i>	--Broce, mole, head.	42° 49.3' N 17° 43.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red tower; 16.	Channel to Ston lighted by beacons and buoys.
13996 <i>E 3570</i>	--Ston, mole, head.	42° 50.0' N 17° 41.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red tower; 16.	
MLJETSKI KANAL:							
14000 <i>E 3575</i>	-Doli, mole, head.	42° 48.4' N 17° 47.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	3	Red tower, column, gallery; 16.	
14004 <i>E 3580</i>	-Slano, on Rt Donji.	42° 46.5' N 17° 52.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	52 16	4	Stone tower, column, gallery, dwelling; 13.	
14008 <i>E 3582</i>	--On quay.	42° 47.1' N 17° 53.3' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green tower, column, gallery; 16.	
14012 <i>E 3584</i>	-Trsteno.	42° 42.7' N 17° 58.1' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	33 10	6	White tower, column, gallery, pedestal; 20.	
-Otok Sipan:							
14016 <i>E 3576</i>	--Rt Tiha.	42° 45.3' N 17° 51.1' E	<b>Fl.(2)W.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	46 14	9	Metal pyramidal framework structure, white tower, gallery, pedestal; 36.	Visible 117°-305°.
14020 <i>E 3578</i>	--Luka, mole, head.	42° 43.7' N 17° 51.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower, column, gallery; 16.	
14024 <i>E 3590</i>	<b>-Otocic Sv. Andrija.</b>	42° 38.8' N 17° 57.1' E	<b>Fl.W.</b> period 15s fl. 0.8s, ec. 14.2s	226 69	24	Square stone tower, dwelling; 56.	Reserve light range 12M. <b>AIS</b> (MMSI No 992381160).
14028 <i>E 3592</i>	-Otok Lopud, mole, head.	42° 41.4' N 17° 56.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column, gallery; 16.	
14030 <i>E 3579</i>	-Sudurad, S. mole, head.	42° 42.6' N 17° 54.7' E	<b>Fl.(2)W.R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	W. R. 4 2	White tower, column, gallery; 16.	R. 235°-275°, W.-235°.
14031 <i>E 3595.5</i>	-Donje Cove.	42° 40.8' N 18° 00.3' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	4	White tower, column, gallery; 23.	Visible 262°-142°.
14032 <i>E 3595</i>	-Otok Kalocep, on Rt Gornji.	42° 39.7' N 18° 01.2' E	<b>Fl.(2)W.</b> period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	59 18	4	Conical stone tower, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
14036 <i>E 3596</i>	-Vuka Zaton, on Rt Bat.	42° 41.1' N 18° 02.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	62 19	4	Red tower, column, gallery; 20.	
14040 <i>E 3598</i>	Hridi Grebeni, W. rock.	42° 39.1' N 18° 02.9' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	87 27	10	Square stone tower, dwelling; 43.	<b>AIS</b> (MMSI No 992381370).
14042 <i>E 3599</i>	Hrid Seka velika.	42° 39.1' N 18° 03.5' E	<b>Q.(9)W.</b> period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark; 13.	
14044 <i>E 3600</i>	Otocic Daska, N. head.	42° 40.2' N 18° 03.4' E	<b>Fl.W.</b> period 6s fl. 0.5s, ec. 5.5s	23 7	5	White tower, gallery, pedestal; 13.	Visible 023°-295°.
14048 <i>E 3604</i>	Rijeka Dubrovacka, at Mokosica.	42° 40.3' N 18° 05.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red square tower, red column, base; 20.	
14050 <i>E 3601</i>	-Bridge, N. head.	42° 40.1' N 18° 04.7' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	4	Red tower, column, gallery; 16.	
14050.5 <i>E 3601.7</i>	--Center.	42° 40.1' N 18° 04.8' E	<b>Iso.W.</b> period 2s	164 50	5	Green construction.	
14051 <i>E 3601.5</i>	--S. head.	42° 40.0' N 18° 04.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column, gallery; 20.	
14052 <i>E 3602</i>	Gruz, on Rt Kantafig.	42° 40.0' N 18° 04.7' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	5	White tower, column, gallery; 16.	Visible 325°-247°.
14056 <i>E 3602.1</i>	-Gat Petka.	42° 39.5' N 18° 05.1' E	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	25 8	3	Red square tower, column, gallery; 23.	
14060 <i>E 3610</i>	Dubrovnik, mole, head.	42° 38.4' N 18° 06.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red square tower, column, gallery; 23.	
KOLOCEPSKI KANAL:							
14068 <i>E 3613</i>	-Srebreno, breakwater.	42° 37.2' N 18° 11.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red tower, column, gallery; 16.	
14076 <i>E 3613.7</i>	-Zupski Zaliv, Plat, on pier, head.	42° 36.0' N 18° 13.7' E	<b>FG.</b>	23 7	4	Green tower, column, gallery; 16.	
14084 <i>E 3614.5</i>	-About 366 meters S. of extremity of Rt Sveti Roko.	42° 35.2' N 18° 12.3' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	8	ISOLATED DANGER BRB, tower, topmark; 20.	
14088 <i>E 3614</i>	Cavtat.	42° 35.1' N 18° 12.7' E	<b>Fl.W.R.G.</b> period 2s fl. 0.3s, ec. 1.7s	33 10	W. R. G. 6 4 3	White tower, column, gallery; 16.	W. 053°-083°, R.-110°, W.- 129°, G.-158°.
14092 <i>E 3616</i>	Luka Mali Molunat.	42° 27.0' N 18° 26.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	6	White tower, column, gallery; 16.	
BOKA KOTORSKA:							
14096 <i>E 3615</i>	-Otocic Molunat.	42° 26.7' N 18° 25.8' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 34	8	White tower, gallery; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
14100 <i>E 3620</i>	<b>-Ostri Rt.</b>	42° 23.7' N 18° 31.9' E	<b>L.Fl.(2)W.</b> period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	240 73	15	Red tower, house; 7.	Reserve light range 10M.
14104 <i>E 3622</i>	-Otocic Mamula.	42° 23.8' N 18° 33.5' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	112 34	6	White round tower, platform.	
14108 <i>E 3623</i>	--Luka Rose, quay, W. head.	42° 25.8' N 18° 33.4' E	<b>F.G.</b>	16 5	2	Green column; 13.	
	-Hercegovski Zaliv:						
14112 <i>E 3624</i>	--Herceg Novi, S. mole, head.	42° 27.1' N 18° 31.9' E	<b>Q.(2)G.</b> period 5s	31 9	5	Square stone obelisk; 23.	
14116 <i>E 3628</i>	--Zelenika, quay, NW. corner.	42° 27.1' N 18° 34.3' E	<b>Fl.(2)R.</b> period 3s	30 9	4	White tower, column, gallery, pedestal; 16.	Visible 315°-135°.
14120 <i>E 3630</i>	--Pristan.	42° 25.6' N 18° 36.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	22 7	5	White round tower, black stripes, platform; 20.	
	-Kumborski Tjesnac:						
14124 <i>E 3632</i>	--Denovici, breakwater, head.	42° 26.0' N 18° 36.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	45 14	6	Red metal tripod; 7.	
	-Tivatski Zaliv:						
14128 <i>E 3648</i>	--Donji Krasici, on mole.	42° 24.6' N 18° 39.2' E	<b>F.G.</b>	16 5	2	White column; 16.	
14132 <i>E 3647</i>	--Bejelila (Oko), pier, NW. corner.	42° 24.5' N 18° 40.0' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	19 6	4	White tower, black bands; 16.	Visible 245°-216°, obscured over Plicina Tunja.
14136 <i>E 3646</i>	-Zucovac, quay, S. corner.	42° 24.3' N 18° 41.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	2	Green tower, column; 16.	
14140 <i>E 3645</i>	--Plicina Tunja (Jezicac).	42° 25.0' N 18° 40.7' E	<b>Fl.(2)W.R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	W. R. 6 4	Pyramidal stone tower; 23.	W. 014°-274°, W.-014°.
14142 <i>E 3644.5</i>	-Plicina Kalimanj.	42° 25.5' N 18° 42.0' E	<b>Fl.R.</b> period 4s	20 6	3	White round tower, red stripes, platform; 16.	
14144 <i>E 3644</i>	-Luka Kaliman.	42° 25.6' N 18° 42.0' E	<b>F.R.</b>	20 6	4	Red column; 16.	
14152 <i>E 3643</i>	--Stanicic, mole.	42° 25.8' N 18° 41.7' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	21 6	3	White round tower, red diagonal stripe; 16.	
14156 <i>E 3638</i>	--Rt Seljanovo.	42° 26.4' N 18° 41.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	5	White tower, red stripes, pedestal; 20.	
	-Tjesnac Verige:						
14164 <i>E 3652</i>	--Rt Sveti Nedlja.	42° 27.7' N 18° 40.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	24 7	5	White round tower, red stripes, gallery; 23.	
14168 <i>E 3654</i>	--Rt Opatovo.	42° 27.7' N 18° 40.9' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	30 9	4	Square stone tower; 26.	
14172 <i>E 3656</i>	--Kamenari, mole, head.	42° 28.1' N 18° 40.5' E	<b>F.R.</b>	19 6	4	Red column; 13.	
14180 <i>E 3658</i>	--Rt Turski.	42° 28.8' N 18° 41.2' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	28 9	6	White conical tower, gallery.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CROATIA</b>							
-Tivatski Zaliv:							
14184 <i>E 3660</i>	--Rt Gospa.	42° 28.7' N 18° 41.4' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	33 10		4 White round tower, black stripes.	
-Risanski (Morinjski) Zaliv:							
14188 <i>E 3661</i>	--Kostanjica, breakwater, head.	42° 29.3' N 18° 39.9' E	<b>F.R.</b>	13 4		3 White metal pyramidal framework tower; 13.	Private light.
14192 <i>E 3662</i>	--Morinj.	42° 29.5' N 18° 39.0' E	<b>F.G.</b>	13 4		4 Green column; 10.	
14196 <i>E 3664</i>	--Perast, on quay.	42° 29.2' N 18° 41.9' E	<b>Fl.(3)R.</b> period 7s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	20 6		3 White round tower, red diagonal stripe; 16.	Visible 304°-124°.
14200 <i>E 3663</i>	--Risan, mole, head.	42° 30.9' N 18° 41.6' E	<b>Fl.(3)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	16 5		2 White round tower, column, gallery; 16.	
-Kotorski Zaliv:							
14204 <i>E 3666</i>	--Donji Stoliv, mole, head.	42° 28.4' N 18° 42.7' E	<b>F.G.</b>	16 5		2 White column; 13.	
14212 <i>E 3674</i>	--Quay, N.	42° 27.3' N 18° 44.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6		3 White round tower, black bands, platform; 13.	
14216 <i>E 3676</i>	--Rt Rdakova.	42° 27.0' N 18° 45.3' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8		6 White square tower, column, gallery; 23.	
14220 <i>E 3678</i>	--Muo, mole, head.	42° 26.2' N 18° 45.5' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	16 5		5 White round tower, platform; 13.	
14224 <i>E 3682</i>	--Kotor.	42° 25.7' N 18° 46.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8		5 Stone obelisk; 23.	

# Section 10

## Montenegro, Albania, and South and West Coasts of Greece Including Peleponnisos

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MONTENEGRO</b>							
14236 <i>E 3684</i>	Zaliv Traste, Rt Traste.	42° 21.5' N 18° 41.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	5	White round tower, gallery, pedestal; 20.	Visible 010°-278°.
14240 <i>E 3685</i>	Rt Platamon.	42° 16.1' N 18° 46.7' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	105 32	9	Stone tower, column, gallery; 33.	
14244 <i>E 3686</i>	Otocic Sveti Nikola, SE. point.	42° 15.6' N 18° 51.5' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	75 23	8	White tower, dwelling; 10.	Visible 248°-113°.
14248 <i>E 3688</i>	Budva, mole, head.	42° 16.8' N 18° 50.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	21 6	3	Red tower, column, gallery; 16.	Visible 090°-270°.
14251 <i>E 3688.5</i>	Katici.	42° 11.7' N 18° 56.2' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	82 25	6	White round tower, concrete base; 16.	
BARKO SIDRISTA:							
14256 <i>E 3689</i>	<b>-Crni Rt.</b>	42° 08.1' N 19° 00.7' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	466 142	25	White round tower, concrete base; 13.	
14260 <i>E 3690</i>	<b>-Rt Volovica.</b>	42° 05.3' N 19° 04.2' E	<b>Fl.(2)W.</b> period 10s	98 30	20	White hexagonal tower, black stripes; 20.	Reserve light range 16M.
14268 <i>E 3691</i>	--W. breakwater, head.	42° 05.9' N 19° 04.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	62 19	6	White round tower, gallery; 43.	
14269 <i>E 3693</i>	--Mole, N. head.	42° 05.8' N 19° 04.9' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	White round tower, red band, platform; 16.	
14272 <i>E 3696</i>	<b>Rt Mendre.</b>	41° 57.2' N 19° 09.0' E	<b>Fl.(3)W.</b> period 10s	115 35	22	White tower, house; 26.	
14276 <i>E 3698</i>	Ulcinj, on old fort.	41° 55.3' N 19° 12.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	88 27	8	White square tower; 13.	
<b>ALBANIA</b>							
SHENGJIN:							
14280 <i>E 3702</i>	-Kep i Shengjinit.	41° 48.6' N 19° 35.1' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	79 24	10	Square black tower.	
14282 <i>E 3702.5</i>	-Mali Renzit.	41° 49.2' N 19° 34.0' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	151 46	10	Building, pole; 52.	
14284 <i>E 3703</i>	-Entrance Range, front, center of jetty.	41° 48.9' N 19° 35.3' E	<b>Fl.R.</b> period 6s fl. 0.5s, ec. 5.5s		5	White square column, white rectangular daymark, black stripes; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALBANIA</b>							
14288 E 3703.1	--Rear, 75 meters 002° from front, base of jetty.	41° 48.9' N 19° 35.3' E	<b>Fl.R.</b> period 5s fl. 0.8s, ec. 4.2s	49 15	5	White square column, white rectangular daymark, black stripes; 39.	
14292 E 3704	Talej.	41° 42.6' N 19° 35.2' E	<b>Fl.W.</b> period 6s	49 15	7	On roof of hydroelectric station.	
14296 E 3705	Kep i Rodonit.	41° 35.3' N 19° 26.9' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	131 40	8	White framework bunker.	
14300 E 3708	Kep i Palit.	41° 24.8' N 19° 23.6' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	105 32	10	Square tower; 46.	
DURRES:							
14304 E 3711	-Kepi i Durresit.	41° 18.9' N 19° 26.1' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	413 126	11	White octagonal tower; 46.	
14310 E 3714.1	-E.	41° 18.8' N 19° 28.0' E	<b>Dir.W.R.G.</b> period 2s	23 7	W. R. G. 7 5 5	White post.	Iso.G.015°-016°30'. Iso.W.-017°30', Iso.R.-019°.
14312 E 3712	-S. mole, head.	41° 18.1' N 19° 27.3' E	<b>Fl.R.</b> period 4s	26 8	6	Red tower; 16.	
14316 E 3714	-E. breakwater, head.	41° 18.3' N 19° 27.4' E	<b>Fl.G.</b> period 6s	26 8	6	Green tower; 16.	
14320 E 3719	Kep i Lagit.	41° 08.8' N 19° 26.3' E	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	66 20	11	White tower; 10.	
14322 E 3720	Karavastase.	40° 52.9' N 19° 25.5' E	<b>Fl.W.</b> period 8s fl. 0.8s, ec. 7.2s	62 19	10		
14324 E 3721	Vijose, at entrance.	40° 38.8' N 19° 18.9' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	7	Square support, white bands; 33.	
ISHULL I SAZANIT							
14328 E 3723	-Ishull i Sazanit, on N. point.	40° 30.7' N 19° 16.2' E	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	515 157	14	Tower, building; 39.	Visible 065°-318°.
14332 E 3725	-Shen Nokole, N. mole.	40° 30.2' N 19° 17.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	3	Green tower; 20.	
14336 E 3726	--S. mole.	40° 30.1' N 19° 17.1' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	3	Red tower; 20.	
14337 E 3726.5	-Kepi I Jugor.	40° 28.5' N 19° 17.2' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	59 18	3	Tower; 33.	
14338 E 3732.5	-Kepi Gjuhezes.	40° 25.3' N 19° 17.6' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	190 58	11	White post, bunker.	
GJI I VLORES:							
14340 E 3728	-Kep i Gallovecit, entrance, S. side.	40° 26.3' N 19° 19.2' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	59 18	3	Framework structure; 20.	Visible 095°-290°.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALBANIA</b>							
14344 <i>E 3727</i>	-Kep i Treporteve, E. shore.	40° 30.7' N 19° 23.8' E	<b>Fl.(2)W.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	230 <b>70</b>	9	White octagonal tower; 33.	
14346 <i>E 3727.6</i>	-W. Breakwater.	40° 29.0' N 19° 26.0' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 <b>8</b>	7	Tower, red gallery; 20.	
14347 <i>E 3727.7</i>	-E. Breakwater.	40° 28.9' N 19° 26.0' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 <b>8</b>	7	Tower, green gallery; 20.	
14348 <i>E 3729</i>	-Vlore, mole, head.	40° 26.9' N 19° 29.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 <b>8</b>	5	Tower; 20.	
14350 <i>E 3729.1</i>	-W. mole.	40° 27.0' N 19° 28.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	33 <b>10</b>	5	Tower; 20.	
14351 <i>E 3729.5</i>	-Kepi i Kalase.	40° 24.9' N 19° 28.9' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	144 <b>44</b>	11	Tower; 26.	
14352 <i>E 3732</i>	-Shen Vasilit.	40° 22.6' N 19° 24.3' E	<b>Fl.(3)W.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	246 <b>75</b>	8	White octagonal tower; 20.	
14360 <i>E 3731</i>	-Gji Dukatit, on Kep i Pasha Liman.	40° 19.7' N 19° 25.2' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	69 <b>21</b>	8	Tower; 26.	
14364 <i>E 3733</i>	Grames.	40° 13.0' N 19° 28.5' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	171 <b>52</b>	8		
PORT E PALERMOS:							
14368 <i>E 3734</i>	-Kep i Palermos.	40° 02.9' N 19° 47.8' E	<b>Fl.W.</b> period 8s fl. 0.5s, ec. 7.5s	371 <b>113</b>	8	White octagonal tower; 33.	
14370 <i>E 3734.5</i>	-Pier, head.	40° 00.3' N 19° 53.4' E	<b>Fl.R.</b> period 3s	23 <b>7</b>	4		
14372 <i>E 3741</i>	Kep i Qefalit.	39° 54.5' N 19° 54.8' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	482 <b>147</b>	12	Post, building; 10.	
14374 <i>E 3742.5</i>	-SE. side.	39° 50.7' N 20° 01.3' E	<b>Fl.(4)W.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	56 <b>17</b>	9	Framework structure, cylindrical base; 20.	
<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14380 <i>N 3747</i>	<b>Nisos Othonoi.</b>	39° 51.8' N 19° 25.7' E	<b>Fl.W.</b> period 10s fl. 0.7s, ec. 9.3s	338 <b>103</b>	18	Round tower, dwelling; 33.	
14384 <i>N 3747.5</i>	-SW. point.	39° 50.2' N 19° 23.2' E	<b>Fl.(2)W.</b> period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	69 <b>21</b>	6	White round hut, column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14385 N 3747.7	-Avlaki Port.	39° 50.4' N 19° 24.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
14388 N 3748	Nisis Errikousa, on Akra Potamopoulo.	39° 53.5' N 19° 35.9' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	161 49	6	Metal framework structure; 13.	
KERKIRA (CORFU):							
14390 N 3749	-Cape Aikaterini.	39° 49.2' N 19° 50.9' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	46 14	6	Metal framework structure; 15.	
14392 N 3750	--Nisis Peristerai.	39° 47.5' N 19° 57.6' E	<b>Fl.R.</b> period 5s fl. 0.4s, ec. 4.6s	75 23	8	Round tower, dwelling; 30.	<b>Radar reflector.</b>
-North Channel:							
14396 N 3754	--Akra Psaromita.	39° 47.1' N 19° 56.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	4	Metal framework structure, green band; 16.	
14398 N 3754.5	--Serpa Bank, E. head.	39° 46.2' N 19° 57.6' E	<b>Q.(3)W.</b> period 10s	39 12	7	E. CARDINAL BYB, beacon, topmark; 33.	
14400 N 3774	-Nisis Vidhon, S. point.	39° 38.3' N 19° 55.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	4	White pyramidal structure, metal framework structure, green band; 26.	
14414 N 3755	-Ormos Gouvion.	39° 39.0' N 19° 51.0' E	<b>2 F.R.</b> (vert.)	20 6	3	Red metal column; 16.	1 meter apart. Private light.
14416 N 3760	--Breakwater, W. head.	39° 37.7' N 19° 54.7' E	<b>Q.R.</b>	23 7	3	White hexagonal hut, column, red band; 26.	
14417 N 3761.7	---N.	39° 38.0' N 19° 54.6' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	23 7	7		
14428 N 3757	-Limeniskos Mandraki, breakwater, W. head.	39° 37.5' N 19° 55.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework structure, red band; 13.	
14430 N 3756	-Akra Sidhero, on citadel.	39° 37.4' N 19° 55.8' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	256 78	13	Round tower, dwelling; 26.	
14432 N 3773	-Akra Anemomilos.	39° 36.7' N 19° 55.7' E	<b>Fl.(2)R.</b> period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 8.2s	26 8	4	White hexagonal hut, gallery, column, red band; 23.	
14436 N 3776	-Akra Levkimnis.	39° 27.6' N 20° 04.3' E	<b>Fl.W.</b> period 6s fl. 0.5s, ec. 5.5s	26 8	7	Metal framework structure; 16.	
14440 N 3778	-Port Levkimnis, river, S. side, pier.	39° 26.2' N 20° 05.2' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	26 8	3	White metal framework structure, red band; 13.	
-West coast:							
14444 N 3779	--Vrakhoi Lagoudhia.	39° 25.1' N 19° 54.3' E	<b>Fl.(3)W.</b> period 14s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 10.5s	56 17	7	Metal framework structure; 7.	
14448 N 3780	--Akra Kosteri.	39° 40.3' N 19° 42.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	79 24	5	Metal framework structure; 13.	
14449 N 3781	---Palaiokastritsas, pier, head.	39° 40.4' N 19° 42.6' E	<b>F.R.</b>	23 7	3	Metal column, red band; 20.	

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14452 N 3781.5	--Akra Arilla.	39° 42.6' N 19° 39.4' E	<b>L.F.I.W.</b> period 7.5s fl. 2s, ec. 5.5s	95 29	4	Metal framework structure; 13.	
14456 N 3782	Sayiadhiaa, on the peninsula.	39° 37.5' N 20° 10.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	19 6	5	White metal pyramidal framework structure; 23.	
14460 N 3783	Nisis Prasoudhi.	39° 30.5' N 20° 09.3' E	<b>Fl.(2)W.</b> period 9s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 6.3s	98 30	8	White pyramidal metal structure; 10.	
14464 N 3784	Ormos Igoumenitsis, on Akra Kondramourt.	39° 29.8' N 20° 13.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	5	White pyramidal metal framework structure, hut; 20.	
14468 N 3784.2	-Pier, head.	39° 30.0' N 20° 15.6' E	<b>2 F.R.</b> (vert.)	30 9	5	White metal column; 23.	1 meter apart.
14472 N 3785	Ormos Mourtou, pier, head.	39° 24.5' N 20° 14.4' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Metal framework structure, white round hut, red band; 13.	
14476 N 3786	Nisis Mavro Oros.	39° 24.3' N 20° 12.6' E	<b>Fl.(3)W.</b> period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	286 87	12	Round tower, dwelling; 46.	
14480 N 3788	Ormos Pargas.	39° 17.0' N 20° 23.9' E	<b>Fl.(2)W.</b> period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	82 25	6	White pyramidal metal structure, framework structure; 23.	
14484 N 3792	<b>-Lakka.</b>	39° 14.0' N 20° 07.7' E	<b>Fl.(3)W.</b> period 24s fl. 0.8s, ec. 3.2s fl. 0.8s, ec. 3.2s fl. 0.8s, ec. 15.2s	210 64	20	Square tower, dwelling; 30.	
NISOS PAXOI:							
14488 N 3794	-Nisis Panayia.	39° 12.2' N 20° 11.7' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	85 26	W. 10 R. 8	Square tower, dwelling; 36.	W. 135°-250°, R.-283°, W.- 325°.
14489 N 3794.7	--Point Kiavari.	39° 12.3' N 20° 11.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	White metal framework structure, gallery, green band; 20.	
14490 N 3795.6	--Akra Nikolaos, NW. point.	39° 12.1' N 20° 11.3' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	26 8	3	White metal framework structure, gallery, red band; 20.	
14491 N 3795	--Limin Paxon, N. breakwater, head.	39° 11.9' N 20° 11.4' E	<b>Fl.G.</b> period 2s fl. 0.2s, ec. 1.8s	26 8	3	White metal framework structure, gallery, green band; 20.	
14491.5 N 3795.7	--N. entrance, on quay.	39° 12.0' N 20° 11.3' E	<b>F.G.</b>	23 7	3	White metal column, green band; 20.	
14492 N 3794.5	--Island, NW. point.	39° 12.4' N 20° 11.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	3	White square hut, red band; 10.	
14494 N 3791.2	-Longos, breakwater, head.	39° 13.8' N 20° 09.9' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, white round hut, green band.	
14496 N 3796	<b>Nisis Andipaxoi</b> , Akra Ovorou (Novarra).	39° 08.4' N 20° 14.9' E	<b>Fl.W.R.</b> period 5s fl. 0.3s, ec. 4.7s	135 41	W. 20 R. 15	Square tower, dwelling; 36.	W. 136°-167°, R.-185°, W.- 307°, R.-037°, W.-060°. Reserve light F.W.R.
14500 N 3800	Ormos Nikopoleos, Akra Mitikas.	39° 00.0' N 20° 41.9' E	<b>Fl.W.R.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	W. 7 R. 5	Metal framework structure, white square hut, pedestal; 26.	W. 347°-078°, R.-135°, W.- 147°.

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
STENON PREVEZIS:							
14504 N 3804	-Entrance Range, near Fort Aktion, front.	38° 56.7' N 20° 45.7' E	<b>Q.Y.</b>	16	5	7 House, yellow triangular daymark point up.	
14508 N 3804.1	--Rear, about 740 meters 066° from front.	38° 56.8' N 20° 46.0' E	<b>L.FI.Y.</b> period 6s fl. 2.5s, ec. 3.5s	31	9	7 Metal framework structure, white square hut, yellow triangular daymark point down; 16.	
14512 N 3806	-Akra Akra.	38° 57.5' N 20° 45.9' E	<b>L.FI.W.</b> period 7.5s fl. 2s, ec. 5.5s	13	4	5 White lantern; 13.	
14518 N 3809	-Limin Preveza, W. mole, head.	38° 57.6' N 20° 45.4' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	23	7	3 Metal framework structure, gallery, red band.	
14520 N 3808	--E. mole, head.	38° 57.5' N 20° 45.5' E	<b>FI.G.</b> period 3s fl. 0.5s, ec. 2.5s	20	6	4 Metal framework structure, white round hut, green band; 16.	
14522 N 3810	-Agios Thomas.	38° 57.8' N 20° 48.0' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	23	7	3 Metal framework structure, gallery, metal column, red band; 19.	
AMVRAKIKOS KOLPOS:							
14524 N 3811	-Akra Laskara.	38° 57.3' N 20° 49.3' E	<b>FI.(2)R.</b> period 6s fl. 0.4s, ec. 1.4s fl. 0.4s, ec. 3.8s	39	12	5 Metal framework structure, white square hut, red band; 16.	
14532 N 3824	-Ormos Salaoras, mole, head.	39° 01.9' N 20° 52.3' E	<b>FI.G.</b> period 8s fl. 0.8s, ec. 7.2s	19	6	5 White round hut, column, green band; 13.	
14536 N 3820	-Akra Koprainis.	39° 01.8' N 21° 04.5' E	<b>FI.(2)W.R.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	29	W. R. 9 3	5 Round tower, dwelling; 30.	W. 169°-349°, R.-169°. Reserve light F.W.R.
14540 N 3817	-Ormos Ampilokhias, Ayios Yeoryios, on point.	38° 53.6' N 21° 09.0' E	<b>FI.G.</b> period 3s fl. 0.4s, ec. 2.6s	20	6	4 White metal framework structure, green band; 16.	
14542 N 3818	Amfilochia.	38° 52.1' N 21° 09.8' E	<b>FI.G.</b> period 2s fl. 0.3s, ec. 1.7s	16	5	3 Metal framework structure, gallery, metal column, green band; 13.	
14544 N 3816	-Akra Khondri Miti.	38° 54.8' N 21° 06.8' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	36	11	4 Metal framework structure, white square hut; 16.	
14548 N 3814	-Vonitsa, jetty, head.	38° 55.3' N 20° 53.3' E	<b>FI.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	23	7	4 White round hut, column, green band; 16.	
14556 N 3812	-Akra Panayia.	38° 57.4' N 20° 51.8' E	<b>L.FI.G.</b> period 7.5s fl. 2.5s, ec. 5s	19	6	3 White lantern, green band; 15.	
NISOS LEVKAS:							
14560 N 3832	-Citadel, N. battlement.	38° 50.8' N 20° 43.2' E	<b>FI.(2)W.R.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	57	W. R. 17 5	8 Square tower, dwelling; 20.	R. 075°-120°, W.-255°.
14568 N 3835	-Nisis Sesoula.	38° 41.7' N 20° 32.3' E	<b>FI.W.</b> period 4.5s fl. 0.5s, ec. 4s	121	37	8 Column, white round hut; 13.	
14572 N 3836	-Akra Dhoukaton.	38° 33.8' N 20° 32.6' E	<b>FI.W.</b> period 10s fl. 0.2s, ec. 9.8s	229	70	20 Round tower, dwelling; 49.	

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14576	-Ormos Vasilikis, pier, head.	38° 37.7' N 20° 36.4' E	<b>F.G.</b>	16 5	3	White metal column; 13.	
14580 N 3840	Akra Eliar.	38° 40.0' N 20° 48.5' E	<b>Fl.W.R.</b> period 8s fl. 1s, ec. 7s	39 12	W. 10 R. 7	White round hut, column; 13.	R. 070°-165°, W.-019°.
14581 N 3939.5	Vathy, N. mole, head.	38° 39.9' N 20° 46.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, green band; 16.	
14584 N 3842	-Nisis Volios, Ormos Dhrepanov, NE. side.	38° 47.8' N 20° 43.7' E	<b>Fl.W.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 8	W. 5 R. 3	Dwelling; 13.	R. 293°-335°, W.-181°.
14588 N 3844	--Akra Kefali.	38° 45.5' N 20° 45.9' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	36 11	5	Metal framework structure; 13.	
14592 N 3850	Palairos (Zaverdha), mole, head.	38° 46.9' N 20° 52.6' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Metal framework structure, white round hut, green band; 19.	
14596 N 3852	Akra Kamilafka.	38° 40.3' N 20° 55.2' E	<b>Fl.(3)W.</b> period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.7s	79 24	7	Metal framework structure, white square hut; 20.	
14600 N 3853	Akra Mitika.	38° 40.0' N 20° 56.7' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	20 6	4	Metal framework structure, white round hut; 18.	Visible 278°-149°.
14604 N 3854	Nisos Kalamos, Akra Astroyiali.	38° 39.1' N 20° 57.5' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	43 13	5	Metal framework structure, white square hut; 20.	
14608 N 3855	-Limeniskos Kalamos.	38° 37.3' N 20° 55.9' E	<b>Fl.R.</b> period 3s fl. 0.4s, ec. 2.6s	23 7	3	Metal framework structure, white square hut, red band; 20.	
14609 N 3853.5	-Episkopi Kalamou.	38° 38.9' N 20° 55.6' E	<b>Fl.R.</b> period 3s fl. 0.6s, ec. 2.4s	23 7	8	Metal framework structure, gallery, metal column, red band; 20.	
14610 N 3857	Nisis Kastos, W. side.	38° 33.9' N 20° 54.1' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
14611 N 3856	-E. side.	38° 34.1' N 20° 54.7' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	20 6	5	Metal framework structure, gallery, metal column, red band.	
14612 N 3846	Nisis Formikoula.	38° 33.9' N 20° 51.2' E	<b>Fl.W.R.</b> period 3s fl. 0.5s, ec. 2.5s	56 17	W. 8 R. 5	Dwelling, white lantern; 13.	W. 180°-000°, R.-180°.
14614 N 3848	Nisidha Atokos.	38° 28.4' N 20° 48.4' E	<b>Fl.W.</b> period 6s fl. 0.6s, ec. 5.4s	82 25	10	White metal framework structure, gallery, metal column; 20.	
14616 N 3896	Nisis Kaloyeros, NE. peak.	38° 29.6' N 21° 01.9' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	102 31	8	White lantern; 13.	
14620 N 3898	Ormos Astakou, pier, head.	38° 31.9' N 21° 04.9' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	20 6	3	Metal framework structure, red band; 18.	
14624 N 3900	Ormos Platiyiali, Akra Karloglossa.	38° 28.4' N 21° 05.0' E	<b>Q.R.</b>	26 8	3	Metal framework structure, red band; 16.	
14625 N 3901	-Platygi Bay, N. entrance.	38° 28.5' N 21° 05.5' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework structure, gallery, metal column, red band; 23.	
14626 N 3901.2	--S. entrance.	38° 28.2' N 21° 05.7' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 16.	

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14627 N 3901.5	Nisidha Provati.	38° 27.3' N 21° 02.6' E	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	33 10	6	White metal framework structure, gallery, metal column.	
14628 N 3902	Nisis Pondikos.	38° 27.6' N 21° 03.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	
14630 N 3903	Vrakhos Navalion.	38° 26.6' N 21° 02.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 1s fl. 0.4s, ec. 8.2s	26 8	6	ISOLATED DANGER BRB, beacon, topmark.	
14632 N 3904	Nisis Petalas, Akra Aspro.	38° 23.6' N 21° 06.0' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	39 12	4	White round hut, column; 19.	
14634 N 3905	Vrakhonisdha Makri.	38° 22.4' N 21° 01.5' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	30 9	6	White metal framework structure, gallery, metal column; 20.	
14636 N 3906	Nisis Makropoula (Kouneli).	38° 21.1' N 21° 03.3' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	92 28	6	White round hut; 13.	
14640 N 3908	<b>Akra Oxia.</b>	38° 17.0' N 21° 06.0' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	230 70	17	Round tower, dwelling; 26.	
NISOS ITHAKI:							
14644 N 3866	-Akra Pisaetou.	38° 21.8' N 20° 40.0' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	62 19	6	White lantern; 10.	
14648 N 3858	-Akra Ayiou Nikolaou.	38° 29.4' N 20° 40.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	49 15	7	Metal framework structure; 20.	
14652 N 3859	-Ormos Frikas, S. mole, head.	38° 27.6' N 20° 39.9' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	19 6	3	Metal framework structure; 20.	
14654 N 3859.5	-Ormos Kioni, mole, head.	38° 27.0' N 20° 41.6' E	<b>F.G.</b>	26 8	3	Green metal column.	
14656 N 3860	-Limin Vathi.	38° 23.0' N 20° 42.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	66 20	5	Round hut; 13.	
14660 N 3861	--Skartsoumbonisi.	38° 22.6' N 20° 42.0' E	<b>Fl.G.</b> period 4s fl. 0.3s, ec. 3.7s	26 8	3	Metal framework structure; 16.	
14664 N 3862	--Nisis Loimokathartirion.	38° 22.2' N 20° 42.8' E	<b>Q.G.</b>	26 8	2	White hexagonal hut, column, green band; 26.	
14668 N 3864	-Akra Ayiou Ioannou.	38° 19.2' N 20° 45.9' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	33 10	10	Metal framework structure; 16.	
NISOS KEFALLINIA:							
14672 N 3876	-Akra Fiskardhon.	38° 27.8' N 20° 34.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	92 28	7	Square tower, dwelling; 46.	Obscured by shore on bearings E. of 155°.
14676 N 3874	-Ormos Ayios Evfemias, mole, head.	38° 18.2' N 20° 36.1' E	<b>Q.G.</b>	20 6	3	Metal framework structure, gallery, green band; 18.	
14680 N 3872	-Sami, mole, head.	38° 15.3' N 20° 38.8' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	30 9	4	Metal framework structure, gallery, metal column, red band; 20.	

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14684 <i>N 3870</i>	-Akra Dhik Halia.	38° 16.9' N 20° 40.5' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	56 17	5	Metal framework structure, white round hut, red band; 18.	
14688 <i>N 3869.4</i>	-Ormos Porou, pier, head.	38° 08.9' N 20° 46.9' E	<b>Q.G.</b>	23 7	3	Metal framework structure, white round hut, green band; 18.	
14690 <i>N 3869.42</i>	--NE. mole, head.	38° 08.9' N 20° 46.9' E	<b>Fl.R.</b> period 4s fl. 0.4s, ec. 3.6s	26 8	5	Metal framework structure, gallery, metal column, red band.	
14692 <i>N 3869.7</i>	-Akra Sarakini.	38° 09.0' N 20° 47.2' E	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	52 16	5	Metal framework structure; 13.	
14696 <i>N 3869</i>	-Akra Kapri.	38° 06.4' N 20° 48.8' E	<b>Fl.(3)W.R.</b> period 9s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 3.6s	66 20	W. 6 R. 4	Metal framework structure; 13.	W. 190°-354°, R.-017°.
14700 <i>N 3868</i>	-Akra Katelios.	38° 03.7' N 20° 44.6' E	<b>Fl.(2)W.R.</b> period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 11.4s	351 107	W. 11 R. 8	Metal framework structure, white round hut; 19.	R. 262°-302°, W.-100°.
14704 <i>N 3882</i>	-Nisis Vardhianoï, Kolpos Argostolin, entrance.	38° 08.0' N 20° 25.5' E	<b>Fl.W.R.</b> period 7.5s fl. 0.7s, ec. 6.8s	36 11	W. 6 R. 4	Round tower; 26.	R. 200°-222°, W.-080°, R.-107°.
14708 <i>N 3890</i>	--Akra Ayios Theodoros.	38° 11.5' N 20° 28.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	5	White round building, columns.	
	-Kolpos Argostoliou:						
14712 <i>N 3892</i>	--Argostolion, shoal, E. head.	38° 11.2' N 20° 29.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	13 4	3	Metal framework structure; 10.	
14716 <i>N 3884</i>	--Lixourion, S. mole, head.	38° 12.0' N 20° 26.6' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	White hexagonal hut, column, red band; 22.	Visible 009°-345°. Fl.G. 1.5s marks head of N. mole.
14720 <i>N 3880</i>	-Akra Yerogombos.	38° 10.8' N 20° 20.5' E	<b>L.Fl.(2)W.</b> period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	190 58	24	Round tower; 43.	Obscured when bearing more than 151°.
<b>NISOS ZAKINTHOS:</b>							
14724 <i>N 3984</i>	-Akra Skinari.	37° 55.9' N 20° 42.1' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	216 66	20	Round tower, dwelling; 30.	
14726 <i>N 3985</i>	-Ayios Nikolaos.	37° 54.3' N 20° 42.8' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	49 15	7	Metal framework structure, white round hut; 16.	
14728 <i>N 3986</i>	-Akra Krioneri.	37° 48.3' N 20° 54.3' E	<b>Fl.(2)W.</b> period 16s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 12.5s	69 21	6	White square concrete hut; 26.	
14736 <i>N 3989</i>	-Zakinthou, S. breakwater, head.	37° 46.9' N 20° 54.2' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 8	4	White hexagonal hut, gallery, column, red band; 23.	
14737 <i>N 3988</i>	--N. breakwater, head.	37° 46.9' N 20° 54.3' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	36 11	5	Square hut, gallery, column, green band; 30.	
14740 <i>N 3990</i>	-Akra Kerion.	37° 39.3' N 20° 48.5' E	<b>Fl.W.</b> period 10s fl. 0.4s, ec. 9.6s	636 194	17	Round tower, dwelling; 23.	

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
PATRAIKOS KOLPOS:							
14744 N 3910	-Akra Araxos.	38° 12.9' N 21° 22.4' E	<b>L.Fl.(2)W.</b> period 20s fl. 2s, ec. 6s fl. 2s, ec. 10s	23 7	10	Metal framework structure; 16.	
14750 N 3916.5	-Lakkopetra.	38° 10.8' N 21° 29.5' E	<b>Fl.Y.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, yellow metal column.	
14752 N 3918	-Liminiskos Alikon, Kato Akhaia, pier, head.	38° 09.5' N 21° 32.3' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	W. 5 R. 3	Metal framework structure, gallery, metal column; 20.	W. 120°-269°, R.-120°.
14756 N 3912	<b>-Nisis Ayios Sostis.</b>	38° 19.3' N 21° 22.5' E	<b>Fl.W.R.</b> period 5s fl. 0.1s, ec. 4.9s	39 12	W. 17 R. 14	Round tower, dwelling; 37.	R. 293°-010°, W.-059°, obsc.-198°, W.-203°. Reserve light F.W. Visibility may be considerably reduced during the summer.
14761.5 N 3928.2	--Breakwater, S. head.	38° 15.6' N 21° 44.2' E	<b>FR.</b>	16 5	1	Hexagonal hut, column; 13.	
14763 N 3919	--Breakwater, head.	38° 15.6' N 21° 44.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	39 12	8	Metal framework structure; 13.	
14763.5 N 3919.2	--Provlita Astingos, head.	38° 15.5' N 21° 44.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	8	White metal framework structure, red band; 20.	
14764 N 3926	--Molos Kalavritas, head.	38° 14.9' N 21° 43.7' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Metal framework structure, green band; 16.	
14768 N 3927	--Ayios Andreas, mole, head.	38° 14.8' N 21° 43.6' E	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	26 8	10	Metal framework structure, gallery, metal column, green band; 26.	
14769 N 3921.5	--Glavkos, breakwater, N. head.	38° 14.0' N 21° 43.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	23 7	9	Metal framework structure, gallery, metal column, green band; 23.	
14769.1 N 3921	----S. head.	38° 13.4' N 21° 42.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	9	Metal framework structure, gallery, metal column, red band; 23.	
14776 N 3920	--Detached breakwater, elbow.	38° 15.3' N 21° 44.0' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	10 3	3	White metal framework structure, green band; 7.	Visible 180°-035°.
14780 N 3936	-Akra Ayia.	38° 16.9' N 21° 44.8' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 3.8s	23 7	4	Metal framework structure; 13.	
14781 N 3939.5	-Rio, pier, head.	38° 18.0' N 21° 46.3' E	<b>2 FG. (vert.)</b>	23 7	3	White metal column; 20.	1 meter apart. Private light.
KORINTHIAKOS KOLPOS:							
14784 N 3938	-Akra Andirion, entrance, N. side.	38° 19.6' N 21° 45.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s	52 16	10	Round tower, dwelling; 30.	
14786 N 3938.5	-Rio-Antirrio Bridge, center.	38° 19.2' N 21° 46.4' E	<b>Iso.W.</b> period 4s	190 58	8	Circular daymark, red and white vertical stripes.	
-RACON							
<b>T(-)</b>							
14788 N 3940	-Akra Rion.	38° 18.8' N 21° 46.8' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	52 16	6	Metal framework structure, white round hut.	



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14792 <i>N 3942</i>	-Navpaktos.	38° 23.5' N 21° 49.8' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	43 13	3	Metal column; 23.	
14796 <i>N 3946</i>	-Akra Mornos.	38° 22.2' N 21° 52.5' E	<b>Fl.(3)W.</b> period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	23 7	7	Metal framework structure, white square hut; 20.	
14798 <i>N 3954.2</i>	-Akra Marathias, W. mole, head.	38° 23.4' N 22° 00.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, red band; 16.	
14798.5 <i>N 3954.22</i>	--E. mole, head.	38° 23.4' N 22° 00.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, green band; 16.	
14800 <i>N 3952</i>	-Nisis Trizonia, E. side.	38° 22.1' N 22° 04.7' E	<b>Fl.W.</b> period 4s fl. 0.8s, ec. 3.2s	30 9	4	Metal framework structure; 16.	
14804 <i>N 3956</i>	<b>-Akra Psaromita.</b>	38° 19.3' N 22° 11.0' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	213 65	21	Round tower, dwelling; 30.	Visible 226°-143°.
14808 <i>N 3957</i>	-Eratini, W. pier, head.	38° 21.5' N 22° 13.6' E	<b>2 F.R.</b> (vert.)	23 7	3	Metal column, red band.	1 meter apart.
14808.5 <i>N 3957.5</i>	-Ormos Panormou, N. mole head.	38° 21.6' N 22° 15.1' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	Metal framework structure, gallery, metal column, red band; 20.	
14812 <i>N 3958</i>	-Akra Andromakhi.	38° 20.0' N 22° 22.7' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 14	10	Metal framework structure; 16.	
14816 <i>N 3960</i>	-Ormos Galaxidhiou, Nisis Apsifia.	38° 22.7' N 22° 24.2' E	<b>Fl.W.</b> period 7s fl. 0.6s, ec. 6.4s	43 13	5	Metal framework structure, white round hut; 20.	
14820 <i>N 3962</i>	-Ormos Galaxidhiou.	38° 22.8' N 22° 23.3' E	<b>Fl.R.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	36 11	3	Metal framework structure, white round hut; 20.	R. 080°-216°, G.-347°.
14822 <i>N 3963.2</i>	-Itea, pier, (T head).	38° 25.9' N 22° 25.5' E	<b>Q.R.</b>	23 7	5	Metal framework structure, gallery, metal column, red band.	
14824 <i>N 3963</i>	---Head.	38° 25.8' N 22° 25.4' E	<b>Fl.R.G.</b> period 3s fl. 0.4s, ec. 2.6s	29 9	4	White hexagonal hut, column, gallery; 26.	G. 295°-355°, R.-030°, G.-111°.
14828 <i>N 3964</i>	-Akra Makri-Nicolaos.	38° 17.0' N 22° 32.9' E	<b>Fl.W.</b> period 4.5s fl. 0.4s, ec. 4.1s	59 18	5	Metal framework structure; 10.	
14832 <i>N 3970</i>	-Ormos Andikiron, entrance, W. side.	38° 21.5' N 22° 38.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	62 19	4	Metal framework structure, white round hut; 20.	
14833 <i>N 3970.5</i>	--Andikira Harbor, mole, head.	38° 22.5' N 22° 37.9' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	33 10	7	Round tower, dwelling.	
14834 <i>N 3965</i>	-Saranti Bay.	38° 14.0' N 22° 53.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, red band; 18.	
14834.3 <i>N 3965.03</i>	-Fonas, W. head.	38° 10.4' N 22° 56.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	52 16	7	Metal framework structure.	
14834.7 <i>N 3965.07</i>	--E. head.	38° 10.6' N 22° 58.3' E	<b>Fl.R.</b> period 4s fl. 0.4s, ec. 3.6s	33 10	4	Metal framework structure, red band; 10.	

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14835 <i>N 3965.1</i>	-Grompoloura.	38° 10.9' N 22° 58.9' E	<b>FI.G.</b> period 4s fl. 0.3s, ec. 3.7s	23 7	4	Metal framework structure, green band; 10.	
14835.3 <i>N 3965.13</i>	-Cape Tsarla.	38° 11.4' N 22° 58.1' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	Metal framework structure, red band; 10.	
14835.7 <i>N 3965.16</i>	-Cape Ioannis.	38° 12.7' N 22° 57.3' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework structure, green band; 10.	
14835.8 <i>N 3965.18</i>	-Nikolaos, mole, head.	38° 12.8' N 23° 01.2' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band; 18.	
14836 <i>N 3965.2</i>	-Alyki Bay.	38° 11.8' N 23° 02.8' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, red band; 18.	
14838 <i>N 3965.4</i>	-Vasileios Bay.	38° 10.9' N 23° 08.5' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, green band; 18.	
14840 <i>N 3971</i>	-Germaino, W. mole, head.	38° 09.5' N 23° 13.2' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, metal column, red band; 18.	FI.G. 2s marks E. mole head.
14844 <i>N 3972</i>	<b>-Akra Melangavi.</b>	38° 01.7' N 22° 51.1' E	<b>FI.W.</b> period 10s fl. 0.3s, ec. 9.7s	197 60	19	Square tower, dwelling; 39.	
	-Korinthos:						
14852 <i>N 3976</i>	--Posidhonia, Dhiorix Korinthou, entrance, N. mole, head.	37° 57.2' N 22° 57.5' E	<b>Iso.R.</b> period 2s	33 10	10	White metal framework structure, gallery; 26.	Dhiorix Korinthou is lighted by electric lights. A W. light shown from flagstaff indicates that vessels can enter, 2 W. lights prohibit entry.
14856 <i>N 3977</i>	---S. mole, head.	37° 57.2' N 22° 57.5' E	<b>Iso.G.</b> period 2s	33 10	10	White metal framework structure, gallery; 26.	
14857 <i>N 3978.9</i>	--S. mole, head.	37° 56.4' N 22° 56.2' E	<b>FR.</b>	20 6	3	White concrete column, red band; 13.	
14857.1 <i>N 3978.91</i>	--N. mole, head.	37° 56.5' N 22° 56.2' E	<b>FG.</b>	23 7	3	White concrete column, green band; 13.	
14860 <i>N 3979</i>	--Pierhead, about 2.4 km. 250° from Posedhonia, S. mole.	37° 56.7' N 22° 56.2' E	<b>FI.G.</b> period 3s fl. 0.4s, ec. 2.6s	33 10	3	White column, white hexagonal hut, gallery, green band; 30.	
14864 <i>N 3973</i>	-Kiaton, jetty, head.	38° 00.8' N 22° 45.0' E	<b>FI.G.</b> period 3s fl. 1s, ec. 2s	30 9	6	Metal framework structure, gallery, metal column, green band; 20.	
14864.1 <i>N 3973.3</i>	--N. mole, head.	38° 00.7' N 22° 45.2' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
14864.2 <i>N 3973.5</i>	--W. mole, head.	37° 57.9' N 22° 48.6' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	
14865 <i>N 3973.6</i>	-Kato Assos. Fishing Harbour, outer S. mole.	37° 57.2' N 22° 50.1' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band; 20.	
14866 <i>N 3968.2</i>	-Xylokastro, S. mole.	38° 04.9' N 22° 37.5' E	<b>FR.</b>	26 8	3	Metal column, red band.	
14868 <i>N 3967</i>	-Akra Likoporia.	38° 08.2' N 22° 29.2' E	<b>FI.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	56 17	10	White metal framework tower, gallery; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14872 N 3950	-Ormos Aiyou, S. side of gulf, pier, head.	38° 15.2' N 22° 04.9' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Metal framework structure, white round hut, red band; 18.	
14876 N 3948	-Akra Dhrepanon.	38° 20.3' N 21° 51.0' E	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	33 10	10	Round tower, dwelling; 29.	
14876.1 N 3995.85	Lechena, fishing harbor, N mole, head.	37° 58.0' N 21° 14.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
14876.2 N 3995.8	--S. mole, head.	37° 58.0' N 21° 14.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
14877 N 3948.5	-Arakhovitika, fishing harbor, mole, head.	38° 19.9' N 21° 50.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	5	Metal framework structure, gallery, metal column, green band; 16.	
14878 N 3995.5	Kyllini, Fishing Harbor, S. Mole, head.	37° 56.1' N 21° 09.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, red band.	
14879 N 3995.6	--N. Mole, head.	37° 56.2' N 21° 09.0' E	<b>Fl.G.</b> period 3s	23 7	3	Metal framework structure, gallery, green band.	
14879.5 N 3995.7	--N. breakwater.	37° 56.2' N 21° 09.2' E	<b>Fl.G.</b> period 1.3s	26 8	3		
14880 N 3996	Nisis Kavkalidha.	37° 56.4' N 21° 07.2' E	<b>L.Fl.W.R.</b> period 10s fl. 2s, ec. 8s	69 21	W. 12 R. 9	Square tower, dwelling; 49.	W. 016°-059°, R.-092°, W.- 211°. Reserve light F.W.R.
14884 N 3997	Akra Tripiti.	37° 50.5' N 21° 06.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	23 7	7	Metal framework structure, white round hut; 17.	
14888	<i>Gastouni, LIGHTFLOAT.</i>	37° 47.1' N 21° 14.0' E	<b>Fl.Y.</b> period 2s	26 8	3	Black float, framework tower; 26.	
14892 N 3998	<b>Akra Katakolon.</b>	37° 38.2' N 21° 18.9' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	161 49	15	Octagonal tower, dwelling; 30.	
14896	Ormos Katakolou, pier, head.	37° 38.7' N 21° 19.6' E	<b>Fl.R.</b> period 5s fl. 0.8s, ec. 4.2s	33 10	10	White round hut, red band; 29.	
NISOI STROFADHES:							
14900 N 4004	<b>-Nisis Stamfani.</b>	37° 14.7' N 21° 00.2' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	127 39	17	Square tower, dwelling; 36.	
14904 N 4006	Nisis Proti, S. point.	37° 02.0' N 21° 33.0' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	43 13	6	Metal framework structure, white round hut; 18.	
ORMOS NAVARINOU:							
14908 N 4008	-Nisis Pilos, SE. point, N. side of entrance to bay.	36° 54.3' N 21° 40.4' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	105 32	9	Metal framework structure; 20.	
14912 N 4009	-Akra Neokastron.	36° 54.7' N 21° 41.3' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	49 15	6	White hexagonal hut, gallery, column, green band; 26.	
14916 N 4010	-Pilos, pier, head.	36° 54.9' N 21° 41.8' E	<b>F.G.</b>	23 7	3	White metal column, green band; 16.	Fl.G. 3s 3M and Fl.R. 3s 3M mark marina 600 meters ENE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14917 N 4010.2	--Mole, head.	36° 55.0' N 21° 41.8' E	<b>F.G.</b>	20 6	3	Metal framework structure.	
14920 N 4011	-Nisis Helonisi.	36° 56.5' N 21° 41.3' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	W. 4 R. 3	White hexagonal hut, gallery, column; 26.	W. 113°-095°, R.-113°.
14924 N 4014	Methoni, pier, head.	36° 48.8' N 21° 42.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	White metal framework structure, red band; 13.	
NISIS SAPIENTZA:							
14928 N 4015	-N. point (Akra Karsi).	36° 47.7' N 21° 42.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	72 22	5	White pyramidal structure; 13.	
14932 N 4016	-S. summit.	36° 44.3' N 21° 41.9' E	<b>Fl.(3)W.</b> period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 13.2s	381 116	18	Octagonal tower, dwelling; 31.	
14940 N 4017	Nisis Venetiko, N. point.	36° 42.2' N 21° 53.2' E	<b>Fl.W.</b> period 9s fl. 0.5s, ec. 8.5s	26 8	7	Metal framework structure, white round hut; 18.	
MESSINIAKOS KOLPOS:							
14944 N 4018	-Koroni, mole, head.	36° 48.0' N 21° 57.6' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	Metal framework structure; 13.	
14948 N 4020	-Akra Livadhia.	36° 47.6' N 21° 58.0' E	<b>Fl.W.</b> period 1.5s fl. 0.4s, ec. 1.1s	62 19	5	Metal framework structure; 13.	
14952 N 4022	-Akra Petalidhi.	36° 57.5' N 21° 56.1' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	23 7	5	Metal framework structure, white round hut; 18.	
14954 N 4031	-Marina. S. breakwater, head.	37° 01.3' N 22° 06.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework structure, gallery, green band.	
14955 N 4031.2	--N. breakwater, head.	37° 01.4' N 22° 06.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework structure, gallery, red band.	
14956 N 4026	-Kalamai, S. jetty, head.	37° 01.1' N 22° 07.1' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	33 10	3	White hexagonal hut, column, red band; 23.	
14960 N 4030	--Inner mole, head.	37° 01.3' N 22° 06.9' E	<b>Q.G.</b>	20 6	3	White round hut, column, green band; 13.	
14964 N 4028	--New E. mole, head.	37° 01.2' N 22° 07.2' E	<b>Fl.G.</b> period 3s	30 9	3	White hexagonal hut, column, green band; 13.	
14968 N 4032	-Akra Kitries.	36° 54.9' N 22° 07.7' E	<b>Fl.(2)W.</b> period 12s fl. 0.8s, ec. 1.4s fl. 0.8s, ec. 9s	105 32	7	Square tower, dwelling; 36.	
14972 N 4036	-Kardhamili, jetty, N.	36° 53.0' N 22° 14.0' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White round hut, column; 16.	
14976 N 4038	-Selenitsa.	36° 49.4' N 22° 16.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White round hut, column; 16.	
14980 N 4040	-Ormos Limeniou, entrance, S. side.	36° 40.6' N 22° 22.1' E	<b>Fl.W.</b> period 1.5s fl. 0.4s, ec. 1.1s	56 17	6	White metal column, dwelling; 7.	

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
14984 N 4042	-Mezapos.	36° 32.6' N 22° 23.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	52 16	5	White pyramidal structure; 12.	
LAKONIKOS KOLPOS:							
14988 N 4044	-Gerolimena.	36° 28.6' N 22° 23.8' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	59 18	6	Metal framework structure; 13.	
14992 N 4048	-Akra Tainaron.	36° 23.1' N 22° 28.9' E	<b>Fl.(2)W.</b> period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 17.3s	135 41	22	Square tower, dwelling; 52.	
15000 N 4050	-Porto Kayio, Akra Tainaron, E. side.	36° 25.8' N 22° 29.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	64 20	8	Metal framework structure; 10.	
15004 N 4051	-Ormos Melingani.	36° 30.6' N 22° 29.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	49 15	4	Metal framework structure, green band; 13.	
15008 N 4052	-Limin Yithion, Nisis Kranai, E. head.	36° 45.1' N 22° 34.5' E	<b>Fl.(3)W.</b> period 18s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 9s	82 25	14	Octagonal tower, dwelling; 75.	
15012 N 4054	--Jetty, head.	36° 45.4' N 22° 34.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, red band.	
15016 N 4058	-Molaon, E. side of gulf, mole, head.	36° 45.0' N 22° 47.8' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	33 10	3	Metal framework structure, white round hut, green band; 16.	
15020 N 4060	-Akra Xilis.	36° 39.3' N 22° 49.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	5	Metal framework structure, white round hut; 16.	
15024 N 4062	-Ormos Xilis, Plitra, mole, head.	36° 41.0' N 22° 50.0' E	<b>Q.G.</b>	26 8	3	Metal framework structure; 7.	
15028 N 4073	Vrakhos Stavros.	36° 30.7' N 22° 58.8' E	<b>Fl.R.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Metal framework structure; 13.	R. 000°-180°, G.-000°.
15030 N 4073.6	Neapoli, mole, NW head.	36° 30.5' N 23° 03.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band; 20.	
15036 N 4074	Ormos Vatika.	36° 29.4' N 23° 03.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	52 16	7	Metal framework structure; 10.	
15040 N 4076	Akra Zovollo.	36° 25.8' N 23° 07.7' E	<b>Fl.W.</b> period 7s fl. 1s, ec. 6s	43 13	12	White lantern; 13.	
15044 N 4078	<b>Akra Maleas.</b>	36° 27.1' N 23° 12.0' E	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	131 40	17	Square tower, dwelling; 49.	Visible 175°-345°.
NISOS KITHIRA:							
15048 N 4066	-Akra Spathi.	36° 22.8' N 22° 56.8' E	<b>Fl.(3)W.</b> period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	374 114	20	Round tower, dwelling; 82.	Visible 062°-319°.
15050 N 4071	-Ayia Pelayia.	36° 19.6' N 22° 58.9' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	19 6	3	Metal framework structure, white round hut, red band; 18.	
15051 N 4067	-Kapsali, pier, head.	36° 08.3' N 22° 59.9' E	<b>F.G.</b>	33 10	3	White metal column, green band; 33.	

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<b>GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)</b>							
15052 <i>N 4068</i>	-Ormos Kapsaliou, E. side.	36° 08.5' N 23° 00.1' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	79 24	10	Tower, dwelling; 26.	
15060 <i>N 4070</i>	-Ormos Ayiou Nikolaou, entrance, SE. side.	36° 13.4' N 23° 04.9' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	White round hut, column, green band; 20.	
15062 <i>N 4070.3</i>	-Diakofti, mole, head.	36° 16.2' N 23° 04.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, red band.	
15064 <i>N 4065</i>	-Vrakhonisis Andidhronera.	36° 14.1' N 23° 07.0' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 14	7	Metal framework structure; 13.	
15068 <i>N 4070.6</i>	-Diakofti Kithiron, on Vrachonisis Makronisos.	36° 16.4' N 23° 04.8' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	59 18	7	Metal framework structure; 13.	
NISOS ANDIKITHIRA:							
15076 <i>N 4072</i>	<b>-Akra Apolitaes.</b>	35° 49.6' N 23° 19.6' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	131 40	17	Round tower, dwelling; 26.	
15080 <i>N 4072.4</i>	-Akra Kastron.	35° 53.4' N 23° 17.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	102 31	6	White metal framework structure; 13.	
15082 <i>N 4072.6</i>	--Entrance, W. limit.	35° 53.1' N 23° 17.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	59 18	3	White metal framework structure, green band; 13.	
15084 <i>N 4088</i>	<b>Nisis Falkonera.</b>	36° 50.2' N 23° 53.3' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	499 152	17	White lantern; 13.	Visible 169°-120°.
15088 <i>N 4090</i>	<b>Nisis Velopoula.</b>	36° 55.7' N 23° 27.2' E	<b>Fl.(2)W.</b> period 20s fl. 0.2s, ec. 3s fl. 0.2s, ec. 16.6s	367 112	22	Octagonal tower, dwelling; 26.	
<b>GREECE</b>							
15092 <i>N 4080</i>	Akra Monemvasia, Khers Elos, E. side.	36° 41.3' N 23° 03.5' E	<b>Fl.W.</b> period 5s fl. 0.6s, ec. 4.4s	49 15	11	Metal framework structure, white square hut; 23.	
15096 <i>N 4081</i>	-Mole, head.	36° 41.3' N 23° 02.5' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
15100 <i>N 4082</i>	Angirovoliou Palaia Monemvasia.	36° 43.9' N 23° 02.5' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	Metal framework structure, white round hut, green band; 23.	
15104 <i>N 4086</i>	Ormos Ierakos, Akra Kastro.	36° 47.1' N 23° 05.4' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	69 21	5	White round hut, column, green band; 20.	
15108 <i>N 4092</i>	Ormos Kiparissiou, entrance, S. side.	36° 58.1' N 23° 00.2' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	Metal framework structure, red band; 10.	
15112 <i>N 4094</i>	-Akra Aspro Khorti.	36° 59.0' N 23° 00.3' E	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	138 42	7	White round hut, column; 12.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
ARGOLIKOS KOLPOS:							
15116 N 4096	-Leonidhion, W. side of entrance to gulf.	37° 08.7' N 22° 53.6' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Metal column, green band; 13.	
15117 N 4095	-Poulithra, mole, head.	37° 07.0' N 22° 54.2' E	<b>F.R.</b>	26 8	3	White concrete column, red band; 23.	
15120 N 4098	-Akra Sambatikis.	37° 11.4' N 22° 54.7' E	<b>L.Fl.W.</b> period 7.5s fl. 2s, ec. 5.5s	72 22	6	Metal framework structure; 13.	
15124 N 4104	-Akra Astros.	37° 25.4' N 22° 46.1' E	<b>Fl.W.</b> period 5s fl. 0.8s, ec. 4.2s	253 77	7	Metal framework structure; 13.	
15132 N 4107	-Ormos Navpliou, pier, head.	37° 33.3' N 22° 43.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	White hexagonal hut, column, red band; 23.	
15134 N 4106.2	-Kiveri, N. breakwater, head.	37° 31.5' N 22° 43.9' E	<b>Fl.Y.</b> period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal framework structure, gallery, metal column; 16.	
15134.5 N 4106	--S. mole, head.	37° 31.5' N 22° 44.1' E	<b>F.R.</b>	20 6	3	White metal column, red band; 13.	
15135 N 4107.5	Nea Kios.	37° 35.0' N 22° 44.9' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	Metal framework structure, gallery, metal column, red band.	
15136 N 4108	--Akra Panayias.	37° 33.7' N 22° 47.5' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	36 11	5	Metal framework structure, white round hut; 16.	
15140 N 4109	--Breakwater, head.	37° 34.0' N 22° 47.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	White hexagonal hut, gallery, column, green band; 26.	
15143 N 4110.6	-Tolo Bay, pier, head.	37° 30.9' N 22° 51.5' E	<b>2 F.R.</b> (vert.)	20 6	3	White metal column, red band; 16.	1 meter apart.
15144 N 4110.4	-Akra Skala.	37° 30.2' N 22° 52.5' E	<b>Fl.(2)W.R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	75 23	W. 6 R. 4	Metal framework structure, white round hut; 23.	W. 207°-315°, R.-343°, W.-075°.
15148 N 4110	--Nisis Tolo, Akra Megali.	37° 30.6' N 22° 51.3' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	82 25	3	Metal framework structure, white round hut; 20.	
15152 N 4111	-Limin Khaidhari.	37° 31.3' N 22° 56.1' E	<b>Fl.(3)W.R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	39 12	W. 5 R. 3	Metal framework structure, white round hut; 20.	W. 301°-046°, R.-058°, W.-220°.
15154 N 4111.5	-Iria, fishing harbor, S. mole, head.	37° 28.7' N 22° 59.9' E	<b>F.G.</b>	20 6	3	Metal column, green band.	
15156 N 4112	-Nisis Ipsili.	37° 25.8' N 22° 58.1' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	52 16	9	Metal framework structure; 13.	Visible 301°-157°.
15160 N 4113	-Ormos Koiladhos, Akra Kokkina.	37° 25.3' N 23° 06.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	4	White pyramidal structure; 13.	
15161 N 4113.5	--Pier, head.	37° 25.1' N 23° 07.7' E	<b>2 F.G.</b> (vert.)	26 8	3	White metal column; 23.	1 meter apart.
15164 N 4114	-Akra Korakas.	37° 21.1' N 23° 04.0' E	<b>Fl.W.</b> period 7s fl. 1s, ec. 6s	39 12	11	White lantern; 10.	Visible 311°-131°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
15168 N 4103	-Nisis Petrokaravo, N. extremity.	37° 17.1' N 23° 04.8' E	<b>Fl.(2)W.</b> period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 7.2s	72 22	7	Metal framework structure; 10.	
15172 N 4118	-Limin Kheliou, entrance, N. side.	37° 18.9' N 23° 07.6' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	72 22	5	White square hut, two pilasters; 23.	
15174 N 4118.3	-Cheli, SE. entrance.	37° 18.5' N 23° 08.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	White hexagonal hut, gallery, column, green band.	
15176 N 4100	<b>-Nisos Spetsai.</b>	37° 15.8' N 23° 10.0' E	<b>Fl.W.R.</b> period 5s fl. 0.2s, ec. 4.8s	89 27	W. 18 R. 14	White round tower, dwelling; 36.	W. 124°-254°, R.-278°, W.-330°.
15180 N 4101	--Ormos Balitza, entrance, E. side.	37° 15.8' N 23° 10.0' E	<b>Q.R.</b>	16 5	3	White metal framework structure, red band; 13.	
15184 N 4102	--Limin Dipias, E. pier, head.	37° 16.2' N 23° 09.4' E	<b>F.R.</b>	20 6	3	White metal column, red band.	F.G. 3M marks W. pier head.
15188 N 4099	--Akra Mavrokavos.	37° 14.8' N 23° 09.9' E	<b>Fl.W.R.</b> period 2s fl. 0.4s, ec. 1.6s	23 7	W. 5 R. 3	Metal framework structure, white round hut; 16.	W. 199°-314°, R.-333°, W.-019°.
15192 N 4120	-Akra Mouzaki.	37° 20.9' N 23° 16.7' E	<b>L.Fl.W.</b> period 7.5s fl. 2.5s, ec. 5s	75 23	4	Metal framework structure; 13.	Visible 127°-037°.
15196 N 4124	-Nisos Dhokos, Stenon Petasi, N. side.	37° 19.9' N 23° 21.3' E	<b>Fl.(2)W.R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	75 23	W. 6 R. 4	Round tower, dwelling; 30.	W. 219°-341°, R.-026°, W.-063°.
15200 N 4126	-Limin Idhras, E. jetty.	37° 21.2' N 23° 28.0' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	34 10	3	Metal framework structure, white round hut, red band; 16.	
15204 N 4130	--W. jetty, head.	37° 21.1' N 23° 28.0' E	<b>F.G.</b>	16 5	2	White stone column, green band.	
15208 N 4127	--E. breakwater, head.	37° 21.1' N 23° 28.0' E	<b>F.R.</b>	20 6	2	White stone column, red band.	
15210 N 4119	-Akra Aimilianos.	37° 17.4' N 23° 12.0' E	<b>Fl.W.R.</b> period 10s fl. 0.5s, ec. 9.5s	23 7	W. 8 R. 6	Hexagonal hut, gallery, column; 16.	W. 193°-314°, R.-357°, W.-070°.
15212 N 4122	-Akra Kastri.	37° 23.1' N 23° 15.6' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	72 22	4	White square hut, two pilasters; 13.	
15216 N 4134	<b>Akra Zourvas.</b>	37° 21.9' N 23° 34.8' E	<b>Fl.(3)W.</b> period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	119 36	17	Square tower, dwelling; 33.	Visible 128°-023°.
15218 N 4134.5	Fourkari, Soupia Installation, W. groyne, head.	37° 25.4' N 23° 29.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, red band; 18.	
15219 N 4134.6	--E. groyne, head.	37° 25.4' N 23° 29.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, green band; 18.	
15220 N 4135	Nisoi Tselevinia, Nisis Skilli.	37° 26.7' N 23° 32.7' E	<b>Fl.W.</b> period 3s fl. 0.6s, ec. 2.4s	102 31	8	White round hut; 10.	Visible 078°-010°.
15224 N 4136	<b>-Nisis Ayios Yeoryios.</b>	37° 27.8' N 23° 56.2' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	476 145	17	White lantern; 33.	Visible 169°-116°.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
SARONIKOS KOLPOS:							
-Nisos Poros:							
15228 <i>N 4140</i>	--Akra Dana.	37° 31.7' N 23° 25.5' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	102 31	W. 8 R. 5	Square tower, dwelling; 30.	W. 026°-200°, R.-209°, W.-266°.
15232 <i>N 4140.3</i>	--Akra Nedha.	37° 31.1' N 23° 25.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6		White round hut, metal column, red band; 16.	Visible 299°-214°.
15236 <i>N 4141</i>	--Akra Stavros, island, S. point.	37° 29.6' N 23° 27.7' E	<b>Fl.G.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7		White metal framework structure, dwelling; 10.	G. 253°-284°, R.-309°, G.-110°.
15240 <i>N 4141.2</i>	-Methana, S. point.	37° 34.5' N 23° 23.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7		White square concrete column, gallery, green band; 16.	Q.G. 7m 3M and Q.R. 7m 3M mark marina entrance.
15244 <i>N 4141.37</i>	--Pier, head.	37° 34.8' N 23° 23.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7		Metal framework structure, gallery, metal column, green band; 18.	
15248 <i>N 4154</i>	-Nisis Moni, W. point.	37° 41.2' N 23° 25.4' E	<b>Fl.(2)W.R.G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	85 26	W. 11 R. 8 G. 8	White lantern, square masonry base; 16.	W. 296°-322°, R.-336°, W.-075°, G.-165°, W.-173°, R.-187°, W.-223°.
15252 <i>N 4144</i>	--Akra Plakakia.	37° 45.7' N 23° 25.1' E	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	36 11		Round tower, dwelling; 30.	
-Nisos Aiyina:							
15256 <i>N 4148</i>	--Aiyina, N. mole, head.	37° 44.7' N 23° 25.5' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	23 7		Metal framework structure, white round hut; 16.	
15260 <i>N 4149</i>	---Near root.	37° 44.7' N 23° 25.6' E	<b>Fl.R.</b>	23 7		Metal framework structure, white round hut; 16.	
15264 <i>N 4150</i>	--SE. mole, head.	37° 44.7' N 23° 25.6' E	<b>Fl.G.</b>	23 7		Metal framework structure, green round hut; 20.	
15266 <i>N 4153</i>	-Ayia Marina, pier, head.	37° 44.6' N 23° 32.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	16 5		Metal framework structure, gallery, metal column, green band.	
15268 <i>N 4152</i>	-Akra Tourlos.	37° 45.8' N 23° 33.9' E	<b>Fl.W.</b> period 3.6s fl. 0.5s, ec. 3.1s	92 28		Metal framework structure; 16.	
15270 <i>N 4151</i>	-Leonti, mole, head.	37° 46.4' N 23° 28.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7		Metal framework structure, gallery; 20.	
15272 <i>N 4158</i>	-Nisos Lagousa, E. point.	37° 48.8' N 23° 28.4' E	<b>L.Fl.W.</b> period 7.5s fl. 2s, ec. 5.5s	39 12		Metal framework structure, white round hut; 16.	
15276 <i>N 4141.5</i>	--Vathi, W. side of Khersonisos Methanon.	37° 35.6' N 23° 20.2' E	<b>Fl.R.</b>	39 12		White concrete column, red band; 33.	
15280 <i>N 4141.6</i>	-Limin Palaia Ediphavron, Akra Yiannouzaina (Kalamaki).	37° 38.5' N 23° 10.1' E	<b>Fl.W.</b> period 2s fl. 0.4s, ec. 1.6s	33 10		White round hut; 13.	Visible 185°-095°.
15284 <i>N 4141.64</i>	--N. side of channel.	37° 38.3' N 23° 09.7' E	<b>Q.G.</b>	16 5		White hexagonal hut, pedestal, green band; 10.	
15288 <i>N 4141.66</i>	--S. side.	37° 38.3' N 23° 09.7' E	<b>Q.R.</b>	16 5		White hexagonal hut, pedestal, red band; 16.	
15292 <i>N 4141.7</i>	--Pier, head.	37° 38.3' N 23° 09.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		White hexagonal hut, column, red band; 23.	Visible 253°-280°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
15296 N 4141.8	-Ormos Neas Epidhavrrou.	37° 40.7' N 23° 09.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	White hexagonal hut, column, red band; 20.	Visible 257°-331°.
15300 N 4141.9	-Spalathronisi.	37° 42.1' N 23° 14.1' E	<b>Fl.W.</b> period 8s fl. 0.4s, ec. 7.6s	121 37	6	White metal column; 7.	
15304 N 4142	-Ormos Sofikou.	37° 45.6' N 23° 07.8' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	36 11	5	White square hut, two pilasters; 13.	
15308 N 4143	-Nisis Euraios, NE. point.	37° 51.6' N 23° 08.6' E	<b>Fl.W.</b> period 10s fl. 0.5s, ec. 9.5s	157 48	7	White metal column; 13.	
15312 N 4160	--Kalamaki, mole, W. side.	37° 55.0' N 23° 00.5' E	<b>Iso.R.</b> period 2s	33 10	10	White metal mast, red band; 26.	
	-Dhiorix Korinthou Entrance:						
15316 N 4160.4	--Breakwater, N. side, NE. head.	37° 54.9' N 23° 00.7' E	<b>Iso.G.</b> period 2s	26 8	10	White metal framework structure, green band; 23.	
15320 N 4162	-Akra Sousaki.	37° 54.7' N 23° 03.4' E	<b>Fl.G.</b> period 10s fl. 0.2s, ec. 9.8s	30 9	12	Round tower, dwelling; 26.	Visibility may be reduced by bright shore lights.
15324 N 4168	-Akra Kokhi.	37° 52.4' N 23° 26.9' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	112 34	9	Round tower, dwelling; 39.	
15328 N 4167	-Nisidhes Kanakia.	37° 54.2' N 23° 23.5' E	<b>Fl.W.</b> period 6s fl. 0.3s, ec. 5.7s	56 17	5	Metal framework structure, white round hut; 16.	
15336 N 4164	-Akra Karas.	37° 57.4' N 23° 25.0' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	26 8	8	Metal framework structure, white round hut; 16.	
15340 N 4164.4	-Nisis Revithousa.	37° 57.6' N 23° 24.4' E	<b>Fl.W.</b> period 1.5s fl. 0.2s, ec. 1.3s	30 9	6	White hexagonal hut, column; 23.	
15344 N 4163.3	-Nisis Pakhi, E. head.	37° 57.9' N 23° 22.1' E	<b>Fl.W.R.</b> period 3s fl. 0.4s, ec. 2.6s	43 13	W. R. 5 3	White hexagonal hut, gallery, column; 26.	W. 145°-030°, R.-054°, W.- 078°.
15346 N 4163	-Ormos Pakhi.	37° 58.3' N 23° 21.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	16 5	3	Metal framework structure; 10.	
15347 N 4163.2	-E. mole, head.	37° 58.4' N 23° 21.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, column, green band.	
15348 N 4163.5	-Ormos Paches, W. pier, head.	37° 58.3' N 23° 22.8' E	<b>2 F.R.</b> (vert.)	39 12	3	White metal column.	Private light.
15352 N 4163.6	--E. pier, head.	37° 58.3' N 23° 22.9' E	<b>2 F.R.</b> (vert.)	20 6	3	White metal column.	Private light.
15356 N 4165	-Makronisos, W. head.	37° 58.0' N 23° 24.6' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	46 14	3	Metal framework structure; 16.	
15370 N 4169.5	-Selinia, pier, head.	37° 56.0' N 23° 32.2' E	<b>2 F.R.</b> (vert.)	23 7	3	White metal column.	
15372 N 4169	-Nisis Atalandi.	37° 56.1' N 23° 34.4' E	<b>Fl.W.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 8	W. R. 4 2	Metal framework structure, white round hut; 16.	W. 095°-065°, R.-095°.
15376 N 4170	-Nisis Psittalia.	37° 56.6' N 23° 35.7' E	<b>Fl.(2)W.</b> period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	154 47	25	Round tower, dwelling; 46.	

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<b>GREECE</b>							
15378 <i>N 4170.1</i>	--Pier, head.	37° 56.6' N 23° 35.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, metal column, red band; 23.	
15380 <i>N 4170.2</i>	--SW. head.	37° 56.2' N 23° 34.9' E	<b>Fl.G.</b> period 1.5s fl. 0.2s, ec. 1.3s	46 14	3	Metal framework structure; 16.	
15384 <i>N 4171.5</i>	-Akra Keos, mole, head.	37° 56.9' N 23° 35.9' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	46 14	9	White round tower, gallery, green band.	
15388 <i>N 4170.4</i>	-Akra Kinosoura.	37° 56.8' N 23° 34.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	4	Metal framework structure, white square hut, red band; 23.	
15390 <i>N 4170.5</i>	-Kinosoura Shipyard, jetty, head.	37° 56.9' N 23° 33.2' E	<b>FR.</b>	16 5	2	White metal column, red band; 23.	Private light.
15392 <i>N 4170.6</i>	-Ormos Ambelakia, Khandris, pier.	37° 57.0' N 23° 32.9' E	<b>2 F.G.</b> (vert.)	16 5	3	White metal column, green band; 9.	1 meter apart. Private light.
15402 <i>N 4170.82</i>	--SE. jetty.	37° 57.6' N 23° 32.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, green band; 16.	Visible 181°-090°.
15404 <i>N 4174.86</i>	--Titan Pier, head.	38° 01.9' N 23° 32.5' E	<b>2 F.R.</b> (vert.)	33 10	2	White metal column, red band; 30.	1 meter apart. F.R. 3M and F.G. 3M mark mole heads of fishing harbor 0.5 mile ENE.
15408 <i>N 4175.7</i>	--Tourkolimano, pier, head.	38° 01.9' N 23° 30.6' E	<b>Iso.R.</b> period 2s	36 11	9	White hexagonal hut, gallery, column, red band; 26.	
	-Kolpos Elevsinos:						
15412 <i>N 4175.54</i>	--Cement factory pier, NW. corner.	38° 02.6' N 23° 31.7' E	<b>3 F.R.</b>	33 10	3	White metal column; 26.	Private light.
15420 <i>N 4175</i>	--E. breakwater, head.	38° 02.1' N 23° 32.2' E	<b>Fl.(2)G.</b> period 12s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 10s	19 6	3	Metal framework structure, green band; 13.	
15424 <i>N 4175.52</i>	---Main pier.	38° 02.4' N 23° 32.0' E	<b>2 F.R.</b> (vert.)	39 12	2	White metal column, red band; 33.	Private light.
15428 <i>N 4175.5</i>	--Naval pier, head.	38° 02.2' N 23° 32.0' E	<b>3 F.R.</b> (vert.)	39 12	2	White metal column; 33.	1 meter apart.
15432 <i>N 4174.84</i>	--Kalimpaki, pier, head.	38° 02.3' N 23° 33.6' E	<b>2 F.R.</b> (vert.)	20 6	3	Metal framework structure, gallery, metal column.	1 meter apart. Private light.
15436 <i>N 4174.83</i>	--Airport, pier head, about 460 meters NW. of Texaco pier.	38° 02.1' N 23° 35.2' E	<b>FR.</b>	16 5	3	White metal column, red band; 13.	
15440 <i>N 4174.82</i>	--Sidenor, pier, head.	38° 02.1' N 23° 35.4' E	<b>3 F.G.</b> (vert.)	30 9	3	White metal column, green band.	1 meter apart. Private light.
15444 <i>N 4174.8</i>	--Texaco, pier, head.	38° 02.0' N 23° 35.4' E	<b>2 F.G.</b> (vert.)	30 9	6	White metal mast, green band; 23.	Private light.
15448 <i>N 4174.78</i>	--Koumondoros, pier, head.	38° 01.7' N 23° 35.7' E	<b>3 F.G.</b> (horiz.)	26 8	3	Metal mast, green band; 20.	Private light.
15449 <i>N 4174.79</i>	--Pier, head.	38° 01.5' N 23° 35.5' E	<b>2 F.G.</b> (horiz.)	26 8	3	Metal mast, green band; 16.	Private light.
15450 <i>N 4174.73</i>	--Mobil oil pier, head.	38° 01.3' N 23° 35.6' E	<b>3 F.G.</b> (vert.)	43 13	5	White metal column, green band; 30.	1 meter apart. Private light.
15450.1 <i>N 4174.74</i>	---110 meters from pier, head.	38° 01.3' N 23° 35.7' E	<b>FR.</b>	92 28	3	White metal column, red band; 69.	Private light.
15452 <i>N 4174.77</i>	--Shipyard, jetty, head.	38° 00.2' N 23° 35.4' E	<b>2 F.G.</b> (vert.)	20 6	3	White metal column, green band; 10.	1 meter apart. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
15456 N 4174.7	--Ormos Palaska, mole, head.	37° 59.9' N 23° 34.9' E	<b>Q.G.</b>	20	6	4 White round hut, metal column, green band; 13.	
15460 N 4174.6	--Megali Kira.	38° 00.0' N 23° 33.4' E	<b>Fl.W.</b> period 2.5s fl. 0.3s, ec. 2.2s	23	7	5 Metal framework structure; 13.	
15462 N 4176.3	--Nea Peramos.	37° 59.9' N 23° 25.2' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26	8	3 Metal framework structure, gallery, metal column, green band; 20.	
15464 N 4176	--Nisos Salamis, NE. point.	38° 00.2' N 23° 29.1' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	23	W. R. 7	4 Metal framework structure; 13. 3	W. 072°-093°, R.-164°, W.-277°.
15466 N 4176.5	--Nisis Leros.	37° 59.7' N 23° 32.1' E	<b>2 F.R.</b> (vert.)	26	8	3 White metal column; 23.	1 meter apart.
15468 N 4174.4	--Akra Amfiali (Ormos Skaramanga), W. breakwater.	37° 59.5' N 23° 34.0' E	<b>Q.R.</b>	26	8	3 Metal framework structure; 13.	
15472 N 4174.2	--Nisis Arpidhoni, W. extremity.	37° 59.3' N 23° 33.5' E	<b>Fl.W.</b> period 1.5s fl. 0.1s, ec. 1.4s	23	7	5 Metal framework structure, white round hut; 18.	
15476 N 4174	--Akra Filatouri.	37° 58.8' N 23° 33.1' E	<b>Fl.(2)W.</b> period 14s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 11.8s	44	13	5 White square metal hut, column, dwelling; 13.	
	-Perama:						
15480 N 4173	--Limeniskos Neon, breakwater, head.	37° 58.3' N 23° 33.2' E	<b>F.R.</b>	20	6	2 White metal column, red band; 10.	
15489 N 4172.8	--Limeniskos Alieon, pier, head.	37° 57.8' N 23° 33.2' E	<b>Fl.R.</b> period 3s	20	6	3	
15496 N 4172.6	--W. pier, head.	37° 57.6' N 23° 34.5' E	<b>2 F.R.</b> (vert.)	20	6	3 White metal column, red band; 16.	
15516 N 4177.2	--Ormos Foron, T-jetty, S. head.	37° 56.7' N 23° 36.8' E	<b>2 F.G.</b> (vert.)	30	9	3 White metal column, green band; 16.	1 meter apart. 3 F.R. (vert.) on chimney 950 meters NNE. Private light.
15520 N 4177.4	--Loading pier, head.	37° 56.7' N 23° 36.9' E	<b>F.G.</b>	30	9	3 White metal mast, green band; 23.	Private light.
15524 N 4178	--Molos Themistokleus, head.	37° 56.2' N 23° 37.3' E	<b>L.F.I.G.</b> period 6s fl. 2s, ec. 4s	43	13	9 Concrete tower, green band; 33.	
15528 N 4180	--Molos Vasileus Yeoryios, head.	37° 56.3' N 23° 37.3' E	<b>L.F.I.R.</b> period 6s fl. 2s, ec. 4s	46	14	9 Concrete tower, red band; 33.	
15536 N 4182	--Limin Zeas, S. breakwater, head.	37° 55.9' N 23° 39.2' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33	10	7 White hexagonal hut, gallery, column, red band; 16.	4 F.W. 52m (occasional) lights mark stadium 1800 meters NE. Fl.G. 3M and Fl.R. 3M lights shown inside marina.
15540 N 4182.4	---N. breakwater, head.	37° 56.0' N 23° 39.1' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26	8	4 Metal framework structure; 16.	
15544 N 4186	--Limin Mounikhias, N. breakwater, head.	37° 56.2' N 23° 39.7' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	30	9	6 Metal framework structure, white round hut, green band; 16.	Visible 205°-145°.
15548 N 4186.2	---S. breakwater, head.	37° 56.2' N 23° 39.7' E	<b>Iso.R.</b> period 2s	33	10	8 Metal framework structure, red band; 13.	Visible 109°-049°.
15550 N 4187.4	---SE. jetty, head.	37° 56.2' N 23° 39.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	13	4	2 Metal framework structure, red band; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
-Ormos Falirou:							
15551 <i>N 4187.5</i>	--Neo Falirou Marina, Outer N. mole, head.	37° 56.4' N 23° 40.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	White metal framework structure, gallery, metal column, red band.	
15551.1 <i>N 4187.51</i>	---Inner N. mole, head.	37° 56.4' N 23° 40.2' E	<b>Q.R.</b>	30 9	3	Metal framework structure, gallery, metal column, red band.	
15551.2 <i>N 4187.52</i>	---Inner S. mole, head.	37° 56.4' N 23° 40.1' E	<b>Q.G.</b>	26 8	3	Metal framework structure, gallery, metal column, green band.	
15551.5 <i>N 4187.53</i>	---Outer S. mole, head.	37° 56.3' N 23° 40.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	6	Metal framework structure, gallery, metal column, green band.	
15552 <i>N 4186.5</i>	--Detached breakwater, W. end.	37° 56.1' N 23° 40.0' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	White metal framework structure, green band; 10.	
15552.5 <i>N 4186.6</i>	---E. end.	37° 56.1' N 23° 40.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	White metal framework structure, red band; 10.	
15553 <i>N 4187.54</i>	--River Ilissos. Mouth, center.	37° 56.4' N 23° 40.8' E	<b>Fl.Y.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, yellow band.	
15560 <i>N 4188.2</i>	--Submerged breakwater.	37° 56.1' N 23° 41.1' E	<b>Q.G.</b>	20 6	4	White hexagonal hut, pedestal, green band; 10.	
15562 <i>N 4187.56</i>	--S. breakwater, head.	37° 56.2' N 23° 41.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	16 5	3	White metal framework structure, gallery, metal column, red band.	
15562.2 <i>N 4187.57</i>	--N. breakwater, head.	37° 56.2' N 23° 41.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	13 4	3	White metal framework structure, gallery, metal column, green band.	
15568 <i>N 4189.556</i>	-Flisvos, N. mole, head.	37° 56.0' N 23° 40.9' E	<b>Q.R.</b>	26 8	3	Metal framework structure, gallery, metal column, red band; 20.	
15568.5 <i>N 4189.55</i>	--Breakwater, W. end.	37° 56.1' N 23° 40.8' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	7	Metal framework structure, gallery, metal column, red band; 20.	
15569 <i>N 4189.5</i>	--S. mole, head.	37° 56.1' N 23° 40.7' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	36 11	9	Metal framework structure, gallery, metal column, green band; 20.	
15569.1 <i>N 4189.552</i>	---Elbow.	37° 56.1' N 23° 40.8' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	36 11	3	White metal framework structure, gallery, metal column, green band; 20.	Visible 105°-322°.
15569.2 <i>N 4189.554</i>	---Entrance.	37° 56.1' N 23° 40.8' E	<b>Q.G.</b>	33 10	3	White metal framework structure, gallery, metal column, green band; 16.	Visible 142°-345°.
15572 <i>N 4189.6</i>	-Limin Alimos Marina, SW. breakwater, head.	37° 54.7' N 23° 42.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	9	White hexagonal hut, column, gallery, green band; 26.	
15576 <i>N 4189.8</i>	--NE. breakwater, head.	37° 54.7' N 23° 42.1' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	9	White hexagonal hut, column, gallery, red band; 26.	
15578 <i>N 4190</i>	-Akra Agios Kosma.	37° 53.5' N 23° 42.7' E	<b>Q.(9)W.</b> period 15s	23 7	5	W. CARDINAL YBY, beacon, topmark; 23.	
15582 <i>N 4190.6</i>	-Olympic Sailing Center, entrance.	37° 52.9' N 23° 43.5' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	36 11	3	Metal framework structure, gallery, metal column, green band; 16.	
15584 <i>N 4192</i>	-Vrakhoi Meringia.	37° 50.4' N 23° 43.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework structure; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
15586 <i>N 4192.3</i>	-Voula, mole, head.	37° 50.3' N 23° 45.7' E	<b>F.R.</b>	26 8	3	White metal column, red band.	
15588 <i>N 4194</i>	-Ormos Vouliagmenis, on islet.	37° 48.2' N 23° 46.5' E	<b>Fl.(3)R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	31 9	7	Metal framework structure, gallery, column, red band; 13.	
15592 <i>N 4193</i>	Nisis Fleves, summit.	37° 45.9' N 23° 45.5' E	<b>Fl.(3)W.</b> period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	134 41	8	White pyramidal structure, gallery; 10.	Visible 285°-161°.
15596 <i>N 4198</i>	-Ormos Anavissou.	37° 43.1' N 23° 56.0' E	<b>Q.W.R.</b>	26 8	W. 3 R. 2	White metal framework structure; 16.	W. 219°-036°, R.-047°.
15598 <i>N 4199</i>	-Limin Anavissou, mole, head.	37° 43.2' N 23° 56.7' E	<b>F.G.</b>	26 8	3	White metal column, green band; 23.	
15600 <i>N 4200</i>	-Akra Katafiyi.	37° 40.3' N 23° 56.3' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	56 17	4	White round hut, column; 10.	
15604 <i>N 4202</i>	-Nisis Patroklou Gaidouronisis, N. side.	37° 39.4' N 23° 57.4' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	23 7	6	White round hut, column; 13.	
DHIAVLOS MAKRONISOU:							
15608 <i>N 4204</i>	-Makronisos, Akra Angalistros.	37° 38.7' N 24° 06.3' E	<b>Fl.(2)W.</b> period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	105 32	12	Lantern; 13.	Visible 207°-168°.
15612 <i>N 4208</i>	-Akra Fonias, channel, W. side.	37° 41.1' N 24° 04.3' E	<b>Fl.W.</b> period 2.5s fl. 0.5s, ec. 2s	43 13	6	Metal framework structure, white round hut; 18.	
15614 <i>N 4208.5</i>	-Ormos Gaidhouromandra.	37° 41.7' N 24° 03.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	12	Metal framework structure, gallery, metal column, red band.	
15616 <i>N 4209</i>	-Akra Ergastiria.	37° 42.8' N 24° 03.9' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	4	Metal framework structure, white round hut; 20.	Visible 148°-081°.
15616.1 <i>N 4209.1</i>	-Lavrio, N. mole, head.	37° 42.5' N 24° 04.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	5	Metal framework structure, gallery, metal column, green band; 18.	
15617 <i>N 4209.5</i>	-Ormos Thorikos, S. entrance.	37° 44.0' N 24° 03.2' E	<b>F.R.</b>	20 6	3	White metal column, red band; 13.	
15618 <i>N 4209.51</i>	--N. entrance.	37° 44.0' N 24° 03.3' E	<b>F.G.</b>	20 6	3	White metal column, green band; 13.	
15620 <i>N 4210</i>	<b>-Akra Vrisaki.</b>	37° 44.6' N 24° 04.8' E	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	69 21	16	Tower, dwelling; 26.	Visible 186°-006°.

# Section 11

## Kikladhes Islands, Crete and East Coast of Greece

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KIKLADHES</b>							
NISOS KEA:							
15624 N 4218	-Akra Tameios.	37° 31.3' N 24° 16.5' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	197 60	17	Round tower, dwelling; 33.	
15628 N 4212	-Ormos Ayiou Nikolaou.	37° 40.2' N 24° 18.9' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	105 32	15	Square tower, dwelling; 23.	
15632 N 4214	--Akra Ayiou Savva, entrance, S. side.	37° 39.9' N 24° 18.7' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	69 21	5	Metal framework structure; 13.	
15636 N 4215	--Ormos Livadhi, pier, head.	37° 39.8' N 24° 18.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column; 22.	
NISOS KITHNOS:							
15640 N 4223	-Akra Ayios Dhimitris.	37° 18.0' N 24° 21.8' E	<b>Fl.W.</b> period 10s fl. 1.5s, ec. 8.5s	75 23	12	Metal framework structure; 13.	
15642 N 4225	-Ormos Merikha.	37° 23.4' N 24° 23.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column; 10.	
15644 N 4224	-Ormos Merikhas.	37° 23.9' N 24° 23.4' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	W. 5 R. 3	Metal framework structure, white square hut; 23.	W. 315°-340°, R.-030°, W.- 173°.
15648 N 4220	-Akra Kefalos.	37° 28.9' N 24° 26.2' E	<b>Fl.W.</b> period 4s fl. 0.2s, ec. 3.8s	177 54	9	Metal framework structure; 18.	
15652 N 4222	-Ormos Loutron.	37° 26.5' N 24° 26.0' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	46 14	5	Metal framework structure; 13.	
15653 N 4222.5	--Breakwater, head.	37° 26.6' N 24° 25.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column.	
NISOS ANDROS:							
15656 N 4332	-Akra Kastri.	37° 52.5' N 24° 43.6' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	223 68	8	Metal framework structure, gallery; 36.	
15659 N 4332.3	--Mole, head.	37° 53.0' N 24° 44.0' E	<b>Q.G.</b>	26 8	3	White metal framework structure, gallery, green band; 20.	
15660 N 4332.5	-Ormos Gavriou, Akra Marmara.	37° 52.7' N 24° 44.0' E	<b>Fl.R.G.</b> period 2s fl. 0.3s, ec. 1.7s	50 15	3	White hexagonal hut, column; 20.	R. 248°-005°, G.-178°.
15664 N 4333	-Akra Kolona.	37° 51.2' N 24° 46.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	69 21	5	Metal framework structure, white round hut; 18.	
15672 N 4330	-Akra Fassa.	37° 58.0' N 24° 42.1' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	659 201	22	Round tower, dwelling; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KIKLADHES</b>							
15676 N 4338	-Akra Gria.	37° 53.8' N 24° 57.2' E	<b>Fl.W.</b> period 10s fl. 0.5s, ec. 9.5s	282 86	25	Round tower, dwelling; 36.	
15680 N 4334	-Ormos Kastrou, Nisis Tourlitis, entrance to port.	37° 50.4' N 24° 56.5' E	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	62 19	6	Round stone tower; 23.	
15684 N 4336	--Mole, head.	37° 50.0' N 24° 56.0' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework structure; 20.	
15688 N 4337.5	-Akra Ayiou Kosma.	37° 46.3' N 24° 59.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	223 68	7	Metal framework structure; 10.	
	-Ormos Korthiou:						
15692 N 4336.5	--Ayias Aikaterinis.	37° 46.7' N 24° 57.6' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	46 14	3	White pyramidal structure; 10.	
15700 N 4342	<b>Vrakhoi Kaloyerai.</b>	38° 09.5' N 25° 17.5' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	124 38	17	White pyramidal structure, gallery; 10.	
	NISOS SIROS:						
15704 N 4312	-Akra Trimeson.	37° 30.8' N 24° 53.0' E	<b>Fl.(2)W.</b> period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	203 62	12	White lantern; 13.	
15708 N 4308	-Nisis Dhidhimi, W. summit.	37° 25.6' N 24° 58.3' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	223 68	12	Round tower, dwelling; 96.	
15712 N 4306	-Nisis Aspro.	37° 23.5' N 24° 59.7' E	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 9.8s	171 52	7	Metal framework structure; 13.	
15714 N 4307	-Akhladhi, Varis Bay, mole, head.	37° 23.2' N 24° 56.5' E	<b>Fl.R.</b> period 4s fl. 0.3s, ec. 3.7s	26 8	3	Metal framework structure, gallery, metal column, red band; 20.	
15716 N 4316	-Akra Vinglostasi.	37° 21.8' N 24° 52.6' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	246 75	6	Metal framework structure, white round hut; 16.	Visible 251°-151°.
15720 N 4314	-Dhimitra, Foinikes Bay.	37° 23.5' N 24° 52.4' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	4	Metal framework structure; 13.	Visible 198°-085°.
15721 N 4315	-Finikas Bay, S. mole, head.	37° 23.3' N 24° 52.8' E	<b>Fl.G.</b>	26 8	3	White metal column, green band.	
15722 N 4313	-Psathonisi.	37° 23.3' N 24° 51.7' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	5	Metal framework structure, round hut; 16.	
15723 N 4312.5	-Kinion Bay, mole, head.	37° 26.8' N 24° 53.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column; 16.	
15724 N 4310	-Akra Kondoyiannis.	37° 25.9' N 24° 57.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	56 17	5	Metal framework structure; 13.	
15728 N 4311	-Limin Ermoupolis, N. breakwater, head.	37° 26.2' N 24° 56.8' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	9	Metal framework structure, gallery, metal column, green band; 26.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KIKLADHES</b>							
15732 N 4311.2	--S. breakwater, head.	37° 26.0' N 24° 56.9' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	36 11	9	White hexagonal hut, gallery, column, red band; 30.	
15733 N 4311.7	--Oil supply platform.	37° 26.0' N 24° 55.0' E	<b>F.Y.</b>	39 12	3	Metal column; 33.	
NISOS TINOS:							
15736 N 4318	<b>-Nisis Dhisvato.</b>	37° 40.3' N 24° 58.0' E	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	108 33	16	Square tower, dwelling.	
15738 N 4320	-Nisis Planitis.	37° 39.7' N 25° 04.1' E	<b>Fl.(2)W.</b> period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	262 80	10	White metal framework structure, square hut; 20.	
15744 N 4322	-Akra Livadha.	37° 36.5' N 25° 15.2' E	<b>Fl.W.</b> period 15s fl. 1.5s, ec. 13.5s	135 41	7	White square tower, dwelling.	
15752 N 4326	--N. jetty, head.	37° 32.2' N 25° 09.6' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	30 9	3	White hexagonal hut, column, red band; 26.	
15756 N 4327	--N. mole, head.	37° 32.2' N 25° 09.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	7	White hexagonal hut, gallery, column, red band; 28.	
15758 N 4328	-Agios Romanos, fishing harbor, breakwater, head.	37° 34.2' N 25° 06.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	
NISOS SERIFOS:							
15760 N 4230	-Akra Kiklops.	37° 07.3' N 24° 24.9' E	<b>Fl.(2)W.</b> period 14s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 12.2s	220 67	9	White lantern; 16.	
15764 N 4228	<b>-Akra Spathi.</b>	37° 06.7' N 24° 30.3' E	<b>Fl.(3)W.</b> period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 19.7s	219 67	19	Square tower, dwelling; 39.	
15768 N 4232	-Akra Pounda, mole, head.	37° 08.5' N 24° 31.1' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure; 13.	
15769 N 4233	-Livadhion, pier, head.	37° 08.6' N 24° 31.0' E	<b>2 F.R.</b> (vert.)	20 6	3	White metal column, red band; 16.	1 meter apart.
NISOS SIFNOS:							
15772 N 4234	-Akra Fillippos, on rock.	37° 02.3' N 24° 38.6' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	138 42	9	Metal framework structure; 10.	
15776 N 4234.5	-Akra Kokkala.	36° 59.9' N 24° 39.3' E	<b>Fl.(2)W.</b> period 10s fl. 0.6s, ec. 1s fl. 0.6s, ec. 7.8s	154 47	9	Metal framework structure, white square hut; 23.	
15784 N 4235.4	--Limin Kamaron.	36° 59.4' N 24° 40.5' E	<b>Fl.G.</b> period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	White metal framework structure, gallery, metal column, green band; 23.	
15788 N 4236.4	-Akra Maistros.	36° 55.6' N 24° 41.1' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	108 33	7	Metal framework structure; 13.	
15789 N 4236.6	-Platis Yialos, mole, head.	36° 55.8' N 24° 44.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KIKLADHES</b>							
15789.1 <i>N 4236.5</i>	--Mole, head.	36° 55.8' N 24° 44.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 <b>8</b>	3	Metal framework structure, gallery, metal column, red band.	
15792 <i>N 4237</i>	-Akra Stavros.	36° 56.3' N 24° 45.1' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	85 <b>26</b>	5	White hexagonal hut, column; 13.	
15796 <i>N 4304</i>	Nisis Nata, W. summit, SE. of Nisos Siros.	37° 22.0' N 25° 03.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	56 <b>17</b>	6	Metal framework structure; 20.	
NISOS MIKONOS:							
15800 <i>N 4303</i>	-Nisidhes Prassonisia.	37° 23.4' N 25° 17.9' E	<b>Fl.W.</b> period 3s fl. 0.4s, ec. 2.6s	82 <b>25</b>	6	Metal framework structure, white round hut; 12.	
15804 <i>N 4302</i>	<b>-Akra Armenistis.</b>	37° 29.5' N 25° 18.8' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	604 <b>184</b>	22	Octagonal tower, dwelling; 62.	
15805 <i>N 4300.31</i>	-Tourlos, NW. quay, head.	37° 28.0' N 25° 19.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 <b>8</b>	3	Metal framework structure, gallery, metal column, green band.	
15805.2 <i>N 4300.32</i>	--SE. quay, head.	37° 27.8' N 25° 19.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 <b>8</b>	3	Metal framework structure, gallery, metal column, red band.	
15806 <i>N 4300.2</i>	-Limeras Mikonos, N. mole, head.	37° 27.0' N 25° 19.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 <b>9</b>	3	White hexagonal hut, gallery, column, red band; 26.	
15808 <i>N 4300</i>	-Limin Mikonou, S. breakwater, head.	37° 27.0' N 25° 19.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 <b>9</b>	3	White hexagonal hut, column, green band; 25.	
15812 <i>N 4299</i>	-Nisis Khatapodhia.	37° 24.5' N 25° 33.9' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	427 <b>130</b>	10	White pyramidal structure, gallery; 14.	
NISOS PAROS:							
15816 <i>N 4284</i>	-Nisidhes Portes, islet, NE. head.	37° 05.7' N 25° 05.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.8s, ec. 2s fl. 0.8s, ec. 6.4s	72 <b>22</b>	7	White metal framework structure; 16.	
15820 <i>N 4289</i>	-Salange Islet.	37° 02.7' N 25° 05.6' E	<b>Fl.W.R.</b> period 4s fl. 0.3s, ec. 3.7s	37 <b>11</b>	W. 5 R. 3	Metal framework structure; 13.	R. 341°-016°, W.-135°, R.- 161°, W.-341°.
15821 <i>N 4289.4</i>	Andiparos, pier, head.	37° 02.0' N 25° 05.0' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 <b>7</b>	3	White metal framework structure, gallery, red band; 20.	
15824 <i>N 4286</i>	-Agios Fokas.	37° 05.2' N 25° 07.8' E	<b>Fl.W.</b> period 4s fl. 0.6s, ec. 3.4s	36 <b>11</b>	6	Metal framework structure; 20.	
15832 <i>N 4298</i>	-Nisis Mirmingas.	37° 11.5' N 25° 03.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	56 <b>17</b>	8	White metal column; 7.	
15836 <i>N 4290</i>	-Akra Korakas, W. side of entrance to Ormos Naousis.	37° 09.3' N 25° 13.5' E	<b>L.Fl.W.</b> period 12s fl. 2s, ec. 10s	197 <b>60</b>	14	Square tower, dwelling; 33.	
15840 <i>N 4291</i>	-Naoussa harbor, N. breakwater, head.	37° 07.5' N 25° 14.2' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	36 <b>11</b>	3	White hexagonal hut, gallery, column, red band; 26.	
15844 <i>N 4293</i>	-Vrakhos Amaridhes, off E. coast.	37° 02.9' N 25° 18.7' E	<b>Fl.W.R.</b> period 4s fl. 0.4s, ec. 3.6s	34 <b>10</b>	W. 5 R. 3	White hexagonal hut, column; 23.	W. 015°-185°, R.-015°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KIKLADHES</b>							
15848 <i>N 4292</i>	-Akra Kratzi, Ormos Marmara, entrance, S. side.	37° 02.8' N 25° 16.2' E	<b>Fl.(3)W.G.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	76 23	W. 12 G. 10	Metal framework structure; 10.	G. 250°-260°, W.-250°.
15852 <i>N 4282</i>	Nisis Strongilo, SW. of Nisos Paros.	36° 56.5' N 24° 57.1' E	<b>Fl.(2)W.</b> period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 11.5s	164 50	5	Metal framework structure; 13.	
15856 <i>N 4283</i>	Nisis Dhespotiko, Akra Koutsouras.	36° 57.7' N 25° 01.8' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	128 39	5	Metal framework structure; 13.	
15860 <i>N 4294</i>	Nisos Irakleia, Ormos Ayios Georgios.	36° 52.2' N 25° 28.1' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	69 21	5	Metal framework structure; 16.	
15864 <i>N 4294.1</i>	Nisos Skhoinousa, Ormiskos Mersinia.	36° 51.9' N 25° 30.3' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	33 10	6	Metal framework structure; 20.	
15865 <i>N 4294.15</i>	-N. rock.	36° 53.3' N 25° 32.6' E	<b>Fl.W.</b> period 7s fl. 0.8s, ec. 6.2s		6	Metal framework structure, gallery, metal column.	
15866 <i>N 4294.4</i>	-Vrakhonisidha Plaki.	36° 51.6' N 25° 37.3' E	<b>Fl.(2)W.</b> period 8s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 4.9s		8	Metal framework structure, gallery, metal column.	
15868 <i>N 4294.2</i>	Koufonisia.	36° 55.9' N 25° 35.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure; 13.	
15869 <i>N 4294.3</i>	Pargianos, W. mole, head.	36° 55.8' N 25° 36.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band; 20.	
15870 <i>N 4294.35</i>	-E. mole, head.	36° 55.8' N 25° 35.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
15872 <i>N 4294.5</i>	Kopria.	36° 59.1' N 25° 38.2' E	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	246 75	10	Metal framework structure; 10.	
NISOS NAXOS:							
15876 <i>N 4295</i>	-Akra Stavros.	37° 12.2' N 25° 32.2' E	<b>Fl.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	164 50	13	Metal framework structure; 10.	
15880 <i>N 4293.6</i>	-Ormos Naxou, N. breakwater, head.	37° 06.4' N 25° 22.0' E	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	26 8	7	Metal framework structure; 16.	
15881	-Vrakhos Frouos.	37° 05.9' N 25° 20.7' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	W. 6 R. 3	White hexagonal hut with column and gallery; 33.	R. 138°-171°, W.-138°.
15884 <i>N 4295.5</i>	Akra Kaloterousa.	37° 08.1' N 25° 49.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 10.8s	482 147	10	White lantern; 14.	
NISOS MILOS:							
15888 <i>N 4246</i>	-Nisis Paximadhi, N. Milos, off SW. point.	36° 37.8' N 24° 19.0' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	95 29	12	White lantern; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KIKLADHES</b>							
15892 N 4248	-Nisidhes Ananes.	36° 33.1' N 24° 08.9' E	<b>Fl.(3)W.</b> period 12s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 8.5s	279 85	9	Metal framework structure; 10.	
15896 N 4244	-Nisos Andimilos, Akra Kokhlidi.	36° 47.1' N 24° 13.2' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	197 60	8	Metal framework structure; 13.	
15900 N 4240	-Nisidhes Akradhia, NW. point of W. islet.	36° 46.8' N 24° 23.4' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	289 88	10	Square tower, dwelling; 23.	
15904 N 4242	-Ormos Milou, Akra Bombardha.	36° 43.2' N 24° 26.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	118 36	12	White lantern; 13.	
15906 N 4242.2	--Adhamas marina, mole, head.	36° 43.5' N 24° 26.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure; 13.	
15908 N 4242.4	--Mikobar, jetty, head.	36° 42.5' N 24° 27.9' E	<b>Fr.</b>	59 18	3	Metal column, loading gantry.	
15912 N 4239	-Akra Pelekoudha.	36° 46.1' N 24° 31.7' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	56 17	5	Metal framework structure, white round hut; 16.	
15916 N 4249	-Voudhia, jetty, head.	36° 45.0' N 24° 32.0' E	<b>Fr.</b>	69 21	3	Metal column, loading gantry.	
15920 N 4252	<b>-Nisis Poliaigos.</b>	36° 46.5' N 24° 39.3' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	453 138	19	Round tower, dwelling; 30.	
15924 N 4250	-Nisis Ayios Evstathios, N. head.	36° 46.6' N 24° 35.0' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	85 26	6	Metal framework structure; 13.	Visible 033°-000°.
15926	Nisos Kimolos, S.	36° 46.4' N 24° 34.0' E	<b>Q.(6)+L.Fl.W.</b> period 15s	20 6	5	S. CARDINAL YB, beacon, topmark.	
15928 N 4238	-Ormos Semina.	36° 48.3' N 24° 35.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	36 11	5	Metal framework structure; 16.	
15932 N 4256	<b>Nisos Folegandros.</b>	36° 38.0' N 24° 51.6' E	<b>Fl.(3)W.</b> period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	229 70	17	Round tower, dwelling; 36.	
15936 N 4258	-Ormos Karavostasi, N. entrance point.	36° 37.0' N 24° 57.2' E	<b>Fl.W.R.</b> period 6s fl. 0.5s, ec. 5.5s	49 15	W. 10 R. 7	Metal framework structure; 13.	R. 202°-248°, W.-322°, R.- 344°, W.-096°.
15937 N 4259	--Mole, head.	36° 37.0' N 24° 57.0' E	<b>Q.G.</b>	26 8	3	Metal framework structure, gallery, metal column, green band; 16.	
15940 N 4260	Nisos Sikinos, Ormos Skala, E. entrance point.	36° 40.5' N 25° 09.0' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	59 18	8	Metal framework structure; 13.	
15941 N 4261	-Skala, mole, head.	36° 40.5' N 25° 08.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	5	Metal framework structure, gallery, metal column; 20.	
15944 N 4262	Nisos Ios, Ormos Iou, Akra Fanari.	36° 43.2' N 25° 15.5' E	<b>Fl.W.</b> period 5s fl. 0.8s, ec. 4.2s	108 33	9	Square tower, dwelling; 30.	
15945 N 4263	-Agia Eirini, breakwater, head.	36° 43.6' N 25° 16.2' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework structure, gallery; 20.	

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<b>GREECE-KIKLADHES</b>							
15948 <i>N 4296</i>	Nisis Mikros Avelos.	36° 49.5' N 25° 23.6' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 6.1s	131 40	7	Metal framework structure; 10.	
15950 <i>N 4266.3</i>	Nisos Thira, Vlikhadhes, marina, W. mole, head.	36° 20.1' N 25° 26.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	Metal framework structure, gallery, metal column, red band; 20.	
15950.2 <i>N 4266.31</i>	--E. mole, head.	36° 20.2' N 25° 26.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	4	Metal framework structure, gallery, column, green band; 20.	
15952 <i>N 4266</i>	<b>-Akra Akrotiri.</b>	36° 21.5' N 25° 21.3' E	<b>Fl.W.</b> period 5s fl. 1.8s, ec. 3.2s	328 100	24	Square tower, dwelling; 33.	
15954 <i>N 4266.5</i>	-Katsouni, breakwater, head.	36° 23.2' N 25° 25.7' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	26 8	5	Metal framework structure, gallery, metal column, green band; 18.	
15956 <i>N 4267</i>	-Nisis Nea Kaimeni.	36° 24.0' N 25° 24.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	5	Metal framework structure, white round hut; 16.	
15960 <i>N 4268</i>	-Thira Skala.	36° 25.0' N 25° 25.7' E	<b>Q.R.</b>	23 7	3	Metal framework structure; 16.	
15964 <i>N 4269</i>	-Nikolaos Point.	36° 27.5' N 25° 22.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	4	Metal framework structure, gallery; 16.	
15968 <i>N 4270</i>	-Ammoudi Point.	36° 27.9' N 25° 22.1' E	<b>Fl.W.</b> period 4s fl. 0.6s, ec. 3.4s	233 71	10	Metal framework structure; 16.	
15969 <i>N 4275</i>	Anafi, mole, head.	36° 20.5' N 25° 46.2' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	5	Metal framework structure, gallery, metal column, red band; 23.	
15976 <i>N 4276</i>	Nisidhes Kristiana, Nisis Eskhati.	36° 13.2' N 25° 13.7' E	<b>Fl.(3)W.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	79 24	10	Metal framework structure; 10.	
15980 <i>N 4295.7</i>	Nisidhes Bouvais, about 37 km. N. of Nisos Amorgos.	37° 14.3' N 25° 55.7' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	184 56	12	Metal framework structure; 13.	
<b>NISOS AMORGOS:</b>							
15984 <i>N 4278.4</i>	-Akra Langadhia.	36° 54.6' N 25° 57.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	312 95	8	Metal framework structure; 10.	
15985 <i>N 4278.5</i>	-Aigial, mole, head.	36° 54.1' N 25° 58.5' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	20 6	5	Metal framework structure, gallery, metal column.	
15988 <i>N 4278</i>	-Ormos Katapola, Akra Ayios Ilias.	36° 50.2' N 25° 50.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	151 46	12	Metal framework structure, white round hut; 18.	
15992 <i>N 4277.5</i>	-Nisis Grabousa.	36° 49.1' N 25° 44.7' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	45 14	5	Metal framework structure; 13.	
15996 <i>N 4277</i>	-Akra Korax.	36° 46.0' N 25° 48.0' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	249 76	11	Metal framework structure; 10.	
16000 <i>N 4279</i>	Nisidhes Liadhi, northernmost islet.	36° 54.4' N 26° 09.9' E	<b>Fl.(2)W.</b> period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	214 65	9	Metal framework structure; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KIKLADHES</b>							
16004 <i>N 4280</i>	Nisis Levitha, Akra Spano.	36° 59.9' N 26° 29.8' E	<b>L.F.I.W.</b> period 10s fl. 2s, ec. 8s	88 27	11	Metal framework structure; 16.	
<b>GREECE-KRITI (CRETE)</b>							
16008 <i>N 4780</i>	<b>Nisis Agria Gramvousa.</b>	35° 38.9' N 23° 34.7' E	<b>Fl.W.R.</b> period 10s fl. 0.3s, ec. 9.7s	354 108	W. 17 R. 13	White lantern; 13.	W. 330°-239°, R.-255°, W.-319°.
16010 <i>N 4780.4</i>	Kavonisi, NE. mole, head.	35° 30.9' N 23° 38.4' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework tower, gallery, column, green band; 16.	
16010.5 <i>N 4780.5</i>	-SW. mole, head.	35° 30.9' N 23° 38.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	30 9	3	Metal framework tower, gallery, column, red band; 20.	
16011 <i>N 4780.6</i>	-Kolimvarion, N. mole, head.	35° 33.0' N 23° 46.9' E	<b>Fl.G.</b> period 4s fl. 0.4s, ec. 3.6s	26 8	4	Metal framework structure, gallery, metal column, green band.	
16011.5 <i>N 4780.7</i>	--S. mole, head.	35° 32.9' N 23° 46.9' E	<b>Fl.R.</b> period 4s fl. 0.4s, ec. 3.6s	26 8	4	Metal framework structure, gallery, metal column, red band.	
16012 <i>N 4781</i>	Kolpos Khanion, Limin Khanion, entrance, E. side.	35° 31.2' N 24° 01.0' E	<b>Fl.R.</b> period 2.5s fl. 0.1s, ec. 2.4s	85 26	7	Masonry tower; 59.	F.R. and F.G. mark inner mole heads.
16024 <i>N 4783</i>	Akra Maleka.	35° 35.2' N 24° 10.4' E	<b>Fl.(2)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	156 48	10	Metal framework tower; 20.	
16036 <i>N 4784</i>	<b>Akra Dhrapanon.</b>	35° 28.4' N 24° 14.4' E	<b>Fl.(3)W.</b> period 15s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 10.2s	184 56	20	White octagonal tower, dwelling; 33.	Visible 066°-324°.
<b>ORMOS SOUDHAS:</b>							
16040 <i>N 4786</i>	-Nisis Soudhas, fortress, S. part.	35° 29.2' N 24° 09.1' E	<b>Fl.G.</b> period 4.8s fl. 0.8s, ec. 4s	66 20	6	White pyramidal structure, green band; 16.	Visible 245°-120°.
16041 <i>N 4787.1</i>	-Soudha, pier, head.	35° 29.5' N 24° 04.7' E	<b>F.R.</b>	20 6	4	White metal column, red band; 16.	
16056 <i>N 4788</i>	-Vlite Pier.	35° 30.3' N 24° 05.5' E	<b>3 F.G.</b> (vert.)	39 12	3	White metal column; 33.	1 meter apart.
16060 <i>N 4788.5</i>	-Jetty head, 0.9 mile W. of Vlite pier.	35° 30.2' N 24° 04.4' E	<b>2 F.G.</b> (vert.)	26 8	3	White metal column, green band; 26.	1 meter apart.
16064 <i>N 4790</i>	Limin Rethimnis, N. mole, head.	35° 22.4' N 24° 29.0' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	10	White hexagonal hut, gallery, column, green band; 26.	
16068 <i>N 4791.4</i>	-S. mole, head.	35° 22.3' N 24° 29.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	39 12	10	White hexagonal hut, gallery, column, red band; 26.	
16072 <i>N 4782.4</i>	-Harbor mole, head.	35° 31.1' N 24° 01.1' E	<b>F.G.</b>	23 7	3	White metal column, green band; 26.	
16074 <i>N 4791.8</i>	Panormos Bay, N. mole, head.	35° 25.3' N 24° 41.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower, gallery, column, green band; 20.	Fl.R. 3s 7m 3M light marks E. mole head.
16075 <i>N 4793</i>	Bali Bay, mole, head.	35° 24.9' N 24° 47.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, column, green band; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KRITI (CRETE)</b>							
16076 N 4792	Khondros Kavos.	35° 25.6' N 24° 42.1' E	<b>Fl.W.R.</b> period 6s fl. 1s, ec. 5s	187 57	W. 12 R. 8	White lantern; 16.	R. 050°-097°, W.-270°.
16080 N 4794	Akra Stavros.	35° 25.8' N 24° 58.3' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	67 20	11	Metal framework structure, gallery; 20.	
16084 N 4796	Titan cement, loading pier, head.	35° 20.9' N 25° 02.8' E	<b>3 F.R.</b> (vert.)	46 14	3	White metal tower; 33.	1 meter apart.
16085 N 4795	Tsimea, pier, head.	35° 21.1' N 25° 02.8' E	<b>2 F.R.</b> (vert.)	43 13	3	White metal mast, red band; 26.	1 meter apart.
16088 N 4810	Nisis Dia, N. point.	35° 27.9' N 25° 12.9' E	<b>L.F.I.W.</b> period 12s fl. 2s, ec. 10s	102 31	9	Metal framework structure; 13.	
16092 N 4812	-Akra Stavros (Apiri).	35° 25.6' N 25° 14.3' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	423 129	12	White lantern; 13.	
16096 N 4813	Nisis Avgo.	35° 36.1' N 25° 34.4' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	188 57	9	Metal framework tower; 13.	Visible 288°-275°.
<b>LIMIN IRAKLIOU:</b>							
16098 N 4797.4	-Boat Harbor, N. mole, head.	35° 21.3' N 25° 02.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework structure, gallery, metal column, green band.	
16098.1 N 4797.6	--S. mole, head.	35° 21.3' N 25° 02.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework structure, gallery, metal column, red band.	
16100 N 4798	-N. breakwater, head.	35° 21.1' N 25° 09.4' E	<b>L.F.I.G.</b> period 6s fl. 2s, ec. 4s	46 14	9	White hexagonal hut, gallery, column, green band; 36.	F.R. on radio tower 0.85 mile SE.
16104 N 4800	-S. breakwater, head.	35° 20.9' N 25° 09.2' E	<b>L.F.I.R.</b> period 6s fl. 2s, ec. 4s	43 13	9	White round tower, building; 33.	
16120 N 4808	-AVIATION LIGHT.	35° 20.2' N 25° 10.6' E	<b>Al.W.G.</b> period 4s	187 57	15	Control tower.	
16121 N 4813.3	Ayios Konstandinos, N. mole, head.	35° 20.2' N 25° 17.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	6	Framework tower, gallery, metal column, green band.	
16121.5 N 4813.31	-S. mole, head.	35° 20.2' N 25° 17.8' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	6	Framework tower, gallery, metal column, red band.	
16122 N 4813.5	Chersonisos, mole, head.	35° 19.2' N 25° 23.6' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	33 10	5	Metal hexagonal hut, gallery, column, green band; 28.	
16123 N 4813.7	Milatos, N. mole.	35° 19.2' N 25° 33.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure; 13.	Fl.R. 3s 3M marks S. mole.
16124 N 4814	Akra Ayios Ioannis.	35° 20.4' N 25° 46.3' E	<b>Fl.(2)W.</b> period 12.8s fl. 0.8s, ec. 3s fl. 0.8s, ec. 8.2s	160 49	11	Structure, lantern; 30.	
<b>KOLPOS MERABELLOU:</b>							
16127 N 4815	-Mirampello, W. mole.	35° 12.6' N 25° 42.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-KRITI (CRETE)</b>							
16127.1 <i>N 4815.1</i>	--E. mole.	35° 12.6' N 25° 42.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
16128 <i>N 4816</i>	-Nisis Ayioi Pandes.	35° 12.2' N 25° 43.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	79 24	4	White metal framework structure, dwelling; 23.	
16132 <i>N 4818</i>	--Pier, jetty, head.	35° 11.6' N 25° 43.2' E	<b>Fl.R.</b> period 2s fl. 0.8s, ec. 1.2s	33 10	7	White hexagonal hut, gallery, column, red band; 26.	
16136 <i>N 4819</i>	-Nisis Konidha.	35° 07.5' N 25° 48.6' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	82 25	4	Metal framework structure, white round hut; 16.	
16138 <i>N 4819.5</i>	-Ormos Altsi, pier, head.	35° 11.0' N 25° 54.0' E	<b>FR.</b>	43 13	3	Metal mast, red band.	Private light.
ORMOS SITIAS:							
16140 <i>N 4820</i>	-Akra Vamvakia.	35° 13.5' N 26° 06.8' E	<b>Fl.(3)W.</b> period 18s fl. 0.8s, ec. 2s fl. 0.8s, ec. 2s fl. 0.8s, ec. 11.6s	79 24	10	Metal framework structure; 16.	
16143 <i>N 4821</i>	-N. mole, head.	35° 12.7' N 26° 06.8' E	<b>Fl.G.</b> period 3s fl. 0.6s, ec. 2.4s	30 9	8	Metal framework structure, gallery, metal column, green band; 23.	
16145 <i>N 4822</i>	-Marina, N. mole, head.	35° 12.5' N 26° 06.6' E	<b>F.G.</b>	26 8	3	White metal column, green band.	
16146 <i>N 4822.5</i>	--S. mole, head.	35° 12.5' N 26° 06.6' E	<b>FR.</b>	16 5	3	White metal column, red band; 10.	
16152 <i>N 4824</i>	Nisis Paximadha, Kriti, off E. point.	35° 23.0' N 26° 10.4' E	<b>Fl.W.R.</b> period 6s fl. 1s, ec. 5s	118 36	W. 12 R. 8	Metal framework structure; 10.	W. 019°-284°, R.-314°.
16156 <i>N 4824.5</i>	Nisis Yianisadha, islet, SE. point.	35° 19.5' N 26° 11.2' E	<b>Fl.W.R.</b> period 10s fl. 0.5s, ec. 9.5s	46 14	W. 7 R. 5	Metal framework structure; 10.	W. 213°-275°, R.-280°, W.- 304°, R.-310°, W.-052°.
16160 <i>N 4826</i>	<b>Akra Sidheros.</b>	35° 18.9' N 26° 18.7' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	148 45	18	Round tower, dwelling; 52.	
16164 <i>N 4825</i>	Kiriamadi, on rock.	35° 18.0' N 26° 15.8' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	W. 4 R. 3	Metal framework structure; 13.	R. 149°-156°, W.-308°, R.- 357°, W.-149°.
16168 <i>N 4825.5</i>	--Pier, head.	35° 18.0' N 26° 18.0' E	<b>2 FR.</b> (vert.)	29 9	3	White metal framework structure, red band; 26.	1 meter apart.
16170 <i>N 4827</i>	Kouremenos Bay.	35° 13.0' N 26° 16.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, square hut, gallery, green band; 26.	
16172 <i>N 4828</i>	Akra Plaka.	35° 11.7' N 26° 19.0' E	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	72 22	10	Metal framework structure; 13.	
16176 <i>N 4830</i>	Koufonisi.	34° 56.0' N 26° 08.5' E	<b>Fl.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	239 73	10	Metal framework structure; 16.	
16180 <i>N 4829</i>	Nisidhes Kavalloi.	35° 01.6' N 26° 13.7' E	<b>Fl.(3)W.</b> period 12s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 8.1s	95 29	6	Metal framework structure; 13.	
16182 <i>N 4830.5</i>	Makrys Gyalos Bay.	35° 02.2' N 25° 58.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, round hut, red band.	



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<b>GREECE-KRITI (CRETE)</b>							
16184 <i>N 4831</i>	Ierapetra, breakwater, head.	35° 00.3' N 25° 44.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	4	White hexagonal hut, gallery, column, red band.	
16188 <i>N 4833</i>	Akra Theofalos.	34° 59.1' N 25° 30.3' E	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	246 75	10	Metal framework structure, white round hut; 16.	
16192 <i>N 4832</i>	Nisis Khrisi.	34° 52.8' N 25° 41.6' E	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	39 12	10	Metal framework structure, white round hut; 16.	
16196 <i>N 4833.6</i>	Nisis Megalonis.	34° 55.4' N 24° 47.9' E	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	220 67	11	White pyramidal structure, gallery; 20.	
16202 <i>N 4833.7</i>	-Kokkinos Pyrgos.	35° 04.8' N 24° 44.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, red band.	
16204 <i>N 4836</i>	Ayios Galinis, on mole.	35° 05.7' N 24° 41.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework structure, gallery, red band; 20.	
16208 <i>N 4840</i>	Nisos Gavdos, Akra Tripiti.	34° 48.1' N 24° 07.3' E	<b>Fl.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	121 37	12	Metal framework structure; 20.	
16212 <i>N 4838</i>	Nisis Gavodhopoula, NW. point.	34° 56.3' N 23° 59.3' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	183 56	12	Metal framework structure; 13.	
16213 <i>N 4840.8</i>	Mavros Limnionas, W. mole, head.	35° 11.9' N 24° 08.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16213.1 <i>N 4840.7</i>	-E. mole, head.	35° 11.9' N 24° 08.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, metal column, red band.	
16216 <i>N 4842</i>	Nisis Loutron.	35° 11.7' N 24° 05.1' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	56 17	6	Metal framework structure; 13.	
16220 <i>N 4844</i>	Nisis Palaiokhoras.	35° 13.2' N 23° 40.3' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	52 16	8	White pyramidal structure, gallery; 18.	
16224 <i>N 4778</i>	Elafonisi, Kriti, off SW. coast.	35° 16.0' N 23° 31.4' E	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	141 43	12	White metal framework tower, gallery; 49.	
16226 <i>N 4779</i>	Tousoula Point.	35° 28.8' N 23° 34.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
<b>GREECE</b>							
KOLPOS PETALION:							
16228 <i>N 4451</i>	-Nisis Mandili.	37° 55.8' N 24° 31.7' E	<b>Fl.(3)W.</b> period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	272 83	15	Round tower, dwelling; 36.	
16236 <i>N 4345.2</i>	--Inner pier, head.	38° 00.8' N 24° 25.1' E	<b>2 F.R.</b> (vert.)	26 8	3	White metal column; 20.	1 meter apart.

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<b>GREECE</b>							
16240 N 4346	-Nisis Paximadhi.	37° 57.4' N 24° 23.2' E	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	89 27	4	Metal framework structure, white square hut; 18.	
16244 N 4348	-Nisis Foundion, islet, S. head.	38° 01.8' N 24° 14.9' E	<b>Fl.W.</b> period 3.6s fl. 0.3s, ec. 3.3s	26 8	5	Metal framework structure; 18.	
16252 N 4346.4	Raftis.	37° 52.9' N 24° 02.6' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	328 100	9	Metal framework structure; 23.	
16256 N 4347	-Akra Velani.	37° 59.3' N 24° 02.2' E	<b>Fl.W.</b> period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	Column, white round hut; 20.	
16263 N 4347.3	Rafina, S. mole, head.	38° 01.3' N 24° 00.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
16264 N 4347.6	-N. Inner, mole, head.	38° 01.4' N 24° 00.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	White hexagonal hut, gallery, column, green band; 26.	
16265 N 4347.8	-Limin Rafinas, N. outer mole, head.	38° 01.5' N 24° 00.8' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	10	Metal framework structure, gallery, metal column, green band; 16.	
16266 N 4349.5	-Agios Andreas.	38° 04.3' N 24° 00.1' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	3	White round hut.	
16268 N 4350	-Nisis Dhipsa.	38° 06.7' N 24° 07.0' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	56 17	6	White round hut; 20.	
16269 N 4351	-Nea Stira, pier, head.	38° 10.8' N 24° 12.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16270 N 4351.3	-Rozani, mole, head.	38° 10.5' N 24° 12.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
NOTIOS EVVOIKOS KOLPOS:							
16272 N 4354	-Nisidhes Verdhouyi, NW. islet.	38° 11.4' N 24° 05.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	56 17	6	White metal framework structure; 10.	Obscured by Pathenopi Islet.
16276 N 4350.3	-Kouneli Islet.	38° 11.3' N 24° 10.2' E	<b>Fl.W.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	33 10	W. 5 R. 3	Metal framework structure, white square hut; 20.	W. 100°-290°, R.-317°.
16280 N 4352	--SE. islet.	38° 11.0' N 24° 06.5' E	<b>Fl.(2)W.</b> period 16s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 14.2s	33 10	6	Metal framework structure; 18.	
16284 N 4355	-Akra Ayios Marina.	38° 12.0' N 24° 04.4' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.3s fl. 0.5s, ec. 1.3s fl. 0.5s, ec. 10.9s	56 17	7	Metal framework structure; 23.	
16285 N 4356	--Pier, head.	38° 11.4' N 24° 04.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	4	White metal column, gallery, round hut, green band; 23.	
16286 N 4356.4	-Ormos Almiropotamos, pier, head.	38° 16.0' N 24° 09.4' E	<b>2 F.G. (vert.)</b>	23 7	3	White metal column, green band; 23.	
16287 N 4359.3	-Ormos Boufalo.	38° 18.1' N 24° 07.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16288 N 4358	-Ormos Aliveriou, breakwater, head.	38° 23.7' N 24° 02.1' E	<b>Fl.R.</b> period 1.5s fl. 0.2s, ec. 1.3s	24 7	3	Black post; 16.	

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<b>GREECE</b>							
16289 N 4357	--Power station, mole, head.	38° 23.4' N 24° 02.8' E	<b>FI.G.</b> period 4s fl. 1s, ec. 3s	33 10	7	Hexagonal concrete hut, gallery, column, green band; 26.	
16292 N 4359	-Milaki, pier, head.	38° 22.5' N 24° 03.1' E	<b>2 F.R.</b> (vert.)	29 9	5	White metal column, red band; 18.	Private light.
16294 N 4359.5	-Ormos Ayios Apostoloi, mole, head.	38° 17.7' N 23° 53.9' E	<b>F.R.</b>	26 8	2	White metal column, red band; 20.	
16295 N 4359.75	-Amarinthos, mole, head.	38° 23.4' N 23° 52.6' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
16296 N 4360	-Ormos Oropou, Skala Oropou.	38° 19.7' N 23° 48.4' E	<b>FI.W.</b> period 4s fl. 0.5s, ec. 3.5s	16 5	7	Lantern; 13.	
16300 N 4361	--Oropos, pier, head.	38° 19.3' N 23° 47.5' E	<b>3 F.Or.</b>	23 7	1	White metal column; 20.	Lights in shape of triangle point down.
16304 N 4362	-Limin Eretrias (Nea Psara), on rock near head of mole, NW. side of entrance.	38° 23.0' N 23° 47.5' E	<b>FI.W.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	W. R. 5 3	Metal framework structure, white round hut; 16.	W. 342°-061°, R.-342°.
16308 N 4366	-Stenon Avlidhos, Akra Avlis.	38° 24.6' N 23° 37.9' E	<b>FI.(2)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 9s	30 9	6	Stone tower, dwelling.	
16310 N 4369	-Ormos Megalo Vathi, pier, head.	38° 25.1' N 23° 35.7' E	<b>2 F.R.</b> (vert.)	20 6		Column; 13.	Private light.
16311 N 4369.4	-Khalkidha Shipyard, pier, head.	38° 25.4' N 23° 36.2' E	<b>3 F.R.</b> (vert.)	23 7	3	White metal mast, red band; 16.	1 meter apart. Private light.
16312 N 4368	-Nisis Passas.	38° 25.7' N 23° 37.0' E	<b>FI.W.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	5	Metal framework structure; 20.	Visible 313°-168°.
16316 N 4370	-Akra Perama.	38° 26.6' N 23° 35.9' E	<b>FI.R.</b> period 3s fl. 0.5s, ec. 2.5s	36 11	5	Metal framework structure, white square hut, red band; 20.	
16317 N 4372	-Dhiavlos Steno, pier, head.	38° 27.0' N 23° 36.0' E	<b>2 F.G.</b> (vert.)	20 6	3	White metal column; 13.	1 meter apart.
16320 N 4371	-Porthmos Evripou, Khalkis.	38° 26.6' N 23° 35.6' E	<b>2 F.R.</b> (vert.)	33 10	3	White metal column, red band; 26.	1 meter apart.
16324 N 4375	-Ikhinos Scala, strait, N. entrance, W. side.	38° 28.3' N 23° 35.6' E	<b>FI.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	3	White hexagonal hut, column, green band; 23.	
16328 N 4378	-Kakokefali.	38° 28.6' N 23° 36.2' E	<b>FI.(2)W.</b> period 18s fl. 0.2s, ec. 5.8s fl. 0.2s, ec. 11.8s	68 21	12	Square tower, dwelling; 36.	
16332 N 4380	-Nea Artaki.	38° 30.8' N 23° 37.7' E	<b>FI.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	30 9	5	White hexagonal hut, column; 23.	
16336 N 4382	-Akra Mnima.	38° 34.6' N 23° 31.9' E	<b>FI.W.</b> period 3.5s fl. 0.3s, ec. 3.2s	33 10	6	Hexagonal hut, gallery, column, pedestal; 36.	
16340 N 4408	-Larimna.	38° 34.0' N 23° 17.4' E	<b>FI.W.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	5	Metal framework structure, white round hut; 20.	
16341 N 4408.5	--Quay, W. head.	38° 34.1' N 23° 17.8' E	<b>FI.R.</b> period 5s fl. 1s, ec. 4s	39 12	9	Pyramidal structure, red band; 33.	
16344 N 4409	-Akra Stalamata.	38° 38.5' N 23° 18.6' E	<b>FI.(2)W.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	50 15	7	Metal framework structure, white square hut; 26.	

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<b>GREECE</b>							
16348 <i>N 4409.4</i>	-Ormos Limnis, W. point.	38° 45.8' N 23° 18.7' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	85 26	5	White round hut, column; 13.	
16352 <i>N 4412</i>	-Nisis Atalandi, N. point.	38° 41.0' N 23° 05.5' E	<b>Fl.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	33 10	5	Metal framework structure; 13.	
16353 <i>N 4413.4</i>	--Mole, head.	38° 40.4' N 23° 04.6' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
16356 <i>N 4413</i>	-Skala Livanates.	38° 42.4' N 23° 03.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, green band.	
16360 <i>N 4416</i>	<b>-Akra Arkitsa.</b>	38° 45.3' N 23° 02.0' E	<b>Fl.(2)W.</b> period 5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 3.1s	49 15	19	Square tower, dwelling; 49.	
16372 <i>N 4417</i>	--Ormos Yialtrou.	38° 52.4' N 22° 58.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	5	Metal framework structure, white round hut; 16.	
16374 <i>N 4416.5</i>	-Loutra Aidhypsou, on center of ramp.	38° 51.3' N 23° 02.5' E	<b>3 F.Or.</b>	20 6	3	White metal column.	Lights form triangle point down.
DHIAVLOS KNIMIDHOS:							
16375 <i>N 4423</i>	-Kammena Vourla Marina, NE mole, head.	38° 46.9' N 22° 47.1' E	<b>Fl.R.</b> period 4s fl. 0.8s, ec. 3.2s	23 7	6	Metal framework structure, gallery, metal column, red band; 18.	
16375.2 <i>N 4423.1</i>	--SW mole, head.	38° 46.9' N 22° 47.1' E	<b>Fl.G.</b> period 4s fl. 0.8s, ec. 3.2s	30 9	6	Metal framework structure, gallery, metal column, green band; 18.	
16376 <i>N 4422</i>	-Akra Knimis.	38° 47.3' N 22° 49.5' E	<b>Fl.W.R.</b> period 2s fl. 0.4s, ec. 1.6s	20 6	W. 6 R. 3	Metal framework structure, white round hut; 18.	W. 098°-140°, R.-230°, W.- 278°.
16377 <i>N 4418</i>	--S. breakwater, head.	38° 45.0' N 22° 51.0' E	<b>F.G.</b>	23 7	7	Concrete column, green band.	
16378 <i>N 4418.5</i>	--Quay, N. head.	38° 45.6' N 22° 51.6' E	<b>3 F.G.</b>	20 6	3	Concrete column, green band.	Lights form inverted L.
16379 <i>N 4418.7</i>	--Motel Levedi, mole, head.	38° 26.0' N 22° 51.0' E	<b>F.G.</b>	16 5	3	White concrete column, green band; 10.	Private light.
16380 <i>N 4420</i>	-Nisoi Likhadnes, Nisis Strongili, summit.	38° 48.5' N 22° 49.3' E	<b>Fl.(2)W.R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	134 41	W. 12 R. 9	Round tower, dwelling; 33.	R. 113°-293°, W.-113°.
16382 <i>N 4423.5</i>	-Agios Serafeim, fishing harbour, SE end.	38° 49.7' N 22° 42.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band; 20.	
16382.2 <i>N 4423.52</i>	---NW end.	38° 49.7' N 22° 42.7' E	<b>Q.G.</b>	26 8	3	Metal framework structure, gallery, metal column, green band; 20.	
MALIAKOS KOLPOS:							
16384 <i>N 4430</i>	-Akra Dhrepanon.	38° 52.1' N 22° 45.5' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	23 7	5	Metal framework structure; 16.	
16388 <i>N 4424</i>	-Akra Khiliomili.	38° 51.1' N 22° 41.8' E	<b>Fl.(3)W.</b> period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 10.8s	33 10	10	Round metal tower, dwelling; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16392 N 4427	-Ormos Stilidhas, on quay.	38° 54.7' N 22° 37.0' E	<b>L.FI.Or.</b> period 10s fl. 2s, ec. 8s	36 11	8	White metal tower, gallery, orange triangular daymark point down; 33.	Visible 300°-330°.
16396 N 4428.2	--1 km., 137° from light on pier.	38° 54.3' N 22° 37.4' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure; 10.	
16400 N 4428	--1 km. 134° from light on pier.	38° 54.3' N 22° 37.5' E	<b>FI.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure; 10.	
16404 N 4425	-Ormos Ayios Marinas, pier, head.	38° 53.4' N 22° 34.8' E	<b>FR.</b>	85 26	3	White metal mast, red band; 7.	Private light.
16406 N 4433	Agronivest Quay, SE. head.	38° 53.3' N 22° 49.5' E	<b>3 F.G.</b>	36 11	3	White metal column, green band; 26.	Lights form inverted L.
16407 N 4433.2	--NW. head.	38° 53.0' N 22° 49.0' E	<b>3 F.R.</b>	36 11	3	White metal column, red band; 26.	Lights form inverted L.
16408 N 4432	-Akra Vasilinas, channel, S. entrance.	38° 52.2' N 22° 51.0' E	<b>Oc.W.G.</b> period 5s lt. 4s, ec. 1s	30 9	W. 14 G. 11	Square tower, dwelling; 33.	G. 025°-041°, W.-252°.
16410 N 4433.5	-St. Sostis Point.	38° 56.7' N 22° 59.2' E	<b>FI.W.</b> period 8s fl. 1s, ec. 7s	52 16	6	White round hut; 10.	
16412 N 4434	-Ifalos Oreon.	38° 57.1' N 23° 02.9' E	<b>FI.(2)W.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	16 5	9	ISOLATED DANGER BRB, beacon, topmark; 18.	
16416 N 4436	-Skala Oreon, N. pier, head.	38° 56.9' N 23° 05.3' E	<b>FI.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	White round hut, column, red band; 17.	
16417 N 4435	-Neos Pyrgos, mole, head.	38° 56.4' N 23° 04.1' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
16420 N 4440	<b>-Aryironisos.</b>	39° 00.5' N 23° 04.6' E	<b>FI.W.</b> period 5s fl. 0.1s, ec. 4.9s	105 32	16	Round tower, dwelling; 23.	
16421 N 4441.8	-Pegadi, mole, head.	39° 02.1' N 22° 58.7' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, red band.	
16422 N 4441	-Pefki, mole, head.	39° 00.5' N 23° 12.1' E	<b>FI.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, metal column, red band; 20.	
NISOS EVVOIA:							
16424 N 4451.3	-Akra Kafirevs, Nisis Arapis.	38° 09.6' N 24° 36.0' E	<b>FI.(2)W.</b> period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	112 34	10	Metal framework structure; 7.	
16428 N 4451.6	-Ormos Petrion, entrance, N. side.	38° 24.4' N 24° 12.4' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	131 40	4	Metal framework structure; 13.	
16432 N 4453	Nisis Prasoudha.	38° 39.9' N 24° 15.0' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	138 42	13	Round tower, dwelling; 59.	
16436 N 4452	-Ormos Kimis, S. breakwater.	38° 37.0' N 24° 08.0' E	<b>FI.R.</b> period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	White hexagonal hut, column, red band; 20.	
16437 N 4452.2	--E. mole, head.	38° 37.6' N 24° 07.6' E	<b>FI.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	16 5	2	White round hut, pedestal, green band; 10.	Visible 353°-183°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16438 <i>N 4452.08</i>	--S. head.	38° 37.1' N 24° 07.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 <b>8</b>	6	Metal framework structure, gallery, metal column, green band; 20.	
16441 <i>N 4452.3</i>	-Ag. Grigorios, Khillis harbor.	38° 39.8' N 24° 07.7' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	30 <b>9</b>	5	Metal framework structure; 10.	
16442 <i>N 4453.2</i>	Akra Sarakiniko.	38° 46.0' N 23° 42.2' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	85 <b>26</b>	8	White metal column; 7.	
NISOI VORIAI SPORADHES:							
16443.1 <i>N 4453.91</i>	--S. mole, head.	38° 52.4' N 24° 34.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 <b>7</b>	3	Metal framework structure, gallery, metal column, red band.	
16444 <i>N 4454</i>	<b>-Akra Lithari.</b>	38° 46.6' N 24° 40.9' E	<b>Fl.(3)W.</b> period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	315 <b>96</b>	16	Round tower, dwelling; 40.	
16445 <i>N 4454.1</i>	-Treis Boukes.	38° 45.9' N 24° 37.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 <b>8</b>	6	Metal framework structure, green band.	
16446 <i>N 4454.2</i>	-Sarakino Island.	38° 45.5' N 24° 37.5' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	207 <b>63</b>	7	Metal framework structure; 13.	Visible 140°-313°.
16447 <i>N 4454.5</i>	-Marmara Point.	38° 45.6' N 24° 34.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 <b>9</b>	7	Metal framework structure; 13.	
16448 <i>N 4455</i>	--Akra Latomion.	38° 48.0' N 24° 29.6' E	<b>Fl.W.</b> period 3.3s fl. 0.4s, ec. 2.9s	59 <b>18</b>	5	Lantern; 13.	
16452 <i>N 4455.3</i>	--Ormos Linaria.	38° 50.7' N 24° 32.2' E	<b>Fl.W.R.G.</b> period 2.5s fl. 0.3s, ec. 2.2s	23 <b>7</b>	W. R. G. 4 4 4	6 Metal framework structure, round hut; 20.	R. 353°-021°, W.-120°, G.- 300°.
16456 <i>N 4455.7</i>	--Podhi, Vrakhonisis Notio.	39° 00.4' N 24° 29.2' E	<b>Fl.W.</b> period 3s fl. 0.4s, ec. 2.6s	233 <b>71</b>	6	White round hut; 10.	
16460 <i>N 4455.5</i>	--Nisis Vorio Podhi.	39° 01.2' N 24° 28.1' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	138 <b>42</b>	6	Metal framework structure, white round hut; 20.	
16464 <i>N 4482</i>	<b>-Nisis Psathoua.</b>	39° 30.2' N 24° 11.1' E	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	131 <b>40</b>	17	Round tower, dwelling; 82.	
16468 <i>N 4480</i>	-Nisis Pelerissa, SW. of Nisos Pelagos.	39° 18.7' N 24° 02.4' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	82 <b>25</b>	7	Metal framework structure, white round hut; 18.	
16468.1 <i>N 4478.6</i>	-Alonnisos, N. end.	39° 16.3' N 23° 56.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 <b>8</b>	3	Metal framework structure, gallery, metal column, red band.	
16469 <i>N 4479</i>	-Nisis Peristera.	39° 10.9' N 23° 56.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 <b>10</b>	5	White round hut; 11.	
16470 <i>N 4478.52</i>	-Ormos Patitiri, breakwater, head.	39° 08.7' N 23° 52.0' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	26 <b>8</b>	3	White metal framework structure, gallery, green band; 16.	
16471 <i>N 4478.5</i>	--Bay, W. side.	39° 09.0' N 23° 52.0' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	33 <b>10</b>	3	White metal framework structure, gallery, red band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16472 N 4478	-Akra Telion, Alonnisos, SW. point.	39° 08.5' N 23° 49.8' E	<b>Fl.(3)W.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	69 21	12	White lantern; 13.	Visible 293°-171°.
16476 N 4476	-Nisis Mikro.	39° 08.7' N 23° 48.8' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	69 21	6	White lantern; 13.	
16477 N 4475.2	-Agnonta Bay, W. side.	39° 05.0' N 23° 42.4' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	23 7	3	White framework structure, gallery, metal column, red band.	
16478 N 4475.22	--E. side.	39° 04.8' N 23° 42.5' E	<b>Fl.G.</b> period 2s fl. 0.2s, ec. 1.8s	33 10	3	White hexagonal hut, gallery, column, green band; 29.	
-Nisos Skopelos:							
16480 N 4474	--Akra Gourouni.	39° 12.3' N 23° 35.5' E	<b>Fl.(3)W.</b> period 30s fl. 1.5s, ec. 3s fl. 1.5s, ec. 3s fl. 1.5s, ec. 19.5s	229 70	20	Square tower, dwelling; 47.	
16484 N 4475	--Glossa, N. mole, head.	39° 09.9' N 23° 36.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure; 14.	
16484.5 N 4475.1	---S. mole, head.	39° 09.8' N 23° 36.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column; 11.	
16486 N 4475.15	--Neo Klima, W. mole, head.	39° 08.2' N 23° 38.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
16486.5 N 4475.16	---E. mole, head.	39° 08.3' N 23° 38.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16492 N 4475.4	---N. breakwater.	39° 07.5' N 23° 44.1' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	6	Metal framework structure, gallery, metal column, green band.	
16496 N 4472	-Dhiavlos Skopelou, Nisis Repon.	39° 08.8' N 23° 31.7' E	<b>Fl.(2)W.R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	131 40	W. 12 R. 8	Round tower, dwelling; 43.	W. 183°-261°, R.-313°, W.-020°.
16500 N 4466	-Nisos Skiathos, Prasoniso.	39° 08.3' N 23° 28.1' E	<b>Fl.W.</b> period 6s fl. 0.5s, ec. 5.5s	43 13	6	Metal framework structure; 23.	
16504 N 4468	--Dhaskalonisi.	39° 09.6' N 23° 29.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	Metal framework structure; 15.	
16505 N 4467	--Mole, head.	39° 09.7' N 23° 29.6' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	White metal framework structure, gallery, red band; 20.	
NISOS EUVOIA:							
16508 N 4453.5	-Mandoudi, loading pier, head.	38° 48.5' N 23° 31.6' E	<b>2 F.R.</b> (horiz.)	118 36	3	White metal column.	Private light.
16512 N 4456	-Levkonisia.	38° 57.5' N 23° 27.2' E	<b>Fl.(3)W.</b> period 15s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 10.2s	69 21	10	Metal framework structure, white round hut; 18.	Visible 138°-018°.
16516 N 4458	-Akra Artemision.	39° 03.0' N 23° 20.3' E	<b>Fl.(2)W.R.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	203 62	W. 15 R. 12	Round tower, dwelling; 62.	W. 077°-178°, W. 187°-194°, R.-234°, W.-317°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
DHIAVLOS SKIATHOU:							
16520 N 4464	-Akra Sippias.	39° 11.2' N 23° 21.1' E	<b>L.FI.W.</b> period 10s fl. 2s, ec. 8s	344 105	10	Lantern; 13.	
16524 N 4462	-Ifalos Levkari.	39° 08.6' N 23° 20.5' E	<b>FI.(2)W.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark; 39.	
16526 N 4461	Ormos Plantanias.	39° 08.4' N 23° 16.5' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, metal column, green band.	
PAGASITIKOS KOLPOS:							
16528 N 4442	-Akra Kavoulia.	39° 05.7' N 23° 03.1' E	<b>L.FI.(3)W.</b> period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	72 22	20	Square tower, dwelling; 46.	
16528.1 N 4442.5	-Kottai, fishing harbor, pier, head.	39° 06.8' N 23° 05.9' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16529 N 4443	-Ormos Sourpis, Myloi, pier, head.	39° 09.9' N 22° 52.1' E	<b>FI.R.</b> period 4s fl. 0.6s, ec. 3.4s	23 7	3	Metal framework structure, gallery, metal column, red band; 16.	
16530 N 4444	-Ormos Sourpis, pier, head.	39° 10.3' N 22° 51.1' E	<b>FI.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	5	White metal framework structure, gallery, green band; 20.	
16532 N 4445.5	-Mamidhakis, pier, head.	39° 17.5' N 22° 52.6' E	<b>2 F.R. (vert.)</b>	16 5	3	White metal column, red band; 16.	1 meter apart. Private light.
-Kolpos Volos:							
16544 N 4446	--Akra Sesklo.	39° 20.6' N 22° 56.6' E	<b>FI.W.</b> period 1.5s fl. 0.3s, ec. 1.2s	69 21	7	Metal framework structure, white square hut; 26.	
16548 N 4449	-Limin Volou, oil installation pier, head.	39° 21.0' N 22° 59.4' E	<b>3 F.G. (vert.)</b>	30 9	3	White metal column, green band; 22.	1 meter apart. Private light.
16552 N 4449.4	--Tsimenta, pier, head.	39° 21.0' N 22° 59.2' E	<b>FI.(2)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	59 18	12	White hexagonal hut, gallery, column; 26.	
16553 N 4449.5	-Kato Gatzsea, pier, head.	39° 18.5' N 23° 06.1' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
16554 N 4448	-Anavros River.	39° 20.9' N 22° 57.8' E	<b>FI.Y.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	4	Metal column; 10.	
16556 N 4447	--Limin Volou, breakwater, head.	39° 21.1' N 22° 56.5' E	<b>FI.G.</b> period 3s fl. 0.5s, ec. 2.5s	27 8	4	Metal framework structure, white square hut, green band; 20.	
16557 N 4447.1	--Detached breakwater, NE. head.	39° 20.9' N 22° 56.7' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	7	Metal framework structure, gallery, red band.	
16559 N 4485.1	Ioannis, W. mole, head.	39° 25.1' N 23° 09.6' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework structure, gallery, metal column, red band.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
THERMAIKOS KOLPOS:							
16559.1 N 4486	-Kermadi, S. mole, head.	39° 34.8' N 22° 56.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
16560 N 4489	-Akra Dhermatas.	39° 48.0' N 22° 51.1' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	246 75	11	White metal framework structure, gallery; 13.	
16564 N 4492	-Stomion, Tsayezi, reef.	39° 52.0' N 22° 44.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	5	Metal framework structure; 10.	
16565 N 4492.2	--S. mole, head.	39° 51.1' N 22° 44.1' E	<b>Fl.G.</b> period 2s fl. 0.2s, ec. 1.8s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16565.5 N 4492.3	--N. mole, head.	39° 51.2' N 22° 44.1' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	23 7	3	Metal framework structure, gallery, metal column.	
16568 N 4494	-Akra Epanomi.	40° 22.5' N 22° 53.4' E	<b>Fl.(3)W.</b> period 18s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 14.5s	36 11	12	Metal framework structure; 29.	
16572 N 4496	-Akra Akheradha.	40° 21.8' N 22° 39.7' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	39 12	10	Metal framework structure, gallery, white pyramidal structure; 30.	
16576 N 4498	<b>-Akra Megalo Emvolon.</b>	40° 30.1' N 22° 49.0' E	<b>Fl.W.</b> period 10s fl. 0.2s, ec. 9.8s	102 31	15	Round tower, dwelling; 33.	
16580 N 4496.5	--Nea Mikhaniona, pier, head.	40° 28.2' N 22° 50.8' E	<b>F.G.</b>	20 6	3	White metal column, green band; 16.	
16580.5 N 4496.57	---Ichthyoskala, N. mole, head.	40° 27.5' N 22° 51.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, metal column, red band; 20.	
16580.6 N 4496.58	----S. mole, head.	40° 27.5' N 22° 51.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band; 20.	
16581 N 4496.6	---W. breakwater, head.	40° 27.7' N 22° 51.2' E	<b>Fl.G.</b> period 2s fl. 0.2s, ec. 1.8s	30 9	3	Hexagonal hut, gallery, column; 26.	
16581.5 N 4496.7	---E. breakwater, head.	40° 27.7' N 22° 51.3' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	33 10	3	Metal framework structure, gallery, metal column; 26.	
16584 N 4497	<b>-Nisis Axios (Kavoura).</b>	40° 30.7' N 22° 44.9' E	<b>Fl.(2)W.</b> period 15s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 9.8s	26 8	16	White metal framework structure, building.	
	-RACON		<b>X(- • • -)</b>		7		(3 & 10cm).
16588 N 4500	-AVIATION LIGHT.	40° 31.5' N 22° 58.6' E	<b>Al.W.G.</b> period 6s	33 10	13	Control tower.	
16592 N 4501	-Mooring island.	40° 32.4' N 22° 57.9' E	<b>FR.</b>	13 4	3	Metal column, platform, piles.	F.Y. mark overhead cable.
16596 N 4502	-Akra Mikro Emvolon.	40° 35.0' N 22° 56.1' E	<b>Fl.(3)G.</b> period 15s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 9.5s	52 16	5	Metal framework structure, white square hut, green band; 20.	
16598 N 4502.41	--Outer pier, head.	40° 34.6' N 22° 56.2' E	<b>F.W.</b>				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16599 N 4502.7	--Scout's jetty.	40° 34.7' N 22° 56.3' E	<b>F.G.</b>	13	4	3 White metal column, green band; 13.	
16600 N 4502.3	--W. breakwater, head.	40° 34.5' N 22° 56.5' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	26	8	5 White hexagonal hut, gallery, column, green band; 23.	
16604 N 4502.4	--E. breakwater, head.	40° 34.3' N 22° 56.9' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	29	9	5 White hexagonal hut, gallery, column, red band; 26.	
16608 N 4503	<b>-Ormos Thessalonikis, 050°.</b>	40° 36.6' N 22° 57.0' E	<b>Fl.(3)W.</b> period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	30	9	19 White metal framework structure, building.	
	<b>-RACON</b>		<b>A(• -)</b>			7	
16612 N 4503.2	--Off Yacht Club.	40° 36.5' N 22° 57.0' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	20	6	4 Metal framework structure, white round hut, red band; 18.	
16620 N 4506	--Breakwater, SE. head.	40° 37.8' N 22° 56.0' E	<b>Fl.R.</b> period 4s fl. 1.6s, ec. 2.4s	39	12	7 White concrete column, gallery, red band; 39.	
16624 N 4505	---W. head.	40° 37.9' N 22° 55.3' E	<b>Fl.G.</b> period 4s fl. 1.6s, ec. 2.4s	43	13	7 White concrete column, gallery, green band; 36.	
16628 N 4504	--Pier I, harbor office building, SW. corner.	40° 37.9' N 22° 56.1' E	<b>Fl.G.</b> period 4s fl. 1.5s, ec. 2.5s	56	17	10 White metal framework structure, green band, building; 49.	Traffic Signals.
16636 N 4509	--Oil terminal, pier, head.	40° 38.2' N 22° 53.7' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33	10	10 White hexagonal hut, gallery, column; 26.	
16639 N 4492.9	-Sani Marina.	40° 05.8' N 23° 18.3' E	<b>Q.G.</b>	23	7	3 Metal framework structure, gallery, metal column, green band.	Q.R. 7m 3M, Fl.G. 3s 7m 3M, Fl.R. 3s 7m 3M mark nearby moles.
16640 N 4488	<b>-Akra Kassandra.</b>	39° 57.5' N 23° 21.7' E	<b>Fl.(2)W.</b> period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	62	19	24 Octagonal tower, dwelling; 59.	
<b>KOLPOS KASSANDRAS:</b>							
16644 N 4511	-Akra Paliourian, W. entrance, point.	39° 54.9' N 23° 44.9' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	66	20	7 Metal framework structure; 13.	
16646 N 4518	-Pallini.	40° 03.7' N 23° 27.9' E	<b>Fl.R.</b>	20	6	3 White metal column, red band; 20.	Private light.
	<b>-Limin Koufo:</b>						
16648 N 4512	--Akra Pagona.	39° 57.5' N 23° 55.1' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	43	13	5 Metal framework structure; 20.	
16652 N 4512.5	--Spilia.	39° 57.8' N 23° 55.1' E	<b>Fl.R.</b> period 3s fl. 0.4s, ec. 2.6s	52	16	4 White square hut, two pillars, red band; 20.	
16656 N 4516	-Skaha Gerakini, pier, head.	40° 16.2' N 23° 26.5' E	<b>2 Fl.R. (vert.)</b>	26	8	3 White metal column.	1 meter apart. Private light.
16660 N 4513	-Akra Papadhia.	40° 00.3' N 23° 49.4' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	29	9	W. 5 Metal framework structure; 13. R. 3	W. 269°-138°, R.-168°.
16664 N 4515	-Neos Marmaras.	40° 05.5' N 23° 46.7' E	<b>Fl.R.</b> period 1.5s fl. 0.2s, ec. 1.3s	36	11	3 White square hut, two pillars, red band; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16666 N 4515.4	-Nikiti, inner mole, head.	40° 13.1' N 23° 39.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
16667 N 4515.5	--Outer mole, head.	40° 13.1' N 23° 39.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
SINGITIKOS KOLPOS:							
16668 N 4520	-Akra (Dhrepanon), Psevdhokavos.	39° 57.0' N 23° 59.4' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	171 52	10	White metal framework structure; 16.	
16670 N 4522.4	-Sykia, pier, head.	40° 02.2' N 23° 59.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column.	
16672 N 4522	-Ormos Sikias, Akra Adholo.	40° 02.3' N 24° 00.8' E	<b>Fl.W.</b> period 1.5s fl. 0.5s, ec. 1s	36 11	4	Metal framework structure, white round hut; 13.	
16676 N 4523	-Ormos Dhimitri.	40° 13.7' N 23° 46.1' E	<b>Fl.G.</b> period 1.5s fl. 0.3s, ec. 1.2s	34 10	3	Metal framework structure; 13.	
16677 N 4523.2	-Panagia, mole, head.	40° 14.1' N 23° 44.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, green band.	
16680 N 4523.4	-Ormos Pyrgadikia.	40° 20.1' N 23° 43.2' E	<b>Q.R.</b>	20 6	3	Metal framework structure; 13.	
16682 N 4523.9	-Ammoyliani, mole, head.	40° 20.2' N 23° 55.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column; 20.	
16684 N 4524	-Nisoi Dhrenia.	40° 19.1' N 23° 57.8' E	<b>Fl.W.R.</b> period 2.5s fl. 0.3s, ec. 2.2s	36 11	W. R. 4 3	Metal framework structure; 13.	W. 103°-323°, R.-103°.
16685 N 4525	-Limenas Ouranoupolis, mole, head.	40° 19.6' N 23° 58.7' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, green band; 20.	
16688 N 4526	-Dhafni.	40° 13.1' N 24° 13.3' E	<b>Fl.W.</b> period 2.5s fl. 0.3s, ec. 2.2s	56 17	5	Metal framework structure, white round hut; 16.	Obscured when bearing less than 008°.
16689 N 4527.5	-Moni Agiou Pavlou, N. mole, head.	40° 09.4' N 24° 17.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16689.1 N 4527	--S. mole, head.	40° 09.4' N 24° 17.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
16692 N 4528	-Akra Pinnes.	40° 07.0' N 24° 18.3' E	<b>Fl.(3)W.</b> period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	85 26	9	Metal framework structure, white square hut; 18.	
16696 N 4530	Akra Akraathos.	40° 08.5' N 24° 24.0' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	154 47	11	Metal framework structure, gallery, white square hut.	
16697 N 4525.5	Ormos Vatopedhiou, Monastery, mole, head.	40° 19.0' N 24° 12.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	White metal framework structure, gallery, red band; 16.	
16698 N 4525.3	Athos Peninsula, Esfigmenos Monastery, mole, head.	40° 21.3' N 24° 08.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	White metal framework structure, gallery, green band; 16.	
16698.1 N 4525.4	--Jetty, head.	40° 21.3' N 24° 08.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	White metal framework structure, gallery, red band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16700 N 4533	Ormos Plati, NW. point.	40° 26.2' N 23° 59.7' E	<b>Q.W.</b>		72 22	4 Metal framework structure; 13.	
16704 N 4532	Nisidhes Stilaria, Akra Arapis.	40° 27.3' N 24° 00.5' E	<b>Fl.W.</b> period 2.5s fl. 0.3s, ec. 2.2s		98 30	6 Metal framework structure; 7.	
16706 N 4533.6	Limenas Neon Rodhon.	40° 23.0' N 23° 55.9' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s		30 9	3 Metal framework structure, gallery, red band; 20.	
16707 N 4533.7	Ierissos, E. mole, head.	40° 23.7' N 23° 53.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s		23 7	3 Metal framework structure, gallery, red band.	
16707.5 N 4533.8	-W. mole, head.	40° 23.7' N 23° 53.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s		23 7	3 Metal framework structure, gallery, green band; 17.	
16708 N 4534	Ormos Stratonii, E. mole.	40° 31.0' N 23° 50.0' E	<b>F.R.</b>		76 23	5 Metal column.	Private light.
16710 N 4535	Olimbias.	40° 35.6' N 23° 47.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s		26 8	3 Metal framework structure, gallery, red column.	
16712 N 4536	Nisis Kavkanas, E. head.	40° 36.9' N 23° 48.5' E	<b>Fl.(3)W.</b> period 18s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 14.5s		75 23	7 Metal framework structure, white round hut; 18.	
16716 N 4537	Ormos Stavros, mole, head.	40° 40.1' N 23° 42.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s		23 7	3 Metal framework structure, gallery, metal column, red band.	
16716.1 N 4537.5	Ormos Stomion.	40° 46.7' N 23° 51.4' E	<b>Fl.G.</b> period 2s		16 5	3	
16720 N 4538	Ormos Elevrhteron, N. side.	40° 50.6' N 24° 19.6' E	<b>Fl.W.</b> period 3s fl. 0.4s, ec. 2.6s		66 20	5 Metal framework structure; 16.	
16728 N 4539.5	Nea Iraklitsa, E. mole, head.	40° 52.1' N 24° 19.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s		23 7	3 Metal framework structure, gallery, red band.	
16732 N 4539.6	-W. mole, head.	40° 52.0' N 24° 19.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s		23 7	3 Metal framework structure, gallery, green band.	
LIMIN KAVALAS:							
16736 N 4540	-Akra Kara Orman.	40° 55.8' N 24° 24.8' E	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s		108 33	15 White lantern; 10.	
16744 N 4542	-N. breakwater, head.	40° 56.0' N 24° 24.4' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s		36 11	4 White hexagonal hut, column, red band; 30.	
16748 N 4544	-W. breakwater, head.	40° 55.7' N 24° 23.7' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s		36 11	7 White hexagonal hut, gallery, column, red band; 23.	
16749 N 4544.6	Ormos Perigiali, S. mole, head.	40° 56.5' N 24° 25.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s		26 8	3 Metal framework structure, gallery, red band; 18.	
16749.5 N 4544.4	-N. mole, head.	40° 56.5' N 24° 25.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s		26 8	3 Metal framework structure, gallery, green band; 18.	
16752 N 4545	Nea Karvali, breakwater.	40° 57.0' N 24° 28.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s		43 13	7 Metal framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16756 N 4545.3	-Nea Karrali, pier, head.	40° 57.3' N 24° 32.5' E	<b>3 F.R.</b>	33 10	3	White metal framework structure, round hut, red band; 30.	Lights form inverted L.
16760 N 4546	Akra Ammodhis.	40° 51.6' N 24° 37.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 8s	30 9	7	Metal framework structure, white square hut; 23.	Visible 265°-134°.
<b>ORMOS KERAMOTIS:</b>							
16764 N 4546.3	-Akra Keramotis.	40° 51.4' N 24° 41.2' E	<b>Fl.W.R.</b> period 4s fl. 0.4s, ec. 3.6s	20 6	W. 6 R. 4	Metal framework structure, white round hut; 20.	W. 095°-081°, R.-095°.
16768 N 4546.6	-Pier, head.	40° 51.5' N 24° 42.1' E	<b>Q.R.G.</b>	23 7	2	White round hut, column; 16.	R. 107°-151°, G.-107°.
16772 N 4548	Nisis Thasopoula.	40° 49.5' N 24° 43.0' E	<b>Fl.W.R.</b> period 4.5s fl. 0.6s, ec. 3.9s	85 26	W. 6 R. 4	Metal framework structure, white round hut; 20.	R. 237°-260°, W.-102°.
<b>NISOS THASOS:</b>							
16775 N 7601	-Prinos, A, B, D, F.	40° 47.8' N 24° 29.7' E	<b>Mo.(U)W.</b> period 15s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 1.5s, ec. 11.5s  <b>Mo.(U)R.</b> period 15s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 1.5s, ec. 11.5s	59 18	10	Platform.	W. lights are synchronized and located on the corners of the platforms. <b>Siren:</b> Mo.(U) 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).  R. lights are synchronized and located in the middle of the bridges which connect platforms A, B, D, and F.
16776 N 4547.8	-Thasos, W. breakwater, head.	40° 46.9' N 24° 42.7' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	4	White hexagonal hut, column, green band; 23.	
16780 N 4547.9	--E. breakwater, head.	40° 46.9' N 24° 42.7' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	26 8	4	White hexagonal hut, column, red band; 23.	
16781 N 4547.93	-Panagia Marina, N. breakwater, head.	40° 46.9' N 24° 42.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower, gallery, red band.	
16781.1 N 4547.95	--S. breakwater, head.	40° 46.8' N 24° 42.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower, gallery, green band.	
16782 N 4546.8	-Rachoni, fishing harbor, mole, head.	40° 47.0' N 24° 36.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, green band.	
16782.5 N 4546.9	--Pier, head.	40° 47.0' N 24° 36.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
16784 N 4547	-Akra Prinos.	40° 45.7' N 24° 33.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	7	Metal framework structure; 13.	
16785 N 4547.1	-Sotiras, S. mole, head.	40° 43.8' N 24° 32.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	
16785.5 N 4547.15	--N. mole, head.	40° 43.8' N 24° 32.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
16786 N 4547.2	-Kallirachi, S. mole, head.	40° 42.6' N 24° 31.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16786.5 <i>N 4547.25</i>	--N. mole, head.	40° 42.6' N 24° 31.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
16787 <i>N 7801.5</i>	-Notia Kavala, K.	40° 42.0' N 24° 26.4' E	<b>Mo.(U)W.</b> period 15s fl. 0.6s, ec. 0.3s fl. 0.6s, ec. 0.3s fl. 1.5s, ec. 11.7s	59 18	10	Platform.	W. lights are synchronized and located on the corners of the platform. <b>Siren:</b> Mo.(U) 24s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 18s).
16788 <i>N 4547.5</i>	-Akra Achpas.	40° 38.3' N 24° 30.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	46 14	7	Metal framework structure; 13.	
16789 <i>N 4547.4</i>	--Mole, head.	40° 38.7' N 24° 30.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16792 <i>N 4547.7</i>	-Akra Stavros Babouras.	40° 36.4' N 24° 46.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	115 35	7	Metal framework structure; 10.	
16793 <i>N 4549.2</i>	Akra Baloustra, fishing harbor, E. breakwater, head.	40° 55.7' N 24° 58.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	White metal framework structure, green band; 20.	
16794 <i>N 4549.22</i>	-W. breakwater, head.	40° 55.8' N 24° 58.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	White metal framework structure, red band; 20.	
ORMOS VISTONIAS:							
16796 <i>N 4550</i>	-Akra Fanari.	40° 57.4' N 25° 07.8' E	<b>Fl.W.</b> period 8s fl. 1.5s, ec. 6.5s	131 40	6	Metal framework structure, water tower.	
16800 <i>N 4550.5</i>	-Fanarion, S. breakwater, head.	40° 57.8' N 25° 07.4' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, green band; 16.	
16808	-Lagos Entrance Range, front.	41° 00.3' N 25° 07.7' E	<b>F.Or.</b>	16 5	3	White metal column, orange triangular daymark point up.	
16812	--Rear, 180 meters 023°30' from front.	41° 00.4' N 25° 07.7' E	<b>F.Or.</b>	23 7	3	White metal column, orange triangular daymark point down.	
16824 <i>N 4552.5</i>	--Inner E. side.	41° 00.1' N 25° 07.6' E	<b>Fl.G.</b> period 1.5s fl. 0.2s, ec. 1.3s	13 4	3	Metal column, gallery, pedestal, green band.	
16830 <i>N 4550.9</i>	Imeros, N. breakwater.	40° 56.0' N 25° 21.5' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Metal framework structure, gallery, metal column, green band.	
16830.1 <i>N 4550.8</i>	-W. mole, head.	40° 56.0' N 25° 21.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, green band.	Fl.R. 2s 7m 3M marks inner E. mole.
16832 <i>N 4552.8</i>	Ayios Kharalambos, mole, head.	40° 52.6' N 25° 30.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	White metal framework structure, gallery, green band; 13.	
16834 <i>N 4553</i>	Limeniskos Makris, W. mole, head.	40° 50.8' N 25° 45.1' E	<b>Fl.R.</b> period 4s fl. 0.6s, ec. 3.4s	23 7	3	Metal framework structure, gallery, metal column, red band.	
16835 <i>N 4553.2</i>	-E. mole, head.	40° 50.8' N 25° 45.1' E	<b>Fl.G.</b> period 4s fl. 0.6s, ec. 3.4s	23 7	3	Metal framework structure, gallery, metal column, green band.	
16836 <i>N 4554</i>	<b>Alexandroupolis.</b>	40° 50.6' N 25° 52.5' E	<b>Fl.(3)W.</b> period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	102 31	24	Cylindrical tower, dwelling; 89.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE</b>							
16840 <i>N 4555.2</i>	-N. breakwater, head.	40° 50.5' N 25° 53.1' E	<b>FI.G.</b> period 3s fl. 0.4s, ec. 2.6s	30 9	3	White hexagonal hut, column, green band; 23.	Q.G. 0.8 mile ESE. marks end of breakwater under construction.
16844 <i>N 4555</i>	-S. breakwater.	40° 50.0' N 25° 53.9' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	6	Metal framework structure, gallery, red band.	
NISOS SAMOTHRAKI:							
16846 <i>N 4555.9</i>	-Limenisko Therma, N. mole, head.	40° 30.3' N 25° 36.1' E	<b>FI.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band; 20.	
16848 <i>N 4556</i>	-Akra Akrotiri.	40° 28.5' N 25° 26.8' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	39 12	10	Metal framework structure, gallery, metal column.	
16852 <i>N 4556.4</i>	-Ormos Kamariotissa, breakwater, head.	40° 28.4' N 25° 28.1' E	<b>FI.R.</b> period 3s fl. 0.4s, ec. 2.6s	23 7	3	Metal framework structure, gallery, metal column; 21.	
16860 <i>N 4556.8</i>	-Zourafa Islet.	40° 28.6' N 25° 50.2' E	<b>FI.(2)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	30 9	8	ISOLATED DANGER BRB, beacon, topmark; 26.	

# Section 12

## Northeastern Aegean Sea, Sea of Marmara, Bulgaria, Romania and Ukraine Including Dardanelles and Bosphorus

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-TURKEY</b>							
16861 <i>N 4568.3</i>	Gulpinar (T.), main breakwater, head.	39° 33.8' N 26° 05.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	7	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711120).
16861.1 <i>N 4568.31</i>	-Auxillary breakwater, head.	39° 33.9' N 26° 05.8' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	7	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711121).
16863 <i>N 4568.35</i>	Yukyeri Limani (T.), jetty, head.	39° 49.1' N 26° 09.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	5	White metal tower; 23.	<b>AIS</b> (MMSI No 992711117).
BOZCA ADA (T.):							
16864 <i>N 4568</i>	-Mermer Burnu.	39° 48.0' N 26° 04.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	115 35	10	White metal tower; 23.	
16868 <i>N 4566</i>	-Bozcaada, breakwater, entrance, S. side, head..	39° 50.0' N 26° 04.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	3	White metal framework tower; 33.	
16869 <i>N 4565.5</i>	--Inner harbor, pier, head.	39° 50.1' N 26° 04.4' E	<b>Fl.(4)Y.</b> period 10s	26 8	5	Yellow metal tower; 20.	
16870 <i>N 4564</i>	-Bati Burnu.	39° 50.2' N 25° 57.8' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	105 32	10	White metal pylon, dwelling; 66.	
16876 <i>N 4565</i>	Ortafener Adasi (T.).	39° 50.5' N 26° 05.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	8	White metal tower; 10.	<b>AIS</b> (MMSI No 992711140).
16878 <i>N 4568.5</i>	Besige Limani (T.), cement factory, jetty, head.	39° 52.7' N 26° 09.1' E	<b>Fl.R.</b>	23 7	3		
16878.1 <i>N 4568.6</i>	--Number 1 jetty, head.	39° 52.8' N 26° 09.2' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	23 7	5	Metal mast; 16.	
16878.3 <i>N 4568.7</i>	--Number 2 jetty, head.	39° 52.7' N 26° 09.2' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	20 6	5	Metal mast; 16.	
16882 <i>N 4569</i>	Besige Burnu.	39° 54.9' N 26° 09.0' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	82 25	7	White metal framework tower; 26.	
16884 <i>N 4560</i>	Tavsan Adasi (T.).	39° 56.1' N 26° 03.6' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	148 45	10	Frame pylon; 33.	
NISOS LIMNOS (GR.):							
16888 <i>N 4578</i>	-Ormos Moudhrou, Nisis Kombi.	39° 47.8' N 25° 14.2' E	<b>Fl.(2)W.</b> period 6s fl. 0.4s, ec. 0.8s fl. 0.4s, ec. 4.4s	200 61	10	Metal framework structure; 13.	
16892 <i>N 4580</i>	--Aspros Kavos.	39° 51.0' N 25° 14.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	43 13	5	Metal framework structure, white round hut; 16.	
16900 <i>N 4577</i>	-Ormos Kondias, on Akra Lena.	39° 50.7' N 25° 09.8' E	<b>Fl.W.</b> period 3.3s fl. 0.4s, ec. 2.9s	20 6	5	White metal framework structure; 16.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-TURKEY</b>							
16904 N 4575	-Mirina.	39° 52.6' N 25° 03.2' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	272 83	11	Masonry structure; 13.	
16907 N 4576.4	--N. breakwater, head.	39° 52.4' N 25° 03.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	6	Square hut, gallery, column, red band; 30.	
16908 N 4576.2	--E. breakwater, head.	39° 52.4' N 25° 03.5' E	<b>Q.R.</b>	33 10	3	White hexagonal hut, gallery, column, red band; 26.	
16912 N 4576.6	--S. breakwater, head.	39° 52.3' N 25° 03.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	5	White hexagonal hut, gallery, column, green band; 26.	
16916 N 4574	-Akra Mourtzeflos.	39° 59.1' N 25° 02.0' E	<b>Fl.(2)W.</b> period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	194 59	13	Metal pyramidal structure, gallery; 10.	
16920 N 4572	<b>-Akra Plaka.</b>	40° 02.1' N 25° 26.7' E	<b>Fl.(3)W.</b> period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	181 55	22	Cylindrical tower, dwelling; 69. Secondary structure: White lantern; 10.	
			<b>F.R.</b>	118 36	13		Visible 301°-346°.
16921 N 4571.1	--S. mole, head.	40° 01.1' N 25° 26.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	
16921.1 N 4571.2	--N. mole, head.	40° 01.1' N 25° 26.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
NISOS AYIOS EVSTRATOS (GR.):							
16924 N 4585	-Nisis Ay. Apostoloi.	39° 33.9' N 25° 00.2' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	112 34	W. 10 R. 7	White square hut; 13.	W. 039°-294°, R.-312°.
16925 N 4584.5	-Evstratios, mole, head.	39° 32.4' N 24° 59.1' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	26 8	3	Metal framework structure, gallery, metal column; 23.	
16928 N 4584	-Akra Tripiti.	39° 27.8' N 24° 59.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 8s	135 41	8	Metal framework structure, white round hut; 16.	
IMROZ ADASI (T.):							
16932 N 4559.4	-Kalekoy.	40° 14.0' N 25° 54.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	161 49	7	White metal framework tower; 30.	<b>AIS</b> (MMSI No 992711122).
16936 N 4559.7	--S. breakwater, head.	40° 13.9' N 25° 56.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White metal tower; 23.	<b>AIS</b> (MMSI No 992711125).
16936.5 N 4559.6	--N. breakwater.	40° 13.8' N 25° 57.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White metal tower; 23.	<b>AIS</b> (MMSI No 992711124).
16940 N 4559	-Aydinicik Burnu.	40° 09.7' N 26° 00.7' E	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	75 23	10	White metal framework tower; 10.	<b>AIS</b> (MMSI No 992711123).
16940.5 N 4559.2	-Ugurlu Iskelesi, breakwater.	40° 06.9' N 25° 41.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	5	White metal framework tower; 30.	<b>AIS</b> (MMSI No 992711126).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-TURKEY</b>							
16941 N 4558.5	-Kabatepe Limani, N. breakwater, head.	40° 12.2' N 26° 16.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	6	White concrete tower; 23.	<b>AIS</b> (MMSI No 992711113).
16942 N 4558.6	--S. breakwater, head.	40° 12.2' N 26° 16.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 9	6	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711115).
16943 N 4557.1	Enez Harbor (T), W. breakwater, head.	40° 42.0' N 26° 03.1' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	13 4	7	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711110).
16943.1 N 4557.12	-N. breakwater, head.	40° 42.0' N 26° 03.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	13 4	7	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711111).
16943.2 N 4557.14	-Inner breakwater, head.	40° 41.9' N 26° 03.2' E	<b>FR.</b>	26 8	2	White concrete tower; 20.	
SAROS KORFEZI:							
16944 N 4558	-Buyuk Kemikli Burnu.	40° 19.0' N 26° 13.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	46 14	10	White metal framework tower; 23.	<b>AIS</b> (MMSI No 992711116).
16948 N 4557.6	Bakla Burnu, Saros Korfezi.	40° 33.4' N 26° 44.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	52 16	12	White round metal tower; 26.	<b>AIS</b> (MMSI No 992711109).
<b>TURKEY</b>							
DARDANELLES (CANAKKALE BOGAZI):							
16956 N 4850	<b>-Mehmetcik Burnu.</b>	40° 02.6' N 26° 10.5' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	164 50	W. 19 R. 12	White stone tower, dwelling; 82.	R. 350°-010°, W.-350°. <b>Radar reflector.</b>
	-RACON		<b>C(- • - •)</b>		20		(3 & 10cm).
16960 N 4852.4	-Seddulbahir, entrance, N. side.	40° 02.5' N 26° 11.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	16 5	5	Metal framework tower.	
16964 N 4852.8	--Entrance, S. side.	40° 02.5' N 26° 11.4' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	16 5	5	Metal framework tower.	<b>AIS</b> (MMSI No 992711387).
16968 N 4852.3	--Seddulbahir.	40° 02.5' N 26° 11.5' E	<b>Fl.R.</b> period 5s fl. 0.3s, ec. 4.7s	26 8	3	Concrete tower; 13.	<b>AIS</b> (MMSI No 992711351).
16972 N 4852.6	--N. mole.	40° 02.5' N 26° 11.5' E	<b>Fl.G.</b> period 5s fl. 0.3s, ec. 4.7s	26 8	5	Concrete tower; 13.	<b>AIS</b> (MMSI No 992711352).
16976 N 4852	-Anit (Morto) Limani.	40° 02.6' N 26° 12.1' E	<b>Fl.(4)R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	26 8	5	White metal tower; 16.	<b>Radar reflector.</b>
16980 N 4848	<b>-Kumkale Burnu</b> , entrance, S. side.	40° 00.5' N 26° 11.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	52 16	18	White metal tower; 20.	
16984 N 4853	-Karanfil Burnu.	40° 06.4' N 26° 19.7' E	<b>Fl.(2)R.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 14	10	White metal tower; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
16988 N 4854	-Kanlidere Burnu.	40° 05.6' N 26° 21.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	10	White metal tower, dwelling; 33.	
16989 N 4854.5	-Kepez Burnu, jetty, head.	40° 06.3' N 26° 22.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s				
16990 N 4855	-Sarisiglar.	40° 08.1' N 26° 23.8' E	<b>V.Q.(9)W.</b> period 10s	30 9	9	W. CARDINAL YBY, beacon, topmark; 26.	
16992 N 4856	<b>-Kilitbahir.</b>	40° 08.6' N 26° 22.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	15	White metal framework tower; 13.	
16993 N 4856.5	--N breakwater, head.	40° 09.2' N 26° 22.8' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	23 7	5	Round metal tower, green bands.	
16994 N 4856.3	--S. breakwater, head.	40° 09.0' N 26° 22.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	5	Round metal tower, red bands.	
16996 N 4857	-Canakkale Kalesi (Cimenlik).	40° 08.8' N 26° 23.9' E	<b>Fl.R.G.</b> period 5s fl. 1s, ec. 4s	52 16	10	White metal tower; 46.	R. 341°-027°, G.-341°. R. lights on mast 1.5 miles NNE.
16997 N 4857.2	--Ferry Terminal.	40° 09.0' N 26° 24.0' E	<b>Fl.(2)G.</b> period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 7	3	White concrete tower, green bands; 13.	<b>AIS</b> (MMSI No 992711114).
16997.05 N 4857.22	---N. breakwater, head.	40° 09.0' N 26° 24.0' E	<b>Fl.(2)R.</b> period 5s	26 8	3		
16997.1 N 4857.25	--Breakwater, head.	40° 09.1' N 26° 24.1' E	<b>Fl.(3)Y.</b> period 8s	26 8	5		
16998 N 4857.3	--Marina, breakwater, head.	40° 09.2' N 26° 24.3' E	<b>Fl.G.</b> period 3s	20 6	3	Metal pylon; 13.	
17000 N 4862	-Nara Burnu.	40° 11.8' N 26° 24.0' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	7	White metal tower, concrete base; 30.	F.R. on jetty 600 meters SE.
17012 N 4859	-Eceabat, S. breakwater, head.	40° 11.1' N 26° 21.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	5	White metal tower; 20.	
17016 N 4859.2	--N. breakwater, head.	40° 11.1' N 26° 21.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	5	White metal tower; 20.	
17020 N 4860	-Poyraz Burnu.	40° 12.2' N 26° 22.6' E	<b>Fl.(2)R.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	23 7	10	White concrete tower; 20.	
17024 N 4866	-Kavakalti Deresi, shoal, head.	40° 13.2' N 26° 25.4' E	<b>Fl.(3)R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	20 6	12	White metal tower; 16.	
17025 N 4867	-Akbas Limani.	40° 13.6' N 26° 25.6' E	<b>Fl.G.</b> period 3s	23 7	5	White round tower, green band.	
17028 N 4868	-Uzun Burnu.	40° 16.0' N 26° 29.5' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	36 11	8	White metal tower; 33.	<b>AIS</b> (MMSI No 992711112).
17032 N 4870	-Gocuk Burnu, strait, E. side.	40° 16.7' N 26° 34.3' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	39 12	10	White concrete tower; 33.	F.R. marks head of jetty 1.3 miles SSW.
17036 N 4872	-Karakova Burnu.	40° 19.2' N 26° 35.2' E	<b>Fl.R.</b> period 6s fl. 1s, ec. 5s	33 10	10	Metal tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17038 N 4875	-Lapseki Limani.	40° 20.0' N 26° 41.0' E	<b>Fl.(3)Y.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 8	5	SPECIAL Y, tower, "X" topmark; 20.	
17040 N 4874	-Galata Burnu, on shoal.	40° 21.4' N 26° 37.7' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	12	White metal tower; 13.	
17044 N 4876	-Cardak Burnu, on low sandy point.	40° 23.1' N 26° 42.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	38 12	5	White concrete tower; 36.	
17046 N 4876.5	-Cardak Banki.	40° 23.5' N 26° 42.5' E	<b>V.Q.(9)W.</b> period 10s	26 8	5	W. CARDINAL YBY, beacon, topmark; 16.	
17048 N 4878	<b>-Gelibolu.</b>	40° 24.6' N 26° 40.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	111 34	15	White masonry tower, dwelling; 30.	<b>Siren:</b> 2 bl. ev. 30s (bl. 2s, si. 2s, bl. 2s, si. 24s).
	-RACON		<b>G(- - •)</b>		20		(3 & 10cm).
17049 N 4877	--Fishing Harbor, breakwater, head.	40° 24.3' N 26° 40.1' E	<b>Fl.(2)Y.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	3	SPECIAL Y, tower, "X" topmark; 20.	
17049.1 N 4877.1	--Elbow.	40° 24.3' N 26° 40.2' E	<b>Fl.(2)Y.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	3	SPECIAL Y, tower, "X" topmark; 20.	
SEA OF MARMARA (MARMARA DENIZI):							
17052 N 4879	-Zincirbozan Banki, Sea of Marmara, W. entrance.	40° 25.2' N 26° 45.2' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	33 10	7	Tower, concrete base; 36.	<b>AIS (MMSI No 992711355). Radar reflector.</b>
17054 N 4879.5	-Doganaslan Bank.	40° 29.8' N 26° 51.4' E	<b>Q.(6)+L.Fl.W.</b> period 15s	30 9	7	S. CARDINAL YB, beacon, topmark.	
17056 N 4880	<b>-Ince Burnu.</b>	40° 33.4' N 26° 59.8' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 32	16	White concrete tower; 33.	<b>AIS (MMSI No 992711087).</b>
17058 N 4880.2	-Kemer Limani, SW. breakwater, head.	40° 24.7' N 27° 02.3' E	<b>Fl.R.</b> period 5s	30 9	5		F.R. lights on breakwater.
17058.5 N 4880.25	--Pier, head.	40° 24.4' N 27° 02.6' E	<b>Fl.G.</b> period 5s	30 9	5		
17060 N 4896	<b>-Hoskoy.</b>	40° 42.2' N 27° 18.3' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	164 50	19	White metal tower, dwelling; 72.	<b>AIS (MMSI No 992711086).</b>
17061 N 4896.2	-Kumbag, fishing harbor, breakwater, head.	40° 51.9' N 27° 27.7' E	<b>Fr.R.</b>	23 7	8	Concrete tower; 7.	
17064 N 4896.5	-Tekirdag, on pier.	40° 58.4' N 27° 31.0' E	<b>Fl.(4)Y.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	4	Yellow round tower.	
17064.4 N 4896.74	--E. breakwater, head.	40° 58.4' N 27° 31.4' E	<b>Fl.G.</b> period 4s		3		
17064.6 N 4896.72	--W. breakwater, head.	40° 58.5' N 27° 31.4' E	<b>Fr.R.</b> period 4s		3		
17065 N 4896.58	--W. quay, entrance, W. corner.	40° 57.9' N 27° 30.5' E	<b>Fl.(2)G.</b> period 6s	30 9	4		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17065.1 <i>N 4896.56</i>	----E. corner.	40° 57.9' N 27° 30.6' E	<b>Fl.(2)R.</b> period 6s	30 9	4		
17065.2 <i>N 4896.54</i>	---Outer, NE. corner.	40° 57.9' N 27° 30.6' E	<b>Fl.(3)Y.</b> period 9s	30 9	4		
17065.3 <i>N 4896.52</i>	----SW. corner.	40° 57.7' N 27° 30.5' E	<b>Fl.G.</b> period 4s	30 9	4		
17066 <i>N 4896.85</i>	--SW. pier, dolphin.	40° 57.7' N 27° 30.3' E	<b>Fl.R.</b> period 4s	30 9	4		
17066.1 <i>N 4896.8</i>	---Head.	40° 57.7' N 27° 30.2' E	<b>F.R.</b>				
17067 <i>N 4896.42</i>	--SW. jetty, head.	40° 57.6' N 27° 30.3' E	<b>Iso.Y.</b> period 2s	30 9	4		
17067.5 <i>N 4896.9</i>	<b>-Kargaburun AVIATION LIGHT.</b>	40° 58.4' N 27° 52.2' E	<b>Oc.R.</b> period 3s	643 196	20	Mast.	
			<b>Oc.R.</b> period 3s	269 82	16		
17068 <i>N 4897</i>	-Orencik, Venedik Tasi.	40° 57.7' N 27° 53.8' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	30 9	10	White tower, concrete base; 16.	<b>AIS</b> (MMSI No 992711101).
17069 <i>N 4897.5</i>	-Marta, jetty.	40° 57.7' N 27° 55.9' E	<b>Fl.(2)Y.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	5	SPECIAL Y, post, "X" topmark.	
17072 <i>N 4898</i>	<b>-Marmaraeregisi.</b>	40° 58.0' N 27° 57.7' E	<b>Fl.W.</b> period 10s fl. 0.4s, ec. 9.6s	171 52	16	White metal tower, dwelling; 85.	<b>AIS</b> (MMSI No 992711100).
17076 <i>N 4899</i>	--On shoal spit, about 0.65 km. 034° from Marmaraeregisi.	40° 58.4' N 27° 57.9' E	<b>Q.(3)W.</b> period 10s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 7.7s	26 8	8	E. CARDINAL BYB, beacon, topmark; 20.	<b>AIS</b> (MMSI No 992711102).
17076.1 <i>N 4899.02</i>	-Opet Terminal, SW. jetty, SW. head.	40° 58.9' N 27° 59.0' E	<b>Fl.Y.</b> period 3s	36 11	3		
17076.2 <i>N 4899.04</i>	---NE. head.	40° 58.9' N 27° 58.8' E	<b>Fl.Y.</b> period 3s	33 10	3		
17077 <i>N 4899.05</i>	-Opet Terminal, N. jetty, SW. head.	40° 59.1' N 27° 59.0' E	<b>Fl.(2)Y.</b> period 6s	33 10	5		
17077.1 <i>N 4899.06</i>	---NE. head.	40° 59.1' N 27° 58.9' E	<b>Fl.(2)Y.</b> period 6s	33 10	5		
17078 <i>N 4899.1</i>	-Botas Dogalgaz Terminal.	40° 59.7' N 27° 59.2' E	<b>Fl.(4)Y.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	26 8	5	Round post, "X" topmark.	F.R. mark terminal jetties.
17078.1 <i>N 4899.104</i>	--Jetty, middle.	40° 59.5' N 27° 59.2' E	<b>Mo.(U)R.</b> period 10s	26 8	5	Yellow tower, yellow "X" topmark; 10.	
17078.2 <i>N 4899.107</i>	---S. end.	40° 59.4' N 27° 59.1' E	<b>Fl.(4)Y.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	26 8	5	Yellow tower, yellow "X" topmark; 10.	
17080 <i>N 4899.3</i>	-Silivri, center breakwater.	41° 04.4' N 28° 14.3' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6	5	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711045).
17081 <i>N 4899.4</i>	--Auxiliary breakwater.	41° 04.4' N 28° 14.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	20 6	5	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711046).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17081.5 N 4899.52	-Mimarsinan, pier.	41° 00.9' N 28° 33.9' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6 7 2	5	White tower, red bands.	
17082 N 4899.53	-Mimarsinan. N. breakwater, head.	41° 00.9' N 28° 33.9' E	<b>Fl.G.</b> period 5s		5		
17083 N 4899.535	--S. breakwater, head.	41° 00.9' N 28° 34.0' E	<b>Fl.R.</b> period 5s		5		
17092 N 4899.6	-Buyukcekmece Koyu, Degirmen Burnu.	40° 57.6' N 28° 37.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	65 20	10	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711044).
17092.1 N 4900.797	-Westward, N. side.	40° 57.7' N 28° 39.5' E	<b>Fl.R.</b> period 5s	36 11	3		
17092.2 N 4900.798	--S. side.	40° 57.7' N 28° 39.6' E	<b>Fl.G.</b> period 5s	36 11	3		
17093 N 4900.79	-Soyak, wharf, head.	40° 57.5' N 28° 40.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	5	Red round tower, white band; 20.	
17093.1 N 4900.9	--E. pier, head.	40° 57.8' N 28° 41.1' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	26 8	5	Green round tower, white band; 20.	
17096 N 4901.7	-Outfall pipe.	40° 58.8' N 28° 45.4' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	26 8	5	Yellow metal framework tower; 19.	
17100 N 4901	-Yesilkoy, AVIATION LIGHT.	40° 58.7' N 28° 49.3' E	<b>Al.Fl.W.G.</b> period 8s	160 49	10	Tower; 69.	
17104 N 4902	-Yesilkoy Burnu.	40° 57.5' N 28° 50.3' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	75 23	15	White stone tower, dwelling; 33.	
17105 N 4902.5	-Atakoy Marina, jetty.	40° 58.3' N 28° 52.8' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	43 13	5	White mast, tower.	
17105.1 N 4902.6	--Wharf.	40° 58.3' N 28° 52.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	5	White round tower.	
17105.2 N 4902.71	-Zeyport.	40° 58.8' N 28° 53.6' E	<b>Fl.R.</b> period 3s	30 9	5	White metal tower; 23.	Synchronized with 17105.21.
17105.21 N 4902.75	--S. pier, head.	40° 58.7' N 28° 53.8' E	<b>Fl.G.</b> period 3s	30 9	5	White metal tower; 23.	Synchronized with 17105.2.
17106 N 4903.45	-Yenikapi, breakwater, head.	40° 59.9' N 28° 57.6' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	8	White metal framework tower; 19.	
17107 N 4903.6	--E. pier, head.	41° 00.1' N 28° 57.4' E	<b>Fl.(4)Y.</b> period 15s	23 7	3		
17108 N 4903.4	-Kumkapi Barinak, pier, head.	41° 00.1' N 28° 57.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White concrete tower, red band; 30.	<b>AIS</b> (MMSI No 992711039).
17110 N 4880.3	-Adasi, breakwater, head.	40° 27.3' N 27° 08.4' E	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	30 9	7	Metal column; 33.	
17111 N 4880.4	--W. jetty, head.	40° 27.1' N 27° 08.2' E	<b>Fl.Y.</b> period 4s	46 14	7	Metal column.	
17111.1 N 4880.5	--E. jetty, head.	40° 27.2' N 27° 08.5' E	<b>Fl.(2)G.</b> period 4s	46 14	7	Metal column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17112 N 4880.6	-Ince Burun, W. entrance point.	40° 28.5' N 27° 17.1' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	164 50	10	White metal tower; 23.	<b>AIS</b> (MMSI No 992711105).
17116 N 4881.6	--Tavsan Adasi.	40° 22.6' N 27° 47.3' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	181 55	12	White metal framework tower; 19.	<b>AIS</b> (MMSI No 992711088).
17120 N 4881.7	-Erdek, breakwater, head.	40° 23.2' N 27° 48.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	6	White concrete tower; 10.	
17124 N 4881.72	--N. pier, head.	40° 24.0' N 27° 48.0' E	<b>F.R.</b>				
17128 N 4881.71	--SW. pier, head.	40° 23.2' N 27° 48.3' E	<b>F.R.</b>				<b>AIS</b> (MMSI No 992711094).
17129 N 4881.74	--NW. pier, head.	40° 23.6' N 27° 47.5' E	<b>Iso.Y.</b> period 2s	30 9	7	23.	
17130 N 4880.8	-Kule Burnu, pier, head.	40° 25.4' N 27° 19.9' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	33 10	5	Yellow metal tower; 20.	
17132 N 4881	-Kale Burnu.	40° 24.7' N 27° 20.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	8	White metal framework tower; 26.	<b>AIS</b> (MMSI No 992711106).
17134 N 4881.3	-Karabiga, N. breakwater, head.	40° 24.2' N 27° 18.5' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower; 10.	<b>AIS</b> (MMSI No 992711107).
17135 N 4881.4	--Inner harbor.	40° 24.1' N 27° 18.4' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	26 8	7	20.	
17135.5 N 4881.5	--S. breakwater, head.	40° 24.0' N 27° 18.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower; 10.	<b>AIS</b> (MMSI No 992711108).
17136 N 4894	-Hayirsiz Ada, N. summit.	40° 38.7' N 27° 29.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	366 112	12	White metal framework tower, dwelling; 26.	<b>AIS</b> (MMSI No 992711078).
17144 N 4892.4	--Domuz Burnu.	40° 40.0' N 27° 38.0' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	82 25	9	White metal framework tower; 13.	<b>AIS</b> (MMSI No 992711083).
	-Marmara Adasi:						
17148 N 4892.6	--Saraylar, shelter mole, head.	40° 39.4' N 27° 39.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	10	White metal tower; 30.	<b>AIS</b> (MMSI No 992711079).
17152 N 4892	--Asmali (Fener Adasi).	40° 38.0' N 27° 45.5' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	131 40	12	White metal framework tower, dwelling; 29.	<b>AIS</b> (MMSI No 992711089).
17152.5 N 4892.7	--Cinarli, Adatas (Pacanoz) Rock.	40° 36.6' N 27° 31.6' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	30 9	2	ISOLATED DANGER BRB, tower, topmark;10.	
17152.6 N 4892.78	--Marmara, steamboat jetty, head.	40° 35.1' N 27° 33.3' E	<b>Fl.(3)Y.</b> period 12s	26 8	5		
17153 N 4892.8	--Marmara, breakwater, head.	40° 35.0' N 27° 33.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	8	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711080).
17153.5 N 4892.9	---Mole, head.	40° 35.0' N 27° 33.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	8	White metal mast; 26.	<b>AIS</b> (MMSI No 992711081).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17154 N 4893.5	--Balıkcı Limani.	40° 36.8' N 27° 42.4' E	<b>F.G.</b>	16 5	3	Metal mast; 10.	
17156 N 4893	--Ada Burnu.	40° 34.5' N 27° 34.5' E	<b>Fl.(3)W.</b> period 15s	131 40	12	White metal tower; 20.	<b>AIS</b> (MMSI No 992711082).
17159 N 4881.9	-Yigittler, breakwater, head.	40° 29.9' N 27° 31.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	5	White concrete tower; 20.	
17159.1 N 4881.95	--W. side.	40° 29.9' N 27° 31.5' E	<b>Fl.R.</b> period 5s		5		
17160 N 4882	--Ekinlik, Avsar Adası, off W. side.	40° 30.8' N 27° 28.7' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	60 18	8	White metal tower; 33.	<b>AIS</b> (MMSI No 992711084).
17161 N 4883	--Avsa Adası, Ince Br.	40° 28.2' N 27° 29.3' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	131 40	10	White round galvanized metal tower; 23.	
17164 N 4884	--Balyos Burnu, Kapıdağı Yarımadası, W. point.	40° 29.7' N 27° 41.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 38	10	White iron tower; 39.	<b>AIS</b> (MMSI No 992711093).
17168 N 4885	--Tuzla Burnu, E. point.	40° 27.7' N 27° 40.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	72 22	12	White metal tower; 23.	<b>AIS</b> (MMSI No 992711095).
	-Bandırma Korfezi:						
17172 N 4890	--Kapsul Burnu.	40° 28.6' N 28° 02.1' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	66 20	12	White concrete tower, dwelling; 31.	<b>AIS</b> (MMSI No 992711091).
17176 N 4888	---W. mole, head.	40° 21.4' N 27° 57.5' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	6	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711097).
17180 N 4887	---E. breakwater, head.	40° 21.5' N 27° 57.5' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	10	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711098).
17184 N 4889	---S. mole, head.	40° 21.3' N 27° 58.0' E	<b>2 F.G.</b> (vert.)	21 6	2	White metal mast; 10.	
17184.1 N 4889.3	--Entrance.	40° 21.6' N 27° 58.4' E	<b>Fl.G.</b> period 4s		3		
17184.2 N 4889.4	---N.	40° 21.7' N 27° 58.4' E	<b>Fl.R.</b> period 4s		3		
17188 N 4886	--Mola Adalari, Fener Adası.	40° 27.7' N 28° 04.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	141 43	10	White metal mast, dwelling; 39.	Visible 259°-296°, 303°-312° and 028°-256°. <b>AIS</b> (MMSI No 992711092).
17192 N 4899.8	-İmralı Adası, Martı Burnu, NW.	40° 33.9' N 28° 31.2' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	361 110	10	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711054).
17196 N 4899.9	--Degirmen Burnu.	40° 33.4' N 28° 33.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	82 25	6	White metal framework tower; 16.	<b>AIS</b> (MMSI No 992711053).
17200 N 4900.8	-Karabacey (Sazlı Kohve Burnu).	40° 23.4' N 28° 31.1' E	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	42 13	10	White metal framework tower; 39.	<b>AIS</b> (MMSI No 992711099).
17208 N 4900.2	-Gemlik Korfezi, Arnavut Burnu.	40° 23.1' N 28° 51.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	12	White metal tower; 20.	<b>AIS</b> (MMSI No 992711063).



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17212 N 4900.4	--Mudanya, mole.	40° 22.5' N 28° 53.3' E	<b>Fl.(3)Y.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	72 22	4	Mast; 66.	
17213 N 4900.5	--Roda, jetty.	40° 24.8' N 29° 04.5' E	<b>Fl.(3)Y.</b> period 10s		5		
17216 N 4900.6	--Tuzla Burnu.	40° 25.1' N 29° 05.7' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	46 14	12	White metal framework tower; 39.	<b>AIS</b> (MMSI No 992711062).
17220 N 4900.7	--Gemlik, wharf, head.	40° 25.9' N 29° 09.1' E	<b>Fl.(3)Y.</b> period 8s		3	Gray framework tower.	
17224.1 N 4900.73	--Kucukkumla Port.	40° 28.0' N 29° 06.0' E	<b>Fl.(4)Y.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	23 7	5	Yellow tower; 16.	
17225 N 4900	--Boz Burnu, W. extremity.	40° 32.0' N 28° 47.1' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	253 77	10	White metal tower, dwelling; 29.	<b>AIS</b> (MMSI No 992711064). <b>Siren:</b> 2 bl. ev. 30s (bl. 2s, si. 2s, bl. 2s, si. 24s).
17236 N 4899.96	--Sivrikaya Burnu, entrance, S. side.	40° 38.7' N 29° 00.5' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	65 20	12	White metal framework tower; 33.	<b>AIS</b> (MMSI No 992711065).
17238 N 4899.94	--Cinarcik, on mole.	40° 38.9' N 29° 07.7' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	2	White concrete tower, green bands; 20.	
17240 N 4931	--Yalova (Samanli), W. mole, head.	40° 39.7' N 29° 14.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	30 9	8	Metal framework tower; 23.	<b>AIS</b> (MMSI No 992711060).
17244 N 4931.2	--E. mole, head.	40° 39.6' N 29° 14.8' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	8	Metal framework tower; 23.	<b>AIS</b> (MMSI No 992711061).
17248 N 4931.4	--Quay, head.	40° 39.6' N 29° 16.2' E	<b>F.R.</b>				
17249 N 4931.6	--E. Quay, head.	40° 39.7' N 29° 16.8' E	<b>F.R.</b>				
	--Izmit Korfezi:						
17252 N 4930.2	--Aksa, Dolphin.	40° 41.9' N 29° 24.6' E	<b>Fl.(3)G.</b> period 10s		3	Platform.	
17253 N 4930.11	--Cavusciftligi.	40° 41.7' N 29° 27.4' E	<b>Fl.Y.</b> period 5s	26 8	5		
17254.5 N 4924.66	--Osman Gazi Bridge, E. side.	40° 44.6' N 29° 30.8' E	<b>Iso.W.</b> period 4s	236 72	5	Red and white round panel. Tertiary structure: Red round panel.	Oc.G. 3s 5M and Oc.R. 3s 5M mark width of navigable span. Oc.Y. 3s 7M mark bridge span.
	--RACON		<b>B(- • • •)</b>				
	--W. side.		<b>Iso.W.</b> period 3s				Oc.G. 3s 5M and Oc.R. 3s 5M mark width of navigable span. Oc.Y. 3s 7M mark bridge span.
	--RACON		<b>T(-)</b>				(3 & 10cm).
17257 N 4926.1	--Dilovasi, jetty.	40° 45.8' N 29° 31.7' E	<b>Fl.R.</b> period 5s	72 22	3		
17258 N 4926.2	--Diliskelesi, jetty, head.	40° 45.9' N 29° 32.0' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	62 19	3	Concrete column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17258.1 N 4926.25	--Likidgaz Fueling Facility, E. pier.	40° 46.2' N 29° 33.0' E	<b>Fl.(3)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	43 13	3	Metal tower, red band; 36.	
17258.15 N 4926.26	--Tavancil, pier, head.	40° 46.0' N 29° 34.4' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	16 5	3	Yellow round metal tower; 10.	
17258.2 N 4926.23	---W. pier.	40° 46.1' N 29° 32.8' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	56 17	3	Round tower, yellow "X" daymark; 49.	
17258.3 N 4926.21	--Kaba Cape.	40° 46.0' N 29° 32.4' E	<b>Fl.G.</b> period 5s	33 10	3		
17259 N 4926.3	--Kirazliyali, pier, head.	40° 46.3' N 29° 43.1' E	<b>Fl.Y.</b> period 4s	30 9	5	Yellow round metal tower; 23.	
17259.5 N 4926.33	--Shipyard, jetty.	40° 46.1' N 29° 43.5' E	<b>Fl.W.</b> period 5s	26 8	3		
17261 N 4926.8	---Jetty, head.	40° 45.0' N 29° 45.3' E	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	5	Round tower, two white bands, yellow "X" daymark; 20.	
17262 N 4926.9	---S. jetty, dolphin.	40° 44.8' N 29° 45.4' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	33 10	5	Mast, "X" daymark; 23.	
17263 N 4927	--Kiler Burnu, oil terminal platform, W. dolphin.	40° 44.5' N 29° 45.3' E	<b>Mo.(U)R.</b> period 15s fl. 0.6s, ec. 0.3s fl. 0.6s, ec. 0.3s fl. 1.5s, ec. 11.7s	33 10	5	Mast; 23.	Synchronized with 17264. <b>Siren:</b> Mo.(U) ev. 30s (bl. 0.8s, si. 1s, bl. 0.8s, si. 1s, bl. 2.4s, si. 24s).
17264 N 4927.4	---E. dolphin.	40° 44.5' N 29° 45.6' E	<b>Mo.(U)R.</b> period 15s fl. 0.6s, ec. 0.3s fl. 0.6s, ec. 0.3s fl. 1.5s, ec. 11.7s	33 10	5	Mast; 23.	Synchronized with 17263.
17265 N 4927.7	---W. jetty.	40° 44.6' N 29° 45.9' E	<b>Fl.Y.</b> period 4s fl. 1s, ec. 3s	33 10	5	Mast, "X" daymark; 23.	Synchronized with 17265.1.
17265.1 N 4927.8	---E. jetty.	40° 44.5' N 29° 46.1' E	<b>Fl.Y.</b> period 4s fl. 1s, ec. 3s	33 10	5	Mast, "X" daymark; 23.	Synchronized with 17265.
17266 N 7640.5	--Platform.	40° 44.4' N 29° 46.6' E	<b>Fl.R.</b> period 4s	26 8	5	Platform.	
17272 N 4928	--Zeytun Burnu, extremity of point.	40° 44.5' N 29° 47.0' E	<b>Fl.(2)R.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	8	White metal tower; 26.	F.R. on water tower 1M N. <b>AIS</b> (MMSI No 992711057).
17274 N 7641	--Platform.	40° 44.3' N 29° 47.0' E	<b>Fl.W.</b> period 4s	26 8	5	Platform.	
17274.5 N 7642	--Platform.	40° 44.4' N 29° 47.4' E	<b>F.R.</b>		10	Platform.	
17274.51 N 4930.04	--Safi Derince, No 3 Quay, dolphin.	40° 44.8' N 29° 49.5' E	<b>Fl.Y.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	5	Round tower; 16.	
17274.52 N 4930.045	--Derince, ferry pier, head.	40° 44.9' N 29° 48.5' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	23 7	5	Yellow round metal tower.	
17274.6 N 4930	--Derince Burnu, W. head.	40° 44.8' N 29° 49.6' E	<b>Fl.(5)R.</b> period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 11s	33 10	4	Round tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17274.7 N 4930.05	--E. head.	40° 44.8' N 29° 49.9' E	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	33 10	7	Round tower, three white bands.	
17275 N 4930.1	--Hacibayram Burnu.	40° 45.0' N 29° 51.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8	5	White tower, red band.	
17278 N 4929.9	--Batak Burun, pier, head.	40° 43.9' N 29° 51.3' E	<b>Fl.(4)G.</b> period 10s	33 10	3	Round tower; 23.	
17278.1 N 4929.993	--Yacht harbor, pier, head.	40° 45.5' N 29° 55.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	23 7	5	White round metal tower, red band.	
17278.2 N 4929.992	--Izmit Vapur, ferry pier, head.	40° 45.6' N 29° 55.4' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	23 7	5	White round metal tower, green band.	
17279 N 4930.15	--Sirintepe, jetty, head.	40° 45.3' N 29° 51.9' E	<b>Fl.(3)Y.</b> period 8s	26 8	3		
17279.1 N 4929.8	--Kavakli, pier, head.	40° 43.4' N 29° 50.0' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	23 7	5	Yellow round metal tower.	
17280 N 4929	--Golcuk Burnu.	40° 43.8' N 29° 48.8' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	29 9	8	White concrete tower; 16.	F.R. lights shown on pier 700 meters W. <b>AIS</b> (MMSI No 992711059).
17280.2 N 4928.5	--Degirmendere, ferry pier, head.	40° 43.4' N 29° 47.1' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	23 7	5	Yellow round metal tower.	
17280.3 N 4928.3	--Halidere, pier, head.	40° 43.1' N 29° 45.2' E	<b>Fl.(2)Y.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	23 7	5	Yellow round metal tower.	
17280.4 N 4924.57	--Ulasli.	40° 42.4' N 29° 41.5' E	<b>Iso.Y.</b> period 3s	23 7	5	Yellow round metal tower.	
17280.5 N 4924.55	--Karamursel.	40° 41.7' N 29° 36.9' E	<b>Fl.Y.</b> period 3s fl. 1s, ec. 2s	23 7	5	Yellow round metal tower.	
17281 N 4924.1	--Eskinhisar, Fisherman's Refuge, main breakwater.	40° 46.1' N 29° 25.7' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	10	White round sheet-iron tower, two red bands; 20.	
17282 N 4923.3	--Darica.	40° 45.4' N 29° 22.3' E	<b>Fl.(4)Y.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	39 12	3	Yellow mast.	
17283 N 4922.5	--Tas Liman.	40° 45.4' N 29° 21.9' E	<b>Fl.(2)Y.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	3	Round tower, yellow "X" topmark; 20.	
17284 N 4922	--Yelkenkaya Burnu.	40° 45.4' N 29° 21.3' E	<b>Fl.W.</b> period 15s fl. 1.5s, ec. 13.5s	66 20	18	White concrete tower, building; 49.	<b>AIS</b> (MMSI No 992711056).
17285 N 4921	--Cayirova, pier.	40° 48.1' N 29° 20.6' E	<b>Fl.Y.</b> period 3s	26 8	3	SPECIAL Y, post, "X" topmark; 20.	
17286 N 4920	--Hayirsizada.	40° 47.3' N 29° 15.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	56 17	10	White metal framework tower, concrete base; 23.	<b>AIS</b> (MMSI No 992711052).
17287 N 4920.5	--Tuzla Korfezi, breakwater, head.	40° 48.7' N 29° 17.8' E	<b>Fl.R.</b> period 5s	39 12	5	Metal tower, black band; 30.	<b>AIS</b> (MMSI No 992711049).
17288 N 4919	--Inner harbor, N. breakwater, head.	40° 52.4' N 29° 06.2' E	<b>Fl.G.</b> period 5s	16 5	5	White metal framework tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17288.1 <i>N 4919.2</i>	--S. breakwater, head.	40° 48.5' N 29° 15.9' E	<b>Fl.R.</b> period 5s	16 5	5	White metal framework tower; 10.	
17289 <i>N 4918.8</i>	-Tuzla, Outer harbor, N. breakwater, head.	40° 49.1' N 29° 16.0' E	<b>Fl.G.</b> period 5s	16 5	5	White metal framework tower; 10.	<b>AIS</b> (MMSI No 992711350).
17289.1 <i>N 4918.9</i>	---S. breakwater, head.	40° 49.0' N 29° 16.1' E	<b>Fl.R.</b> period 5s	16 5	5	White metal framework tower; 10.	<b>AIS</b> (MMSI No 992711349).
17290 <i>N 4916.39</i>	-Aydinli Limani, breakwater, head.	40° 50.2' N 29° 15.9' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	20 6	9	White concrete tower; 13.	
17291 <i>N 4916.393</i>	--Inner breakwater, S. head.	40° 50.2' N 29° 15.9' E	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	20 6	5	White round metal tower; 13.	
17292.1 <i>N 4916.395</i>	---N. head.	40° 50.3' N 29° 16.0' E	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	20 6	5	White round metal tower; 13.	
17294 <i>N 4916.4</i>	-Aydinli Limani.	40° 51.6' N 29° 15.4' E	<b>Fl.(2)G.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	26 8	5	White concrete tower, green band; 20.	<b>AIS</b> (MMSI No 992711047).
17294.1 <i>N 4916.41</i>	--N. breakwater, head.	40° 51.3' N 29° 16.2' E	<b>Fl.(2)R.</b> period 5s	30 9	3		
17294.5 <i>N 4916.46</i>	-Kumcular Pier, head.	40° 51.2' N 29° 16.0' E	<b>Fl.(3)R.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	26 8	5	Round metal tower, red bands; 20.	
17295 <i>N 4916.3</i>	-Aydinbey Yarimadasi, S. head.	40° 51.0' N 29° 16.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	8	White metal framework tower; 19.	<b>AIS</b> (MMSI No 992711050).
17296 <i>N 4916.2</i>	-Pendik, breakwater, head.	40° 52.8' N 29° 06.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	36 11	8	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711051).
17297 <i>N 4916.1</i>	-Pendik Burnu, breakwater, head.	40° 52.1' N 29° 14.4' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	16 5	7	7.	
17300 <i>N 4916.6</i>	-Balikci Adasi.	40° 49.2' N 29° 06.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	102 31	9	White metal framework tower; 20.	
17300.5 <i>N 4916.9</i>	-Buyukada.	40° 52.5' N 29° 07.5' E	<b>Fl.(4)Y.</b> period 10s	23 7	3		
17300.6 <i>N 4916.85</i>	-Ferry Pier.	40° 52.6' N 29° 07.7' E	<b>Iso.Y.</b> period 3s	23 7	3		
17300.65 <i>N 4916.8</i>	-Bank, N. side.	40° 52.5' N 29° 07.9' E	<b>Fl.(3)Y.</b> period 8s	23 7	5		
17301 <i>N 4917.4</i>	-Heybeli, S. mole, head.	40° 52.4' N 29° 06.3' E	<b>Fl.R.</b> period 3s	20 6	3	Metal framework tower; 16.	
17301.5 <i>N 4917.2</i>	--N. mole, head.	40° 52.4' N 29° 06.3' E	<b>Fl.G.</b> period 3s	20 6	3	White round tower; 7.	
17302 <i>N 4917.5</i>	--Boat harbor, mole, head.	40° 52.9' N 29° 06.1' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	20 6	7	White metal framework tower; 10.	
17303 <i>N 4917.6</i>	-Burgaz Adasi.	40° 52.8' N 29° 04.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	13 4	3	White concrete tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17303.5 N 4917.8	--Pier, head.	40° 52.9' N 29° 04.2' E	<b>Fl.(4)Y.</b> period 15s	23 7	3		
17304 N 4915	-Dilek Kayaligi.	40° 54.9' N 29° 05.3' E	<b>Q.(6)+L.Fl.W.</b> period 15s	30 9	10	S. CARDINAL YB, beacon, topmark; 20.	Electric lights mark power cable between Chamasir Burnu, Prinkipo, and Halki.
	-RACON		<b>B(- • • •)</b>		20		<b>AIS</b> (MMSI No 992711390).
17316 N 4918	-Sivriada.	40° 52.5' N 28° 58.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	312 95	13	White column, building; 10.	
	-RACON		<b>O(- - -)</b>				
17317 N 4917.9	Kinaliada, ferry pier.	40° 54.6' N 29° 03.4' E	<b>Iso.Y.</b> period 2s	23 7	3		
17320 N 4914	-Yildiz Kayaligi.	40° 56.2' N 29° 05.2' E	<b>V.Q.(9)W.</b> period 10s	16 5	10	W. CARDINAL YBY, beacon, topmark; 13.	<b>AIS</b> (MMSI No 992711391).
17324 N 4913	-S. breakwater, head.	40° 57.0' N 29° 05.7' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	7	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711135).
17324.5 N 4912.5	-Bostanci, pier, head.	40° 57.1' N 29° 05.6' E	<b>Fl.G.</b> period 3s	23 7	3		
17328 N 4910	<b>-Fener Burnu.</b>	40° 58.1' N 29° 01.9' E	<b>Fl.(2)W.</b> period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	82 25	15	White concrete tower, dwelling; 65.	<b>AIS</b> (MMSI No 992711104).
17336 N 4912	Oreke tasi.	40° 58.0' N 29° 01.8' E	<b>Q.(2)W.</b> period 5s	16 5	3	White concrete tower; 13.	
17337 N 4909.4	Fenerbahce, W. breakwater, head.	40° 58.4' N 29° 02.1' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s		6		
17337.5 N 4909.6	-E. breakwater, head.	40° 58.4' N 29° 02.1' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s		6		
17338 N 4909	-Marina, W. breakwater, head.	40° 58.6' N 29° 02.1' E	<b>Fl.G.</b> period 10s fl. 1s, ec. 9s		3		
17339 N 4909.2	--E. breakwater, head.	40° 58.6' N 29° 02.2' E	<b>Fl.R.</b> period 10s fl. 1s, ec. 9s		3		
17339.1 N 4908	-Moda Burnunda, jetty, head.	40° 58.7' N 29° 01.4' E	<b>F.R.</b>				
BOSPORUS:							
17340 N 4903	<b>-Ahirkapi Burnu (Istanbul).</b>	41° 00.4' N 28° 59.1' E	<b>Fl.W.</b> period 6s fl. 0.5s, ec. 5.5s	118 36	16	Black and white tower, building; 95.	<b>Horn:</b> 1 bl. ev. 20s (bl. 4s, si. 16s).
17344 N 4906	-Haydarpasa, inner detached breakwater, NW. extremity.	40° 59.9' N 29° 00.8' E	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	3	White concrete tower; 11.	F.R. shown from NW. corner of passenger quay.
17348 N 4906.2	--SE. extremity.	40° 59.7' N 29° 01.1' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	49 15	8	White concrete tower; 39.	<b>Bell:</b> 1 stroke ev. 6s.
17352 N 4904	--Outer detached breakwater, NW. extremity.	41° 00.6' N 29° 00.1' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	49 15	8	White concrete tower; 26.	
	--RACON		<b>G(- - •)</b>				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17356 N 4904.2	---SE. extremity.	40° 59.8' N 29° 00.8' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	3	White concrete tower; 13.	
	---RACON		<b>C(- - - •)</b>				
17360 N 4904.6	Kadikoy, breakwater, head.	40° 59.6' N 29° 00.9' E	<b>Iso.W.</b> period 4s	46 14	13	White concrete tower; 36.	
17360.1 N 4904.7	--Pier, head.	40° 59.5' N 29° 01.0' E	<b>Fl.(4)Y.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	23 7	3	Yellow tower; 16.	
17361 N 4904.8	-SE. pier, head.	40° 59.5' N 29° 01.1' E	<b>Fl.(4)Y.</b> period 15s	23 7	3		
17361.1 N 4906.4	-Kadikoy, ferry pier.	40° 59.5' N 29° 01.3' E	<b>Iso.Y.</b> period 4s	23 7	3		
17361.2 N 4906.6	--Pier, head.	40° 59.6' N 29° 01.3' E	<b>Fl.(4)Y.</b> period 12s	23 7	3		
17362 N 4906.8	-Haydarpasa, jetty.	40° 59.8' N 29° 01.1' E	<b>Fl.(4)Y.</b> period 16s	23 7	3		
17364 N 4907	--Harem Vapur Iskele, S. breakwater, head.	41° 00.6' N 29° 00.4' E	<b>Fl.(2)G.</b> period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 7	6	White concrete tower; 10.	
17365 N 4907.1	---E. breakwater, head.	41° 00.7' N 29° 00.5' E	<b>Iso.Y.</b> period 3s	23 7	3		
17368 N 4907.2	---N. breakwater, head.	41° 00.8' N 29° 00.6' E	<b>Fl.(2)R.</b> period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 7	6	White concrete tower; 10.	
17369 N 4907.3	---Elbow.	41° 00.8' N 29° 00.6' E	<b>Fl.W.</b> period 5s	30 9	5	Metal tower.	
17371	-Pasalimani, wharf.	41° 01.7' N 29° 00.9' E	<b>Iso.Y.</b> period 2s	23 7	3		
17372 N 4903.8	-Leander Tower (Kizkulezi), strait, E. side.	41° 01.3' N 29° 00.2' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	W. 14 R. 11	White metal tower, red band, building; 30.	W. 000°-030°, R.-000°. Lights mark power cable between Kizkulezi and Saray Burnu. Navigation control station.
17376 N 4936.4	-Bridge center.	41° 02.8' N 29° 02.1' E	<b>Q.W.</b>	210 64			R. lights mark shore towers.
17380 N 4936.5	-Channel, NW. side.	41° 02.7' N 29° 01.9' E	<b>Q.Y.</b>	210 64			
17384 N 4936.55	--SE. side.	41° 02.6' N 29° 02.1' E	<b>Q.Y.</b>	210 64			
17388 N 4903.7	-Salipazari Rihtimi.	41° 01.7' N 28° 59.3' E	<b>Fl.(3)G.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	42 13	10	White metal tower, green bands; 33.	
17389 N 4903.75	-Kabatas.	41° 02.0' N 28° 59.6' E	<b>Fl.(4)Y.</b> period 12s	23 7	3		
17390	-SE. side.	41° 02.2' N 29° 01.8' E	<b>Iso.Y.</b> period 5s	23 7	3		
17392 N 4937	-Beylerbeyi.	41° 02.6' N 29° 02.5' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	9	White metal pylon; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17393	-SE. side.	41° 02.7' N 29° 02.7' E	<b>Iso.Y.</b> period 4s	23 7	3		
17396 N 4937.4	-Defterdar Burnu.	41° 03.0' N 29° 02.0' E	<b>Fl.(2)G.</b> period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9s	33 10	7	White metal framework tower; 39.	
17400 N 4938.3	-Cengelkoy.	41° 03.2' N 29° 03.1' E	<b>Fl.(3)R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	43 13	9	White metal tower, red bands; 33.	
17404 N 4938	-Kurucesme.	41° 03.4' N 29° 02.2' E	<b>Fl.(3)G.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 9s	23 7	10	White metal tower, green band; 16.	
17408 N 4940	-Arnavutkoy.	41° 04.1' N 29° 02.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	10	White metal tower, green band; 30.	
17412 N 4944	-Kandilli Burnu, strait, E. side.	41° 04.4' N 29° 03.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	89 27	12	White metal column; 33.	Navigation control station. 2 Fl.R. on radio mast 3.3 miles SE. <b>AIS</b> (MMSI No 992711024).
17414 N 4945	-Pier.	41° 04.5' N 29° 03.5' E	<b>Fl.(4)Y.</b> period 20s	23 7	3		
17416 N 4941	-Bebek, bank. N. extremity.	41° 04.6' N 29° 02.8' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	5	White concrete tower; 16.	Fl.R. 3s and Fl.G. 3s mark boat channel into Bebek.
17420 N 4946	-Rumelihisari, on wall of fortress, strait, W. side.	41° 05.0' N 29° 03.4' E	<b>Fl.(3)G.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	23 7	8	White round metal tower, green bands; 16.	Reserve light range 4M.
17421 N 4946.1	-Anadolu Hisari.	41° 05.0' N 29° 04.0' E	<b>Fl.(4)Y.</b> period 10s	23 7	3		
17422 N 4946.2	-Fatih Sultan Mehmet Bridge, center.	41° 05.5' N 29° 03.7' E	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s	222 68			Fl.R. lights mark shore towers.
17422.4 N 4946.4	--Channel, W. side.	41° 05.5' N 29° 03.5' E	<b>Oc.R.</b> period 6s lt. 5s, ec. 1s	220 67			
17422.6 N 4946.6	---E. side.	41° 05.5' N 29° 03.8' E	<b>Oc.Y.</b> period 6s lt. 5s, ec. 1s	220 67			
17424 N 4947	-Balta Limani.	41° 06.0' N 29° 03.2' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	39 12	5	White metal tower, green band; 33.	
17426 N 4947.8	-Kanlica.	41° 06.0' N 29° 03.9' E	<b>Fl.(4)Y.</b> period 12s	23 7	3		
17428 N 4948	-Kanlica Burnu, strait, E. side.	41° 06.1' N 29° 04.0' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	8	White metal framework tower; 36.	Reserve light range 6M.
17429.1 N 4949.2	-S. pier.	41° 06.5' N 29° 04.8' E	<b>Fl.(4)Y.</b> period 12s	23 7	3		
17429.2 N 4949.3	-Cubuklu, pier.	41° 06.5' N 29° 04.9' E	<b>Iso.Y.</b> period 5s	23 7	5	Yellow tower; 16.	
17432 N 4949.4	-Pasabahce, near factory.	41° 06.9' N 29° 05.4' E	<b>Fl.(3)R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 14	9	White round metal tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17436 N 4949	-Istinye.	41° 06.8' N 29° 03.7' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	9	White metal tower, green bands; 33.	
17438 N 4949.6	-Yenikoy.	41° 07.4' N 29° 04.4' E	<b>Q.(3)W.</b> period 10s	20 6	6	E. CARDINAL BYB, column, topmark; 20.	
17444 N 4949.5	-Incirkoy.	41° 07.6' N 29° 05.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	52 16	8	Metal framework tower; 39.	
17444.1	-Beykoz, breakwater, head.	41° 07.8' N 29° 05.6' E	<b>Fl.(3)R.</b> period 10s		5		
17445 N 4949.55	-Beykoz.	41° 08.1' N 29° 05.4' E	<b>Fl.(4)Y.</b> period 12s	23 7	3		
17452 N 4950	-Kirec Burnu.	41° 08.9' N 29° 02.8' E	<b>Fl.(3)G.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	36 11	11	White metal tower, green bands; 30.	
17456 N 4949.7	-Selvi Burnu, breakwater, head.	41° 08.6' N 29° 04.3' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	43 13	8	White metal tower; 33.	
17457 N 4949.9	-Umur Banklari, S end.	41° 08.7' N 29° 04.1' E	<b>Q.(6)+L.Fl.W.</b> period 15s			S. CARDINAL YB, beacon, topmark.	<b>AIS</b> (MMSI No 992711021).
17460 N 4949.8	--Jetty extension.	41° 08.9' N 28° 04.4' E	<b>F.G.</b>	23 7		White concrete tower, concrete base.	
17467 N 4950.5	-Buyukdere Harbor.	41° 09.5' N 29° 02.3' E	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	5	White metal framework tower; 26.	
17468 N 4952	-Buyukdere.	41° 09.8' N 29° 02.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	9	White metal tower, green band; 30.	
17472 N 4953.2	-Overhead cable, E. head.	41° 10.0' N 29° 05.2' E	<b>2 Fl.R.</b> period 2s	817 249	11	Red and white framework pylon; 407.	
			<b>F.R.</b>				
17476 N 4953	--W. head.	41° 10.6' N 29° 04.2' E	<b>2 Fl.R.</b> period 2s	797 243	11	Red and white framework pylon; 407.	
			<b>F.R.</b>				
17480 N 4954	-Kavak Burnu, in fort.	41° 10.7' N 29° 05.2' E	<b>Fl.(3)R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	52 16	8	White concrete tower; 16.	
17484 N 4955	-Dikili Tas.	41° 10.9' N 29° 04.7' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 9	12	White metal tower, green band, concrete base; 26.	
	-RACON		<b>B(-•••)</b>				(3 & 10cm).
17488 N 4955.4	-Cali Burnu.	41° 12.4' N 29° 06.3' E	<b>Fl.(3)G.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	108 33	5	White metal framework tower; 20.	
17490 N 4955.3	-Poyraz Burnu, W. breakwater, head.	41° 12.3' N 29° 07.5' E	<b>Fl.R.</b> period 4s	52 16	5		
17496 N 4956	-Rumeli Burnu.	41° 14.1' N 29° 06.7' E	<b>Fl.(2)W.</b> period 12s fl. 1s, ec. 3s fl. 1s, ec. 7s	190 58	18	White concrete tower, building; 98.	<b>Horn:</b> 1 bl. ev. 20s (bl. 4s, si. 16s).



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY</b>							
17500 N 4956.2	--E. breakwater, head.	41° 13.7' N 29° 06.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	7	White concrete tower; 23.	<b>AIS</b> (MMSI No 992711393).
17504 N 4956.4	--W. breakwater, head.	41° 13.8' N 29° 06.8' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711389).
17508 N 4958	<b>-Anadolu.</b>	41° 13.0' N 29° 09.1' E	<b>L.Fl.W.</b> period 20s fl. 2s, ec. 18s	246 75	20	White concrete tower, dwelling; 66.	
	-RACON		<b>C(- • - •)</b>				(3 & 10cm).
17512 N 4960	-Yom Burnu FOG SIGNAL.	41° 13.3' N 29° 10.2' E					<b>Siren:</b> 2 bl. ev. 20s.
17516 N 4962	Dalyan Burnu, at extremity.	41° 15.3' N 29° 02.4' E	<b>Fl.(2)W.R.</b> period 4.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	82 25	W. 10 R. 7	White metal framework tower; 20.	W. 105°-162°, R.-175°, W.- 346°, R.-105°. <b>AIS</b> (MMSI No 992711036).
<b>TURKEY-BLACK SEA</b>							
17520 N 4964	<b>Karaburnu.</b>	41° 20.9' N 28° 40.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	177 54	15	White metal framework tower; 39.	<b>AIS</b> (MMSI No 992711077).
17524 N 4965	Kiyikoy.	41° 38.0' N 28° 06.0' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	121 37	12	White metal tower, black band; 49.	<b>AIS</b> (MMSI No 992711076).
17525 N 4965.1	-Main breakwater, head.	41° 37.9' N 28° 06.1' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower, green band, metal framework pylon; 16.	<b>AIS</b> (MMSI No 992711074).
17525.5 N 4965.2	-Secondary breakwater, head.	41° 37.9' N 28° 06.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower, red band; 13.	<b>AIS</b> (MMSI No 992711075).
17528 N 4966	<b>Igneada Burnu.</b>	41° 53.2' N 28° 03.4' E	<b>Fl.(2)W.</b> period 15s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 9.7s	144 44	20	White concrete tower, dwelling; 26.	<b>AIS</b> (MMSI No 992711070).
17532 N 4966.4	-E. breakwater, head.	41° 53.2' N 28° 01.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White concrete tower, green band; 26.	<b>AIS</b> (MMSI No 992711071).
17536 N 4966.6	-W. breakwater, head.	41° 53.2' N 28° 01.2' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	5	White concrete tower, red band; 26.	<b>AIS</b> (MMSI No 992711072).
<b>BULGARIA</b>							
17540 N 4968	Akhtopol.	42° 05.9' N 27° 56.9' E	<b>Q.(6)+L.Fl.W.</b> period 15s	49 15	5	Black concrete tower, framework structure, yellow top; 36.	
17544 N 4969	Michurin (Tzarevo), on rock.	42° 09.5' N 27° 52.3' E	<b>Fl.W.</b> period 3.5s		4		
17548 N 4971	-Breakwater, head.	42° 10.0' N 27° 52.0' E	<b>Iso.G.</b> period 4s	39 12	2	White round stone tower, trapezoidal base; 30.	
17552 N 4972	Primorsko, pier, head.	42° 16.0' N 27° 45.5' E	<b>Iso.W.</b> period 6s	26 8	6	White round tower, pedestal; 20.	
17556 N 4974	<b>Maslen Nos.</b>	42° 18.5' N 27° 47.3' E	<b>Fl.(3)W.</b> period 17.2s fl. 0.4s, ec. 4s fl. 0.4s, ec. 4s fl. 0.4s, ec. 8s	123 37	20	White stone tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>BULGARIA</b>							
BURGASKI ZALIV:							
17564 N 4976	-Sveti Ivan.	42° 26.3' N 27° 41.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	144 44	20	White round concrete tower, building; 43.	
17572 N 4980	-Ostrov Bolshevik.	42° 28.1' N 27° 33.2' E	<b>L.Fl.W.R.</b> period 8s fl. 2s, ec. 6s	71 22	W. 20 R. 20	White round concrete tower; 39.	R. 272°-312°, W.-272°.
17577 N 4981.3	-Rossentz, pier, head.	42° 27.3' N 27° 32.0' E	<b>L.Fl.R.</b> period 20s fl. 4s, ec. 16s	23 7	5	White concrete platform; 16.	
-Burgas:							
17580 N 4984	--E. breakwater, head.	42° 28.9' N 27° 29.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	79 24	14	White round concrete tower, red bands; 46.	Visible 253°-153°. <b>Horn:</b> Mo.(B) ev. 30s (bl. 5s, si. 3s, bl. 1.5s, si. 3s, bl. 1.5s, si. 3s, bl. 1.5s, si. 11.5s).
17581 N 4983	--Terminal 2A.	42° 28.7' N 27° 28.0' E	<b>Fl.W.</b> period 11s fl. 0.5s, ec. 10.5s	30 9	4		
17582 N 4983.5	--Breakwater, head.	42° 28.4' N 27° 28.6' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	36 11	11		
17583 N 4983.8	---Spur.	42° 28.9' N 27° 28.8' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	4		
17584 N 4986	--Arm extending W. from E. breakwater.	42° 29.0' N 27° 28.9' E	<b>Iso.G.</b> period 4s	33 10	2	White round metal tower; 20.	Visible 333°-213°.
17588 N 4988	--W. breakwater, E. head.	42° 29.0' N 27° 28.8' E	<b>Iso.R.</b> period 4s	33 10	2	White round metal tower; 20.	
17589 N 4988.5	--Pobeda, pier, head.	42° 28.7' N 27° 27.0' E	<b>L.Fl.W.</b> period 4.5s fl. 2.5s, ec. 2s	30 9	4	Red beacon, yellow band; 20.	
17604 N 4990	Pomorie, SE. reef.	42° 33.1' N 27° 39.7' E	<b>Q.(3)W.</b> period 10s	39 12	10	Black round stone tower, yellow band, pedestal; 26.	
17608 N 4994	Nesebur.	42° 39.1' N 27° 43.7' E	<b>Fl.R.G.</b> period 8s	33 10	R. 7 G. 5	Metal framework tower; 20.	R. 240°-285°, G.-240°.
17612 N 4996	Nos Emine.	42° 42.0' N 27° 54.0' E	<b>Fl.W.</b> period 6s fl. 1.5s, ec. 4.5s	210 64	20	White round tower, dwelling; 30.	
VARNENSKI ZALIV:							
17624 N 5000	-Nos Galata.	43° 10.3' N 27° 56.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 10s	249 76	26	White octagonal tower, beige stripes, dwelling; 72.	<b>Nautophone:</b> Mo.(W) ev. 30s (bl. 2s, si. 1s, bl. 4s, si. 1s, bl. 4s, si. 18s).
17628 N 5004	-Port Varna.	43° 11.2' N 27° 55.3' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	56 17	10	White round metal tower; 39.	
17630 N 5005.5	--Outer breakwater, head.	43° 11.3' N 27° 54.9' E	<b>Mo.(M)Y.</b> period 5s	20 6	2	Red metal column; 13.	
17632 N 5006	--S. breakwater, head.	43° 11.5' N 27° 55.1' E	<b>Iso.R.</b> period 4s	33 10	2	White round metal tower; 20.	
17633 N 5005	--E. breakwater, head.	43° 11.5' N 27° 55.2' E	<b>Iso.G.</b> period 4s	33 10	2	White round metal tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>BULGARIA</b>							
17640 N 5008.5	-Yevksinogradskiy, mole, head.	43° 13.0' N 27° 59.2' E	<b>F.R.</b>	62 19	6	White round stone tower; 52.	
17642 N 5008.6	Nos Kavaklar.	43° 14.6' N 28° 01.4' E	<b>Fl.W.</b>	49 15	2	White metal column, platform; 43.	Shown May 15 to Oct. 10.
17648 N 5010	Bukhta Balchik, breakwater, head.	43° 24.1' N 28° 09.9' E	<b>L.F.I.R.</b> period 6.5s fl. 2.5s, ec. 4s	33 10	8	Red metal column, platform; 26.	
17652 N 5011	-Pier, root.	43° 25.0' N 28° 21.3' E	<b>Fl.W.</b> period 5s fl. 1.5s, ec. 3.5s	39 12	5	White metal column, black band, platform; 30.	
17656 N 5012	<b>Nos Kaliakra.</b>	43° 22.2' N 28° 27.7' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	223 68	21	White stone tower, dwelling; 33.	
17660 N 5016	<b>Nos Shabla.</b>	43° 32.5' N 28° 36.5' E	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 1s, ec. 15s	118 36	17	White octagonal stone tower, red bands, pedestal; 105.	
<b>ROMANIA</b>							
17664 N 5018	<b>Mangalia</b> , about 4 km. 282° from breakwater light.	43° 48.7' N 28° 33.6' E	<b>Fl.(2)W.</b> period 5.5s fl. 0.1s, ec. 1.3s fl. 0.1s, ec. 4s	236 72	22	Four-sided stone tower; 138.	
17668 N 5019	-NE. breakwater.	43° 48.0' N 28° 36.1' E	<b>Fl.W.</b> period 4s fl. 1.5s, ec. 2.5s	75 23	10	Metal framework tower; 69.	<b>Horn:</b> Mo.(U) ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
17672 N 5019.5	--Spur.	43° 48.1' N 28° 35.8' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	49 15	5	Gray stone building; 42.	
17684 N 5020	-SE. breakwater, head.	43° 48.0' N 28° 46.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	49 15	5	Gray stone building; 42.	
17688 N 5022	<b>Capul Tuzla.</b>	43° 59.4' N 28° 40.0' E	<b>Fl.(2)W.</b> period 9.7s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7s	203 62	20	White round metal tower, black bands; 144.	Visible 191°-014°. <b>Horn:</b> Mo.(U) 1 bl. ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
			<b>F.R.</b>	187 57	6		Visible 162°-192°.
CONSTANTA:							
17690 N 5027.2	-Constanta Sud.	44° 06.5' N 28° 39.9' E	<b>Fl.R.</b> period 3.5s	16 5		Red rectangular daymark; 7.	<b>Radar reflector.</b>
17692 N 5025	<b>-Constanta.</b>	44° 09.5' N 28° 37.8' E	<b>Fl.(2)W.</b> period 29.8s fl. 0.4s, ec. 6.6s fl. 0.4s, ec. 22.4s	285 87	24	White pyramidal concrete tower; 190.	
17700 N 5026	-Outer Harbor, E. breakwater, head.	44° 08.6' N 28° 40.4' E	<b>Fl.W.</b> period 4.5s fl. 1.5s, ec. 3s	79 24	10	Gray granite tower; 59.	<b>Horn:</b> Mo.(U) ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
17704 N 5026.2	--E. breakwater, traverse arm.	44° 08.9' N 28° 40.3' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	46 14	5	Gray stone tower; 32.	
17708 N 5026.4	--S. breakwater, head.	44° 08.8' N 28° 40.1' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	46 14	5	Gray stone tower; 32.	
17720 N 5028.2	-Tomas Portul, E.	44° 10.7' N 28° 39.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	16 5	1	Red metal mast; 26.	<b>Radar reflector.</b>

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ROMANIA</b>							
17728 N 5028	-Marina, NE. side.	44° 10.7' N 28° 39.8' E	<b>Fl.G.</b> period 3.5s fl. 0.5s, ec. 3s	16 5	3	Green metal mast; 26.	<b>Radar reflector.</b>
17732 N 5030	<b>Cape Midia.</b>	44° 20.9' N 28° 40.9' E	<b>Fl.W.</b> period 5s fl. 1.5s, ec. 3.5s	118 36	17	White metal framework tower, red bands; 72.	
17733 N 5030.2	-Entrance.	44° 19.3' N 28° 41.7' E	<b>Fl.W.</b> period 5s fl. 1.5s, ec. 3.5s	82 25	10	White concrete tower; 59.	<b>Horn:</b> Mo.(U) ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
17736 N 5031	Gura Portita, fairway, S. side.	44° 40.6' N 28° 59.3' E	<b>Fl.W.</b> period 9s fl. 1s, ec. 8s	72 22	10	White metal framework tower, black bands; 75.	
DANUBE RIVER ENTRANCES:							
17740 N 5032	<b>-Gura Sfintu Gheorghe.</b>	44° 53.9' N 29° 36.1' E	<b>Fl.(2)W.</b> period 7.2s fl. 0.1s, ec. 1.7s fl. 0.1s, ec. 5.3s	157 48	19	Three-sided tower; 164.	
17744 N 5034	<b>-Sulina.</b>	45° 08.9' N 29° 45.6' E	<b>Fl.(3)W.</b> period 16.2s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 12s	161 49	19	Round concrete tower; 157.	Visible 165°-045°. <b>Horn:</b> Mo.(U) 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s). <b>Radar reflector.</b>
	-RACON				5		(3 & 10cm).
17745 N 5034.2	--S. breakwater, head.	45° 08.8' N 29° 45.9' E	<b>Fl.R.</b> period 5.5s fl. 0.7s, ec. 4.8s	30 9	7	Metal tower; 13.	
17745.5 N 5034.4	--N. breakwater, head.	45° 08.9' N 29° 45.9' E	<b>Fl.G.</b> period 5.5s fl. 0.7s, ec. 4.8s	30 9	7	Metal tower; 13.	
<b>UKRAINE</b>							
17772 N 5036	<b>Ostrov Zmeinyy.</b>	45° 15.3' N 30° 12.1' E	<b>Fl.W.</b> period 4.5s fl. 1.5s, ec. 3s	194 59	17	White hexagonal tower; 59. Floodlit.	Reserve light range 15M.
17772.3 N 5036.3	-Breakwater.	45° 19.7' N 29° 47.5' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	20 6	8	Green column, white band; 17.	
17790 N 5038	-Bystroye Girlo Range, front.	45° 20.5' N 29° 45.9' E	<b>Iso.R.</b> period 4s		8	Metal framework tower, black rectangular daymark; 39.	Visible 180°-350°.
17790.1 N 5038.01	--Rear, 216 meters 308° from front.	45° 20.5' N 29° 45.7' E	<b>Oc.W.</b> period 5s lt. 3s, ec. 2s		9	Metal framework tower, black stripe, white rectangular daymark; 49.	Visible on range line only.
17808 N 5053	Primorskoye.	45° 31.8' N 29° 38.9' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	59 18	12	Black metal framework tower; 49.	<b>Radar reflector.</b>
17820 N 5053.6	Ozero Shagany.	45° 40.4' N 29° 53.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	65 20	14	Red concrete tower, black trapezoidal daymarks; 52.	Reserve light range 7M.
17824 N 5054	Burnas.	45° 49.8' N 30° 09.3' E	<b>Iso.R.</b> period 2s	82 25	8	White stone structure, orange building; 43.	
17828 N 5056	<b>Budaki.</b>	45° 55.2' N 30° 17.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	125 38	17	Red four-sided metal tower, black square daymark, white stripe; 49.	Reserve light range 7M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
DNESTROVSKIY LIMAN:							
17844 N 5060.1	-Tsaregradskoye Girlo.	46° 04.5' N 30° 28.2' E	<b>L.FI.W.</b> period 7.5s fl. 3s, ec. 4.5s	112 34	16	Red metal framework tower, red rectangular daymark, white stripe, two white bands; 105.	Reserve light range 10M.
17848 N 5068	<b>Sanzheyskiy.</b>	46° 13.5' N 30° 36.6' E	<b>Fl.(2)G.</b> period 15s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 11s	135 41	17	White octagonal stone tower; 62. Floodlit.	Visible 215°-035°. Reserve light range 10M.
ODESSKIY ZALIV TRAFFIC SEPARATION SCHEME:							
17852	-Buoy 1.	46° 08.0' N 31° 06.0' E	<b>Q.(3)W.</b> period 10s			E. CARDINAL BYB, pillar, topmark.	<b>Radar reflector.</b>
	-RACON		<b>R(• - •)</b> period 30s		15		
IL'ICHEVSKIY:							
17860 N 5071	-S. mole, head.	46° 18.9' N 30° 40.8' E	<b>Oc.(2)R.</b> period 12s lt. 4.5s, ec. 4.5s lt. 1.5s, ec. 1.5s	66 20	15	White round concrete tower, red bands; 62.	Reserve light range 7M.
17864 N 5071.4	-N. mole, head.	46° 19.1' N 30° 41.0' E	<b>FI.G.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	4	Green round metal column, white band; 33.	
17868 N 5072	-Aleksandrouka, entrance Range, front.	46° 19.5' N 30° 39.0' E	<b>FG.</b> (neon)	151 46	10	Black four-sided metal framework tower, white rectangular daymark, black stripe; 92.	Visible on range line only.
17872 N 5072.1	--Rear, about 0.7 km. 288°30' from front.	46° 19.6' N 30° 38.5' E	<b>FR.</b> (neon)	236 72	11	Black four-sided metal framework tower, white rectangular daymark, white lantern, black stripe; 95.	Visible on range line only.
IL'ICHEVSK:							
17876 N 5073	-Severnny Portovyy, inner N. mole, head.	46° 19.2' N 30° 40.6' E	<b>L.FI.G.</b> period 6s fl. 2s, ec. 4s	33 10	4	White round metal column, black bands; 26.	
17878 N 5072.6	--S. inner mole.	46° 19.1' N 30° 40.5' E	<b>L.FI.R.</b> period 6s fl. 2s, ec. 4s	33 10	4	White round metal column, red bands; 26.	
17884 N 5075	-W. entrance, W. side.	46° 19.9' N 30° 39.3' E	<b>L.FI.R.</b> period 6s fl. 2s, ec. 4s	20 6	4	Red metal column, white band; 26.	
17885 N 5072.3	--E. side.	46° 19.4' N 30° 40.1' E	<b>L.FI.G.</b> period 6s fl. 2s, ec. 4s	26 8	2	Black metal column, white band; 20.	
17886 N 5076.3	-Ostrova Dambovy, E. entrance, W. side.	46° 20.0' N 30° 39.5' E	<b>L.FI.R.</b> period 6s fl. 2s, ec. 4s	39 12	4	White round metal column, red bands; 26.	
17888 N 5076.4	--E. side.	46° 20.0' N 30° 39.7' E	<b>L.FI.G.</b> period 6s fl. 2s, ec. 4s	39 12	4	White round metal column, black bands; 26.	
17889 N 5076.35	--W. entrance, E. side.	46° 19.9' N 30° 39.5' E	<b>L.FI.G.</b> period 6s	30 9	2	White round metal column, black bands; 20.	
17892 N 5076	-Sukhoi Liman Range, front.	46° 20.8' N 30° 39.3' E	<b>FG.</b>	131 40	2	Metal framework tower, white trapezoidal daymark, black stripe; 52.	Visible 340°42'-350°42'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
17896 N 5076.1	--Rear, 247 meters 345°42' from front.	46° 20.9' N 30° 39.2' E	<b>F.W.</b>	167 51	3	Metal framework tower, white rectangular daymark, black stripe; 92.	Visible 340°42'-350°42'.
17898 N 5076.8	-Berth No 23.	46° 20.3' N 30° 39.0' E	<b>L.F.I.R.</b> period 6s fl. 2s, ec. 4s	23 7	4	Red round metal column, white bands; 16.	
17899 N 5077.5	-Ferry Pier.	46° 20.6' N 30° 39.1' E	<b>FI.G.</b> period 2s fl. 0.5s, ec. 1.5s	36 11	2	Black round metal column, white bands; 20.	
17899.1 N 5077.3	-RoRo berth.	46° 20.6' N 30° 39.3' E	<b>L.F.I.G.</b> period 6s fl. 2s, ec. 4s	26 8	4	White round metal column, black bands; 16.	
17899.5 N 5077.55	-Beacon.	46° 20.8' N 30° 38.8' E	<b>L.F.I.G.</b> period 6s	26 8	2	White round metal tower, concrete base; 16.	
17904 N 5078	<b>Odesskiy Zaliv.</b>	46° 22.7' N 30° 44.8' E	<b>FI.(3)W.</b> period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	275 84	22	White metal four-sided framework tower, red bands; 138.	Visible 197°-047°. Reserve light Fl.W. 5s 9M. <b>Nauphone:</b> (370 meters SE.) 3 bl. ev. 30s. (bl. 2s, si. 4s, bl. 6s, si. 4s, bl. 2s, si. 12s). <b>Reserve Bell:</b> 2 strokes ev. 120s.
ODESSA:							
17912 N 5082	<b>-Reydovyy</b> , approach Range, front.	46° 29.8' N 30° 45.6' E	<b>FI.(3)R.</b> period 12s fl. 0.3s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.3s, ec. 6.8s	88 27	15	White round metal tower; 85.	Reserve light range 12M. <b>Nauphone:</b> 5 bl. ev. 60s (bl. 2s, si. 4s, bl. 7s, si. 4s, bl. 6s, si. 2s, bl. 4s, si. 8s, bl. 8s, si. 15s). <b>Reserve Bell:</b> 2 strokes ev. 120s.
17916 N 5084	<b>--Odesskiy Stvorny</b> , rear, 1.93 km. 250°24' from front.	46° 29.4' N 30° 44.0' E	<b>F.R.</b>	180 55	18	White four-sided wooden hut, building; 66.	F.W. 8M by day. Reserve light range 15M.
17920 N 5086	-Detached breakwater, E. head.	46° 29.7' N 30° 45.4' E	<b>FI.G.</b> period 3s fl. 1s, ec. 2s	36 11	3	White metal framework tower; 30.	
17924 N 5088	--W. head.	46° 29.9' N 30° 44.5' E	<b>FI.R.</b> period 3s fl. 1s, ec. 2s	36 11	3	White metal framework tower; 30.	
17928 N 5090	-Dredged channel Range, front.	46° 30.0' N 30° 44.3' E	<b>FI.G.</b> period 3s	33 10	2	Metal framework tower, red diamond and red rectangular daymarks; 33.	Visible on range line only.
17932 N 5090.1	--Rear, 695 meters 274°36' from front.	46° 30.0' N 30° 43.8' E	<b>F.G.</b> (neon)	82 25	3	Red pentagonal daymark; 72.	Visible on range line only.
17936 N 5103	-Neftyanaya Gavan', entrance Range, front.	46° 30.8' N 30° 43.8' E	<b>F.G.</b> (neon)	72 22	3	Metal framework tower, red rectangular daymark; 72.	Visible on range line only.
17940 N 5103.1	--Rear, 200 meters 327°36' from front.	46° 30.9' N 30° 43.8' E	<b>F.R.</b> (neon)	95 29	3	Metal framework tower, red rectangular daymark; 85.	Visible on range line only.
17944 N 5102	--Auxiliary Range, front.	46° 29.9' N 30° 44.7' E	<b>FI.G.</b> period 1.5s fl. 0.5s, ec. 1s	33 10	3	Concrete post, red pentagonal daymark; 33.	Visible on range line only.
17948 N 5102.1	---Rear, about 2.2 km. 147°36' from front.	46° 28.8' N 30° 45.7' E	<b>F.R.</b> (neon)	131 40	4	Three-sided column, red pentagonal daymark; 49.	Visible on range line only.
17952 N 5091	-W. breakwater, S. head.	46° 29.9' N 30° 44.4' E	<b>L.F.I.G.</b> period 6s fl. 2s, ec. 4s	39 12	2	White round concrete column; 33.	
17956 N 5092	--N. head.	46° 30.3' N 30° 44.1' E	<b>L.F.I.R.</b> period 6s fl. 2s, ec. 4s	39 12	3	White round concrete column; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
17958 <i>N 5089</i>	-Potapovskiy, mole, head.	46° 29.8' N 30° 44.4' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	2	Green metal column; 16.	
17959.1 <i>N 5081.8</i>	-Mooring post.	46° 29.6' N 30° 45.7' E	<b>Iso.W.</b> period 2s fl. 1s, ec. 1s	23 7	1	Black metal column, white band; 16.	
17959.2 <i>N 5081.7</i>	-Berth 1K, N. edge.	46° 29.5' N 30° 45.8' E	<b>L.Fl.R.</b> period 6s fl. 2s, ec. 4s	23 7	1	Red metal column, white band; 16.	
17959.21 <i>N 5081.6</i>	-Berth 2K, S. edge.	46° 29.2' N 30° 45.9' E	<b>L.Fl.G.</b> period 6s fl. 2s, ec. 4s	23 7	1	Green metal column, white band; 16.	
17960 <i>N 5088</i>	--W. head.	46° 29.8' N 30° 44.4' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	36 11	3	White metal framework tower; 30.	
17964 <i>N 5100</i>	-Mole T-head, SE. head.	46° 30.6' N 30° 44.2' E	<b>Fl.Bu.</b> period 3s fl. 1s, ec. 2s	33 10	1	Silver round metal column; 26.	
17984 <i>N 5106</i>	<b>Mys Severnyy Odesskiy.</b>	46° 33.1' N 30° 49.6' E	<b>Fl.W.</b> period 5s fl. 1.5s, ec. 3.5s	184 56	16	White round concrete tower, orange column; 33.	Reserve light range 8M.
17988 <i>N 5107</i>	<b>Grigoryevskiy.</b>	46° 36.0' N 31° 00.0' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	197 60	18	White round concrete tower, black square daymark, black triangular daymark point down; 49.	Visible 272°-060°. Reserve light range 8M.
PORT YUZHNYI:							
17988.5 <i>N 5107.3</i>	-Range, front.	46° 38.7' N 31° 01.8' E	<b>F.G.</b>	154 47	7	Metal framework tower, white rectangular daymark, orange stripe; 56.	Visible on leading line only. AIS (MMSI No 992721200).
17988.6 <i>N 5107.31</i>	--Rear, 0.6 mile 013° from front.	46° 39.3' N 31° 02.0' E	<b>Dir.Q.R.G.</b> period 1s	269 82	7	Metal framework tower, white rectangular daymark, orange stripe; 138.	Q.G. 012°06'-012°48', F.G.-013°12', Q.R.-013°54'.
			<b>F.G.</b>				Strip light.
17992 <i>N 5108</i>	<b>Sychavskiy.</b>	46° 37.0' N 31° 07.2' E	<b>Fl.W.</b> period 4s fl. 1.5s, ec. 2.5s	144 44	15	Gray metal framework tower, white building; 33.	Reserve light range 8M.
18000 <i>N 5110</i>	Mys Karabush.	46° 36.9' N 31° 15.5' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	180 55	14	White round concrete tower, black column; 52.	Reserve light range 5M.
18008 <i>N 5116</i>	Ostrov Berezan'.	46° 35.9' N 31° 24.7' E	<b>Fl.G.</b> period 3.5s fl. 0.5s, ec. 3s	92 28	4	Black four-sided framework tower; 23.	
DNEPROVSKIY LIMAN:							
18016 <i>N 5118</i>	-Berezan'-Ochakov Range, front.	46° 36.5' N 31° 32.4' E	<b>Iso.R.</b> period 3s	126 38	14	White round masonry tower, black stripe, round daymark; 63.	Visible on range line only. Visible 339°-159°. Reserve light Iso.W. 3s 3M. Wind generator.
18020 <i>N 5118.1</i>	--Rear, 820 meters 068°54' from front.	46° 36.7' N 31° 33.0' E	<b>Oc.R.</b> period 6s lt. 4.5s, ec. 1.5s	161 49	14	White round stone tower, black stripe; 66.	Visible 339°-159°. Reserve light Oc.W. 6s 4M. Wind generator. Storm signal.
18024 <i>N 5126</i>	-Viktorovka Range, front.	46° 37.6' N 31° 26.9' E	<b>F.R.</b>	62 19	12	White round concrete tower, orange rectangular daymark; 56.	Visible on range line only. Shown on request by day or in poor visibility.
18028 <i>N 5126.1</i>	--Rear, 4.6 km. 314°42' from front.	46° 39.3' N 31° 24.4' E	<b>F.W.</b>	135 41	18	White metal four-sided framework tower, orange rectangular daymark, white hut; 52.	Visible 255°-015°. Shown on request by day or in poor visibility.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
18044 N 5128	-Fort Nicolaev Range, front.	46° 34.4' N 31° 33.5' E	<b>F.R.</b>	45 14	5	White round tower; 40.	Visible 060°-140°. Shown by day in poor visibility.
18048 N 5128.1	--Rear, 73 meters 092°36' from front.	46° 34.5' N 31° 33.5' E	<b>F.W.R.G.</b>	79 24	5	Black metal framework tower, concrete base, black rectangular daymark, white stripe; 85.	G. 060°-140°, R. 171°- 187°, W. 190°-262°. Shown by day in poor visibility.
18056 N 5136.1	-Fifth Reach, W.	46° 35.4' N 31° 32.8' E	<b>Iso.W.</b> period 3s	92 28	3	Gray metal framework tower, concrete base, red rectangular daymark, black stripe; 92.	Intensified on bearing 268°18'.
18058 N 5124	-Kinburnskaya Kosa.	46° 34.5' N 31° 30.8' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	29 9	7	Black three-sided framework tower, black rectangular daymark; 26.	<b>Radar reflector.</b>
18060 N 5137	-Vostochnyy Range, front.	46° 35.7' N 31° 49.2' E	<b>Q.W.</b>	36 11	10	Gray metal framework tower, concrete base, orange rectangular daymark, black stripe; 52.	Reserve light range 3M.
18064 N 5137.1	--Rear, 3.5 km. 088°18' from front.	46° 35.8' N 31° 52.0' E	<b>Iso.W.</b> period 3s	88 27	10	Gray metal framework tower, concrete base, orange rectangular daymark, black stripe; 92.	Reserve light range 3M.
18068 N 5130	-Adzhigol'skiy Range, front.	46° 36.0' N 31° 38.7' E	<b>Q.R.</b>	36 11	3	Gray four-sided concrete tower, red rectangular daymark; 33.	Intensified on bearing 069°06'. Shown 24 hours in autumn and winter.
18072 N 5130.1	--Middle, 5.17 km., 069°06' from front.	46° 37.0' N 31° 42.5' E	<b>Iso.W.</b> period 4s	98 30	17	Red metal framework tower, concrete base, red rectangular daymark; 98.	Visible on range line only. Shown 24 hours in autumn and winter.
18076 N 5130.2	--Rear, 9.95 km. 069°06' from front.	46° 37.9' N 31° 46.0' E	<b>F.W.</b>	220 67	23	Red framework tower, red rectangular daymark; 79.	Visible on range line only. Shown on request by day or in poor visibility.
18080 N 5146	-Adzhigiol'skay Kosy Range, front.	46° 36.7' N 31° 47.8' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	26 8	2	Four-sided stone tower, black rectangular daymark, white stripe; 23.	Visible 280°-050° Shown when lighted buoys are withdrawn.
18084 N 5146.1	--Rear, 160 meters 350° from front.	46° 36.8' N 31° 47.8' E	<b>Iso.W.</b> period 4s	33 10	4	White four-sided stone tower, black rectangular daymark, white stripe; 30.	Visible 280°-050°.
18088 N 5149	-Stanislav Range, front.	46° 30.7' N 32° 09.1' E	<b>F.R.</b>	79 24	16	Red metal framework tower; 79.	Visible on range line only. Shown by day in poor visibility.
	-Auxiliary.		<b>Dir.R.</b> period 1.5s		13		Fl.R. 106°45'-108°15', F.R.-109°45', Oc.R.-111°15'. Shown on request.
18092 N 5149.1	--Rear, 6.49 km. 109° from front.	46° 30.0' N 32° 14.0' E	<b>F.G.</b>	221 67	19	Red round metal framework tower, concrete base; 210.	Visible on range line only. Shown by day in poor visibility.
REKA BUG:							
18095 N 5181.9	-Limanoozharskiy Range, front.	46° 38.3' N 31° 55.7' E	<b>Q.W.</b>	36 11	8	White concrete tower, red stripe; 36.	
18096 N 5182	--Mys Khablovskiy, middle, 4.8 km. 064°06' from front.	46° 39.4' N 31° 59.1' E	<b>Iso.R.</b> period 6s	111 34	10	White four-sided stone tower, red stripe; 36. Floodlit.	Visible on range line only.
			<b>Dir.R.</b> period 1.5s		10		Oc.R. 061°51'-063°21', F.R.-064°51', Fl.R.-066°21'. Shown on request.
18100 N 5182.1	--Rear, 8.6 km. 064°06' from front.	46° 40.3' N 32° 01.8' E	<b>F.W.</b>	190 58	20	Black four-sided stone tower, white stripe; 79.	Visible on range line only. Shown by day in poor visibility.
18110 N 5192	-Bugskiy Range, front.	46° 46.0' N 31° 56.7' E	<b>Iso.R.</b> period 3s	46 14	5	Metal pipe, black diamond on white rectangular daymark, black stripe; 43.	Visible 090° each side of range line.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
18110.1 <i>N 5192.1</i>	--Rear, 259 meters 045°30' from front.	46° 46.1' N 31° 56.8' E	<b>Oc.R.</b> period 6s lt. 4.5s, ec. 1.5s	56 17	5	Metal pipe, black diamond on white rectangular daymark, black stripe; 43.	
REKA DNEPR:							
18164 <i>N 5152</i>	-Kizomys Range, front.	46° 33.8' N 32° 18.7' E	<b>F.R.</b> (neon)	49 15	12	White four-sided structure, orange rectangular daymark; 20.	Visible on range line only.
18168 <i>N 5152.1</i>	--Rear, 1630 meters 075°54' from front.	46° 34.0' N 32° 20.0' E	<b>F.W.</b> (neon)	114 35	12	Four-sided metal framework tower, red trapezoidal daymark; 89.	Visible on range line only.
REKA RVACH							
18172 <i>N 5156</i>	-Maly Kasperdskiy Entrance Range, front.	46° 33.3' N 32° 19.2' E	<b>F.G.</b> (neon)	37 11	2	Post, black diamond daymark, white stripe, black daymark, white stripe; 36.	Visible on range line only.
18176 <i>N 5156.1</i>	--Rear, 500 meters 096°12' from front.	46° 33.3' N 32° 19.5' E	<b>F.G.</b> (neon)	62 19	2	Post, black diamond daymark, white stripe, black daymark, white stripe; 62.	Visible on range line only.
18177 <i>N 5195</i>	-Silversov Range, front.	46° 47.4' N 31° 52.4' E	<b>Fl.R.</b> period 3s fl. 1.2s, ec. 1.8s	105 32	5	Red four-sided metal tower, white rectangular daymark, black stripe; 59.	Visible on range line only. Shown 24 hours in winter.
18177.1 <i>N 5195.1</i>	--Rear, 560 meters 222°30' from front.	46° 47.2' N 31° 52.1' E	<b>L.Fl.W.</b> period 5s fl. 4s, ec. 1s	217 66	5	Red four-sided metal tower, red rectangular daymark, black stripe; 72.	Visible on range line only.
18178 <i>N 5203.1</i>	-Rear, 480 meters 023°24' from front.	46° 55.6' N 32° 01.6' E	<b>F.R.</b>	131 40	10	Red four-sided framework tower, red rectangular daymark, white stripe; 43.	Visible 329°30'-315°30'. Shown by day in poor visibility.
			<b>F.R.</b>		10		Visible 022°39'-024°09'.
			<b>Fl.R.</b> period 5s		10		Visible 021°09'-022°39' and 024°09'-025°39'.
18179 <i>N 5206</i>	-Pier, E. side.	46° 56.5' N 31° 59.0' E	<b>Fl.G.</b> period 1.5s fl. 0.5s, ec. 1s	36 11	1	Green round metal column; 16.	
18179.1 <i>N 5207</i>	--W. side.	46° 56.5' N 31° 58.7' E	<b>Fl.R.</b> period 1.5s fl. 0.5s, ec. 1s	36 11	1	Red round metal column; 16.	
18179.5 <i>N 5210</i>	Korenikhskiy Range, front.	46° 57.1' N 31° 54.4' E	<b>Q.G.</b>	118 36	4	Red four-sided metal tower, black rectangular daymark, white stripe; 36.	Visible on range line only.
18179.6 <i>N 5210.1</i>	-Rear, 197 meters 231°48' from front.	46° 57.1' N 31° 54.3' E	<b>Iso.G.</b> period 4s	141 43	4	Red four-sided metal tower, black daymark, white stripe; 43.	Visible on range line only.
TENDEROVSKAYA KOSA:							
18180 <i>N 5244</i>	-N. head.	46° 21.9' N 31° 31.8' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	89 27	8	Red four-sided metal framework tower, black rectangular daymark; 66.	
18184 <i>N 5247</i>	-Tendrovskiy, S. side.	46° 15.8' N 31° 34.1' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	7	Gray four-sided metal framework tower; 33.	
18188 <i>N 5246</i>	-Tendrovskiy.	46° 19.3' N 31° 30.8' E	<b>Oc.W.</b> period 12s lt. 9s, ec. 3s	95 29	16	White round tower, black bands; 102.	<b>Horn:</b> 2 bl. ev. 20.5s (bl. 1.8s, si. 1.8s, bl. 4.4s, si. 12.5s).
	-RACON		<b>TD(- - • •)</b> period 30s		20		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
18192 N 5242	-Kosa Belyye Kuchugury.	46° 14.8' N 31° 39.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	49 15	5	Red four-sided framework tower, black daymark, white stripe; 39.	
18200 N 5248	-Tendrovskiy-Zheleznyy.	46° 09.9' N 32° 04.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	43 13	9	White framework tower; 39.	<b>Radar reflector.</b>
18205 N 5250	Zheleznyy Port.	46° 06.7' N 32° 19.1' E	<b>Iso.R.</b> period 6s	69 21	11	White building, lantern; 39.	Visible 285°-105°.
18210 N 5255	Ostrov Dzharylhach.	46° 01.3' N 33° 04.2' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	85 26	11	White round metal tower; 85.	
18220 N 5272	Isaychava.	45° 41.6' N 33° 02.4' E	<b>L.Fl.W.</b> period 5s	49 15	11	Orange column, white band; 36.	Reserve light range 8M. <b>Radar reflector.</b>
18244 N 5278	<b>Mys Tarkhankut.</b>	45° 20.9' N 32° 29.8' E	<b>Fl.(2)W.</b> period 7.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 3s	117 36	17	White round stone tower; 108.	Visible 168°-287°. Reserve light range 10M. <b>Horn:</b> 3 bl. ev. 30s.
18245 N 7669	Karkinitzka Zatoka Gasfield Light.	45° 15.0' N 31° 42.8' E	<b>Fl.W.</b> period 5s		5	Platform.	
18248 N 5280	Popovka.	45° 17.7' N 33° 02.2' E	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	73 22	14	Four-sided framework tower, white rectangular daymark, black stripe; 46.	Reserve light range 7M. <b>Radar reflector.</b>
18249 N 5279.5	Donuzlev Range, front.	45° 22.2' N 33° 04.0' E	<b>Iso.W.</b> period 2s	56 17	13	Black four-sided framework tower, orange rectangular daymark; 39.	Reserve light range 10M.
18249.1 N 5279.51	-Rear, 1.5 miles 052°30' from front.	45° 23.2' N 33° 05.8' E	<b>Oc.W.</b> period 5s	128 39	15	Black four-sided framework tower, orange rectangular daymark; 121.	Reserve light range 10M.
18250 N 5281	Vitino.	45° 12.6' N 33° 09.3' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	69 21	13	Black four-sided metal framework tower; 52.	Reserve light range 8M.
YEVPARATORIYSKIY:							
18252 N 5282	<b>-Mys Yevpatoriyskiy.</b>	45° 09.1' N 33° 16.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	174 53	20	White octagonal concrete tower; 171.	Visible 247°30'-123°48'. Reserve light Oc.(2)W. 12s 15M. <b>Radiobeacon.</b>
18255 N 5284	--Mys Karantinnyy.	45° 11.1' N 33° 22.5' E	<b>Iso.R.</b> period 1.6s	75 23	12	Red four-sided metal framework tower, white rectangular daymark, black stripe; 69.	Visible 280°-020°.
18258 N 5285	<b>Solodunova.</b>	45° 07.7' N 33° 31.4' E	<b>Fl.(2)R.</b> period 12s	89 27	15	Round metal tower, red and white bands; 72.	Visible 310°-150°. Reserve light range 6M.
18260 N 5287	Nikolayevka.	44° 58.5' N 33° 36.0' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	72 22	11	White four-sided stone tower; 36.	Visible 357°-167°.
18268 N 5288	<b>Mys Lukull.</b>	44° 50.0' N 33° 33.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	134 41	16	Red four-sided framework tower, white rectangular daymark, black stripe; 52.	Reserve light range 12M.
18269 N 5293	Mys Marhopulo.	44° 47.5' N 33° 32.1' E	<b>Fl.R.</b> period 3s	95 29	9	Red round metal column, white band; 30.	<b>Radar reflector.</b>
18270 N 5300	<b>Lyubimovka.</b>	44° 42.4' N 33° 33.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	213 65	18	Red four-sided metal framework tower, white rectangular daymark, black stripe; 46.	Reserve light range 12M.
18272 N 5302	<b>Sevastopol, S. Range, front.</b>	44° 37.1' N 33° 35.3' E	<b>FR.</b>	298 91	18	White square stone building; 33.	Forms range 100°54' with Sevastopol N., front.
18273 N 5302.1	-Rear, 1.75 miles 094°30' from front.	44° 37.0' N 33° 37.8' E	<b>FW.</b>	643 196	24	White square stone building; 33.	Visible on range line only. Reserve light range 21M.

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<b>UKRAINE</b>							
18276 N 5302.5	-N. Range, front.	44° 37.7' N 33° 30.8' E	<b>Oc.R.</b> period 6s fl. 4s, ec. 2s	62 19	14	Red metal column, white rectangular daymark, red stripe; 26.	Visible on range line only. Reserve light range 11M.
18278 N 5303.5	-Karantinnaya Bukhta Range, front.	44° 36.6' N 33° 30.1' E	<b>Oc.G.</b> period 2.3s	33 10	6	Orange rectangular daymark, white stripe; 23.	Other leading lights are shown in this bay.
18279 N 5303.51	--Rear, 100 meters 158°48' from front.	44° 36.5' N 33° 30.1' E	<b>Oc.G.</b> period 2.3s	59 18	6	Conical metal tower, white and orange bands; 20.	Visible on range line only. <b>Radar reflector.</b>
18280 N 5304.7	-Fishing Harbor Range, front.	44° 34.4' N 33° 25.7' E	<b>F.R.</b>	135 41	12	White round concrete tower, red stripe; 115.	Visible 128°-188°. Reserve light range 6M.
18281 N 5304.71	--Rear, 275 meters 158° from front.	44° 34.3' N 33° 25.8' E	<b>F.R.</b>	171 52	12	White round concrete tower, red stripe; 102.	Visible 128°-188°. Reserve light range 6M.
18285 N 5302.53	-Inner harbor range, front.	44° 37.0' N 33° 35.3' E	<b>Q.Y.</b>	66 20	1	White metal framework tower, white rectangular daymark, black stripe; 16.	Visible on range line only. On request.
18286 N 5302.535	--Rear, 073°12' from front.	44° 37.0' N 33° 35.4' E	<b>Q.Y.</b>	75 23	2	White metal framework tower, white rectangular daymark, black stripe; 16.	On request.
18316 N 5305.5	Manganari.	44° 35.5' N 33° 25.0' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	46 14	3	Green round metal column, concrete base; 26.	
18320 N 5308	<b>Mys Khersonesskiy.</b>	44° 35.0' N 33° 22.7' E	<b>Mo.(SW)W.</b> period 60s fl. 3s, ec. 3s fl. 3s, ec. 3s fl. 3s, ec. 6s fl. 3s, ec. 3s fl. 3s, ec. 6s fl. 6s, ec. 18s	111 34	16	White round stone tower; 118.	<b>Nautophone:</b> 2 bl. ev. 15s (bl. 3s, si. 4s, bl. 6s, si. 2s).
18324 N 5309	Mys Feilent.	44° 30.0' N 33° 29.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	551 168	12	Red four-sided metal framework tower; 13.	Visible 282°-148°.
18326 N 5310	Kayabashi.	44° 29.4' N 33° 33.3' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	978 298	8	Three-sided black framework tower, white rectangular daymark, black stripe; 36.	Visible 120°-087°.
18336 N 5314	<b>Mys Sarych.</b>	44° 23.3' N 33° 44.3' E	<b>Iso.W.</b> period 6s	125 38	17	White round metal tower; 39.	Visible 276°-120°. <b>Reserve light range 16M.</b>
18340 N 5316	<b>Mys Aytodor.</b>	44° 25.8' N 34° 07.4' E	<b>Fl.(2)G.</b> period 6s fl. 0.2s, ec. 1.3s fl. 0.2s, ec. 4.3s	285 87	24	White octagonal stone tower; 30.	Visible 232°-071°. Reserve light F.G. 10M. <b>Radiobeacon.</b>
18344 N 5320	Yalta, mole, head.	44° 29.4' N 34° 10.3' E	<b>L.Fl.R.</b> period 7.5s fl. 3s, ec. 4.5s	48 15	13	White octagonal stone tower; 39.	Reserve light range 4M. Visible 076°-205° (13M),- 076° (4M).
18350 N 5323	Artek.	44° 33.5' N 34° 18.2' E	<b>Fl.(3)W.</b> period 7.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	410 125	13	White round metal tower, four-sided metal framework, red bands; 30.	Reserve light range 4M.
18356 N 5326	Alushta.	44° 40.2' N 34° 24.7' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	4	Red metal tower, white bands; 13.	<b>Radar reflector.</b>
18360 N 5328	<b>Rybachiy.</b>	44° 45.7' N 34° 35.0' E	<b>Fl.W.</b> period 7.5s fl. 1.5s, ec. 6s	425 130	18	White round stone tower, red bands; 69.	
18362 N 5328.5	Mys Bashennyy.	44° 48.8' N 34° 45.2' E	<b>Fl.W.</b> period 6s fl. 1.5s, ec. 4.5s	56 17	8	Red round metal column, white top; 20.	
18364 N 5329	<b>Sudakskiy.</b>	44° 50.4' N 34° 58.4' E	<b>Fl.R.</b> period 5s fl. 1.5s, ec. 3.5s	75 23	15	Red four-sided metal tower, white rectangular daymark, black stripe; 43.	Reserve light range 10M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
18368 N 5330	<b>Mys Meganom.</b>	44° 47.8' N 35° 04.8' E	<b>Fl.(3)W.</b> period 14s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 9s	324 99	25	White octagonal stone tower; 39.	Visible 289°-058°. Reserve light range 16M.
18380 N 5341	Mys Kiik-Atlama.	44° 57.2' N 35° 23.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	525 160	4	White concrete tower, red bands; 20.	
FEODOSIYSKIY ZALIV:							
18384 N 5340	<b>-Mys Il'inskiy.</b>	45° 00.8' N 35° 25.2' E	<b>L.Fl.(2)W.</b> period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	216 66	21	White round stone tower; 49.	Visible 212°-016°.
18396 N 5353	Hora Dyurmen.	45° 02.7' N 35° 56.9' E	<b>Fl.G.</b> period 3s	387 118	12	Black four-sided framework pyramid, lantern, gray building; 52.	Occasional.
18404 N 5352	<b>Mys Chauda.</b>	45° 00.3' N 35° 50.2' E	<b>L.Fl.W.</b> period 24s fl. 6s, ec. 18s	121 37	17	White octagonal tower, dwelling; 52.	
18408 N 5358	Mys Kyz-Aul.	45° 03.6' N 36° 22.4' E	<b>Fl.G.</b> period 6s fl. 1.5s, ec. 4.5s		14	White octagonal stone tower, black stripes; 102.	Visible 253°-070°.
18412 N 5361	<b>Mys Takil.</b>	45° 06.3' N 36° 26.7' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	331 101	15	Black four-sided metal framework tower; 36.	
KERCHENSKIY PROLIV:							
18436 N 5616	<b>-Mys Zheleznyy Rog (R.).</b>	45° 06.7' N 36° 44.4' E	<b>Iso.W.</b> period 3s	246 75	22	Four-sided metal framework tower, two black rectangular daymark; 52.	Reserve light range 18M.
18440 N 5615	-Mys Panagiya (R.).	45° 08.4' N 36° 38.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	236 72	7	Red metal column; 26.	
18448 N 5370	<b>-Nijni Pavlovski Range, front.</b>	45° 18.3' N 36° 27.2' E	<b>Fl.R.</b>	213 65	15	White octagonal stone tower, red stripe; 56.	Visible on range line only.
18452 N 5370.1	<b>--Verkhni Pavkobski, rear, 640 meters 356°36' from front.</b>	45° 18.6' N 36° 27.2' E	<b>Fl.R.</b>	344 105	15	Metal framework tower, black rectangular daymark; 49.	Visible on range line only.
18476 N 5372	-Bukhta Kamysh-Burunskaya Range, front, W. side entrance.	45° 14.3' N 36° 24.9' E	<b>Fl.G.</b>	98 30	8	White octagonal stone tower; 53.	Visible on range line only.
18480 N 5372.1	--Rear, 1,481 meters 217°30' from front.	45° 13.7' N 36° 24.2' E	<b>Fl.G.</b>	157 48	8	White octagonal stone tower; 36.	Visible on range line only.
	-Dir Lt 329°.		<b>Fl.R.</b>	157 48	10		Visible on range line only.
18492 N 5374	-Kamysh Burunskiy Range, front.	45° 16.8' N 36° 24.6' E	<b>Fl.R.</b>	105 32	10	White octagonal concrete tower, building; 39.	Visible on range line only.
18496 N 5374.1	<b>--Churubashskiy, rear, 9.3 km. 246°48' from front.</b>	45° 14.8' N 36° 18.0' E	<b>Fl.W.</b>	410 125	17	Four-sided metal framework tower, black rectangular daymark, red stripe; 102.	Visible 240°48'-252°48'. Reserve light F.W.
18499.1 N 5374-4	-Port Kerch range, front.	45° 21.5' N 36° 29.0' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	39 12	5	Metal framework tower, white rectangular daymark, red stripe; 33.	Visible on range line only.
18499.2 N 5374.41	--Middle, 300 meters 331°18' from front.	45° 21.6' N 36° 28.9' E	<b>Fl.R.</b>	59 18	5	Metal framework tower, white rectangular daymark, red stripe; 53.	Visible on range line only.
18499.3 N 5374.42	--Rear, 1852 meters 331°18' from front.	45° 22.4' N 36° 28.3' E	<b>Fl.R.</b>	164 50	6	Metal framework tower, white rectangular daymark, red stripe; 99.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>UKRAINE</b>							
18520 N 5375	Kerch-Yenikalskiy.	45° 21.3' N 36° 29.0' E	<b>Fl.R.</b> period 2.5s fl. 0.5s, ec. 2s	23 7	2	Red metal column, gray hexagonal concrete base; 14.	
18552 N 5376	- <b>Tamanskiy Range</b> (R.), front.	45° 22.5' N 36° 43.7' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	72 22	15	Metal framework tower, white rectangular daymark, red stripe; 69.	Visible 180°30'-187°30'. Reserve light range 11M.
			<b>F.R.</b>		18		Visible on range line only. Reserve light range 11M.
18556 N 5376.1	--Rear, 7.0 km. 066°48' from front.	45° 24.0' N 36° 48.6' E	<b>F.W.</b>	197 60	25	Four-sided metal framework tower, black rectangular daymark, red stripe; 141.	Visible on range line only. Reserve light range 8M.
18558 N 5378	-Chushkinskiy Range, front.	45° 19.2' N 36° 38.6' E	<b>F.R.</b>	43 13	12	White four-sided tower; 59.	Visible on range line only.
18559 N 5378.1	--Rear, 370 meters 194°18' from front.	45° 18.6' N 36° 38.4' E	<b>F.R.</b>	75 23	12	White four-sided tower; 79.	Visible on range line only. Shown 24 hours in autumn and winter.
18560 N 5422	- <b>Yenikal'skiy.</b>	45° 23.1' N 36° 38.4' E	<b>Fl.(3)W.</b> period 14s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 7.9s	404 123	27	White round stone tower; 88.	Visible 159°30'-039°30'.
18570 N 5423.5	-N. mole, head.	45° 21.8' N 36° 37.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	2	Green round metal column, concrete base; 16.	
18570.1 N 5423.6	-S. mole, head.	45° 21.7' N 36° 37.8' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	2	Red round metal column, concrete base; 16.	
<b>AZOVSKOYE MORE (SEA OF AZOV)</b>							
18608 N 5436	<b>Ostrov Biryuchiy.</b>	46° 05.4' N 34° 59.6' E	<b>Fl.(2)W.</b> period 7.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 3s	88 27	15	White octagonal stone tower; 82.	
18628 N 5448	<b>Novokonstantinovskiy.</b>	46° 34.8' N 35° 43.0' E	<b>Fl.W.</b> period 6s		16	Red four-sided metal framework tower, concrete base; 72.	Seasonal.
18632 N 5452	Obitochnaya Kosa.	46° 29.6' N 36° 06.7' E	<b>Fl.W.</b> period 8s fl. 1.5s, ec. 6.5s	43 13	10	Red rectangular daymark; 39.	
18640 N 5454	<b>Nizhniy Berdyanskiy.</b>	46° 38.1' N 36° 45.7' E	<b>Oc.W.</b> period 7.5s fl. 4.5s, ec. 3s	78 24	15	White octagonal tower, red band; 62.	
	RACON		<b>N(- •)</b> period 30s		17		(3cm).
18648 N 5458	<b>Berdyanski Verkhniy.</b>	46° 46.0' N 36° 46.0' E	<b>Fl.(3)R.</b> period 14s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 9s	236 72	19	White octagonal tower, red bands; 108.	Visible 280°-070°.
18652 N 5460	-Detached breakwater, NW. head.	46° 44.5' N 36° 45.9' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	5	Green round metal column, white band; 36.	Seasonal.
18656 N 5462	-Detached breakwater, SE. head.	46° 44.3' N 36° 46.3' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	31 9	3	Red metal column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>AZOVSKOYE MORE (SEA OF AZOV)</b>							
18660 <i>N 5464</i>	-Range, front.	46° 45.2' N 36° 46.8' E	<b>F.R.</b>	95 29	12	Metal framework tower, white four-sided hut; 95.	Visible on range line only. Fl.R. 2s visible W. of range line, Oc.R. 2s visible E. of range line.
			<b>F.R.</b>		11		Visible on range line only. Occasional.
18664 <i>N 5464.1</i>	--Rear, 1.3 km. 040°48' from front.	46° 45.7' N 36° 47.4' E	<b>F.R.</b>	207 63	12	White diamond and white square daymarks, black stripe; 66.	Visible on range line only.
TAGANROGSKIY ZALIV:							
18680 <i>N 5472</i>	-Belosarayskiy Zaliv.	46° 52.9' N 37° 19.4' E	<b>Oc.(2)W.</b> period 12s lt. 3s, ec. 1.5s lt. 3s, ec. 4.5s	70 21	14	White octagonal tower; 69.	
	-RACON		<b>B(-•••)</b> period 30s		17		(3cm).
18716 <i>N 5492</i>	--S. mole, head.	47° 03.0' N 37° 31.3' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	29 9	4	Hexagonal tower, red round daymark; 30.	
-Port Mariupol:							
18720 <i>N 5490</i>	--N. mole, head.	47° 03.1' N 37° 31.4' E	<b>Fl.G.</b> period 3s	30 9	5	Green hexagonal tower; 19.	
18724 <i>N 5484</i>	--E. Entrance, 331°36'.	47° 03.8' N 37° 30.7' E	<b>Iso.R.</b> period 2s	66 20	10	Metal framework tower, white round daymark, white trapezoidal daymark; 62.	Visible on range line only. Seasonal.
-Mariupol:							
18732 <i>N 5478</i>	--W. Entrance Range, front.	47° 03.3' N 37° 30.3' E	<b>F.G.</b>	89 27	14	Black framework structure, white square daymark; 92.	Visible on range line only.
			<b>Iso.G.</b> period 2s	89 27	14		White reflector.
18736 <i>N 5478.1</i>	---Middle, 0.92 mile 012°18' from front.	47° 04.2' N 37° 30.6' E	<b>F.R.</b>	187 57	14	White four-sided tower, white two-story building; 77.	May be obscured within 4M. F.R. 5M (vertical strip) also visible (occasional).
			<b>Oc.R.</b> period 4.5s		14		Occasional.
			<b>Fl.R.</b> period 4.5s				Occasional.
18740 <i>N 5478.2</i>	---Rear, 1.55 miles 012°18' from front.	47° 04.8' N 37° 30.8' E	<b>F.R.</b>	282 86	15	Black metal framework tower; 69.	Visible on range line only.
18744 <i>N 5482</i>	--Elbow of Vostochnyy Mole.	47° 02.9' N 37° 30.2' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	3	Green round metal column, white band, black square daymark; 36.	
18745 <i>N 5483</i>	--Zapadnyy mole, NE. head.	47° 02.9' N 37° 30.1' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	1	Red round metal column, white band; 20.	
18746 <i>N 5483.2</i>	---SW. head.	47° 02.7' N 37° 29.9' E	<b>F.R.</b>	20 6	1	Red round metal column; 13.	
18748 <i>N 5500</i>	--Razdelitel'nogo Pirs.	47° 03.3' N 37° 30.4' E	<b>Fl.R.</b> period 1.5s fl. 0.5s, ec. 1s	30 9	1	Red metal column; 23.	
18749 <i>N 5501</i>	--Khlebnaya Havan.	47° 03.4' N 37° 30.6' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	1	Red metal column; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>AZOVSKOYE MORE (SEA OF AZOV)</b>							
18750 <i>N 5502</i>	--Remontnyy Basseyn, entrance, E. side.	47° 03.7' N 37° 31.0' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	1	Green round metal column, white band; 23.	
18751 <i>N 5504</i>	--W. side.	47° 03.7' N 37° 30.9' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	1	Red round metal column, white band; 23.	
18752 <i>N 5516</i>	--E. breakwater, elbow.	47° 04.9' N 37° 34.8' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	2	Green conical tower, white band; 10.	Seasonal.
-Port Azovstal:							
18756 <i>N 5510</i>	--Approach Channel Range, front.	47° 05.1' N 37° 35.1' E	<b>F.G.</b>	72 22	8	Four-sided metal framework tower, white trapezoidal daymark; 72.	Visible on range line only. Seasonal.
18760 <i>N 5510.1</i>	---Middle, 0.84 mile 044° from front.	47° 05.8' N 37° 36.0' E	<b>F.G.</b>	174 53	8	Four-sided metal framework tower, white trapezoidal daymark; 121.	Visible on range line only.
18764 <i>N 5510.2</i>	---Rear, 1.7 miles 044° from front.	47° 06.4' N 37° 36.8' E	<b>F.G.</b>	217 66	8	Four-sided metal framework tower, white trapezoidal daymark; 112.	Visible on range line only.
18880 <i>N 5578</i>	<b>Kamyshevatskaya.</b>	46° 24.1' N 37° 55.5' E	<b>Fl.W.</b> period 13s fl. 1s, ec. 12s	95 29	16	White concrete tower, white rectangular daymark, red band; 49.	
18896 <i>N 5586</i>	<b>Akhtarskiy.</b>	46° 06.3' N 38° 10.9' E	<b>Fl.W.</b> period 6s fl. 1.5s, ec. 4.5s	62 19	15	Silver rectangular panel; 39.	Visible 080°-170°.
18904 <i>N 5594</i>	Achuyev, Reka Sladkoye, entrance, S. side.	45° 41.0' N 37° 38.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	8	Black rectangular panel; 39.	Seasonal.
18928 <i>N 5606</i>	<b>Tyemryuk.</b>	45° 19.7' N 37° 13.9' E	<b>Fl.W.R.</b> period 7.5s fl. 1.5s, ec. 6s	226 69	W. 20 R. 13	White octagonal tower; 46.	W. 105°-134°, R.-170°, W.- 270°. Seasonal.

# Section 13

## Russia, Georgia, Turkey and Islands of the Eastern Aegean Sea Including Dhodhekanisos

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>RUSSIA</b>							
18936 <i>N 5428</i>	<b>Mys Akhilleon.</b>	45° 26.4' N 36° 47.2' E	<b>Iso.R.</b> period 6s	207 63	17	Four-sided framework tower, two black rectangular daymarks; 66.	
18940 <i>N 5616.5</i>	<b>Yantarny.</b>	45° 06.8' N 36° 52.5' E	<b>Fl.W.</b> period 10s	99 30	16	Red four-sided metal framework tower; 20.	Reserve light range 9M.
18941 <i>N 5617.2</i>	Kubanskiy.	45° 03.5' N 37° 04.0' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	98 30	12	Red round metal column; 23.	Reserve light range 7M.
18942 <i>N 5617.5</i>	Blagoveshchenskiy.	44° 59.4' N 37° 14.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	8	Red round column, white band 23.	<b>Radar reflector.</b>
ANAPA:							
18944 <i>N 5618</i>	<b>-Mys Anapskiy.</b>	44° 53.2' N 37° 18.0' E	<b>L.Fl.(2)R.</b> period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	141 43	17	White octagonal tower, black bands; 69.	Reserve light Iso.R. 6s 6M.
18964 <i>N 5632</i>	<b>Ostrov Utrish.</b>	44° 45.5' N 37° 22.7' E	<b>Iso.W.</b> period 3s	84 26	15	White round tower; 56.	Reserve light range 10M.
18972 <i>N 5632.5</i>	Mys Vtrishenok.	44° 42.5' N 37° 27.3' E	<b>L.Fl.W.</b> period 7s	46 14	12	White four-sided framework tower, white rectangular daymark; 33.	Reserve light range 8M.
18976 <i>N 5633</i>	Ozereyevskiy, river mouth, E.	44° 40.2' N 37° 38.3' E	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	W. 14 R. 9	Four-sided framework tower, white rectangular daymark; 33.	W. 291°-320°, R.-048°, W.-072°. Reserve light range W. 6M, R. 3M.
18978 <i>N 5634</i>	Mole, head.	44° 40.1' N 37° 39.4' E	<b>Fl.(2)R.</b> period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	36 11	2	Red round metal column; 26.	
NOVOROSSIYSKAYA BUKHTA:							
18980 <i>N 5639</i>	-Kosa Sudzhukskaya, SE. of shoal.	44° 39.8' N 37° 49.4' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	38 12	9	White round concrete tower, gray base; 33.	<b>Radar reflector.</b>
18984 <i>N 5636</i>	<b>-Mys Doobskiy.</b>	44° 37.6' N 37° 54.6' E	<b>Fl.(3)W.</b> period 16.5s	328 100	21	White octagonal stone tower; 75.	Visible 325°-152°. Reserve light Oc.W. 7.5s 6M. <b>Nautophone:</b> 3 bl. ev. 20s (bl. 2s, si. 1s, bl. 4s, si. 2s, bl. 5s, si. 6s).
18988 <i>N 5640</i>	-Kabardinskiy Range, front.	44° 38.5' N 37° 55.5' E	<b>Iso.R.</b> period 4s	59 18	7	Four-sided metal framework tower, white rectangular daymark; 30.	Visible on range line only. Reserve light range 5M.
18992 <i>N 5640.1</i>	--Middle, 305 meters 130° from front.	44° 38.4' N 37° 55.7' E	<b>Iso.R.</b> period 4s	125 38	7	Four-side metal framework tower, white rectangular daymark; 33.	Visible on range line only. Reserve light range 5M.
18996 <i>N 5640.2</i>	--Rear, 0.65 km. 130° from front.	44° 38.3' N 37° 55.9' E	<b>Iso.R.</b> period 4s	295 90	7	Four-sided metal framework tower, white rectangular daymark; 30.	Visible on range line only.
19000 <i>N 5638</i>	-Mys Penay Range, front.	44° 40.8' N 37° 52.9' E	<b>Iso.G.</b> period 3s	108 33	9	Metal framework tower, white rectangular daymark, red stripe; 66.	Visible 305°-128°. Reserve light range 4M.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>RUSSIA</b>							
19004 N 5638.1	--Rear, 425 meters 001°54' from front.	44° 41.0' N 37° 52.9' E	<b>Iso.G.</b> period 3s	193 59	9	Four-sided metal framework tower, white rectangular daymark, red stripe; 33.	Visible on range line only. Reserve light range 7M.
19016 N 5643	-Mys Lyubvi.	44° 42.4' N 37° 47.3' E	<b>F.R.</b>	66 20	2	Yellow building, lantern; 49.	Visible 244°-296°. F.G. 1M on jetties 0.7 mile SSE.
19020 N 5643.5	-Mole, head.	44° 43.3' N 37° 49.3' E	<b>F.G.</b>	36 11	2	White round metal column; 16.	
19020.1 N 5643.55	--Elbow.	44° 43.3' N 37° 49.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	1	White round metal column; 17.	
19021 N 5642.3	-Pier, head.	44° 43.4' N 37° 48.6' E	<b>F.R.</b>		1	Red round column, white band; 13.	
19022 N 5642.4	-Wharf, SE. corner.	44° 43.4' N 37° 48.8' E	<b>Fl.R.</b> period 3s		1		
19023 N 5642.5	--S. corner.	44° 43.4' N 37° 48.9' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	1	White round column; 16.	
19024 N 5642	-Vostochnyy Mol Range, front.	44° 43.3' N 37° 48.1' E	<b>2 Iso.G.</b> (vert.) period 6s	79 24	10	White round concrete tower, red bands; 69.	Visible on range line only. 7 meters apart. Reserve light range 2M. <b>Horn:</b> 5 bl. ev. 60s (bl. 3s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 2s, si. 15s).
19028 N 5642.1	--Rear, 2.85 km. 334°12' from front.	44° 44.7' N 37° 47.1' E	<b>Oc.G.</b> period 6s lt. 4.5s, ec. 1.5s	243 74	16	White four-sided stone tower, red stripe; 46.	Visible 321°42'-346°42'. Reserve light range 5M. Visible during day in poor visibility on leading line only.
19030 N 5642.2	-New Mole, head.	44° 43.1' N 37° 48.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	2	White round column; 13.	
19032 N 5644	-W. mole, head.	44° 43.4' N 37° 47.8' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	46 14	3	Red concrete tower, white band; 36.	
19034	-Cabotage Mol, NE. corner.	44° 43.3' N 37° 47.1' E	<b>F.G.</b>		1		
19036 N 5653.3	--Spur.	44° 43.3' N 37° 47.1' E	<b>F.G.</b>	23 7	1	White round metal column; 16.	
19040 N 5644.7	-Head of pier, N. of E. mole.	44° 43.7' N 37° 48.2' E	<b>Fl.G.</b> period 3s		2		
19044 N 5645	-SRZ Pier, NW. corner.	44° 43.8' N 37° 48.3' E	<b>F.G.</b>	23 7	2	White round metal column; 20.	
19048 N 5646	-Importnyy Pir, SE. corner, head.	44° 43.7' N 37° 48.1' E	<b>F.G.</b>	30 9	1	White round metal column; 20.	
19048.1 N 5646.2	--NW. corner.	44° 43.7' N 37° 48.1' E	<b>F.G.</b>	30 9	1	White round metal column; 20.	
19048.5 N 5646.6	-Shirokiy Pier No 2, NE. corner.	44° 43.8' N 37° 47.9' E	<b>F.G.</b>	23 7	2	White round metal column; 13.	
19048.6 N 5646.62	--SW. corner.	44° 43.7' N 37° 47.8' E	<b>F.G.</b>	23 7	2	White round metal column; 13.	
19049 N 5647	-Pier No 1, NE. corner.	44° 43.8' N 37° 47.5' E	<b>F.G.</b>	23 7	2	White round metal column; 13.	
19051 N 5647.2	--SW. corner.	44° 43.7' N 37° 47.4' E	<b>F.G.</b>	23 7	2	White round metal column; 13.	
19051.6	-Pier No 5, head.	44° 43.6' N 37° 46.9' E	<b>F.G.</b>		2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>RUSSIA</b>							
19052 <i>N 5652.6</i>	-Cold storage wharf, NE corner.	44° 43.5' N 37° 46.7' E	<b>F.G.</b>	20	<b>6</b>	1 White metal column, concrete base; 13.	
19056 <i>N 5652.62</i>	--SW. corner.	44° 43.4' N 37° 46.7' E	<b>F.G.</b>	20	<b>6</b>	1 White metal column, concrete base; 13.	
19058 <i>N 5653.75</i>	-Pier, N. side.	44° 43.0' N 37° 49.8' E	<b>F.G.</b>	52	<b>16</b>	4 Metal stand structure, stone structure; 7.	
19058.2 <i>N 5653.8</i>	--NW. side.	44° 43.0' N 37° 49.9' E	<b>F.R.</b>	26	<b>8</b>	2 White metal column, red bands; 13.	
19059 <i>N 5653.7</i>	--SW. elbow.	44° 42.9' N 37° 49.9' E	<b>F.W.</b>	36	<b>11</b>	3 White round metal column; 26.	
19068 <i>N 5654</i>	-Sheshkharik Gavan', N. pier.	44° 42.1' N 38° 49.9' E	<b>F.G.</b>	72	<b>22</b>	1 Four-sided framework tower, lantern; 72.	A light is shown at each of N. and S. corners of head of pier and at root.
19070 <i>N 5654.42</i>	--Pier No 1, N. corner.	44° 42.3' N 37° 50.2' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	56	<b>17</b>	2 White metal column; 23.	
19072 <i>N 5654.44</i>	--Pier No. 1, head.	44° 42.1' N 37° 50.1' E	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	46	<b>14</b>	2 White metal column; 16.	
19075 <i>N 5655.8</i>	Levvy Vkhodnoy.	44° 33.9' N 37° 59.7' E	<b>Fl.(2)R.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36	<b>11</b>	3 Red metal column, white band; 26.	<b>Radar reflector.</b>
GELENDZHIKSHKAYA BUKHTA:							
19076 <i>N 5666</i>	-Gelendzhikskiy Vkhodnoy.	44° 33.0' N 38° 03.0' E	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 10.8s	203	<b>62</b>	21 White octagonal concrete tower, red bands; 138.	Visible 321°-220°. Reserve light Fl.W. 3.5s 15M.
19080 <i>N 5660</i>	Mezyb.	44° 30.4' N 38° 07.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	62	<b>19</b>	7 Red round metal column, white band; 33.	
19090 <i>N 5664.8</i>	Arkhipo-Osipovka.	44° 21.4' N 38° 31.2' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s		<b>15</b>		Visible 292°-098°.
19100 <i>N 5666</i>	Dzhubga.	44° 18.4' N 38° 42.4' E	<b>L.Fl.R.</b> period 6s	98	<b>30</b>	15 Red tower, red rectangular daymark, white building; 39.	Visible 332°-098°. Reserve light Fl.R. 3s 5M.
TUAPSE:							
19108 <i>N 5668</i>	-Mys Kodosh.	44° 05.9' N 39° 02.2' E	<b>Fl.(3)W.</b> period 14.2s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8s	203	<b>62</b>	21 White octagonal tower, dwelling; 46.	Visible 313°-129°. Reserve light L.Fl.W. 12s 7M.
19110 <i>N 5671</i>	-Prichal.	44° 05.0' N 39° 04.1' E	<b>Iso.R.G.</b> period 6s	46	<b>14</b>	2 26.	R. 249°-006.5°, G.-249°.
19112 <i>N 5670</i>	-Yuzhnyy Mol, head.	44° 05.2' N 39° 04.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	39	<b>12</b>	2 Green four-sided truncated metal framework tower, white band; 23.	
19116 <i>N 5672</i>	-Yugozapadnyy Volnolom, SE. end.	44° 05.2' N 39° 04.0' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	36	<b>11</b>	2 Red four-sided tower, truncated framework structure, white band; 20.	
19120 <i>N 5674</i>	-Novyy Port Entrance Range, front.	44° 05.7' N 39° 04.1' E	<b>F.Bu.G.</b> (vert.)	63	<b>19</b>	3 Four-sided metal truncated framework tower, white trapezoidal daymark; 56.	Visible on range line only. Auxiliary light Dir. 2 Fl.R. (hor.) 3.3s 3M. Reserve light FBu. 3M.

F.G. (vert.)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>RUSSIA</b>							
19124 <i>N 5674.1</i>	--Rear, about 274 meters 006°30' from front.	44° 05.8' N 39° 04.1' E	<b>F.R.</b> (vert.)	121 37	4	Four-sided metal truncated framework tower, white trapezoidal daymark; 36.	Visible on range line only. Auxiliary light F.R. 4M.
			<b>F.Bu.</b> (vert.)		3		
			<b>F.G.</b> (vert.)		3		
19126 <i>N 5682</i>	Ashe.	43° 58.3' N 39° 15.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	161 49	10	Building; 141.	Visible 325°-120°.
19128 <i>N 5684</i>	<b>Lazarevskoye.</b>	43° 54.3' N 39° 20.8' E	<b>Fl.W.</b> period 6s fl. 1.5s, ec. 4.5s	315 96	20	Four-sided metal framework tower, white rectangular daymark, red stripe; 49.	Visible 323°-130°. Reserve light Fl. 3s 12M.
19129 <i>N 5684.5</i>	Loo.	43° 41.8' N 39° 35.1' E	<b>L.Fl.G.</b> period 6s fl. 2s, ec. 4s	26 8	3	Orange round metal column; 16.	
19130 <i>N 5685</i>	Mys Uche-Dere.	43° 40.1' N 39° 36.5' E	<b>Fl.W.</b> period 2s fl. 0.2s, ec. 1.8s	105 32	9	Red framework tower, white building; 82.	
19131 <i>N 5685.5</i>	Dagomys.	43° 39.1' N 39° 38.8' E	<b>Fl.R.</b> period 4s	26 8	3	White round metal column, red band; 16.	
SOCHI:							
19132 <i>N 5686</i>	<b>-Sochi</b> Range, front.	43° 34.7' N 39° 43.2' E	<b>Iso.G.</b> period 3s	120 37	20	White stone tower, dwelling; 49.	Visible 296°-161°, partially obscured 149°-161°.
19136 <i>N 5688</i>	--Rear, 540 meters 356°48' from front.	43° 35.2' N 39° 42.8' E	<b>F.G.</b>	89 27	10	Black four-sided metal framework tower, white triangular daymark point down, white rectangular daymark, black stripe; 56.	Visible 299°-054°. Shown on request.
19140 <i>N 5689</i>	-Severnny, N. mole, head.	43° 34.6' N 39° 42.8' E	<b>Fl.(2)R.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	69 21	1	Red round concrete tower, white band, gallery; 52.	R.170°-035°, G.-170°.
19148 <i>N 5690</i>	-Yuzhnyy, S. mole, head.	43° 34.7' N 39° 42.9' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	69 21	1	Gray metal framework tower; 56.	
19162 <i>N 5694</i>	Khosta.	43° 30.6' N 39° 51.7' E	<b>Iso.R.</b> period 2s	26 8	4	White round metal column, red band; 16.	
19163 <i>N 5696</i>	Kurortnyy Gorodok.	43° 28.2' N 39° 53.5' E	<b>Fl.G.</b> period 4s	26 8	3	White round metal column; 16.	
REYD ADLER:							
19164 <i>N 5698</i>	-Mys Adlerskiy.	43° 25.5' N 39° 54.9' E	<b>Fl.(2)Y.</b> period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s		13	White round metal tower, red bands; 39.	Visible 330°-130°. Reserve light range 11M. <b>Radar reflector.</b>
19165 <i>N 5699.5</i>	Imeretinsky Severnny.	43° 24.9' N 39° 55.5' E	<b>Fl.G.</b> period 1.5s fl. 0.5s, ec. 1s	82 25	5	Red 4-sided metal framework tower, white band; 98.	Visible 295°-140°.
19166 <i>N 5699.53</i>	Imeretinsky Range, E. front, 344.6° from common rear.	43° 24.3' N 39° 56.3' E	<b>Iso.G.</b> period 3s	62 19	5	Green round metal column, white band, reinforced concrete base; 23.	
19166.1 <i>N 5699.51</i>	-Common Rear.	43° 24.6' N 39° 56.1' E	<b>Iso.Y.</b> period 3s	69 21	6	White rectangular panel, red stripe; 49.	Visible 325°-120°.
19166.2 <i>N 5699.52</i>	-W. front, 344.6° from common rear.	43° 24.3' N 39° 56.2' E	<b>Iso.R.</b> period 3s	62 19	5	Red round metal column, white band, reinforced concrete base; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GEORGIA</b>							
19168 N 5700	Leselidze.	43° 23.1' N 40° 01.1' E	<b>Fl.R.</b> period 4.5s fl. 1.5s, ec. 3s	95 29	10	White metal pole; 79.	Visible 285°-094°. <b>Radar reflector.</b>
GAGRINSKIY REYD:							
19172 N 5706	<b>-Gagrinskiy.</b>	43° 19.8' N 40° 12.9' E	<b>Fl.(2)W.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	285 87	18	Building, lantern; 69.	Visible 341°-105°.
19176 N 5708	-Range, front.	43° 19.6' N 40° 13.5' E	<b>F.R.</b>		3		
19180 N 5708.1	--Rear, 026° from front.	43° 19.5' N 40° 13.6' E	<b>F.R.</b>		3		
19192 N 5718	<b>Mys Pitsunda.</b>	43° 08.8' N 40° 20.5' E	<b>Fl.(2)W.</b> period 10.2s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 7.7s	118 36	19	White framework tower, central column; 102.	Visible 269°-150°.
19200 N 5721	<b>Bambora.</b>	43° 05.6' N 40° 36.3' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	125 38	16	Building, lantern; 115.	Visible 275°-085°.
19204 N 5724	Gudauty, W. end of village.	43° 05.9' N 40° 38.0' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	53 16	6	Framework tower, hut, red rectangular daymark, white stripe; 13.	Visible 308°-041°.
19206 N 5724.5	Novyy Afon.	43° 05.1' N 40° 49.0' E	<b>Oc.W.</b> period 6s lt. 4s, ec. 2s	108 33	10	Building; 72.	Visible 282°-093°.
19208	Novo Afonskogo, monastery, pier, head.	43° 05.0' N 40° 51.0' E	<b>2 F.W.</b>	35 11			Shown when regular steamships are due.
19209 N 5725	Eshera.	43° 00.9' N 40° 56.1' E	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	108 33	14	Building; 89.	Visible 332°-130°.
SUKHUMI:							
19212 N 5726	<b>-Mys Sukhumskiy.</b>	42° 58.9' N 40° 58.3' E	<b>L.Fl.(2)W.</b> period 15s	121 37	17	White round metal tower; 112.	Visible 236°42'-115°42', faintly 116°-127°.
19214 N 5727	-Middle pier Range, front.	42° 59.7' N 41° 01.4' E	<b>F.G.</b>	46 14	3	Building white triangular daymark point up, trapezoidal daymark; 20.	Visible on range line only.
19214.1 N 5727.1	--Rear, 120 meters 352°48' from front.	42° 59.8' N 41° 01.4' E	<b>F.G.</b>	56 17	3	Mast, white trapezoidal daymark; 49.	Visible on range line only.
19216 N 5728	-Range, front, SE. extremity of facade of fort, front.	42° 59.7' N 41° 01.1' E	<b>F.R.</b>	43 13	4	Metal post, concrete base, red triangular daymark point up, red rectangular daymark, white stripe; 36.	Visible on range line only. Storm signal.
19220 N 5728.1	--Rear, 95 meters 285°36' from front.	42° 59.7' N 41° 01.0' E	<b>F.R.</b>	52 16	4	Metal post, red triangular daymark point down, rectangular daymark, white stripe; 33.	Visible on range line only.
19228 N 5734	Mys Kodori.	42° 50.8' N 41° 06.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	13	Black metal framework tower, white rectangular daymark, black stripe; 66.	Visible 330°-170°. <b>Radar reflector.</b>
19232 N 5736	Akhail Kindgi.	42° 47.2' N 41° 17.4' E	<b>Oc.W.</b> period 12s		12		Visible 325°-090°.
OCHAMCHIRE:							
19234 N 5738	- Point Range, front.	42° 44.7' N 41° 25.4' E	<b>Iso.W.</b> period 3s	36 11	5	White round metal tower, red stripe; 26.	

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<b>GEORGIA</b>							
19234.1 N 5738.1	--Rear, 260 meters 359°24' from front.	42° 44.8' N 41° 25.4' E	<b>Iso.W.</b> period 3s	66 20	5	White round metal tower, red stripe; 49.	
19236 N 5742	-Ochamchire.	42° 40.5' N 41° 28.8' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	65 20	13	White framework tower; 59.	Visible 344°-157°.
19252 N 5744	Gagida.	42° 31.0' N 41° 31.9' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	49 15	10	Framework tower, white rectangular daymark; 39.	Visible 354°-172°.
19256 N 5746	<b>Anaklia, Reka Ingur</b> , entrance.	42° 23.6' N 41° 33.7' E	<b>L.Fl.W.R.G.</b> period 15s	180 55	20	Building; 148.	Visible 330°-161°. Reserve light Iso.W. 3s 10M.
19257 N 5748	<b>Qulevi</b> .	42° 16.3' N 41° 38.6' E	<b>F.W.R.G.</b>	82 25	W. 22 R. 13 G. 10		G. 115°27'-119°15', W.-120°51', R.-124°39'.
POTI:							
19277 N 5762	-Entrance Range, front.	42° 09.6' N 41° 38.9' E	<b>Fl.R.</b> period 6s	56 17	5	Four-sided metal framework tower, white rectangular daymark, red stripe.	
19277.1 N 5762.1	--Rear, 300 meters 129° from front.	42° 09.5' N 41° 39.1' E	<b>Fl.R.</b> period 6s	66 20	5	Four-sided framework tower, balcony, white rectangular daymark, red stripe.	
			<b>Fl.W.</b> period 5s	23 7	1		
19280 N 5749	-Inner Range, front, S. mole, root.	42° 09.0' N 41° 39.2' E	<b>F.G.</b>	36 11	6	Orange rectangular daymark, black stripe; 49.	
19284 N 5749.1	-- <b>Potiyskiy</b> , rear, 1.93 km. 158°54' from front.	42° 08.0' N 41° 39.7' E	<b>Al.Fl.W.R.</b> period 7.5s W. fl. 0.2s, ec. 1.6s R. fl. 0.2s, ec. 5.5s	118 36	W. 17 R. 16	White round metal tower, red bands; 121. Floodlit.	Visible 268°-167° and 170°-207°.
19288 N 5760	-Outer breakwater, head.	42° 09.6' N 41° 38.7' E	<b>Fl.W.G.</b> period 3s fl. 0.5s, ec. 2.5s	43 13	W. 7 G. 4	White metal framework tower; 26.	W. 012°30'-116°, G.-012°30'.
-RACON <b>G(- - •)</b>							
19304 N 5761	-Elbow of breakwater, entrance, W. side.	42° 09.3' N 41° 38.9' E	<b>Fl.Bu.</b> period 4s fl. 0.5s, ec. 3.5s	23 7	3	White tower; 16.	Visible 163°12'-003°12'.
19313 N 5763.6	<i>Supsa SPM.</i>	42° 01.8' N 41° 42.4' E	<b>Mo.(U)W.</b> period 15s		10		<b>Horn:</b> Mo.(U) ev. 30s.
RACON							
19314 N 5764	Natanebi.	41° 57.6' N 41° 45.8' E	<b>Fl.(2)R.</b> period 4s	131 40	7		Visible 355°-176°.
19320 N 5765	Kobuleti.	41° 51.1' N 41° 46.7' E	<b>Fl.G.</b> period 3s	121 37	11	Building, lantern; 98.	Visible 018°-185°.
BATUMI:							
19322 N 5767	-Batumi Small Port.	41° 39.8' N 41° 40.7' E	<b>Q.W.R.G.</b>	33 10	12	White round metal structure, red stripes; 23.	G.188°30'-193°30', W.-198°30', R.-203°30'.
19322.1 N 5766.1	--NW. mole.	41° 39.9' N 41° 40.7' E	<b>Fl.G.</b> period 5s	20 6	4	Green round structure; 7.	
19322.2 N 5766.2	--SE. mole.	41° 39.9' N 41° 40.8' E	<b>Fl.R.</b> period 5s	20 6	4	Red round structure; 13.	
19324 N 5768	-Bukhta Batumiyskaya, on Mys Burun Tabiya.	41° 39.3' N 41° 38.5' E	<b>Fl.R.</b> period 6s	65 20	14	White octagonal stone tower, dwelling; 66.	Visible 065°-310°. <b>Horn:</b> 5 bl. ev. 60s (bl. 7s, si. 4s, bl. 7s, si. 4s, bl. 6s, si. 2s, bl. 4s, si. 8s, bl. 8s, si. 10s).

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<b>GEORGIA</b>							
19328 N 5772	-Petroleum Harbor.	41° 39.0' N 41° 38.9' E	<b>F.W.R.G.</b>	42 13	11	White round metal tower, balcony, red bands; 36.	W. 020°-149°, G.-176°, R.- 260°.
	-RACON		<b>B(- • • •)</b>				
19330 N 5773.4	-Harbor Range, front, 858 meters 338°42' from common rear.	41° 39.0' N 41° 39.0' E	<b>Fl.R.</b> period 2s	72 22	4	White quadrangular metal tower, black vertical stripe; 62.	
19330.1 N 5773.1	--Common rear.	41° 40.1' N 41° 38.1' E	<b>Fl.R.</b> period 2.5s	85 26	4	White quadrangular metal tower, black vertical stripe; 79.	Visible on range line only.
19333 N 5773.5	-Petroleum Harbor, mole, head.	41° 39.0' N 41° 38.9' E	<b>FR.</b>	3 1	3		
19334 N 5773	-Range, front, 385 meters 345°18' from common rear.	41° 39.0' N 41° 39.0' E	<b>Fl.Bu.</b> period 4s	72 22	5	White metal framework tower, black rectangular daymark, white stripe; 62.	Visible on range line only.
19335 N 5773.6	-Range, front.	41° 39.2' N 41° 38.6' E	<b>FR.</b>	75 23	4	White metal framework structure, two black trapezoidal daymarks, white stripe; 66.	Visible on range line only.
19335.1 N 5773.61	--Rear, 260 meters 261°24' from front.	41° 39.1' N 41° 38.5' E	<b>FR.</b>	105 32	4	White metal framework structure, black triangular daymark point up, white stripe; 95.	Visible on range line only.
19336 N 5770	-Near root of Mys Burun Tabiya Mole, 210 meters 320° from Bukhta Batumyskaya.	41° 39.4' N 41° 38.4' E	<b>Fl.G.</b> period 5s fl. 1.5s, ec. 3.5s	82 25	2	Gray metal framework tower; 39.	Visible 108°-294°.
19338 N 5774	-Coaster Harbor, entrance.	41° 39.1' N 41° 39.7' E	<b>FR.</b>	26 8	3	Brown metal framework tower; 20.	
19340 N 5776	Chorokh, entrance.	41° 36.7' N 41° 34.9' E	<b>Fl.R.</b> period 9s fl. 1.5s, ec. 7.5s	43 13	6	Red metal framework tower, white rectangular daymark, black stripe; 33.	Visible 015°-205°.
19344 N 5779	Boundary Range, front.	41° 31.3' N 41° 33.0' E	<b>Q.W.R.G.</b>	112 34	W. 14 R. 12 G. 12	Black metal pylon, orange rectangular daymark, white stripe; 89.	W. 027°-095°, R.-105°, W.- 115°, G.-125°, W.-190°. Reserve light range W. 12M, R. 8M, G. 7M. <b>AIS</b> (MMSI No 992711300).
19348 N 5779.1	--Rear, about 288 meters 110° from front.	41° 31.2' N 41° 33.2' E	<b>Oc.W.</b> period 4s fl. 3s, ec. 1s	197 60	14	Black metal pylon, white rectangular daymark, orange stripe; 102.	Visible 108°30'-111°30'.
<b>TURKEY-BLACK SEA</b>							
19352 N 5780	<b>Hopa.</b>	41° 22.4' N 41° 20.9' E	<b>Fl.(2)W.</b> period 15s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 9.6s	75 23	19	Concrete tower, dwelling; 39.	<b>AIS</b> (MMSI No 992711299).
19357 N 5780.5	-Outer breakwater, head.	41° 25.2' N 41° 25.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	10	White concrete tower; 29.	<b>AIS</b> (MMSI No 992711298).
19360 N 5780.6	-Lee, breakwater.	41° 24.9' N 41° 25.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	2	White concrete tower, red band; 30.	<b>AIS</b> (MMSI No 992711301).
19361 N 5779.5	Arhavi, Fishermans Shelter, main breakwater, head.	41° 21.1' N 41° 17.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711296).
19361.5 N 5779.51	--Secondary breakwater, head.	41° 21.1' N 41° 17.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711297).
19362 N 5781.1	Ardesen, breakwater, head.	41° 12.0' N 40° 59.6' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	6	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711321).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-BLACK SEA</b>							
19362.5 N 5781.2	-Inner breakwater, head.	41° 11.8' N 40° 59.5' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	6	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711322).
19364 N 5781	Pazar.	41° 11.1' N 40° 52.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	52 16	10	White metal pylon, castle; 13.	<b>AIS</b> (MMSI No 992711326).
19365 N 5780.7	-N. breakwater, head.	41° 10.9' N 40° 54.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	39 12	5	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711328).
19365.5 N 5780.8	-S. breakwater, head.	41° 10.9' N 40° 54.6' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	39 12	5	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711327).
19366 N 5781.51	Cayeli, S. breakwater, head.	41° 05.4' N 40° 43.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	6	White concrete tower, tripod; 26.	<b>AIS</b> (MMSI No 992711323).
RIZE:							
19368 N 5782	-Piriyos Burna.	41° 02.5' N 40° 30.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	72 22	18	White metal framework tower, four-sided concrete base; 59.	<b>AIS</b> (MMSI No 992711325).
19369 N 5782.5	Mitikayasi Br, breakwater, head.	41° 00.9' N 40° 21.7' E	<b>Fl.R.</b> period 5s	26 8	3	Concrete tower; 3.	
19370 N 5782.6	-S. breakwater.	41° 01.0' N 40° 21.7' E	<b>Fl.G.</b> period 5s	26 8	5	Concrete tower; 3.	
19384 N 5783	Arakli Burnu.	40° 57.4' N 40° 02.7' E	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	115 35	8	White metal pylon; 39.	<b>AIS</b> (MMSI No 992711342).
19385 N 5782.9	-N. breakwater, head.	40° 56.9' N 40° 03.3' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	5	White metal pylon; 26.	<b>AIS</b> (MMSI No 992711343).
19385.5 N 5782.95	-S. breakwater, head.	40° 57.0' N 40° 03.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	5	White metal pylon; 30.	<b>AIS</b> (MMSI No 992711344).
19388 N 5784	<b>Trabzon.</b>	41° 00.5' N 39° 43.9' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	102 31	17	Metal pylon, white concrete tower; 20.	<b>AIS</b> (MMSI No 992711345).
19392 N 5785	-Main breakwater, head.	41° 00.5' N 39° 44.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	7	White tower, green band; 23.	<b>AIS</b> (MMSI No 992711346).
19400 N 5785.6	-Secondary breakwater, head.	41° 00.2' N 39° 44.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	7	White tower, red band; 23.	<b>AIS</b> (MMSI No 992711347).
19404 N 5787	Incir Limani, pier, head.	41° 06.4' N 39° 25.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	4	Metal tower.	
19408 N 5786	<b>Isikli Burnu.</b>	41° 06.5' N 39° 25.1' E	<b>Fl.W.</b> period 10s fl. 0.4s, ec. 9.6s	82 25	18	White concrete tower, dwelling; 26.	<b>AIS</b> (MMSI No 992711348).
19412 N 5787.5	Eynesil.	41° 04.5' N 39° 10.0' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	95 29	10	White tower, black band; 20.	<b>AIS</b> (MMSI No 992711303).
19416 N 5787.8	Gorele, mole, head.	41° 02.1' N 39° 00.6' E	<b>Fl.G.</b> period 5s			White metal pylon; 19.	Fishing light.
19420 N 5788	Tirebolu.	41° 00.4' N 38° 49.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	102 31	7	White pylon, red bands; 26.	<b>AIS</b> (MMSI No 992711309).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-BLACK SEA</b>							
19424 N 5789	Cam Burnu.	40° 58.4' N 38° 38.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	52 16	10	White tower, black bands; 20.	<b>AIS</b> (MMSI No 992711304).
19428 N 5790	<b>Giresun</b> , NW. side of promontory.	40° 55.4' N 38° 23.5' E	<b>Fl.W.</b> period 15s fl. 1.5s, ec. 13.5s	364 111	18	White metal tower; 39.	<b>AIS</b> (MMSI No 992711305).
19432 N 5791	-N. breakwater.	40° 55.2' N 38° 22.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 13	7	White concrete tower; 33.	<b>AIS</b> (MMSI No 992711307).
19436 N 5792	-S. breakwater.	40° 55.0' N 38° 22.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711306).
19440 N 5789.4	Piraziz Burnu.	40° 57.1' N 38° 09.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	98 30	10	White metal tower; 33.	<b>AIS</b> (MMSI No 992711308).
19443 N 5792.9	Ordu, Yeni Iskele, head.	40° 59.8' N 37° 52.8' E	<b>Iso.Y.</b> period 2s	26 8	5	Metal framework structure; 20.	
19444 N 5793	Ordu (Piramet).	41° 00.9' N 37° 52.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	43 13	10	White tower, black band; 20.	<b>AIS</b> (MMSI No 992711315).
19445 N 5793.21	-Yalikoy (Efirli), main breakwater.	41° 01.2' N 37° 51.4' E	<b>F.G.</b>	39 12	5	Concrete tower; 26.	
19445.1 N 5793.3	--Secondary breakwater.	41° 01.1' N 37° 51.3' E	<b>F.R.</b>	36 11	5	Concrete tower; 26.	
19446 N 5793.5	Persembe.	41° 04.8' N 37° 46.8' E	<b>F.G.</b>	39 12	3	Concrete tower; 20.	
19447 N 5793.7	--S. breakwater, head.	41° 04.9' N 37° 46.6' E	<b>F.R.</b>	36 11	3	Concrete tower; 26.	
19448 N 5794	<b>Cam Burnu.</b>	41° 06.9' N 37° 47.2' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	127 39	18	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711316).
19450 N 5794.5	Mersin, breakwater.	41° 06.9' N 37° 45.9' E	<b>F.R.</b>	36 11	3		F.G. 3M shown on opposing breakwater.
19452 N 5795	Yasun Burnu.	41° 08.1' N 37° 41.1' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	36 11	8	White metal tower; 23.	<b>AIS</b> (MMSI No 992711317).
19453 N 5795.3	Yalikoy Fishermans Shelter, N. breakwater, head.	41° 03.1' N 37° 36.5' E	<b>F.R.</b>	43 13	3	Metal framework tower; 36.	<b>AIS</b> (MMSI No 992711313).
19453.1 N 5795.35	-S. breakwater, head.	41° 03.1' N 37° 36.5' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	43 13	3	White metal framework tower; 36.	<b>AIS</b> (MMSI No 992711314).
19454 N 5795.4	Bolaman Fishermans Shelter, N. breakwater, head.	41° 02.2' N 37° 35.2' E	<b>F.R.</b>	43 13	3	Metal framework tower; 26.	
19454.1 N 5795.45	-S. breakwater, head.	41° 02.2' N 37° 35.2' E	<b>F.G.</b>	36 11	3	Metal framework tower; 26.	
19456 N 5796	Fatsa Limani, on Fatsa Banki.	41° 03.6' N 37° 30.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	10	White metal framework tower; 16.	<b>AIS</b> (MMSI No 992711310).
19457 N 5796.2	-Shelter mole, head.	41° 02.7' N 37° 29.8' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711311).
19457.5 N 5796.4	-Secondary mole, head.	41° 02.5' N 37° 29.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711312).



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-BLACK SEA</b>							
19458 <i>N 5797</i>	Unye, breakwater, head.	41° 07.0' N 37° 21.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	39 12	7	White concrete tower; 23.	<b>AIS</b> (MMSI No 992711319).
19458.5 <i>N 5797.1</i>	-Secondary breakwater, head.	41° 07.0' N 37° 20.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	7	White concrete tower; 23.	<b>AIS</b> (MMSI No 992711320).
19460 <i>N 5798</i>	Unye, on Tashane Burun.	41° 08.5' N 37° 17.6' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	62 19	10	Metal tower, white concrete base; 26.	<b>AIS</b> (MMSI No 992711318).
19464 <i>N 5799</i>	Calti Burnu.	41° 15.7' N 37° 01.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	56 17	10	White metal framework tower, dwelling; 49.	<b>AIS</b> (MMSI No 992711334).
19468 <i>N 5800</i>	Civa Burnu.	41° 21.8' N 36° 41.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	76 23	10	White concrete tower; 59.	<b>AIS</b> (MMSI No 992711330).
19470 <i>N 5800.5</i>	-E.	41° 21.6' N 36° 42.5' E	<b>2 Fl.Y.</b> period 3s fl. 1s, ec. 2s	43 13	7	Yellow metal column; 39.	Marks pipeline.
19472 <i>N 5801</i>	Azot Sanayi.	41° 14.8' N 36° 27.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	26 8	3	White round tower, black band; 20.	
19473 <i>N 5801.1</i>	-W. jetty, N. head.	41° 15.1' N 36° 26.7' E	<b>Fl.(4)Y.</b> period 10s	33 10	5		
19473.1 <i>N 5801.2</i>	--S. head.	41° 14.8' N 36° 26.8' E	<b>Fl.(4)G.</b> period 10s	33 10	5		
19473.2 <i>N 5801.3</i>	-E. jetty, head.	41° 14.8' N 36° 26.7' E	<b>Fl.(4)R.</b> period 10s	33 10	5		
<b>SAMSUN:</b>							
19476 <i>N 5803</i>	-E. mole, head.	41° 18.5' N 36° 21.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 13	7	Concrete tower; 39.	<b>AIS</b> (MMSI No 992711332).
19480 <i>N 5802</i>	-N. mole.	41° 18.6' N 36° 21.3' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	49 15	7	Concrete tower; 36.	<b>AIS</b> (MMSI No 992711333). <b>Horn:</b> Mo.(A) 30s (bl. 0.75s, si. 1s, bl. 2.5s, si. 25.75s).
19484 <i>N 5802.2</i>	--Mole.	41° 18.6' N 36° 21.1' E	<b>F.G.</b>	23 7	5	White concrete tower; 10.	Visible 291°-111°.
19485 <i>N 5802.3</i>	-Fishermans Shelter.	41° 18.6' N 36° 20.6' E	<b>F.G.</b>	30 9	3	Concrete tower; 23.	
19488 <i>N 5803.4</i>	-Jetty, head.	41° 18.2' N 36° 20.5' E	<b>F.R.</b>	20 6	5	White metal tower; 10.	
19492 <i>N 5805</i>	Incir Burnu.	41° 37.4' N 36° 06.8' E	<b>Fl.(3)W.</b> period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	49 15	13	White metal framework tower; 39.	<b>AIS</b> (MMSI No 992711331).
19496 <i>N 5806</i>	<b>Bafra Burnu.</b>	41° 43.8' N 35° 56.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	82 25	20	White round metal framework tower, building; 82.	<b>AIS</b> (MMSI No 992711329).
19500 <i>N 5806.5</i>	Yakakent, E. mole.	41° 38.6' N 35° 30.2' E	<b>Fl.G.</b>	36 11			
19504 <i>N 5806.6</i>	-W. mole.	41° 38.4' N 35° 30.3' E	<b>Fl.R.</b>	26 8			
19508 <i>N 5807</i>	Gerze, Kosk Burnu.	41° 48.0' N 35° 12.4' E	<b>Fl.(2)W.</b> period 3s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1.4s	49 15	10	White concrete tower, black bands; 20.	<b>AIS</b> (MMSI No 992711338).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-BLACK SEA</b>							
19509 N 5807.1	-E. breakwater, head.	41° 47.9' N 35° 12.2' E	<b>F.G.</b>		36 11	3	
19510 N 5807.2	-W. breakwater, head.	41° 47.9' N 35° 12.1' E	<b>F.R.</b>		33 10	3	
19512 N 5808	Sinop, on Boztepe Burnu.	42° 01.1' N 35° 12.5' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s		351 107	10	White stone tower, dwelling; 13. <b>AIS</b> (MMSI No 992711340). <b>Siren:</b> 3 bl. ev. 32s (bl. 1s, si. 1s, bl. 1s, si. 1s, bl. 2.5s, si. 25.5s).
19516 N 5808.5	-On mole.	42° 01.3' N 35° 08.7' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s		23 7	2	Concrete tower; 16.
19520 N 5808.4	-Fishing harbor.	42° 01.3' N 35° 09.1' E	<b>Iso.Y.</b> period 2s		26 8	5	Round metal mast. F.R. on tower 480 meters N.
19528 N 5809	Ak-Liman.	42° 03.1' N 35° 02.9' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s		66 20	6	White concrete tower; 16. <b>AIS</b> (MMSI No 992711339).
19532 N 5810	<b>Ince Burun.</b>	42° 05.6' N 34° 57.0' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s		85 26	18	White stone tower, dwelling; 39. <b>AIS</b> (MMSI No 992711341).
19534 N 5810.5	Cayhoglu harbor, N. breakwater, head.	41° 58.0' N 34° 30.5' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s		23 7	7	White concrete tower; 16. <b>AIS</b> (MMSI No 992711336).
19534.5 N 5810.6	-S. breakwater, head.	41° 58.0' N 34° 30.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s		23 7	7	White concrete tower; 16. <b>AIS</b> (MMSI No 992711337).
19536 N 5811	Ayancik, on Usta Burun.	41° 58.4' N 34° 30.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s		89 27	10	White framework tower, concrete base; 20. <b>AIS</b> (MMSI No 992711335).
19544 N 5812	Inebolu, on point.	41° 58.6' N 33° 46.0' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s		125 38	12	White concrete tower, dwelling; 30. <b>AIS</b> (MMSI No 992711008).
19548 N 5813	-N. breakwater, head.	41° 58.9' N 33° 46.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s		46 14	5	White concrete tower; 46. <b>AIS</b> (MMSI No 992711009).
19556 N 5816	<b>Kerempe Burnu.</b>	42° 01.1' N 33° 20.7' E	<b>Fl.W.</b> period 20s		269 82	20	White round tower, dwelling; 26. <b>AIS</b> (MMSI No 992711011). <b>Siren:</b> 3 bl. ev. 32s (bl. 1s, si. 1s, bl. 1s, si. 1s, bl. 2.5s, si. 25.5s).
19560 N 5816.5	Kopekkayasi Burnu.	41° 54.3' N 32° 59.4' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s		666 203	10	White concrete tower; 23. <b>AIS</b> (MMSI No 992711012).
19564 N 5816.55	-N. breakwater, head.	41° 54.1' N 32° 58.4' E	<b>F.R.</b>		30 9	3	White concrete tower; 30. <b>AIS</b> (MMSI No 992711013).
19568 N 5816.6	-Sheltered breakwater, head.	41° 54.1' N 32° 59.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s		30 9	8	White concrete tower; 30. <b>AIS</b> (MMSI No 992711014).
19572 N 5816.7	Kurucasile, on Kapt Suyu.	41° 50.7' N 32° 43.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s		135 41	8	White concrete tower; 26. <b>AIS</b> (MMSI No 992711015).
19576 N 5817	<b>Amasra.</b>	41° 45.2' N 32° 23.0' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s		252 77	20	White stone tower, dwelling; 13. <b>AIS</b> (MMSI No 992711016).
19580 N 5818	-S. breakwater, head.	41° 44.7' N 32° 23.7' E	<b>Fl.R.</b> period 6s fl. 1s, ec. 5s		39 12	10	White metal tower; 20. <b>AIS</b> (MMSI No 992711018).
19584 N 5817.5	-N. mole, head.	41° 44.9' N 32° 23.9' E	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s		46 14	10	White metal tower; 33. <b>AIS</b> (MMSI No 992711017).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-BLACK SEA</b>							
19585 <i>N 5818.3</i>	Tarlaagzi, N. breakwater, head.	41° 43.5' N 32° 20.3' E	<b>F.G.</b>		3		
19585.1 <i>N 5818.31</i>	-S. breakwater, head.	41° 43.4' N 32° 20.3' E	<b>F.R.</b>		3		
<b>BARTIN LIMANI:</b>							
19588 <i>N 5818.4</i>	-Demirli Burnu.	41° 40.8' N 32° 13.8' E	<b>Fl.(2)W.</b> period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	230 <b>70</b>	10	White concrete tower; 33.	<b>AIS</b> (MMSI No 992711023).
19591 <i>N 5818.51</i>	-Kapakli Burnu, N. breakwater.	41° 41.3' N 32° 14.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	33 <b>10</b>	10	White metal pylon; 26.	Visible 068°-073°. <b>AIS</b> (MMSI No 992711302).
19592 <i>N 5818.5</i>	-N. breakwater, head.	41° 41.2' N 32° 13.4' E	<b>Fl.(2)R.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 <b>10</b>	10	White concrete tower, concrete base; 23.	<b>AIS</b> (MMSI No 992711020).
19596 <i>N 5818.6</i>	-S. breakwater, head.	41° 41.2' N 32° 13.6' E	<b>Fl.(3)G.</b> period 10s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 7s	33 <b>10</b>	8	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711019).
19598 <i>N 5818.62</i>	--W. head.	41° 41.1' N 32° 13.5' E	<b>Q.G.</b>	36 <b>11</b>	8	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711022).
19604 <i>N 5819</i>	Hisaronu, pier, head.	41° 33.7' N 32° 00.6' E	<b>F.R.</b>	26 <b>8</b>	4	White column; 20.	
19606 <i>N 5819.4</i>	Mancar Agzi.	41° 31.4' N 31° 53.7' E	<b>Fl.R.</b> period 3s		3		Fl.G. marks pier close SE.
19607	Eren Limani.	41° 31.0' N 31° 54.2' E	<b>Fl.R.</b> period 5s	33 <b>10</b>	5		
19607.5	-S. breakwater, head.	41° 31.3' N 31° 54.2' E	<b>Fl.G.</b> period 5s	30 <b>9</b>	5		
<b>ZONGULDAK LIMANI:</b>							
19608 <i>N 5820</i>	<b>-Zonguldak Burun.</b>	41° 27.8' N 31° 47.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	173 <b>53</b>	20	White concrete tower, dwelling; 30.	<b>AIS</b> (MMSI No 992711025).
19612 <i>N 5823</i>	-Range, front.	41° 27.6' N 31° 47.3' E	<b>F.Bu.</b>		1	Platform; 46.	
19616 <i>N 5823.1</i>	--Rear, 25 meters 080°15' from front.	41° 27.6' N 31° 47.3' E	<b>F.Bu.</b>		1	Pole; 125.	
19620 <i>N 5823.6</i>	-W. breakwater, head.	41° 27.4' N 31° 47.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	52 <b>16</b>	10	Metal framework tower, white concrete base; 33.	<b>AIS</b> (MMSI No 992711027).
19624 <i>N 5823.5</i>	-N. breakwater, head.	41° 27.4' N 31° 46.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	62 <b>19</b>	10	Metal framework tower, white concrete base; 39.	<b>AIS</b> (MMSI No 992711026).
19625 <i>N 5825.5</i>	-Kozlu, outer breakwater, head.	41° 26.4' N 31° 44.7' E	<b>Fl.R.</b>	36 <b>11</b>	5		
19625.1 <i>N 5825.6</i>	--Inner breakwater, head.	41° 26.4' N 31° 44.8' E	<b>Fl.G.</b>	33 <b>10</b>	5		
19632 <i>N 5826</i>	<b>Oluce Burnu.</b>	41° 18.6' N 31° 23.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	256 <b>78</b>	15	White stone tower, dwelling; 30.	<b>AIS</b> (MMSI No 992711028).

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<b>TURKEY-BLACK SEA</b>							
EREGLI LIMANI:							
19640 N 5827	-Old Port, W. breakwater, head.	41° 16.7' N 31° 24.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	8	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711029). <b>Siren:</b> 1 bl. ev. 10s (bl. 2s, si. 8s).
19644 N 5827.2	--E. breakwater, W. head.	41° 17.0' N 31° 24.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	16 5	5	Cylindrical metal tower; 13.	<b>AIS</b> (MMSI No 992711030).
19648 N 5827.4	---E. head.	41° 16.9' N 31° 24.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	16 5	8	Cylindrical metal tower; 13.	<b>AIS</b> (MMSI No 992711031).
19652 N 5828	-New port (Uzun Kum), outer breakwater, head.	41° 16.1' N 31° 24.7' E	<b>Fl.(2)G.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 11	7	Concrete tower, white hexagonal building; 20.	<b>Radar reflector.</b>
19656 N 5828.2	--Inner breakwater, head.	41° 16.1' N 31° 25.1' E	<b>Fl.(2)R.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	3	Concrete tower, white hexagonal building; 10.	
19658 N 5829.3	Akckoca. Kale.	41° 05.3' N 31° 05.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	49 15	10	Metal tower, white concrete base; 30.	
19658.5 N 5829	-Breakwater, head.	41° 05.7' N 31° 07.9' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 13	10	White concrete tower; 30.	<b>AIS</b> (MMSI No 992711032).
19659 N 5829.4	Karasu Harbor, breakwater, head.	41° 07.4' N 30° 41.0' E	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	5	White tower, green bands; 23.	
19660 N 5829.5	Sakarya, W. side of river entrance.	41° 07.6' N 30° 39.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	6	Metal framework tower, white concrete base; 26.	<b>AIS</b> (MMSI No 992711035).
19664 N 5830	Kefken Adasi, near W. extremity.	41° 12.9' N 30° 15.1' E	<b>Fl.W.</b> period 10s fl. 1.5s, ec. 8.5s	79 24	14	Observation tower; 33.	<b>AIS</b> (MMSI No 992711068). <b>Horn (2):</b> 2 bl. ev. 20s (bl. 3s, si. 3s, bl. 3s, si. 11s).
RACON			<b>K(- • -)</b>				
19666 N 5830.7	Asagi Kovanagzi, breakwater, head.	41° 10.8' N 30° 13.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6	5	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711069).
19668 N 5830.4	-W. mole, head.	41° 12.8' N 30° 15.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	5	White metal framework tower; 16.	Visible 177°-125°. <b>AIS</b> (MMSI No 992711066).
19672 N 5830.2	-E. mole, head.	41° 12.8' N 30° 15.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	5	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711067).
19677 N 5831.4	-Shelter, N. breakwater, head.	41° 08.4' N 29° 51.3' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	3	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711041).
19678 N 5831.42	--S. breakwater, head.	41° 08.0' N 29° 51.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	23 7	3	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711042).
19680 N 5832	<b>Sile Burnu.</b>	41° 10.5' N 29° 37.0' E	<b>Fl.W.</b> period 15s fl. 1.5s, ec. 13.5s	197 60	21	White stone tower, black bands, building; 62.	<b>AIS</b> (MMSI No 992711038).
19684 N 5832.4	Sile Limani, N. mole, head.	41° 10.7' N 29° 35.8' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 13	8	White concrete tower; 20.	
19688 N 5833	Anadolu Karaburun.	41° 12.9' N 29° 23.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	141 43	10	White metal tripod, observation tower; 26.	<b>AIS</b> (MMSI No 992711037).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-BLACK SEA</b>							
19692 N 5834	Esek Adasi.	41° 14.0' N 29° 13.6' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	98 30	10	White metal framework tower; 26.	<b>AIS</b> (MMSI No 992711189).
<b>TURKEY-GREECE</b>							
19696 N 4588	<b>Baba Burnu</b> (T).	39° 28.8' N 26° 03.9' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	105 32	<b>18</b>	White metal framework tower; 33.	<b>AIS</b> (MMSI No 992711128).
	RACON		<b>K(- • -)</b>				
19697 N 4589	-Outer breakwater, head.	39° 28.4' N 26° 04.0' E	<b>Fl.R.</b> period 4s	39 12	5		
19697.5 N 4589.5	-Inner breakwater, head.	39° 28.6' N 26° 04.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	5	White concrete tower, green band; 30.	
19700 N 4590	<b>Sivrice Burnu</b> (T).	39° 27.9' N 26° 14.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	59 18	10	White concrete tower, dwelling; 39.	<b>AIS</b> (MMSI No 992711129).
19702 N 4590.2	Kucukkuyu, W. breakwater.	39° 32.7' N 26° 36.3' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30 9	3	White tower, red band; 20.	
19703 N 4590.4	Altinoluk, breakwater.	39° 33.9' N 26° 44.6' E	<b>F.R.</b>	33 10	3	Concrete tower; 23.	
19704 N 4591	Edremit Korfezi (T), Kara Burnu.	39° 33.5' N 26° 50.1' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	12	White concrete tower; 43.	
	RACON		<b>N(- •)</b>				
19705 N 4591.2	-Akeay.	39° 34.9' N 26° 55.3' E	<b>Fl.(4)Y.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	26 8	5	Yellow round tower; 20.	
19706 N 4591.5	-Burhaniye Oren, W. breakwater, head.	39° 29.2' N 26° 55.6' E	<b>Fl.G.</b> period 3s				
19708 N 4592	-Boz Burun.	39° 26.3' N 26° 48.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	115 35	10	White metal tower; 33.	Visible 080°-292°. <b>AIS</b> (MMSI No 992711130).
	NISOS LESVOS (GR.):						
19712 N 4603	-Plomarion, E. breakwater, head.	38° 58.4' N 26° 22.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band; 20.	
19716 N 4602	--W. breakwater, head.	38° 58.3' N 26° 22.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band; 18.	
19720 N 4599	-Nisos Garbia, N. end of island.	39° 04.6' N 26° 04.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	76 23	6	White round hut, column; 20.	
19724 N 4600	-Kolpos Kallonis, Skala Polikhniton.	39° 06.1' N 26° 10.1' E	<b>F.R.</b>	23 7	3	White metal column, red band; 20.	
19725 N 4600.4	--S. mole, head.	39° 06.1' N 26° 10.1' E	<b>F.G.</b>	23 7	3	White metal column, green band; 20.	

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<b>TURKEY-GREECE</b>							
19732 <i>N 4598</i>	-Nisis Sigrí.	39° 12.7' N 25° 49.8' E	<b>Fl.(2)W.</b> period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	174 53	21	Round tower, dwelling; 43.	
19736 <i>N 4598.2</i>	-Akra Saratsina.	39° 11.3' N 25° 50.1' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	75 23	W. 5 R. 3	Metal framework structure; 16.	W. 000°-122°, R.-160°, W.-219°, R.-270°.
19740 <i>N 4595</i>	-Akra Molivos.	39° 22.8' N 26° 11.2' E	<b>L.Fl.W.G.</b> period 10s fl. 2.5s, ec. 7.5s	89 27	W. 12 G. 8	White lantern; 16.	W. 068°-219°, G.-239°, W.-263°.
19744 <i>N 4596.1</i>	-Mithimna Molivos, bay, head.	39° 22.1' N 26° 10.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7		Metal framework structure, gallery, red band.	
19748 <i>N 4597</i>	--Nisis Gavadhes.	39° 18.1' N 26° 01.5' E	<b>Fl.W.</b> period 2s fl. 0.2s, ec. 1.8s	49 15		White metal framework structure; 26.	
19752 <i>N 4594</i>	-Akra Korakas.	39° 23.3' N 26° 20.5' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	46 14	W. 11 R. 8	White lantern; 16.	W. 087°-104°, R.-119°, W.-299°.
19754 <i>N 4609</i>	-Nisis Panagia.	39° 18.8' N 26° 26.9' E	<b>Fl.W.</b> period 10s fl. 0.5s, ec. 9.5s	72 22		White metal column; 7.	
19756 <i>N 4607</i>	-Mitilini, Limin Alri Kastro, promontory.	39° 06.7' N 26° 34.0' E	<b>Fl.(3)W.</b> period 14s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 9.6s	69 21		White metal framework structure, dwelling; 20.	Visible 122°-027°.
19760 <i>N 4607.6</i>	--Breakwater, head.	39° 05.9' N 26° 33.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	46 14		White hexagonal hut, gallery, column, green band; 26.	
19761 <i>N 4607.8</i>	--Breakwater, NE. head.	39° 05.9' N 26° 33.7' E	<b>Fl.R.</b> period 3s fl. 0.4s, ec. 2.6s	36 11		Metal framework structure, gallery, metal column, red band; 25.	
19762 <i>N 4607.9</i>	---SW. head.	39° 05.8' N 26° 33.6' E	<b>Q.G.</b>	36 11		Metal framework structure, gallery, metal column, green band; 26.	
19764 <i>N 4608.4</i>	--N. side entrance to S. port.	39° 06.3' N 26° 33.6' E	<b>Fl.G.</b> period 1.5s fl. 0.2s, ec. 1.3s	29 9		White hexagonal hut, gallery, column, green band; 23.	
19768 <i>N 4608</i>	--Notio Limin, side entrance.	39° 06.3' N 26° 33.6' E	<b>Fl.R.</b> period 1.5s fl. 0.3s, ec. 1.2s	29 9		White hexagonal hut, column, red band; 20.	
19770 <i>N 4607.7</i>	--S. mole, head.	39° 05.7' N 26° 33.5' E	<b>Q.R.</b>	16 5		Metal framework structure, gallery, metal column, red band.	
19772 <i>N 4605</i>	-Akra Malea (Aghriliós).	39° 00.6' N 26° 36.4' E	<b>Fl.(2)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	170 52		White pyramidal structure, gallery; 13.	Visible 210°-102°.
19776 <i>N 4606</i>	-Perama, pier, head.	39° 02.6' N 26° 30.4' E	<b>2 F.R.</b> (vert.)	16 5		White metal column; 23.	1 meter apart.
<b>MITILINI STRAIT (T):</b>							
19780 <i>N 4610</i>	-Gunes Adasi, N. end of strait.	39° 19.6' N 26° 32.5' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	216 66		White concrete tower; 16.	<b>AIS</b> (MMSI No 992711146).
19784 <i>N 4611</i>	-Yumurta Adasi.	39° 19.2' N 26° 31.6' E	<b>Iso.R.</b> period 2s	62 19		White metal framework tower; 13.	<b>AIS</b> (MMSI No 992711145).
19788 <i>N 4612</i>	-Ciplakada. Fener Burna.	39° 17.0' N 26° 36.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	59 18		White metal tower; 13.	<b>AIS</b> (MMSI No 992711144).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-GREECE</b>							
19792 N 4613	-Ayvalik, on Korkut Burnu.	39° 18.8' N 26° 37.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	59 18	7	White metal framework tower; 30.	<b>AIS</b> (MMSI No 992711143).
19796 N 4614	-Ayvalik Limani, Dalyan Bogazi, Alibey Adazi, off S. point.	39° 19.3' N 26° 38.1' E	<b>V.Q.(6)+L.Fl.W.</b> period 15s	16 5	7	S. CARDINAL YB, beacon, topmark; 13.	Maintained by local authorities. Channel into Ayvalik marked by 3 Fl.R. lights on N. side and 3 Fl.G. on S. side. <b>AIS</b> (MMSI No 992711183).
19798 N 4615.3	-Dolap Adasi.	39° 20.8' N 26° 40.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	8	White metal post; 10.	<b>AIS</b> (MMSI No 992711142).
19799 N 4615.22	-Alibey Adasi.	39° 19.8' N 26° 39.4' E	<b>F.R.</b>	33 10	3	Concrete tower; 23.	
19799.3 N 4615.24	-Yat Limani.	39° 19.0' N 26° 41.3' E	<b>Fl.G.</b> period 5s fl. 0.3s, ec. 4.7s	33 10	5	Concrete tower; 23.	
19799.5 N 4615.26	--Tower.	39° 18.8' N 26° 41.3' E	<b>Fl.R.</b> period 5s fl. 0.3s, ec. 4.7s	33 10	5	Concrete tower; 23.	
19799.6 N 4615.35	-Kurbaga Burnu, breakwater, head.	39° 13.6' N 26° 43.2' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	10 3	3	Metal pylon; 20.	
19800 N 4615.4	-Madra Cayi.	39° 10.3' N 26° 46.0' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	36 11	10	White metal framework tower; 33.	<b>AIS</b> (MMSI No 992711185).
19804 N 4615.5	Dikili, breakwater, SW arm.	39° 04.3' N 26° 53.1' E	<b>F.R.</b>	30 9	4	White metal mast; 16.	F.R. marks NW arm.
19804.5 N 4615.51	-Jetty, head.	39° 04.3' N 26° 53.1' E	<b>Fl.Y.</b> period 4s fl. 1s, ec. 3s	33 10	3	SPECIAL Y, post, "X" topmark; 26.	
19808 N 4615.6	Adatepe Burnu.	39° 01.2' N 26° 48.2' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	102 31	W. 7 R. 4	White metal tower; 23.	W. 240°-102°, R.-120°, W.- 140°, R.-156°, W.-175°. <b>AIS</b> (MMSI No 992711134).
19810 N 4604	Nisis Profilaki.	38° 58.4' N 26° 32.5' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	89 27	6	White round hut; 13.	Visible 200°-075°.
CANDARLI KORFEZI (T):							
19812 N 4616.2	-Pirasa Adasi, summit.	38° 51.9' N 26° 53.6' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	144 44	12	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711169).
19816 N 4616	-Tavson Adasi.	38° 51.1' N 26° 53.2' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	200 61	10	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711168).
19822 N 4616.3	-Ilica Burnu.	38° 49.5' N 26° 53.7' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	164 50	9	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711170).
19822.01 N 4616.32	-Aegean Gas Pier, SW head.	38° 49.4' N 26° 54.9' E	<b>Fl.(3)Y.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	5	Yellow metal post; 16.	
19822.02 N 4616.33	--NE. head.	38° 49.2' N 26° 54.8' E	<b>Fl.(3)Y.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	5	Yellow metal post; 16.	

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<b>TURKEY-GREECE</b>							
19822.1 N 4616.35	--E. jetty, head.	38° 49.7' N 26° 55.1' E	<b>Fl.Y.</b> period 4s		3		
19823 N 4616.7	--Fuel jetty, NE. end.	38° 49.6' N 26° 56.9' E	<b>Fl.(3)Y.</b> period 6s		5		
19823.1 N 4616.72	---SW. end.	38° 49.3' N 26° 56.8' E	<b>Fl.(4)Y.</b> period 10s		5		
19824 N 4616.4	-Aliaga Limani, W. entrance point, Tasli Burnu.	38° 50.1' N 26° 56.7' E	<b>Q.G.</b>	36 11	5	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711171).
19824.1 N 4616.6	--E. entrance point, Tuzla Burnu.	38° 49.9' N 26° 58.0' E	<b>Q.R.</b>	26 8	5	White round metal tower; 20.	<b>AIS</b> (MMSI No 992711172).
19825 N 4616.9	-Nemrut Bay, Habas, jetty, head.	38° 45.9' N 26° 54.8' E	<b>Fl.R.</b>				
19825.1 N 4616.92	--Aegean Steel, jetty, head.	38° 45.9' N 26° 55.2' E	<b>Fl.(3)Y.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	62 19	5	Post; 49.	
19826 N 4616.95	--Baticim, jetty, head.	38° 45.9' N 26° 55.0' E	<b>F.R.</b>				
19827 N 4617	--W. pier, head.	38° 45.4' N 26° 55.7' E	<b>Fl.(2+1)R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	33 10	3	Red post, white bands; 23.	
19828.1 N 4617.1	--Cakmakli.	38° 45.4' N 26° 55.7' E	<b>F.R.</b>	98 30	3	Tank.	
19829 N 4617.45	--Nemport Terminal.	38° 46.1' N 26° 55.8' E	<b>Mo.(U)Y.</b> period 15.75s	26 8	5		<b>AIS</b> (MMSI No 992711409).
19830 N 4617.6	-Breakwater, W. head.	38° 46.5' N 26° 55.8' E	<b>F.R.</b>	23 7	2		
19832 N 4617.5	-Petkim Refinery, breakwater, head.	38° 46.7' N 26° 55.4' E	<b>F.R.</b>	23 7	2	Metal framework tower; 20.	
IZMIR KORFEZI (T.):							
19836 N 4621	-Eski Saip, on Buyukada.	38° 39.7' N 26° 31.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 25	10	Metal framework pylon; 33.	<b>AIS</b> (MMSI No 992711179).
19837 N 4621.2	-Mordogan, W. breakwater, head.	38° 31.1' N 26° 37.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	26 8	5	White metal tower; 20.	<b>AIS</b> (MMSI No 992711177).
19837.1 N 4621.3	--E. breakwater, head.	38° 31.1' N 26° 37.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	5	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711178).
19837.2 N 4621.4	-Fisherman's Harbor, W. breakwater, head.	38° 30.8' N 26° 38.0' E	<b>F.R.</b>	33 10	3	White concrete tower; 23.	
19837.3 N 4621.45	--E. breakwater, head.	38° 30.7' N 26° 38.1' E	<b>F.G.</b>	33 10	3	White concrete tower; 26.	
19838 N 4617.9	-Aslan Burnu.	38° 44.4' N 26° 44.4' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	131 40	10	White metal tower; 26.	<b>AIS</b> (MMSI No 992711176).
19840 N 4618	-Foca, Oglak Adasi.	38° 40.5' N 26° 42.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	82 25	10	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711175).
19844 N 4620	--Degirmen Burnu.	38° 40.0' N 26° 44.7' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	56 17	10	White metal tower; 36.	<b>AIS</b> (MMSI No 992711174).



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<b>TURKEY-GREECE</b>							
19848 N 4621.6	-Leventler Limani.	38° 38.1' N 26° 45.2' E	<b>F.R.</b>	26 8	2	Red tower, concrete pedestal.	
19852 N 4621.62	--Tower.	38° 38.0' N 26° 45.6' E	<b>F.G.</b>	26 8	2		
19856 N 4621.5	-Azaplar Kayalari.	38° 37.1' N 26° 44.7' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	12	White metal tower; 23.	<b>AIS</b> (MMSI No 992711173).
19860 N 4623	-Cigli Airfield.	38° 31.0' N 27° 00.4' E	<b>Al.FI.W.G.</b> period 10s	161 49	10	Control tower; 85.	
19864 N 4622	-Uzun Ada, NE. point.	38° 32.4' N 26° 42.9' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	164 50	12	White metal framework tower; 20.	Q.R. shown from radio masts, 2.8 km. 150° and 7.4 km. 168° respectively. <b>AIS</b> (MMSI No 992711191).
19866 N 4622.1	Nergis Island.	38° 28.5' N 26° 41.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	10	White metal framework tower; 16.	<b>AIS</b> (MMSI No 992711160).
19867 N 4622.8	-Camalti, pier, head.	38° 25.7' N 26° 56.6' E	<b>F.R.</b>	20 6		Metal mast; 13.	
19868 N 4622.3	Kortas Island.	38° 25.2' N 26° 47.7' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	23 7	10	White metal framework pylon; 16.	<b>AIS</b> (MMSI No 992711158).
19870 N 4622.4	-Urla.	38° 21.9' N 26° 46.3' E	<b>F.G.</b>	23 7	3	White metal framework tower; 16.	<b>AIS</b> (MMSI No 992711157).
19870.1 N 4622.66	-Waterside Fisherman's Refuge, main mole.	38° 22.7' N 26° 52.6' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	5	Galvanized metal tower; 23.	
19870.2 N 4622.67	--Secondary mole.	38° 22.7' N 26° 52.7' E	<b>Fl.(2)G.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	5	Galvanized metal tower; 20.	
19871 N 4622.7	<b>-Guzelbahce.</b>	38° 22.7' N 26° 53.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	18	White framework tower; 33.	<b>AIS</b> (MMSI No 992711156).
19871.1 N 4622.75	--Sehitlik Isk.	38° 22.8' N 26° 53.6' E	<b>Fl.(3)G.</b> period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	23 7	5	White round tower, 3 green bands.	
19873 N 4625	-Goztepe, marina, W. wall.	38° 24.4' N 27° 04.1' E	<b>Fl.(2)G.</b> period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 3.8s	30 9	3	White iron tower; 23.	
19873.1 N 4625.1	---E. wall.	38° 24.4' N 27° 04.2' E	<b>Fl.(2)R.</b> period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 3.8s	26 8	3	White iron tower; 23.	
19874 N 4625.4	--E. pier.	38° 24.4' N 27° 04.2' E	<b>Fl.(2)G.</b> period 5s	33 10	5		
19874.1 N 4625.6	--SE. pier.	38° 24.3' N 27° 04.3' E	<b>Fl.(2)R.</b> period 5s	43 13	5		
19875 N 4627.3	-Konak, pier, head.	38° 25.1' N 27° 07.5' E	<b>Fl.(2)Y.</b> period 5s	39 12	5		
19876 N 4626	-Izmir, breakwater, N. head.	38° 25.8' N 27° 07.8' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	10	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711148).

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<b>TURKEY-GREECE</b>							
19880 <i>N 4627</i>	--S. head.	38° 25.3' N 27° 07.5' E	<b>Fl.(2)R.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	10	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711147).
19884 <i>N 4628</i>	--Pier, head.	38° 25.8' N 27° 07.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	5	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711149).
19884.1 <i>N 4628.55</i>	-Daragac Burnu, S. pier, head.	38° 26.3' N 27° 08.5' E	<b>Fl.(2)Y.</b> period 5s	23 7	5		
19885 <i>N 4628.6</i>	-Alsancak Limani.	38° 26.8' N 27° 08.9' E	<b>Fl.(2+1)G.</b> period 12s	30 9	5	White round tower.	
19885.1 <i>N 4628.65</i>	-Umrubey, W. head.	38° 26.8' N 27° 09.3' E	<b>Fl.(2+1)R.</b> period 12s	30 9	5	White round tower.	
19885.2 <i>N 4628.68</i>	--E. head.	38° 26.7' N 27° 09.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	5	White round tower.	
19892 <i>N 4628.7</i>	-Turan, pier, head.	38° 27.8' N 27° 09.0' E	<b>F.R.</b>		2		
19893 <i>N 4628.58</i>	-Karsiyaka, Donanmaci, pier, head.	38° 27.3' N 27° 07.2' E	<b>Fl.(2)Y.</b> period 5s	33 10	5		
19894 <i>N 4628.575</i>	--Aksoy, NE. pier, head.	38° 27.1' N 27° 05.9' E	<b>Fl.(2)G.</b> period 5s	33 10	5		
19894.1 <i>N 4628.57</i>	---E. pier, head.	38° 27.1' N 27° 05.9' E	<b>Fl.(2)R.</b> period 5s	69 21	5		
19896 <i>N 4630</i>	Kara Burnu.	38° 39.6' N 26° 21.8' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	318 97	12	White concrete tower, dwelling; 43.	Visible 045°-225°. <b>AIS</b> (MMSI No 992711180).
	RACON		<b>N(- •)</b>		20		(3 & 10cm).
NISOS PSARA (GR.):							
19900 <i>N 4632</i>	-Akra Ayios Yeoryiou.	38° 32.2' N 25° 36.6' E	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	255 78	18	Round tower, dwelling; 49.	
19904 <i>N 4634</i>	-Ormar Psaron, E. mole, head.	38° 32.4' N 25° 34.1' E	<b>Fl.R.</b> period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	White hexagonal hut, gallery, column, red band; 23.	
19905 <i>N 4634.5</i>	-Limena Psaron, inner mole, head.	38° 32.4' N 25° 33.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
NISOS KHIOS (GR.):							
19908 <i>N 4638</i>	-Nisis Gevtis.	38° 36.3' N 26° 01.8' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	108 33	11	White lantern; 13.	
19911 <i>N 4650.2</i>	-Ormos Volissos, outer mole, head.	38° 28.0' N 25° 55.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band; 20.	
19911.5 <i>N 4650.1</i>	--Inner mole, head.	38° 28.1' N 25° 55.1' E	<b>Fl.R.</b> period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal framework structure, gallery, metal column, red band; 20.	
19912 <i>N 4650</i>	--E. mole, head.	38° 28.1' N 25° 55.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-GREECE</b>							
19916 <i>N 4649</i>	-Mesta, on Akra Oura.	38° 18.0' N 25° 55.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	43 13	7	White metal framework structure; 18.	
19918 <i>N 4649.4</i>	--Inner harbor, starboard hand.	38° 17.8' N 25° 55.6' E	<b>Q.G.</b>	33 10	2	White round hut, green band; 33.	
19918.1 <i>N 4649.6</i>	---Port hand.	38° 17.7' N 25° 55.7' E	<b>Q.R.</b>	33 10	3	White hexagonal hut, gallery, column, red band; 26.	
19924 <i>N 4648</i>	Nisis Venetiko (Gr.), Nisos Khios, S. coast.	38° 07.6' N 26° 00.8' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	256 78	12	White lantern; 13.	Visible 217°-132°.
19928 <i>N 4647.86</i>	-Vokarias. S. mole, head.	38° 33.7' N 26° 06.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
19930 <i>N 4647.8</i>	-Kataraktis. S. mole, head.	38° 32.7' N 26° 06.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, metal column, red band.	
19932 <i>N 4647.71</i>	--S. mole, head.	38° 33.2' N 26° 09.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, metal column, red band.	
19932.1 <i>N 4647.7</i>	-Ayia Ermioni, N. mole, head.	38° 18.0' N 26° 09.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	
19934 <i>N 4647.5</i>	-Akra Ayia Eleni, mole, head.	38° 19.9' N 26° 09.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
19938 <i>N 4643.5</i>	--N. breakwater, head.	38° 22.2' N 26° 08.7' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	12	White hexagonal hut, gallery, column, green band; 23.	
19938.1 <i>N 4646</i>	--S. breakwater, head.	38° 22.1' N 26° 08.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	33 10	12	White hexagonal hut, gallery, column, red band; 26.	
19942 <i>N 4643.25</i>	-Khios Marina. E. mole, head (Chios).	38° 23.4' N 26° 08.4' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
19944 <i>N 4643</i>	-Ormos Kolokithias, Langadha, on point.	38° 30.7' N 26° 13.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
19946 <i>N 4642</i>	-Vrakhonisis Strovilo.	38° 33.1' N 26° 09.8' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	239 73	10	White lantern; 13.	
19948 <i>N 4640</i>	-Vrakonisi Margariti, Ormos Marmaro, entrance.	38° 30.5' N 26° 13.1' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	102 31	5	Metal framework structure; 13.	
19950 <i>N 4640.5</i>	--Kardamyla, pier, head.	38° 32.7' N 26° 06.6' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure, gallery, metal column; 13.	
NISOS OINOUSSA:							
19952 <i>N 4652</i>	--Prasso, summit.	38° 28.8' N 26° 07.6' E	<b>Fl.(2)W.R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	55 17	W. 6 R. 4	White lantern; 13.	W. 323°-301°, R.-323°.
19956 <i>N 4653</i>	--Mandhraki.	38° 22.3' N 26° 08.5' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	62 19	4	Metal framework structure; 16.	
19958 <i>N 4653.2</i>	--Breakwater, head.	38° 30.8' N 26° 13.1' E	<b>Q.G.</b>	30 9	3	White metal framework structure, gallery, green band; 20.	
19959 <i>N 4653.3</i>	--S. mole, head.	38° 30.6' N 26° 13.2' E	<b>Q.R.</b>	26 8	3	White hexagonal hut, gallery, column, red band; 20.	

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<b>TURKEY-GREECE</b>							
19960 N 4653.5	--Inner mole, head.	38° 22.2' N 26° 08.7' E	<b>F.G.</b>	16	5	3	White concrete column, green band; 13.
19968 N 4654	Nisidha Pasas	38° 30.1' N 26° 17.5' E	<b>Fl.(2)W.</b> period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	226	69	11	Round tower, dwelling; 23.
<b>ILDIR KORFEZI:</b>							
19970 N 4655.5	-Ufak Island (T.), N. point.	38° 23.5' N 26° 25.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46	14	8	White metal framework tower; 33. <b>AIS</b> (MMSI No 992711181).
19972 N 4656.4	-Altin Yunus, yacht harbor, breakwater, head.	38° 19.5' N 26° 20.8' E	<b>Fl.R.</b> period 5s			5	
19972.1 N 4656.6	--Breakwater, head.	38° 19.5' N 26° 20.8' E	<b>Fl.G.</b> period 5s			5	
19973 N 4655.2	-Dalyan.	38° 21.5' N 26° 19.1' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	33	10	7	White metal tower; 26. <b>AIS</b> (MMSI No 992711161).
19974 N 4655	-Toprak Ada (T.), summit.	38° 19.3' N 26° 20.9' E	<b>Q.(9)W.</b> period 15s	79	24	7	White metal framework tower; 20. <b>AIS</b> (MMSI No 992711162).
19976 N 4657	Cesme Korfezi (T.), Fener Burnu.	38° 19.4' N 26° 17.0' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33	10	8	White concrete tower; 13. Fl.W. on TV tower 0.86 mile NE. <b>AIS</b> (MMSI No 992711167).
19977 N 4656.24	--Ferry Terminal, jetty, head.	38° 19.5' N 26° 17.7' E	<b>Fl.(2)Y.</b> period 4s	26	8	5	
19978 N 4656.22	--Jetty, head.	38° 19.4' N 26° 17.9' E	<b>Iso.Y.</b> period 3s	26	8	3	
19980 N 4656	-Kaloyeri (T.), on reef.	38° 19.7' N 26° 16.1' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	30	9	5	Black and white concrete building, yellow hexagonal top; 30. <b>AIS</b> (MMSI No 992711163).
19984 N 4658	Fener Adasi (T.), summit.	38° 17.6' N 26° 11.7' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	141	43	W. 12 R. 7	Metal framework tower; 30. R. 234°-282°, W.-234°. <b>AIS</b> (MMSI No 992711164).
19987 N 4658.5	Alacati Korfezi (T.), W. of entrance.	38° 13.8' N 26° 21.4' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	26	8	5	Yellow metal column; 23.
19988 N 4659	Bozalan Burnu (T.)	38° 13.4' N 26° 23.5' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	108	33	7	White metal framework pylon; 26. <b>AIS</b> (MMSI No 992711182).
19996 N 4661	Teke Burnu (T.), Sigacik Korfezi, W. entrance point.	38° 06.2' N 26° 35.6' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	125	38	8	White metal framework tower; 26. <b>AIS</b> (MMSI No 992711154).
19998 N 4661.5	Esek Adasi.	38° 12.1' N 26° 46.2' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	30	9	5	White metal framework tower; 20. <b>AIS</b> (MMSI No 992711155).
19998.5 N 4661.6	-Sigacik Limani, N. breakwater, head.	38° 11.7' N 26° 46.9' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	30	9	3	White concrete tower.
20000 N 4662	Doganbey Adasi.	38° 01.4' N 26° 52.9' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	167	51	8	White metal framework tower; 26. <b>AIS</b> (MMSI No 992711184).
20004 N 4664	Kusadasi (T.), Guvercin Adasi, NW. point.	37° 51.8' N 27° 14.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	65	20	8	White concrete tower, dwelling; 39. <b>AIS</b> (MMSI No 992711188).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-GREECE</b>							
20008 <i>N 4664.4</i>	-Yacht harbor, W. breakwater, head.	37° 52.1' N 27° 15.6' E	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	39 12	5	Concrete tower.	
20012 <i>N 4664.3</i>	--E. breakwater, head.	37° 52.1' N 27° 15.7' E	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	26 8	5	Concrete tower.	
20013 <i>N 4664.5</i>	-Jetty No 1, head.	37° 51.9' N 27° 15.2' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	26 8	3	SPECIAL Y, tower, "X" topmark; 20.	
20014 <i>N 4664.6</i>	-Jetty No 2, head.	37° 51.8' N 27° 15.2' E	<b>Fl.Y.</b> period 5s fl. 1s, ec. 4s	26 8	3	SPECIAL Y, tower, "X" topmark; 20.	
20016 <i>N 4665</i>	Baytak Adasi (T.).	37° 41.5' N 27° 01.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	8	White metal framework tower; 23.	<b>AIS</b> (MMSI No 992711187).
20018 <i>N 4665.05</i>	Tarsan Adasi.	37° 39.0' N 27° 00.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	9	White metal framework tower; 26.	<b>AIS</b> (MMSI No 992711186).
NISOS SAMOS (GR.):							
20019 <i>N 4682</i>	-Limin Karlovasi, N. breakwater, head.	37° 47.9' N 26° 41.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, metal column, green band; 23.	
20021	--E. breakwater, head.	37° 47.8' N 26° 41.2' E	<b>Fl.R.</b> period 3s	23 7	3		
20021.1	--W. breakwater, head.	37° 47.8' N 26° 41.0' E	<b>Fl.R.</b> period 3s	23 7	3		
20028 <i>N 4680</i>	--Akra Pangosi, W. side of entrance.	37° 47.8' N 26° 40.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	92 28	11	White metal column, gallery, round hut; 20.	
20030 <i>N 4665.9</i>	-Akra Kokkari.	37° 46.9' N 26° 53.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
20031 <i>N 4667</i>	-Vathi, mole, head.	37° 45.3' N 26° 58.2' E	<b>Fl.R.</b> period 3s fl. 0.4s, ec. 2.6s	33 10	4	White hexagonal hut, gallery, column, red band; 26.	
20031.5 <i>N 4667.07</i>	-Limenas Samou, E. breakwater, head.	37° 45.3' N 26° 58.6' E	<b>F.R.</b>	20 6	3	White metal column, red band.	
20031.6 <i>N 4667.05</i>	--W. breakwater, head.	37° 45.3' N 26° 58.5' E	<b>F.G.</b>	20 6	3	White metal column, green band.	
20032.1 <i>N 4666</i>	-Akra Kotzikas.	37° 47.0' N 26° 56.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	4	Metal framework structure, gallery, metal column, red band; 13.	
20033 <i>N 4666.2</i>	-Vrak Prasonisi.	37° 47.8' N 26° 57.7' E	<b>Fl.(2)W.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	52 16	7	White metal framework structure, gallery, metal column; 10.	
20036 <i>N 4669</i>	-Akra Gatos.	37° 43.5' N 27° 04.0' E	<b>Fl.(3)W.</b> period 14s fl. 5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	52 16	7	Metal framework structure; 13.	
20037 <i>N 4669.3</i>	-Pythagoreio Marina, N. mole, head.	37° 41.5' N 26° 57.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band; 16.	
20038 <i>N 4669.5</i>	--S. mole, head.	37° 41.4' N 26° 57.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, metal column, red band; 16.	

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<b>TURKEY-GREECE</b>							
20040 N 4670	--Akra Fonias.	37° 41.3' N 26° 57.2' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	49 15	5	Metal framework structure; 13.	
20044 N 4674	--S. breakwater, head.	37° 41.2' N 26° 56.9' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework structure; 13.	
20048 N 4676	--Inner Harbor, mole, head.	37° 41.4' N 26° 56.7' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	White hexagonal hut, column, green band; 13.	
20050 N 4677	-Limnonaki Bay.	37° 39.6' N 26° 46.7' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	30 9	3	White round hut, green band; 9.	
20051 N 4677.8	-Kolpos Marathokambou, Ormos Koumaikon, mole, head.	37° 42.0' N 26° 44.6' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band; 19.	
20051.1 N 4677.5	-Maratokapmos Harbor, N. mole, head.	37° 42.5' N 26° 42.2' E	<b>Fl.G.</b> period 5s		3		
20051.2 N 4677.6	--S. mole, head.	37° 42.5' N 26° 42.2' E	<b>Fl.R.</b> period 5s		3		
20052 N 4678	-Akra Ayios Dhomenikos.	37° 40.5' N 26° 35.5' E	<b>Fl.W.</b> period 3.6s fl. 0.5s, ec. 3.1s	52 16	5	Metal framework structure; 16.	
NISIDHES FOURNOI (GR.):							
20056 N 4689	-Ormos Fournoi, Akra Sbistokamiyos.	37° 34.4' N 26° 28.3' E	<b>Fl.W.R.</b> period 3.5s fl. 0.5s, ec. 3s	59 18	W. 4 R. 3	Metal framework structure, white round hut; 20.	R. 034°-138°, W.-172°, R.- 243°.
20058 N 4688.5	-Khrisomilia, mole, head.	37° 37.6' N 26° 30.3' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band.	
20058.1 N 4688.51	--Mole, head.	37° 37.6' N 26° 30.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
20060 N 4688	-Akra Malaki.	37° 39.1' N 26° 30.7' E	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	131 40	8	Metal framework structure; 16.	
20064 N 4687	-Akra Trachilas.	37° 34.6' N 26° 23.6' E	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	121 37	7	White round hut, column; 16.	
NISOS IKARIA (GR.):							
20068 N 4690	<b>-Akra Pappas.</b>	37° 30.7' N 25° 58.7' E	<b>Fl.W.</b> period 20s fl. 1.3s, ec. 18.7s	246 75	25	Round tower, dwelling; 36.	
20070 N 4695	-Limin Kirikou, mole, head.	37° 36.7' N 26° 17.9' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	29 9	4	Metal framework structure, white round hut, red band; 16.	
20072 N 4694	-Akra Dhrapanon, E. point.	37° 41.4' N 26° 21.8' E	<b>Fl.(3)W.</b> period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 15s	118 36	12	Metal framework structure, white square hut; 20.	
20076 N 4693	-Vrakhonisis Evdhilos.	37° 38.0' N 26° 10.7' E	<b>Fl.W.</b> period 7.5s fl. 0.6s, ec. 6.9s	62 19	11	Metal framework structure; 16.	Visible 100°-314°.
20078	-Ormos Evdhilou.	37° 38.0' N 26° 11.0' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	36 11	3	Metal framework structure, square hut, gallery; 23.	

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<b>TURKEY-GREECE</b>							
20080 N 4692	-Akra Armenistis (Strephoni).	37° 38.4' N 26° 04.2' E	<b>Fl.(3)W.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	95 29	11	White lantern; 13.	
NISOS GAIDHAROS (GR.):							
20084 N 4776	-S. point of island.	37° 26.8' N 26° 57.5' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	59 18	6	Metal framework structure; 13.	Visible 186°-033°. Obscured 308°-329° by Nisis Kounelei.
NISOS PATMOS (GR.):							
20088 N 4771	-Limin Skala, breakwater, head.	37° 19.3' N 26° 32.7' E	<b>Fl.R.</b> period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal framework structure, white round hut, red band; 20.	
20092 N 4770.6	-Akra Aspri.	37° 19.6' N 26° 33.6' E	<b>Fl.W.R.</b> period 2s fl. 0.3s, ec. 1.7s	46 14	W. 7 R. 5	White round hut; 10.	W. 133°-272°, R.-320°, W.- 048°.
20096 N 4772	-Akra Ilias.	37° 16.2' N 26° 34.3' E	<b>Fl.(3)W.</b> period 9s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.1s	164 50	9	Metal framework structure; 13.	Visible 182°-086°.
20100 N 4771.4	-Skopeloi Tragos.	37° 17.4' N 26° 34.7' E	<b>Fl.(2)W.R.</b> period 12s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 10s	30 9	W. 5 R. 3	Metal framework structure, white round hut; 18.	R. 087°-232°, W.-087°.
20104 N 4770	-Akra Geranos, on point.	37° 20.4' N 26° 36.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	118 36	7	Metal framework structure; 13.	
20108 N 4768.5	Nisis Anidhro (Gr.).	37° 24.6' N 26° 29.5' E	<b>Fl.W.R.</b> period 6s fl. 0.4s, ec. 5.6s	351 107	W. 9 R. 6	White square hut; 10.	R. 090°-100°, W.-090°.
20112 N 4772.6	Nisos Akri (Gr.), on Punta Cisterna.	37° 22.8' N 26° 43.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	5	Metal framework structure, white round hut; 16.	Visible 291°-129°.
20117 N 4774.2	-Pier, SW. head.	37° 17.7' N 26° 45.8' E	<b>F.R.</b>	20 6	3	White metal framework structure, gallery, metal column; 16.	
20120 N 4773	-Akra Gatto.	37° 17.6' N 26° 44.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	88 27	6	Metal framework structure, white round hut; 16.	Visible 243°30'-088°30'.
20124 N 4775	Nisidhes Kalapodhia (Gr.).	37° 15.3' N 26° 48.7' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	105 32	7	White metal framework structure; 13.	
20128 N 4775.5	Nisis Sarakina (Gr.).	37° 13.7' N 26° 42.0' E	<b>Fl.(2)W.</b> period 8s fl. 0.5s, ec. 1.6s fl. 0.5s, ec. 5.4s	75 23	8	Metal framework structure, white round hut; 18.	
NISOS LEROS (GR.):							
20132 N 4698	-Ormos Alindhas.	37° 09.6' N 26° 51.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	53 16	5	White hexagonal hut, gallery, column; 30.	
-Limin Lakki:							
20136 N 4702	--Akra Katsouni.	37° 06.8' N 26° 49.4' E	<b>Fl.(2)W.</b> period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	223 68	9	White pyramidal structure, gallery; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-GREECE</b>							
20140 N 4703	--Akra Angistro.	37° 06.6' N 26° 49.9' E	<b>Fl.W.</b> period 2.5s fl. 0.2s, ec. 2.3s	151 46	5	White round hut; 10.	
20144 N 4704	--Lakkion, pier, head, S. end.	37° 07.6' N 26° 50.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework structure, white round hut, red band; 20.	
20146 N 4704.5	-Ormos Xirokambos mole, head.	37° 06.4' N 26° 52.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band.	
20148 N 4705	-Glaronisia.	37° 05.5' N 26° 53.1' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	46 14	4	Metal framework structure, white round hut; 16.	
20152 N 4700	-Ayios Kiriake.	37° 08.7' N 26° 53.3' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	69 21	5	Metal framework structure; 16.	
20156 N 4777	Farmakonisi (Gr.).	37° 16.8' N 27° 05.3' E	<b>Fl.(2)W.</b> period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	388 118	12	White pyramidal structure, gallery; 10.	
MANDALYA KORFEZI (T):							
20160 N 4665.8	-Tekagac Burnu.	37° 21.4' N 27° 11.7' E	<b>Fl.W.</b> period 15s fl. 1s, ec. 14s	49 15	10	White metal tower; 39.	<b>AIS</b> (MMSI No 992711190).
20162 N 4665.7	-Akbuk-Panayir Adasi.	37° 19.6' N 27° 19.7' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	12	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711192).
20164 N 4665.4	<b>-Gulluk.</b>	37° 14.2' N 27° 35.3' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	46 14	18	White concrete tower; 23.	<b>AIS</b> (MMSI No 992711280).
20164.1 N 4665.35	--NE. mole, head.	37° 14.3' N 27° 35.7' E	<b>Fl.(2)Y.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Yellow round tower; 23.	
20165 N 4665.3	-Yilan Ada.	37° 11.9' N 27° 33.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	46 14	7	White metal framework tower; 26.	<b>AIS</b> (MMSI No 992711291).
20166 N 4665.5	-Karaburun Feneri.	37° 13.5' N 27° 31.5' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	59 18	5	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711288).
20168 N 4665.6	-Incegol Burnu.	37° 13.8' N 27° 30.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	43 13	12	White metal tower; 30.	<b>AIS</b> (MMSI No 992711286).
20172 N 4665.2	-Kara Ada, NW. point.	37° 10.5' N 27° 21.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	56 17	10	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711276).
20174 N 4665.25	Gundogan, breakwater.	37° 07.6' N 27° 20.7' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	5	White metal framework tower; 16.	<b>AIS</b> (MMSI No 992711283).
20175 N 4665.18	-Gemitasi.	37° 09.1' N 27° 15.8' E	<b>Iso.W.</b> period 3s	39 12	7		<b>AIS</b> (MMSI No 992711392).
20176 N 4708.5	Buyukkiremit Adasi (T.).	37° 05.2' N 27° 12.6' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	292 89	10	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711279).



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-GREECE</b>							
20180 N 4708	Kalolimnos (Gr.).	37° 03.5' N 27° 06.4' E	<b>Fl.W.</b> period 3s fl. 0.4s, ec. 2.6s	95 29	7	Metal framework structure; 16.	Visible 122°-055°.
20186 N 4710	Limin Kalimnou, S. mole, head.	36° 56.9' N 26° 59.6' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	33 10	6	Metal framework structure, gallery; 10.	
20187 N 4710.4	-Vouvali fishing harbor, N. mole, head.	36° 57.0' N 26° 59.5' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	23 7	6	Metal framework tower, green card, column, gallery.	
NISIS PSERIMOS (GR.):							
20192 N 4711.3	-Nisis Nekrothikes, W. side of island.	36° 57.2' N 27° 05.7' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	75 23	W. 6 R. 4	Metal framework structure, white round hut; 16.	W. 049°-349°, R.-049°.
20196 N 4711	-Akra Rousa, E. point of island.	36° 55.3' N 27° 10.6' E	<b>Fl.(2)W.R.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	141 43	W. 12 R. 9	White lantern; 13.	W. 182°-262°, R.-281°, W.- 086°.
20200 N 4711.5	Nisis Safonidhi (Gr.).	36° 53.1' N 26° 55.3' E	<b>L.Fl.W.</b> period 10s fl. 2s, ec. 8s	210 64	9	White metal framework structure; 26.	
20204 N 4708.7	-Catal Ada (T.).	37° 00.6' N 27° 13.4' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	157 48	6	White metal framework pylon; 26.	<b>AIS</b> (MMSI No 992711281).
20205 N 4709	Topan (T.).	37° 00.4' N 27° 10.9' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	177 54	7	White metal framework tower; 26.	<b>AIS</b> (MMSI No 992711277).
KOS CHANNEL (T.):							
20208 N 4712	-Fener Burnu.	36° 57.9' N 27° 15.9' E	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 5s fl. 0.5s, ec. 9s	49 15	14	White concrete tower, dwelling; 30.	<b>AIS</b> (MMSI No 992711285).
BODRUM LIMANI:							
20212 N 4714	-Kargi Ada, on islet.	36° 57.1' N 27° 18.4' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	108 33	8	White metal framework pylon; 26.	<b>AIS</b> (MMSI No 992711290).
20216 N 4730	-Bodrum, W. breakwater.	37° 01.9' N 27° 25.5' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	8	White concrete tower, dwelling; 23.	<b>AIS</b> (MMSI No 992711278).
20220 N 4730.4	-E. breakwater, head.	37° 01.9' N 27° 25.5' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	8	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711282).
20221 N 4730.7	-Outer Harbor, pier, head.	37° 01.4' N 27° 26.1' E	<b>Fl.(3)Y.</b> period 8s	36 11	3		
20222 N 4729	-Haremten.	37° 00.9' N 27° 24.9' E	<b>Q.(6)+L.Fl.W.</b> period 15s	20 6	6	S. CARDINAL YB, pile, topmark; 13.	<b>AIS</b> (MMSI No 992711284).
20224 N 4728	-Kara Ada, Karaada Feneri.	36° 59.8' N 27° 25.5' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	5	White metal tower; 26.	<b>AIS</b> (MMSI No 992711287).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-GREECE</b>							
GOKOVA KORFEZI (T):							
20227 N 4730.75	-Kerme Korfezi, Oren Marina.	37° 01.9' N 27° 58.8' E	<b>Fl.(2)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	30 9	5	White metal tower, two green bands; 20.	
20228 N 4731.2	Orak Adasi.	36° 58.1' N 27° 36.1' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	56 17	7	White framework tower; 20.	<b>AIS</b> (MMSI No 992711289).
20230 N 4731	-Sanacak Burnu.	37° 01.3' N 27° 58.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	8	White metal framework tower; 16.	<b>AIS</b> (MMSI No 992711295).
20230.1 N 4731.3	-Akyaka, Gokova Limani.	37° 03.0' N 28° 19.4' E	<b>Fl.(2)R.</b> period 6s	26 8	5		
20232 N 4731.4	-Sehir Adalari, Orta Ada.	36° 59.9' N 28° 12.3' E	<b>Fl.W.R.</b> period 10s fl. 0.5s, ec. 9.5s	49 15	W. 9 R. 6	White metal framework tower; 33.	R. 024°-056°, W.-024°. <b>AIS</b> (MMSI No 992711273).
20234 N 4731.5	-Kara Adasi.	36° 56.7' N 28° 09.3' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	102 31	10	White metal tower, black bands; 23.	<b>AIS</b> (MMSI No 992711272).
20236 N 4731.6	-Koyun Burnu.	36° 55.5' N 28° 01.2' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	7	White metal framework tower; 26.	<b>AIS</b> (MMSI No 992711275).
20237 N 4731.55	-Korem Adalari, W. mole, head.	36° 56.4' N 28° 07.5' E	<b>Fl.(2)W.</b> period 8s	26 8	5		
20237.1 N 4731.53	--E. mole, head.	36° 56.4' N 28° 07.6' E	<b>Q.W.</b>	16 5	2	N. CARDINAL BY, column, topmark; 10.	
20238 N 4731.65	-Mersincik Burnu.	36° 50.1' N 28° 00.2' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	98 30	W. 7 R. 5	White framework tower; 16.	W. 270°-154°, R.-270°. <b>AIS</b> (MMSI No 992711294).
20240 N 4731.7	-Ince Burnu.	36° 48.8' N 27° 38.5' E	<b>Fl.(2)W.</b> period 5s fl. 0.2s, ec. 1.2s fl. 0.2s, ec. 3.4s	157 48	10	White metal framework pylon; 26.	<b>AIS</b> (MMSI No 992711274).
NISOS KOS (GR.):							
20244 N 4722	-Akra Ammoglossa.	36° 54.9' N 27° 16.8' E	<b>Fl.R.</b> period 4s fl. 0.8s, ec. 3.2s	23 7	9	White metal framework structure, red band; 16.	Visible 080°-320°.
20255 N 4725.9	-Limin Kos, N. pier, head.	36° 54.0' N 27° 17.3' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	30 9	4	Metal framework structure, column, gallery, green band.	
20256 N 4726	--W. mole, head.	36° 53.9' N 27° 17.3' E	<b>Q.G.</b>	30 9	3	White hexagonal hut, column, gallery, green band; 26.	
20257 N 4726.3	--E. mole, head.	36° 53.9' N 27° 17.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	3	White hexagonal hut, column, gallery, red band; 26.	
20258 N 4726.4	-Kos Marina, W. mole, head.	36° 53.6' N 27° 18.1' E	<b>Fl.G.</b> period 4s fl. 0.3s, ec. 3.7s	20 6	3	Metal framework structure, gallery, metal column, green band; 20.	
20258.5 N 4726.5	--E. mole, head.	36° 53.6' N 27° 18.0' E	<b>Fl.R.</b> period 4s fl. 0.3s, ec. 3.7s	20 6	3	Metal framework structure, gallery, metal column, red band; 20.	
20260 N 4726.6	-Akra Louros.	36° 53.4' N 27° 20.3' E	<b>Fl.(3)W.R.</b> period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	33 10	W. 6 R. 4	Metal framework structure, white square hut; 23.	W. 130°-060°, R.-130°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-GREECE</b>							
20261 N 4726.8	-Okeanis, mole.	36° 52.5' N 27° 21.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	White metal column, red band; 16.	
20264 N 4727	-Akra Ayios Fokas.	36° 51.5' N 27° 21.3' E	<b>Fl.W.</b> period 4s fl. 0.4s, ec. 3.6s	75 23	6	Metal framework structure; 23.	
20265 N 4727.5	-Porto Bello Hotel, S. breakwater, head.	36° 45.8' N 27° 07.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, red band; 20.	
20266 N 4727.55	--N. breakwater, head.	36° 45.8' N 27° 07.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
20268 N 4727.6	-Ormos Kamari.	36° 44.2' N 26° 58.3' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	4	Metal framework structure, red band; 13.	
20269 N 4727.65	-Limnionas, mole, head.	36° 46.4' N 26° 57.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, metal column, green band; 20.	
20270 N 4727.7	-Mastikhari, mole, head.	36° 51.1' N 27° 04.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	33 10	6	White hexagonal hut, gallery, column, green band; 30.	
NISIS YIALI (GR.):							
20272 N 4716	-Ayios Andonios.	36° 39.7' N 27° 08.3' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	46 14	5	Metal framework structure, white round hut; 16.	
NISOS NISIROS (GR.):							
20276 N 4718	-Mandrakion, small mole, head.	36° 36.9' N 27° 08.4' E	<b>Q.G.</b>	20 6	3	Metal framework structure, white round hut; 16.	
20280 N 4720	-Akra Palos.	36° 37.2' N 27° 11.3' E	<b>Fl.(2)W.</b> period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 6.2s	92 28	12	Metal framework structure; 16.	
<b>GREECE-DHODHEKANISOI</b>							
NISOS TILOS (GR.):							
20284 N 4721	-Vrakhonisis Gaidharos.	36° 29.1' N 27° 17.1' E	<b>Fl.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	233 71	10	Metal framework structure; 13.	
20285 N 4721.1	-Agios Antonios, N. mole, head.	36° 27.6' N 27° 20.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, red band.	
20285.1 N 4721.2	--S. mole, head.	36° 27.6' N 27° 20.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, metal column, green band.	
20288 N 4721.4	-Ormos Livadhia.	36° 24.9' N 27° 24.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	85 26	3	Metal framework structure, red band; 16.	
20292 N 4764	<b>Nisis Kandhelousa (Gr.).</b>	36° 29.9' N 26° 57.6' E	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	181 55	17	Round tower, dwelling; 33.	
20300 N 4766.2	-Limin Maltezana, pier, head.	36° 34.6' N 26° 23.3' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	4	Metal framework structure, white round hut, green band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-DHODHEKANISOI</b>							
20304 N 4767	-Akra Palli.	36° 34.8' N 26° 20.1' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	W. 5 R. 3	Metal framework structure, white round hut; 17.	W. 138°-172°, R.-237°, W.-354°.
20308 N 4765	-Akra Floudha.	36° 38.6' N 26° 22.7' E	<b>Fl.(2)W.</b> period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	338 103		Metal framework structure; 16.	
20312 N 4766	-Limin Skala, N. side of entrance.	36° 33.1' N 26° 21.4' E	<b>Fl.W.R.</b> period 3s fl. 0.4s, ec. 2.6s	52 16	W. 5 R. 3	White metal framework structure; 10.	W. 193°-261°, R.-293°, W.-080°.
20313 N 4765.8	-Skala Astipalaia, SE. quay.	36° 32.9' N 26° 21.4' E	<b>3 F.R.</b> (vert.)	23 7		White metal column, red band.	Lights form inverted L.
20314 N 4765.82	--NW. Quay.	36° 32.9' N 26° 21.3' E	<b>3 F.G.</b> (vert.)	23 7		White metal column, green band; 23.	Lights form inverted L.
20316 N 4765.7	-Nisis Khondro, E. side.	36° 33.9' N 26° 24.2' E	<b>Fl.W.</b> period 4.5s fl. 0.3s, ec. 4.2s	49 15		Metal framework structure; 10.	Visible 121°-323°.
20320 N 4765.5	-Akra Poulari.	36° 34.9' N 26° 28.4' E	<b>Fl.(2)W.</b> period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 7.2s	102 31		White metal framework structure; 12.	
20324 N 4764.5	Nisis Plakhida.	36° 17.0' N 26° 44.4' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	276 84	W. 9 R. 6	White metal framework structure; 13.	R. 068°-248°, W.-068°.
20328 N 4760.3	Nisis Astakidha.	35° 52.4' N 26° 49.4' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	190 58		Metal framework structure; 8.	Visible 199°30'-148°30'.
20332 N 4761	Nisidhes Sofrana.	36° 04.9' N 26° 23.5' E	<b>Fl.W.</b> period 10s fl. 0.5s, ec. 9.5s	121 37		Metal framework structure; 26.	
20336 N 4760.7	Ounianisia.	35° 49.6' N 26° 27.7' E	<b>Fl.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	345 105		Metal framework structure, white round hut; 18.	
20340 N 4761.3	Kamilonisi.	35° 51.9' N 26° 13.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	135 41		Metal framework structure; 23.	
NISIS KASOS (GR.):							
20344 N 4761.8	-Emborios.	35° 25.0' N 26° 56.0' E	<b>Fl.G.</b> period 1.5s fl. 0.2s, ec. 1.3s	36 11		Metal framework structure, gallery, column, green band; 26.	
20348 N 4762	-Bouka.	35° 25.1' N 26° 55.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		Metal framework structure, white round hut, red band; 18.	
20352 N 4763	--Akra Ayios Yeoryios.	35° 25.1' N 26° 55.2' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	98 30	W. 5 R. 3	White metal framework structure; 10.	R. 083°-175°, W.-241°, R.-251°, W.-257°.
20356 N 4763.5	<b>-Nisis Plati, summit.</b>	35° 21.7' N 26° 49.5' E	<b>Fl.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	118 36		White round hut.	
20360 N 4763.2	-Akra Aviaki.	35° 20.9' N 26° 50.9' E	<b>Fl.W.</b> period 4s fl. 0.6s, ec. 3.4s	33 10		Metal framework structure, white round hut; 18.	
20364 N 4761.5	-Nisis Strongili.	35° 26.4' N 27° 00.9' E	<b>Fl.(2)W.R.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	75 23	W. 7 R. 5	Metal framework structure; 18.	W. 091°-243°, R.-258°, W.-006°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GREECE-DHODHEKANISOI</b>							
NISOS KARPATOS (GR.):							
20366 N 4757	-Akra Kastellos.	35° 23.9' N 27° 08.1' E	<b>Fl.W.R.</b> period 3s fl. 0.5s, ec. 2.5s	39 12	W. 7 R. 4	White metal framework structure.	R. 225°-252°, W.-134°.
20368 N 4757.5	-Foiniki.	35° 29.4' N 27° 06.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework structure, gallery, red band.	
20372 N 4758.4	-Dhifani.	35° 45.2' N 27° 12.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	59 18	4	Metal framework structure; 20.	
20374 N 4758.45	--Mole, head.	35° 45.4' N 27° 12.8' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure, gallery, red band.	
20376 N 4760	-Nisis Saria, Akra Paraspori.	35° 54.1' N 27° 13.7' E	<b>Fl.(2)W.</b> period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	161 49	12	Metal framework structure; 20.	
20380 N 4759	-Ormos Tristoma, S. islet.	35° 49.3' N 27° 12.1' E	<b>Fl.R.</b> period 5s fl. 0.7s, ec. 4.3s	39 12	4	Metal framework structure, white round hut, red band.	
20381 N 4758.1	-Limenas Pigadhia, mole, head.	35° 30.6' N 27° 12.9' E	<b>Fl.R.</b> period 4s fl. 0.4s, ec. 3.6s	23 7	3	Metal framework structure, gallery, metal column, red band.	
20382 N 4758.2	-Nisidha Dhespotiko.	35° 30.8' N 27° 12.7' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	6	Metal framework structure; 13.	
NISOS NISAKI (GR.):							
20384 N 4739	-Summit of island.	36° 13.2' N 27° 37.7' E	<b>Fl.W.R.</b> period 6s fl. 1s, ec. 5s	246 75	W. 8 R. 6	White metal framework structure, gallery, metal column; 10.	R. 232°-244°, W.-280°, R.- 297°, W.-232°.
NISOS RODHOS (GR.):							
20388 N 4756	-Akra Prasonisi.	35° 52.7' N 27° 45.0' E	<b>Fl.(4)W.</b> period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	200 61	17	Round tower, dwelling; 46.	Visible 273°-179°.
20392 N 4740	-Nisis Tragousa, summit of island.	36° 13.3' N 27° 42.3' E	<b>Fl.(2)W.R.</b> period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 11.5s	197 60	W. 8 R. 6	White metal framework structure, gallery; 13.	R. 112°-125°, W.-112°.
20394 N 4738	--Emporeio Bay.	36° 13.5' N 27° 37.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	6	White metal framework structure, gallery, metal column; 13.	Visible 175°-045°.
20396 N 4741	-Skala Kamiros.	36° 16.3' N 27° 49.5' E	<b>Fl.W.</b> period 3s fl. 0.4s, ec. 2.6s	66 20	8	Metal framework structure, white round hut; 16.	
20398 N 4741.5	-Fanai, W. mole, head.	36° 21.9' N 27° 58.6' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, green band.	
20398.1 N 4741.6	--E. mole, head.	36° 22.0' N 27° 58.7' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework structure, gallery, red band.	
20400 N 4742.5	-Rodhos AVIATION LIGHT.	36° 24.3' N 28° 05.3' E	<b>Al.Fi.W.G.</b> period 6s			Control tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks	
<b>GREECE-DHODHEKANISOI</b>								
20408 N 4743	-Akra Milon (Koum), NE. extremity of island.	36° 27.5' N 28° 13.2' E	<b>Fl.W.R.</b> period 4s fl. 0.4s, ec. 3.6s	33 10	W. R.	6 4	Metal framework structure, gallery, metal column; 16.	W. 037°-286°, R.-314°.
-Limin Rodhos:								
20412 N 4745	--Akra Aoimbakadhartiriou.	36° 27.2' N 28° 13.6' E	<b>Fl.R.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		3	Metal framework structure, gallery, metal column.	G. 206°-111°, R.-206°.
20416 N 4744	--Ayios Nikolaos.	36° 27.1' N 28° 13.7' E	<b>Fl.(2)W.</b> period 12s fl. 1.2s, ec. 3s fl. 1.2s, ec. 6.6s	79 24		11	Masonry tower, lantern; 20.	
20428 N 4749	--Limin Emborikos (Porto Mercantile), E. breakwater.	36° 26.9' N 28° 13.9' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	26 8		4	Metal framework structure, red band; 20.	
20432 N 4750	--Breakwater, head.	36° 26.8' N 28° 13.8' E	<b>Fl.G.</b> period 2s fl. 0.2s, ec. 1.8s	39 12		4	Metal framework structure, green band.	
20434 N 4752	--Akantia, E. mole, head.	36° 26.9' N 28° 14.2' E	<b>Fl.R.</b> period 5s fl. 0.8s, ec. 4.2s	33 10		6	Metal framework structure, gallery, red band; 20.	
20435 N 4751.5	-Kanamati, Repair Centre, N. mole, elbow.	36° 25.2' N 28° 14.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		3	Metal framework structure, gallery, metal column, green band; 20.	
20435.5 N 4751.7	--S. mole.	36° 25.2' N 28° 14.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	36 11		3	Metal framework structure, gallery, metal column, red band; 26.	
20435.6 N 4752.5	-Ormos Kalithion, inner mole, head.	36° 20.2' N 28° 12.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		3	Metal framework structure, gallery, metal column, green band; 20.	
20435.7 N 4752.4	--Outer mole, head.	36° 20.2' N 28° 12.5' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8		3	Metal framework structure, gallery, metal column, red band; 23.	
20436 N 4755.5	-Ormos Lardhos.	36° 04.0' N 28° 00.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9		3	Metal framework structure, gallery, metal column, green band; 23.	
20440 N 4755	-Vakros Paximadha.	36° 01.3' N 28° 05.6' E	<b>Fl.W.R.</b> period 4s fl. 0.4s, ec. 3.6s	79 24	W. R.	9 6	Metal framework structure, white round hut; 20.	W. 184°-139°, R.-184°.

#### TURKEY-SOUTH COAST

20452 N 4732	Deveboynu Burnu.	36° 41.2' N 27° 21.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	340 104		12	White concrete tower, dwelling; 30.	Visible 315°-183°. <b> AIS</b> (MMSI No 992711292).
RACON			<b>V(•••-)</b>			20		(3 & 10cm).
20456 N 4732.5	Ince Burun.	36° 39.5' N 27° 40.8' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 14		8	White concrete tower; 26.	<b> AIS</b> (MMSI No 992711293).
20460 N 4733	Uzunca Adasi.	36° 43.5' N 27° 42.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	34 10		3	White concrete tower; 16.	<b> AIS</b> (MMSI No 992711248).
NISOS SIMI (GR.):								
20464 N 4734	-Vrakhonisis Khondros.	36° 39.2' N 27° 49.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	82 25		5	Metal framework structure, white round hut; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-SOUTH COAST</b>							
20466 N 4734.2	-Akra Makria, Nisos Nimos, N. point.	36° 40.0' N 27° 51.4' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	52 16	6	White metal framework structure; 20.	
20468 N 4735.1	-Akra Pedhi (Filonika).	36° 37.0' N 27° 52.6' E	<b>Fl.W.</b> period 6s fl. 0.4s, ec. 5.6s	66 20	4	Metal framework structure, white round hut; 16.	
20472 N 4735	-Akra Koutsoumba.	36° 37.8' N 27° 52.2' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	69 21	5	House; 16.	
20476 N 4734.4	-Porto Simis.	36° 37.0' N 27° 50.2' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework structure, gallery, green band.	
20480 N 4735.2	-Limin Panormitou.	36° 33.1' N 27° 50.6' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	46 14	3	White round hut, column, red band; 13.	
20484 N 4735.5	<b>-Nisis Koulohdros.</b>	36° 30.8' N 27° 52.2' E	<b>Fl.(3)W.</b> period 15s fl. 0.7s, ec. 2.4s fl. 0.7s, ec. 2.4s fl. 0.7s, ec. 8.1s	98 30	15	Metal framework structure, gallery, white round hut; 20.	
20488 N 4736	-Marmara Islet.	36° 33.6' N 27° 44.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	125 38	6	Metal framework structure; 13.	
20492 N 4737	Karaburun.	36° 33.2' N 27° 58.7' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	118 36	10	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711251).
20496 N 5836	Kadirga Burnu, near extremity.	36° 43.8' N 28° 18.1' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	128 39	10	White metal column, dwelling; 39.	<b>AIS</b> (MMSI No 992711167).
20499 N 5837	Kargatasi Adasi.	36° 45.9' N 28° 16.4' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	66 20	2	ISOLATED DANGER BRB, tower, topmark; 13.	
20500 N 5838	Kec Adasi, S. point of islet.	36° 47.9' N 28° 15.6' E	<b>Fl.W.</b> period 2s fl. 0.2s, ec. 1.8s	98 30	7	White metal column, dwelling; 39.	<b>AIS</b> (MMSI No 992711269).
20500.5 N 5838.1	Icmeler.	36° 48.1' N 28° 14.4' E	<b>Fl.Y.</b> period 5s	26 8	3		
20501 N 5838.2	Yildiz Adasi, NW. corner of island, near extremity.	36° 48.9' N 28° 15.8' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	29 9	5	White metal tower; 20.	<b>AIS</b> (MMSI No 992711266).
20501.1 N 5838.27	Marmaris, town, W. side.	36° 51.1' N 28° 16.3' E	<b>Fl.(4)Y.</b> period 12s	23 7	3		
20501.2 N 5838.28	--E.side.	36° 51.0' N 28° 16.5' E	<b>Fl.(4)Y.</b> period 10s	26 8	3		
20501.3 N 5838.29	-W. breakwater, head.	36° 51.1' N 28° 16.6' E	<b>Fl.R.</b> period 4s	26 8	3		
20502 N 5838.3	-S. breakwater.	36° 51.0' N 28° 16.6' E	<b>Fl.G.</b> period 4s	23 7	3	White metal structure; 10.	
20502.1 N 5838.35	-N. breakwater.	36° 51.1' N 28° 16.7' E	<b>Fl.(2)R.</b> period 6s	13 4	2	White metal structure; 10.	
20503.1 N 5838.36	-Jetty, head.	36° 50.9' N 28° 17.0' E	<b>Q.R.</b>	20 6	2	Floodlit structure; 13.	
20503.2 N 5838.375	Delihurma, outer breakwater.	36° 50.6' N 28° 17.1' E	<b>Fl.(2)G.</b> period 4s	20 6	3		
20503.21 N 5838.378	-Inner breakwater.	36° 50.6' N 28° 17.2' E	<b>Fl.(2)R.</b> period 4s	20 6	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-SOUTH COAST</b>							
20503.3 N 5838.379	Karayar.	36° 49.3' N 28° 18.6' E	<b>Fl.G.</b> period 5s	39 12	3		
20504 N 5838.4	Yilancik Adasi.	36° 46.3' N 28° 26.3' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	335 102	W. 10 R. 7	White metal framework tower; 23.	W. 098°-086°, R.-098°. AIS (MMSI No 992711271).
20506 N 5838.5	Delikkaya Burnu.	36° 49.7' N 28° 25.4' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	328 100	7	White metal framework tower; 20.	AIS (MMSI No 992711270).
20508 N 5838.6	Bugluca.	36° 50.2' N 28° 27.1' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	220 67	7	White metal framework tower; 33.	AIS (MMSI No 992711268).
20509 N 5838.65	Aksaz.	36° 50.5' N 28° 23.1' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	82 25	3	White metal framework tower; 20.	
20510 N 5838.7	Kargili Burnu.	36° 51.6' N 28° 26.0' E	<b>Q.W.</b>	197 60	10	White metal framework tower; 20.	
20512 N 5839.4	Karacay.	36° 49.3' N 28° 33.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	131 40	5	White metal framework tower; 23.	AIS (MMSI No 992711265).
20516 N 5839	Dalyan, on the islet.	36° 47.8' N 28° 35.8' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	115 35	10	White metal tower; 20.	AIS (MMSI No 992711250).
20520 N 5839.45	Baba Adasi, on islet.	36° 41.6' N 28° 41.7' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	190 58	10	White metal framework pylon; 26.	AIS (MMSI No 992711264).
20528 N 5844.2	Ilbiz Burnu.	36° 32.6' N 29° 00.5' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	75 23	10	White metal framework pylon; 26.	AIS (MMSI No 992711257).
20529 N 5844.22	-Gemiler Adasi.	36° 33.2' N 29° 04.1' E	<b>Fl.W.R.</b> period 4s fl. 1s, ec. 3s	318 97	10	Reinforced concrete brick structure; 13.	W. 117°-016°, R.-100°. AIS (MMSI No 992711259).
20532 N 5839.5	Peksimet Adasi.	36° 34.0' N 28° 49.5' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	115 35	12	Metal framework tower; 26.	AIS (MMSI No 992711262).
FETHIYE KORFEZI:							
20536 N 5841	-Kizil Adalar.	36° 39.2' N 29° 02.6' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	105 32	15	White concrete tower, dwelling; 43.	AIS (MMSI No 992711247).
	-RACON		<b>O(---)</b>		20		(3 & 10cm).
20538 N 5843.5	-Pacariz Burnu.	36° 38.5' N 29° 06.1' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	4	White hexagonal concrete tower, green top; 26.	AIS (MMSI No 992711261).
20540 N 5842	-Megri Adasi, S. point.	36° 38.8' N 29° 05.9' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	56 17	7	White metal column; 20.	AIS (MMSI No 992711253).
20550 N 5843.7	-Breakwater, head.	36° 37.5' N 29° 06.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	20 6	4	Red framework tower; 13.	
20551 N 5843.8	--S. breakwater, head.	36° 37.5' N 29° 06.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6	4	Green framework tower; 13.	
20551.1 N 5843.6	-Fethiye Limani.	36° 37.4' N 29° 06.3' E	<b>Iso.Y.</b> period 3s	30 9	5	Yellow cylindrical tower; 16.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-SOUTH COAST</b>							
20551.5 <i>N 5839.6</i>	-Gocek Island.	36° 42.7' N 28° 55.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	5	ISOLATED DANGER BRB, tower, topmark; 10.	<b>AIS</b> (MMSI No 992711255).
20552 <i>N 5840</i>	-Gocek Adasi (Kizlan Ada).	36° 43.6' N 28° 57.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	39 12	10	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711254).
20556 <i>N 5840.4</i>	-Gocek Limani, 1,152 meters 255°30' from pier.	36° 44.9' N 28° 55.7' E	<b>Fl.W.R.</b> period 3s fl. 0.3s, ec. 2.7s	49 15	W. 7 R. 4	White metal framework tower; 20.	W. 314°-326°, R.-314°. <b>AIS</b> (MMSI No 992711256).
20557 <i>N 5840.48</i>	--Breakwater, head.	36° 45.2' N 28° 56.4' E	<b>Fl.(2)Y.</b> period 6s	26 8	5		
20557.1 <i>N 5840.49</i>	--S. breakwater, head.	36° 45.1' N 28° 56.4' E	<b>Fl.Y.</b> period 3s	26 8	5		
20558 <i>N 5844.21</i>	Karacaoren Rock.	36° 32.3' N 29° 03.4' E	<b>V.Q.(6)+L.Fl.W.</b> period 10s	33 10	5	S. CARDINAL YB, beacon, topmark; 16.	
20560 <i>N 5844.4</i>	Kutuburun.	36° 23.3' N 29° 06.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	92 28	10	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711263).
20564 <i>N 5844.6</i>	Catal Adasi, SW. point.	36° 12.6' N 29° 20.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	249 76	9	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711206).
20565 <i>N 5844.8</i>	Kalkan Limani, S. breakwater.	36° 15.7' N 29° 24.9' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	5	Concrete tower; 23.	<b>AIS</b> (MMSI No 992711207).
20566 <i>N 5844.83</i>	-Entrance, W. side.	36° 15.8' N 29° 24.9' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	33 10	5	White concrete tower; 23.	<b>AIS</b> (MMSI No 992711208).
20568 <i>N 5847.6</i>	Bucak Roads, Kas Mevki.	36° 12.4' N 29° 37.0' E	<b>Fl.(2)W.R.G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	52 16	W. 5 R. 4 G. 4	Galvanized sheet iron tower; 33.	G. 297°-065°, W.-071°, R.- 093°. <b>AIS</b> (MMSI No 992711213).
NISOS MEYISTI (GR.):							
20572 <i>N 5845</i>	-Akra Agios Stefanos.	36° 09.9' N 29° 35.3' E	<b>Fl.W.R.</b> period 4.5s fl. 0.3s, ec. 4.2s	59 18	W. 5 R. 3	White metal framework; 16.	W. 060°-086°, R.-125°, W.- 254°.
20576 <i>N 5846</i>	-Meyisti, E. side of entrance.	36° 09.1' N 29° 35.6' E	<b>Fl.R.</b> period 2.4s fl. 0.2s, ec. 2.2s	30 9	3	Metal framework structure, white square hut, red band; 20.	
20580 <i>N 5847</i>	Bayindir Limani, Kas.	36° 11.0' N 29° 38.5' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711205).
20580.1	-Kas Kayalik.	36° 11.7' N 29° 35.1' E	<b>Fl.(2)W.</b> period 5s	26 8	5		
20580.5 <i>N 5847.5</i>	-Bucak Denizi, mole, head.	36° 12.3' N 29° 37.5' E	<b>Fl.Y.</b> period 10s		3		
20584 <i>N 5848</i>	<b>Nisos Ipsili (Strongili).</b>	36° 06.6' N 29° 37.9' E	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	351 107	17	Round tower, dwelling; 23.	
20588 <i>N 5848.4</i>	Kekova Olu Deniz.	36° 10.8' N 29° 49.8' E	<b>Fl.W.G.</b> period 3s fl. 0.3s, ec. 2.7s	85 26	W. 7 G. 4	White metal framework tower; 20.	W. 355°-358°, G.-355°. <b>AIS</b> (MMSI No 992711211).
20592 <i>N 5848.2</i>	Kekova Adasi, SW. point.	36° 10.2' N 29° 50.6' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	180 55	8	Framework tower; 33.	<b>AIS</b> (MMSI No 992711212).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TURKEY-SOUTH COAST</b>							
20596 N 5848.5	-E. point.	36° 11.8' N 29° 54.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	115 35	9	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711210).
FINIKE KORFEZI:							
20604 N 5849	-Finike.	36° 16.8' N 30° 09.0' E	<b>Fl.(2)W.</b> period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	98 30	12	White round metal tower, black bands; 20.	<b>AIS</b> (MMSI No 992711201).
20608 N 5849.4	--E. breakwater, head.	36° 17.7' N 30° 09.1' E	<b>Fl.R.</b> period 5s fl. 0.4s, ec. 4.6s	42 13	6	White concrete tower; 43.	<b>AIS</b> (MMSI No 992711202).
20612 N 5849.6	--W. breakwater, head.	36° 17.7' N 30° 09.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	43 13	6	White concrete tower; 43.	<b>AIS</b> (MMSI No 992711203).
20616 N 5850	<b>-Gelidonya Burnu.</b>	36° 12.6' N 30° 26.3' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	744 227	15	White concrete tower, dwelling; 30.	<b>AIS</b> (MMSI No 992711218).
20620 N 5852	-Yardamci, cape, outer head.	36° 12.7' N 30° 24.2' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	118 36	8	White metal framework tower; 16.	<b>AIS</b> (MMSI No 992711217).
20624 N 5854	Adrasan Limani, S. side of entrance.	36° 17.9' N 30° 29.2' E	<b>Mo.(A)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 2s, ec. 11s	147 45	8	White metal framework tower; 33.	<b>AIS</b> (MMSI No 992711216).
20628 N 5854.4	Av Burnu.	36° 35.7' N 30° 35.3' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	460 140	12	Metal framework tower; 20.	<b>AIS</b> (MMSI No 992711214).
20630 N 5854.8	-Kemer Harbor, N. rock..	36° 36.7' N 30° 34.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	8	Framework tower, concrete platform; 16.	<b>AIS</b> (MMSI No 992711215).
20631 N 5855.5	Antalya Limani, inner basin, W. pier, head.	36° 50.0' N 30° 36.4' E	<b>Fl.(2)R.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	16 5	3	Cylindrical metal tower.	
20631.1 N 5855.51	--E. pier, head.	36° 50.0' N 30° 36.5' E	<b>Fl.(2)G.</b> period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	16 5	3	Cylindrical metal tower.	
20632 N 5855	Antalya (New Harbor), main breakwater.	36° 50.0' N 30° 37.0' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	6	White metal tower; 33.	<b>AIS</b> (MMSI No 992711221).
20636 N 5855.4	-Lee breakwater.	36° 50.1' N 30° 36.8' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	49 15	6	White concrete tower; 33.	<b>AIS</b> (MMSI No 992711222).
20640 N 5857	Antalya, N. mole.	36° 53.1' N 30° 42.1' E	<b>Fl.R.</b> period 3s fl. 0.4s, ec. 2.6s	23 7	4	White metal tower; 16.	<b>AIS</b> (MMSI No 992711220).
20644 N 5856	-S. mole.	36° 53.0' N 30° 42.1' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	23 7	4	White metal tower; 16.	<b>AIS</b> (MMSI No 992711219).
20648 N 5858	Baba Burnu.	36° 50.7' N 30° 45.5' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	114 35	14	White stone tower, dwelling; 20.	<b>AIS</b> (MMSI No 992711223).
20652 N 5859	Selimiye, on extremity of point.	36° 45.8' N 31° 23.3' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	46 14	10	Metal tower; 39.	<b>AIS</b> (MMSI No 992711224).
20652.1 N 5858.5	-W. rock.	36° 46.1' N 31° 22.9' E	<b>Q.(9)W.</b> period 15s		5	W. CARDINAL YBY, pile, topmark.	

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<b>TURKEY-SOUTH COAST</b>							
20652.2	-E. rock.	36° 45.3' N 31° 24.4' E	<b>Q.(6)+L.FI.W.</b> period 15s		5	S. CARDINAL YB, pile, topmark.	
20656 N 5860	<b>Alanya.</b>	36° 31.8' N 31° 59.5' E	<b>FI.W.</b> period 20s fl. 0.2s, ec. 19.8s	686 209	20	White stone tower, dwelling; 20.	Visible 249°-108°. <b>AIS</b> (MMSI No 992711200).
20660 N 5861	Selinti Burnu.	36° 14.1' N 32° 17.7' E	<b>FI.W.</b> period 3s fl. 0.3s, ec. 2.7s	108 33	10	White metal framework pylon; 26.	<b>AIS</b> (MMSI No 992711204).
20664 N 5862	<b>Anamur Burnu.</b>	36° 01.0' N 32° 48.2' E	<b>FI.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	223 68	20	White stone tower, dwelling; 33.	<b>AIS</b> (MMSI No 992711233).
20668 N 5866	Soguksu Limani, Aydincik, E. side of entrance.	36° 08.6' N 33° 19.4' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	75 23	10	White metal framework tower; 13.	<b>AIS</b> (MMSI No 992711235).
20668.1 N 5866.2	Sancak Burnu.	36° 07.5' N 33° 23.6' E	<b>FI.(3)W.</b> period 10s	39 12	5		<b>AIS</b> (MMSI No 992711353).
20669 N 5866.5	Ovacik, W. breakwater, head.	36° 11.2' N 33° 39.2' E	<b>FI.G.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	5	Concrete tower; 30.	
20669.1 N 5866.51	-E. breakwater, head.	36° 11.2' N 33° 39.4' E	<b>FI.R.</b> period 5s fl. 0.5s, ec. 4.5s	39 12	5	Concrete tower; 30.	
20670 N 5867	<b>Ovacik Yarimadasi.</b>	36° 08.0' N 33° 40.9' E	<b>FI.(2)W.</b> period 6s	141 43	18	White metal column; 33.	<b>AIS</b> (MMSI No 992711246).
20672 N 5868	Dana Adasi, NE. point.	36° 11.8' N 33° 46.9' E	<b>FI.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	229 70	10	Metal framework tower, concrete base; 13.	Visible 131°-022°. <b>AIS</b> (MMSI No 992711234).
20673 N 5867.5	-SW. point.	36° 10.9' N 33° 45.5' E	<b>FI.W.</b> period 5s fl. 1s, ec. 4s	30 9	3	White mast; 10.	
20676 N 5871	Limankalesi, Aghaliman Burnu.	36° 16.6' N 33° 50.5' E	<b>FI.W.</b> period 3s fl. 0.3s, ec. 2.7s	75 23	7	Metal framework tower; 26.	<b>AIS</b> (MMSI No 992711238).
20680 N 5871.3	Tasucu, breakwater, head.	36° 18.9' N 33° 52.9' E	<b>FI.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	6	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711239).
20684 N 5871.32	-Inner breakwater, head.	36° 19.0' N 33° 52.9' E	<b>FI.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	6	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711240).
20688 N 5871.4	Seka, main breakwater.	36° 18.6' N 33° 53.4' E	<b>FI.G.</b> period 3s fl. 1s, ec. 2s	23 7	5	Green concrete tower, white band; 13.	<b>AIS</b> (MMSI No 992711242).
20692 N 5871.42	Kucuk, breakwater.	36° 18.7' N 33° 53.6' E	<b>FI.R.</b> period 3s fl. 1s, ec. 2s	23 7	5	Red concrete tower, white band; 13.	<b>AIS</b> (MMSI No 992711243).
20697 N 5871.59	-Tirtar Marina.	36° 31.8' N 34° 13.8' E	<b>FI.G.</b> period 4s		7		
20698 N 5871.6	--.	36° 31.9' N 34° 13.9' E	<b>FI.R.</b> period 4s	30 9	7		
MERSIN LIMANI:							
20708 N 5872	<b>-Mersin.</b>	36° 47.1' N 34° 37.1' E	<b>FI.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	15	White stone tower, dwelling; 39.	<b>AIS</b> (MMSI No 992711244).

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<b>TURKEY-SOUTH COAST</b>							
20712 N 5872.2	-S. breakwater, head.	36° 47.1' N 34° 38.5' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	10	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711236).
20716 N 5872.4	--Elbow.	36° 47.0' N 34° 38.1' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	33 10	W. R. 5 3	White metal tripod; 10.	W. 219°-221°30', R.-219°.
20720 N 5873	-N. breakwater, head.	36° 47.2' N 34° 38.6' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	30 9	10	White concrete tower; 16.	F.R. on silos 1 mile NNE. <b>AIS</b> (MMSI No 992711237).
20721.1 N 5873.4	-Commercial Quay, head.	36° 47.7' N 34° 38.3' E	<b>Fl.(3)Y.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	3	Yellow round tower; 20.	
20721.2 N 5873.5	-Container Quay, head.	36° 48.0' N 34° 38.9' E	<b>Fl.(2)Y.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	30 9	3	Yellow round tower; 20.	
20722 N 5873.1	-Coal and Ore Quay.	36° 48.2' N 34° 39.3' E	<b>Fl.(2+1)R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	30 9	3	White metal tower.	
20723 N 5873.55	-Ferry Quay, head.	36° 48.3' N 34° 39.1' E	<b>Fl.(2+1)G.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	30 9	3	White round tower; 20.	
20724 N 5873.2	-Harbor Range, front.	36° 48.4' N 34° 39.6' E	<b>Oc.G.</b> period 3s lt. 2s, ec. 1s	62 19	7	Metal framework tower, concrete base; 56.	Fairway marked by lighted buoys showing Q.W.
20728 N 5873.3	--Rear, about 189 meters 40°30' from front.	36° 48.5' N 34° 39.7' E	<b>Oc.G.</b> period 3s lt. 2s, ec. 1s	79 24	7	Metal framework tower, concrete base; 66.	
20729 N 5873.05	-Liquid Bulk Jetty, head.	36° 48.1' N 34° 39.4' E	<b>Oc.Y.</b>	30 9	3	Yellow post; 10.	
20730 N 5873.03	-Poas Isk jetty.	36° 48.1' N 34° 39.5' E	<b>F.R.</b>				
20744 N 5873.6	-Karaduvar, main breakwater, head.	36° 48.3' N 34° 41.8' E	<b>Fl.R.</b> period 4s	43 13	5	White metal framework tower; 13.	
20748 N 5873.7	--Small breakwater, head.	36° 48.3' N 34° 41.8' E	<b>Fl.G.</b> period 4s	43 13	5	Concrete tower; 13.	
20752 N 5873.8	Deli Burnu.	36° 43.8' N 34° 54.7' E	<b>Fl.(2)W.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	8	Round metal tower; 33.	<b>AIS</b> (MMSI No 992711404).
20756 N 5874	<b>Fener Burnu.</b>	36° 32.4' N 35° 20.4' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	124 38	20	White concrete tower, dwelling; 39.	<b>AIS</b> (MMSI No 992711194).
20760 N 5874.4	Karatas, main breakwater, head.	36° 33.4' N 35° 23.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	8	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711196).
20764 N 5874.5	-Small breakwater, head.	36° 33.5' N 35° 23.0' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711193).
20766 N 5874.6	--On Island.	36° 33.5' N 35° 23.8' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	9	White metal framework tower; 19.	<b>AIS</b> (MMSI No 992711195).
20768 N 5875	Yumurtalik.	36° 46.7' N 35° 48.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	10	White metal framework tower; 33.	<b>AIS</b> (MMSI No 992711197).

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<b>TURKEY-SOUTH COAST</b>							
20772 N 5875.2	-Breakwater, head.	36° 46.0' N 35° 47.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	5	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711198).
20776 N 5875.5	-Devegecegi.	36° 43.0' N 35° 42.9' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	7	White metal framework tower; 20.	<b>AIS</b> (MMSI No 992711199).
	-RACON		<b>Y(- • - -)</b>				(3 & 10cm).
20780 N 5910	Sugozu Termik Santrali.	36° 50.1' N 35° 53.0' E	<b>Fl.(3)R.</b> period 10s	20 6	5	Galvanised metal tower.	
20781 N 5910.1	-Jetty, elbow.	36° 50.0' N 35° 53.5' E	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	5	Galvanised metal tower.	
20782 N 5910.2	--Head.	36° 50.0' N 35° 53.4' E	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	5	Galvanized metal tower.	
20786 N 5911	Kamisli Burun, jetty, head.	36° 51.0' N 35° 55.9' E	<b>Mo.(U)R.</b> period 16s	43 13	5		<b>AIS</b> (MMSI No 992711408).
20788 N 5912	Botas Liman, pier, head.	36° 51.9' N 35° 56.7' E	<b>Mo.(U)R.</b> period 16s	33 10	5	Red mast, white bands; 20.	
20792 N 5912.02	-Close N. of pier, head.	36° 51.9' N 35° 56.7' E	<b>F.R.</b>	33 10	3	Mast.	
20804 N 5912.5	Toros Gubre, W. pier, head.	36° 54.4' N 35° 59.0' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	33 10	5	White framework tower, black band; 20.	
20805 N 5912.6	-E. pier, head.	36° 54.4' N 35° 59.5' E	<b>Fl.W.</b> period 5s fl. 1.5s, ec. 3.5s	33 10	5	White framework tower, black band; 20.	
20806 N 5912.7	Sonmez Cimento, pier, head.	36° 55.1' N 36° 00.7' E	<b>Iso.Y.</b> period 4s	33 10	5	Yellow metal tower; 16.	
20808 N 5913	Dortyol, T-head jetty, N. head.	36° 51.3' N 36° 07.8' E	<b>Mo.(U).Y.</b> period 16s fl. 0.6s, ec. 0.4s fl. 0.6s, ec. 0.4s fl. 1.5s, ec. 12.5s	13 4	5	Round tower, white bands.	
20812 N 5913.02	-S. head.	36° 51.2' N 36° 07.9' E	<b>Mo.(U).Y.</b> period 16s fl. 0.6s, ec. 0.4s fl. 0.6s, ec. 0.4s fl. 1.5s, ec. 12.5s	13 4	5	Round tower, white bands.	
20812.5 N 5913.5	-Yesilkoy.	36° 50.1' N 36° 09.9' E	<b>Fl.(3)Y.</b> period 10s	33 10	5		
20812.6 N 5913.8	-Yakacik.	36° 47.0' N 36° 12.0' E	<b>Fl.(2)W.</b> period 5s	20 6	5		
20812.7 N 5913.85	--Pier, head.	36° 46.8' N 36° 11.4' E	<b>Fl.Y.</b> period 3s	20 6	3		
20813 N 5914	-S. Mole.	36° 43.4' N 36° 11.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	10	White concrete tower; 20.	<b>AIS</b> (MMSI No 992711227).
20813.5 N 5914.4	-N. Mole.	36° 43.6' N 36° 11.2' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	9	White concrete tower; 26.	<b>AIS</b> (MMSI No 992711226).
20813.6 N 5914.1	-Tanker berth, dolphin No 1.	36° 43.8' N 36° 11.3' E	<b>Fl.(2)Y.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Yellow round tower; 20.	

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<b>TURKEY-SOUTH COAST</b>							
20813.61 <i>N 5914.2</i>	--Dolphin No 2.	36° 43.7' N 36° 11.2' E	<b>Fl.(2)Y.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Yellow round tower; 20.	
ISKENDERUN:							
20813.7 <i>N 5914.65</i>	-Pirs Ekindzhiler.	36° 41.2' N 36° 11.6' E	<b>Fl.(4)G.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	49 15	5	Green round tower; 33.	
20813.8 <i>N 5914.66</i>	-Assan, jetty, head.	36° 41.0' N 36° 11.7' E	<b>Fl.(4)G.</b> period 15s	20 6	5		
20813.9 <i>N 5914.67</i>	-Yazici, jetty, head.	36° 40.8' N 36° 11.7' E	<b>Fl.(3)G.</b> period 6.1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 2.9s	33 10	3	Green framework tower, three white bands; 23.	
20814 <i>N 5914.7</i>	-Iskenderun Gubre Fab.	36° 39.9' N 36° 12.2' E	<b>Fl.(4)G.</b> period 10s	49 15	3	Mast on dolphin.	
20816 <i>N 5916</i>	-Roadstead, W. point.	36° 32.3' N 36° 03.1' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	148 45	20	White concrete tower; 33.	Visible 044°-234°. <b>AIS</b> (MMSI No 992711231).
20817 <i>N 5914.9</i>	-Kurtulus, jetty, head.	36° 37.3' N 36° 11.7' E	<b>Fl.G.</b> period 4s	26 8	5	Metal tower; 20.	
20820 <i>N 5915</i>	-Iskenderun Limani, W. breakwater, head.	36° 36.2' N 36° 11.2' E	<b>Oc.G.</b> period 3s lt. 2s, ec. 1s	43 13	6	White concrete tower; 33.	<b>AIS</b> (MMSI No 992711230).
20822 <i>N 5915.1</i>	--E. breakwater, head.	36° 36.0' N 36° 11.3' E	<b>Fl.(2)R.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	46 14	3	White metal mast; 39.	<b>AIS</b> (MMSI No 992711232).
20824 <i>N 5915.22</i>	--Inner Harbor, E. breakwater, head.	36° 35.7' N 36° 11.1' E	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	30 9	4	White metal mast; 20.	
20824.5 <i>N 5915.02</i>	---W. breakwater, head.	36° 35.7' N 36° 11.0' E	<b>Fl.(2)G.</b> period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	20 6	2	White concrete tower; 16.	
20825 <i>N 5915.4</i>	--Fishing Harbor, N. breakwater.	36° 35.7' N 36° 10.7' E	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	3	White concrete tower; 16.	<b>AIS</b> (MMSI No 992711229).
20826 <i>N 5915.5</i>	--S. breakwater.	36° 35.7' N 36° 10.7' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	3	Concrete tower; 20.	<b>AIS</b> (MMSI No 992711228).
20827 <i>N 5915.6</i>	--W. jetty, head.	36° 35.6' N 36° 10.4' E	<b>Fl.(2)Y.</b> period 6s	33 10	5		
20832 <i>N 5917</i>	<b>Resulhinzir.</b>	36° 19.2' N 35° 46.9' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	357 109	22	White tower, building; 16.	<b>AIS</b> (MMSI No 992711225).
20833 <i>N 5918</i>	-Antakya Korfezi, outer breakwater, head.	36° 07.6' N 35° 54.7' E	<b>Fl.G.</b> period 3s		5		
20834 <i>N 5918.02</i>	--Inner breakwater, head.	36° 07.6' N 35° 54.8' E	<b>Fl.R.</b> period 3s		5		

# Section 14

## Cyprus, Syria, Lebanon, Israel, Egypt, Libya and Tunisia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CYPRUS</b>							
20836 <i>N 5908</i>	<b>Paphos Point.</b>	34° 45.6' N 32° 24.4' E	<b>Fl.W.</b> period 15s fl. 1.5s, ec. 13.5s	118 36	17	White round stone tower; 66.	Visible 277°-141°.
20850 <i>N 5908.6</i>	Port entrance.	34° 45.2' N 32° 24.5' E	<b>Q.R.</b>	16 5	4		
20852 <i>N 5876.4</i>	-Akrotiri AVIATION LIGHT.	34° 35.3' N 32° 59.5' E	<b>Mo.(AK)R.</b>	121 37		Beacon.	Difficult to identify.
20856 <i>N 5876</i>	<b>Cape Gata.</b>	34° 33.8' N 33° 01.5' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	190 58	15	White stone tower.	Visible 189°-130°.
20860 <i>N 5876.2</i>	Akrotiri, breakwater, head.	34° 34.3' N 33° 02.0' E	<b>Fl.R.</b> period 10s	36 11	5	Framework tower.	
20864 <i>N 5876.3</i>	-Harbor entrance, W. side.	34° 34.3' N 33° 01.9' E	<b>Fl.G.</b> period 10s	36 11	3	Framework tower.	
20868 <i>N 5876.6</i>	-Ro Ro Berth, NE. dolphin.	34° 34.3' N 33° 02.1' E	<b>Fl.(2)R.</b> period 10s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 7.3s	30 9	3	Dolphin; 33.	
20872 <i>N 5876.8</i>	--SW. dolphin.	34° 34.3' N 33° 02.1' E	<b>Fl.R.</b> period 10s fl. 0.7s, ec. 9.3s	23 7	3	Dolphin; 26.	
20876 <i>N 5880</i>	Limassol, NW. corner of S. quay.	34° 40.1' N 33° 02.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s		3		
20880 <i>N 5880.2</i>	-W. breakwater, head.	34° 40.2' N 33° 02.5' E	<b>Fl.R.</b> period 3s		3		
20882 <i>N 5880.7</i>	Pyrgos Marina.	34° 42.5' N 33° 10.1' E	<b>Fl.(2)W.</b> period 10s	30 9	10	Metal mast; 13.	
LIMASSOL:							
20884 <i>N 5877.4</i>	-New port, N. breakwater, head.	34° 39.1' N 33° 01.5' E	<b>Oc.G.</b> period 7s	43 13	10	Metal column; 30.	
20888 <i>N 5877</i>	--S. breakwater, head.	34° 39.0' N 33° 02.0' E	<b>Q.(6)R.</b> period 10s	30 9	12	Metal post; 30.	
20892 <i>N 5878</i>	-Range, front.	34° 38.6' N 33° 00.5' E	<b>F.G.</b>	19 6	2	Metal framework tower, orange diamond daymark.	
20896 <i>N 5878.1</i>	--Rear, 380 meters 248° from front.	34° 38.6' N 33° 00.3' E	<b>Oc.G.</b> period 5s lt. 4s, ec. 1s	39 12	2	Metal framework tower, orange diamond daymark.	
20901 <i>N 5881.1</i>	-S. breakwater, head.	34° 42.9' N 33° 19.1' E	<b>Fl.R.</b> period 5s				
20901.5 <i>N 5881.2</i>	-N. breakwater, head.	34° 43.0' N 33° 19.1' E	<b>Oc.G.</b> period 5s				
20902 <i>N 5881.3</i>	-Zygi Harbor, N. breakwater.	34° 43.6' N 33° 20.5' E	<b>Fl.(2)G.</b> period 8s	36 11	3	White concrete tower.	
20902.5 <i>N 5881.31</i>	--S. breakwater.	33° 43.6' N 33° 20.5' E	<b>Fl.(2)R.</b> period 8s	36 11	3	White concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CYPRUS</b>							
20904 N 5882	Cape Kiti, near extremity.	34° 49.0' N 33° 36.2' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	67 20	13	White stone tower.	
20908 N 5882.5	-Fishing harbor, E. breakwater.	34° 54.0' N 33° 38.4' E	<b>Fl.(2)R.</b> period 10s	20 6	3	White stone tower; 13.	
20912 N 5882.6	--W. breakwater.	34° 54.0' N 33° 38.4' E	<b>Fl.(2)G.</b> period 10s	20 6	3	White stone tower; 13.	
LARNACA:							
20916 N 5884	-Main harbor, S. breakwater, head.	34° 55.6' N 33° 38.9' E	<b>Fl.W.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	W. 10 R. 5		R. 075°-270°, W.-005°.
20920 N 5884.4	--N. breakwater, head.	34° 55.7' N 33° 38.7' E	<b>F.G.</b>	16 5	3		
20924 N 5883.1	-Yacht Harbor.	34° 55.1' N 33° 38.6' E	<b>F.R.</b>	20 6	1	Orange mast.	
20928 N 5883.6	--N. pier.	34° 55.0' N 33° 38.0' E	<b>F.G.</b>	10 3	1	Metal post.	
20932 N 5885	-Fishing Harbor.	34° 58.8' N 33° 44.2' E	<b>Fl.(2)G.</b> period 8s	20 6	3	White stone tower; 13.	
20940 N 5888	Cape Greco.	34° 57.5' N 34° 05.1' E	<b>Fl.W.</b> period 15s fl. 1.5s, ec. 13.5s	52 16	12	White stone tower; 49.	
FAMAGUSTA:							
20944 N 5892	<b>-SE. Bastion.</b>	35° 07.4' N 33° 56.8' E	<b>Fl.(2)W.</b> period 15s	75 23	16	Stone tower; 36.	Visible 150°-290°.
20948 N 5893	-NW. of town.	35° 08.5' N 33° 55.6' E	<b>Fl.W.R.</b> period 7s fl. 0.8s, ec. 6.2s	60 18	W. 15 R. 11	White concrete tower, black stripes; 36.	W. 178°-216°, R.-313°.
20952 N 5894	-Outer breakwater, head.	35° 08.1' N 33° 56.6' E	<b>Fl.(5)R.</b> period 5s	33 10	4	White metal framework tower, concrete base; 20.	
20956 N 5895	-Inshore breakwater, head.	35° 08.0' N 33° 56.5' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	32 10	4	White metal framework tower, concrete base; 20.	
20960 N 5896	-E. mole, head.	35° 07.8' N 33° 56.7' E	<b>Q.R.</b>	30 9	2	Black metal column; 26.	
20961 N 5897	-Boghaz, Fisherman's shelter.	35° 18.8' N 33° 57.3' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	4	White round tower, red top; 10.	
20965 N 5898	Cape Elea.	35° 19.8' N 34° 03.0' E	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	102 31	5	White concrete tower, black bands; 36.	
20968 N 5900	Klidhes Islands, Cape Andreas, off head.	35° 42.5' N 34° 36.3' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 16.5s	66 20	14	White metal tower; 33.	
RACON							
<b>Z(- - - •)</b>							
20970 N 5901	<b>Yeni Erenkoy</b> , fishing harbor.	35° 33.6' N 34° 12.6' E	<b>Fl.(2)W.</b> period 15s	72 22	15	White concrete tower; 10.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CYPRUS</b>							
20971 N 5901.6	<b>Kyrenia.</b>	35° 20.4' N 33° 19.8' E	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	59 18	20	White metal framework structure; 23.	
20972 N 5902	-Marina breakwater.	35° 20.6' N 33° 19.5' E	<b>Fl.G.</b> period 5s	33 10	4	White metal framework tower; 26.	
20973 N 5902.6	-Ferry harbor, N. breakwater, head.	35° 20.5' N 33° 20.3' E	<b>Fl.G.</b> period 3s	39 12	4	White concrete tower; 26.	
20973.5 N 5902.4	--S. breakwater, head.	35° 20.5' N 33° 20.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	4	White concrete tower; 26.	
20976 N 5904	<b>Cape Kormakiti.</b>	35° 24.2' N 32° 55.2' E	<b>Fl.(2)W.</b> period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	100 30	15	White metal framework tower; 72.	
KARAVOSTASI:							
20980 N 5906	-Xeros Pier, root.	35° 08.5' N 32° 50.3' E	<b>Fl.R.</b> period 3s fl. 0.2s, ec. 2.8s	62 19	7	Gray metal tripod, building; 23.	
20984 N 5907	-W. pier, head.	35° 09.0' N 32° 49.0' E	<b>Fl.W.</b> period 5s	60 18	5		
20985 N 5907.5	Moulia Rocks.	34° 43.4' N 32° 26.1' E	<b>Fl.(2)W.</b> period 10s	20 6	6		
20986 N 5907.6	<b>Cape Akamas.</b>	35° 05.5' N 32° 16.9' E	<b>Fl.(2)W.</b> period 15s	692 211	17	Post; 10.	
<b>SYRIA</b>							
20988 N 5919	Ra's al Basit.	35° 51.1' N 35° 48.3' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	246 75	14	White tower; 39.	
20992 N 5919.4	Ra's al Fasuri.	35° 40.4' N 35° 46.4' E	<b>Q.(3)W.</b> period 5s	243 74	5	White tower, black bands.	
20996 N 5920	Ra's Iban Hani.	35° 35.2' N 35° 43.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	59 18	12	White tower.	
21004 N 5921.6	Al Ladhqiyyah, breakwater, head.	35° 31.9' N 35° 45.3' E	<b>L.Fl.G.</b> period 4s	13 4	5	Green pylon.	
21005 N 5921.5	-Range, front.	35° 31.8' N 35° 46.1' E	<b>Fl.(2)R.</b> period 5s		6		
21005.1 N 5921.51	--Rear, 115°36' from front.	35° 31.7' N 35° 46.4' E	<b>Fl.(2)R.</b> period 5s		6		
21006 N 5921.4	-El Burj.	35° 30.9' N 35° 46.1' E	<b>Fl.(2)W.</b> period 9s	72 22	10	White tower; 16.	
21007 N 5921.71	-Marina, S. breakwater, head.	35° 32.5' N 35° 45.7' E	<b>Fl.G.</b> period 5s				
21007.1 N 5921.7	--N. breakwater, head.	35° 32.5' N 35° 45.8' E	<b>Fl.R.</b> period 3s				
JABLAH (DJEBLE):							
21012 N 5922	-W. breakwater, head.	35° 21.6' N 35° 55.0' E	<b>Q.G.</b>	23 7	4	Black pylon.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SYRIA</b>							
21016 N 5922.2	-E. breakwater, head.	35° 21.6' N 35° 55.1' E	<b>Q.R.</b>	20 6	5	Black pylon.	Fishing light.
BANIYAS:							
21020 N 5923	-Boat harbor, W. breakwater, head.	35° 13.4' N 35° 56.7' E	<b>Fl.W.</b> period 5s	19 6	4	Black pylon.	
21024 N 5923.2	--E. breakwater, head.	35° 13.4' N 35° 56.8' E	<b>Fl.R.</b> period 10s	19 6	3	Black pylon.	
21032 N 5923.5	<b>Baniyas.</b>	35° 08.8' N 35° 55.3' E	<b>Fl.(3)W.R.</b> period 17s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 11.8s	321 98	W. 16 R. 12	White concrete tower; 36.	W. 015°-175°, R.-195°.
TARTUS:							
21039 N 5923.7	-W. breakwater, head.	34° 54.6' N 35° 51.3' E	<b>Fl.G.</b> period 4s			Green tower, white bands.	
21040 N 5923.8	-E. breakwater, head.	34° 54.6' N 35° 51.6' E	<b>Fl.R.</b> period 4s	23 7	5	Black metal framework tower.	
21044 N 5924	Jazirat Anwad.	34° 51.4' N 35° 51.4' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	66 20	12	White tower, fort; 13.	
21045 N 5924.2	-E. jetty, head.	34° 51.4' N 35° 51.7' E	<b>Q.G.</b>	10 3	1	Black pylon.	
21045.5 N 5924.3	-S. jetty, head.	34° 51.4' N 35° 51.7' E	<b>Q.R.</b>	10 3	1	Black pylon.	
<b>LEBANON</b>							
TARABULUS (TRIPOLI):							
21048 N 5926	<b>-Jazirat Ramkin.</b>	34° 29.8' N 35° 45.6' E	<b>Fl.W.</b> period 3.3s fl. 0.8s, ec. 2.5s	72 22	18	White tower; 16.	
21052 N 5927	--NE. head.	34° 28.3' N 35° 49.9' E	<b>Fl.G.</b> period 4.5s fl. 0.3s, ec. 4.2s	33 10	5		
21054 N 5927.2	--E. breakwater, head.	34° 28.0' N 35° 50.0' E	<b>Fl.R.</b>				
21060 N 5927.6	-Tower of Lions.	34° 27.0' N 35° 49.8' E	<b>Fr.R.</b>		3	Tower; 69.	Occasional.
21064 N 5929	Kalmoun.	34° 23.2' N 35° 47.1' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	16 5	3	White pylon, black bands.	
21068 N 5929.2	Anfan.	34° 21.6' N 35° 44.0' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	16 5	3	White pylon, black bands.	
21072 N 5929.4	Ra's ash Shaq'ah.	34° 19.5' N 35° 43.4' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	10 3	3	White pylon, black bands.	
21076 N 5929.6	Al Batrun.	34° 15.1' N 35° 39.5' E	<b>Fl.G.</b> period 2s fl. 0.3s, ec. 1.7s	16 5	3	White pylon, black bands.	
21080 N 5929.8	Fad'us.	34° 14.3' N 35° 39.4' E	<b>Fl.R.</b> period 2s fl. 0.3s, ec. 1.7s	23 7	3	White pylon, black bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LEBANON</b>							
21084 N 5930	Ra's Amshit.	34° 09.1' N 35° 37.6' E	<b>Fl.W.</b> period 2s fl. 0.3s, ec. 1.7s	20 6	3	White pylon, black bands.	
21088 N 5931.2	Jubayl, E. side of entrance.	34° 06.4' N 35° 38.9' E	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	5	Pylon.	A light, Fl.R. 3s, is shown from side of old wall.
21092 N 5932	Tabarja.	34° 01.7' N 35° 37.4' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	5	White tower, black bands.	
PORT DE JOUN'E:							
21094 N 5933	-Yacht Basin, mole, head.	33° 59.2' N 35° 37.4' E	<b>Fl.(2)G.</b> period 3s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 1.6s	33 10	8	White pylon, black bands.	
21096 N 5933.1	--Quay at entrance.	33° 59.2' N 35° 37.4' E	<b>Fl.R.</b> period 3s fl. 0.4s, ec. 2.6s	26 8	5	White pylon, black bands.	
21104 N 5933.3	-Naval basin, jetty, head.	33° 59.2' N 35° 37.6' E	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	33 10	8	White pylon, black bands.	
21116 N 5934	<b>-Ra's Bayrut.</b>	33° 54.0' N 35° 28.2' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	171 52	22	Stone tower, metallic dome; 89.	F.R., F.W. lights on radio mast 0.6 miles ENE.
BAYRUT (BEIRUT):							
21120 N 5935	-N. mole.	33° 54.6' N 35° 31.5' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	46 14	8	White pylon, black bands.	
21121 N 5935.5	--NE end.	33° 54.9' N 35° 32.0' E	<b>Fl.(2)G.</b>			Metal tower.	
21122 N 5935.8	-Breakwater, W. head.	33° 54.7' N 35° 32.0' E	<b>Fl.(3)R.</b> period 3s			Red metal tower.	
21122.2 N 5935.9	--Elbow.	33° 54.7' N 35° 32.1' E	<b>Mo.(D)Y.</b>			Metal tower.	
21122.4 N 5935.95	--E. head.	33° 54.7' N 35° 32.3' E	<b>Fl.G.</b> period 2s			Green metal tower.	
21128 N 5938.1	-Airport AVIATION LIGHT.	33° 49.4' N 35° 29.3' E	<b>Mo.(BL)G.</b> period 12s	141 43	17	Hangar.	
21132 N 5938	--AVIATION LIGHT.	33° 49.4' N 35° 29.3' E	<b>Al.Fl.W.G.</b> period 4s	138 42	17	Control tower.	
SAYDA (SIDON):							
21140 N 5940	-Az Zirah.	33° 34.3' N 35° 22.1' E	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	33 10	6	White pylon; 13.	
21148 N 5940.5	-Port entrance, S. side.	33° 34.1' N 35° 22.2' E	<b>Lit</b>				
AZ ZAHRANI:							
21152 N 5941	-Oil Terminal.	33° 30.0' N 35° 20.6' E	<b>Fl.R.</b> period 2s	184 56		Red and white pylon.	F.R. lights shown 14 and 27 meters below this light on same structure.
21156	-Range No 1, front.	33° 30.0' N 35° 20.0' E	<b>F.G.</b>	46 14			4 floodlights are shown NE. while ships are mooring.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LEBANON</b>							
21160	--Rear, about 544 meters 179° from front.	33° 00.1' N 35° 20.4' E	<b>F.G.</b>		64 20		Shown on approach to No 1 berth.
21164	-Range No 2, front.	33° 30.0' N 35° 20.0' E	<b>F.R.</b>		51 16		
21168	--Rear, about 466 meters 180°30' from front.	32° 29.9' N 35° 20.5' E	<b>F.R.</b>		82 25		Shown on approach to No 2 berth.
21172	-Range No 3, front.	33° 31.0' N 35° 21.0' E	<b>F.G.</b>		42 13		
21176	--Rear, about 430 meters 180° from front.	33° 00.1' N 35° 20.7' E	<b>F.G.</b>		47 14		Shown on approach to No 3 berth.
21180	-Range No 4, front.	33° 30.0' N 35° 21.0' E	<b>F.R.</b>		54 16		
21184	--Rear, about 576 meters 180° from front.	33° 00.1' N 35° 20.8' E	<b>F.R.</b>		150 46		Shown on approach to No 4 berth.
21188 N 5941.8	As Sarafand.	33° 26.1' N 35° 15.7' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s		16 5	3 White pylon, black bands.	
SUR (TYRE):							
21192 N 5942	-On old fort NW. of town.	33° 16.6' N 35° 11.6' E	<b>Fl.(3)W.</b> period 12s fl. 0.3s, ec. 1.8s fl. 0.3s, ec. 1.8s fl. 0.3s, ec. 7.5s		49 15	12 White tower; 20.	
21196 N 5943.2	-Port entrance, N. side.	33° 17.0' N 35° 11.0' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s		21 6	3	
21200 N 5943	-Port entrance, S. side.	33° 16.5' N 33° 11.5' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s		21 6	3	
<b>ISRAEL</b>							
21202 N 5943.7	Tekhelet Island.	33° 04.8' N 35° 05.7' E	<b>Fl.R.</b> period 10s			2 White pillar.	
21204 N 5944	Akko (Acre), S. of town.	32° 55.2' N 35° 04.0' E	<b>Fl.(2)W.</b> period 7s		51 16	10 Black and white checkered tower; 33.	
21208 N 5944.2	-Akko Harbor, breakwater, head.	32° 55.2' N 35° 04.2' E	<b>Q.(3)R.</b> period 5s			1 Red tower, white bands, gallery.	
21209 N 5944.3	--Manara Rock.	32° 55.1' N 35° 04.3' E	<b>Q.(3)G.</b> period 5s			3 Green tower, white bands, gallery.	
21212 N 5945	<b>Har Karmel (Mount Carmel).</b>	32° 49.7' N 34° 58.1' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s		587 179	30 White round tower, building; 66.	Visible 289°-263°. Partially obscured 235°-236°.
HAIFA:							
21217 N 5946.05	-Main breakwater, middle.	32° 49.6' N 35° 00.7' E	<b>Fl.(3)W.</b> period 10s		36 11	Green metal pole, concrete base; 16.	
21218 N 5946.1	--Elbow.	32° 49.5' N 35° 00.5' E	<b>Iso.W.</b> period 5s		36 11	Green metal pole, concrete base; 23.	2 Q.G. lights mark dolphins 485 meters and 765 meters W.
21220 N 5947	-Lee breakwater, head.	32° 49.4' N 35° 00.6' E	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s		46 14	5 White concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ISRAEL</b>							
21221 N 5949.3	-Karmel Container Terminal, Basin.	32° 48.9' N 35° 00.8' E	<b>Q.Bu.</b>		36 11	Green metal pole, concrete base; 23.	
21221.4 N 5949	--W. corner.	32° 49.2' N 35° 00.8' E	<b>Fl.(2)R.</b> period 5s		20 6	Red and white metal pole; 10.	
21221.6 N 5949.5	--E. corner.	32° 49.3' N 35° 00.9' E	<b>Fl.(3)G.</b> period 10s		20 6	Green and white metal pole; 10.	
-Qishon (Kishon):							
21232 N 5953	--S. breakwater, head.	32° 49.0' N 35° 01.4' E	<b>Q.(2)G.</b> period 5s		20 6	4 Gray metal framework tower.	
21232.5 N 5952.5	---NE.	32° 49.0' N 35° 01.4' E	<b>Fl.G.</b>		10 3	1 White metal post; 10.	
21233 N 5953.1	--RoRo pier.	32° 48.5' N 35° 01.7' E	<b>Q.G.</b>			Blue post.	
21234 N 5954	Port of Hadera, jetty, head.	32° 28.2' N 34° 51.8' E	<b>F.R.</b>		62 19	2	Lights of port difficult to distinguish against shore lights.
21234.2 N 5954.5	-W. breakwater, head.	32° 28.4' N 34° 52.8' E	<b>Fl.G.</b> period 2s		30 9	3	
21234.4 N 5954.6	-E. breakwater, head.	32° 28.4' N 34° 52.8' E	<b>Fl.R.</b> period 5s		30 9	2	
21236 N 5956	Mikhmoret, at Nautical School.	32° 24.2' N 34° 52.0' E	<b>Al.FI.W.R.</b> period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s		46 14	10	Concrete building.
21238 N 5957	Herzlia Marina, breakwater.	32° 09.9' N 34° 47.6' E	<b>Fl.G.</b> period 5s		49 15	12	Fl.R. 5s marks lee breakwater.
TEL AVIV:							
21240 N 5958.4	-Power station, breakwater.	32° 06.5' N 34° 46.4' E	<b>Fl.(2)R.</b> period 5s fl. 0.4s, ec. 1s fl. 0.4s, ec. 3.2s		29 9	2	White metal column; 13.
21252 N 5959.4	-Marina, breakwater.	32° 05.3' N 34° 46.0' E	<b>Fl.(5)G.</b> period 20s		33 10		Red pole, white bands.
JAFFA:							
21256 N 5963	-Breakwater, head.	32° 03.3' N 34° 45.0' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s			7	
21257 N 5962.4	-Range, front.	32° 03.3' N 34° 45.1' E	<b>F.R.</b>				Occasional.
21258 N 5962.5	--Rear, 129° from front.	32° 03.3' N 34° 45.1' E	<b>F.R.</b>				Occasional.
21259 N 5964	-Sela Andromeda, SE.	32° 03.4' N 34° 45.1' E	<b>Q.Y.</b>			2	Orange pillar.
21259.5 N 5965	Kefar HaNagid AVIATION LIGHT.	31° 53.6' N 34° 45.4' E	<b>Fl.R.</b> period 1.5s		614 187		Radio mast; 384.
<b>2 F.R.</b>							
21260 N 5967	<b>Ashdod.</b>	31° 48.8' N 34° 38.8' E	<b>Fl.(3)W.</b> period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s		249 76	22	Red and white checkered concrete tower; 138.
21264 N 5968	-Main breakwater.	31° 50.6' N 34° 38.3' E	<b>Fl.G.</b> period 2s			7	

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<b>ISRAEL</b>							
21268 N 5969	-Lee breakwater.	31° 49.9' N 34° 38.4' E	<b>Fl.R.</b> period 2s		7		
21269 N 5969.5	-Central jetty.	31° 50.6' N 34° 39.1' E	<b>Fl.W.</b> period 5s	10 3	2		
21272 N 5970	<b>Tel Ashqelon.</b>	31° 38.2' N 34° 32.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 8.2s		15		
21272.1 N 5970.5	-Marina, outer breakwater.	31° 41.1' N 34° 33.4' E	<b>Fl.(2)G.</b> period 5s		7	White round column.	
21272.15 N 5970.6	--Inner breakwater.	31° 41.0' N 34° 33.4' E	<b>Fl.R.</b>			White round column.	
21272.2 N 5971	-Harbor, outer breakwater.	31° 38.4' N 34° 31.2' E	<b>Fl.(2)G.</b> period 6s		4		
21272.3 N 5971.1	--Inner breakwater.	31° 38.4' N 34° 31.3' E	<b>Fl.(2)R.</b> period 10s				
21272.35 N 5971.15	---S. end.	31° 38.3' N 34° 31.3' E	<b>Fl.R.</b> period 4s				
21272.4 N 5971.3	--S. breakwater.	31° 38.2' N 34° 31.3' E	<b>Fl.G.</b> period 4s				
21272.5 N 5971.5	-Coal Jetty, head.	31° 38.1' N 34° 29.6' E	<b>F.G.</b>				
21273 N 7700	Mari-B.	31° 44.1' N 34° 17.8' E	<b>Mo.(U)W.</b>		10	Platform.	<b>Horn:</b> Mo.(U).
<b>EGYPT</b>							
21274 N 5973	<b>El Arish.</b>	31° 09.0' N 33° 50.0' E	<b>Fl.W.</b> period 5s	128 39	18	White concrete tower, black bands.	
	RACON		<b>G(- - •)</b>				(3 & 10cm).
	BUR SA'ID (PORT SAID):						
21276 N 5978.2	<b>-Port Said.</b>	31° 16.4' N 32° 17.5' E	<b>Fl.W.</b> period 10s	154 47	20	Framework tower, white daymark.	<b>Radiobeacon. DGPS Station.</b>
	-RACON		<b>TS(- •••)</b>				(3 & 10cm).
21284 N 5980	-Entrance Range, front.	31° 15.0' N 32° 18.2' E	<b>F.R.</b>	118 36	6	Gray metal framework tower, triangular daymark point up; 131.	Visible 207°-229°.
			<b>Aero F.R.</b>				
21288 N 5980.1	--Rear, 1100 meters 217°40' from front.	31° 14.5' N 32° 17.8' E	<b>Oc.(2)R.</b> period 10s lt. 1.5s, ec. 1s lt. 6.5s, ec. 1s	151 46	7	Gray metal framework tower, round daymark; 177.	Visible 207°-229°.
			<b>Aero F.R.</b>				
21292 N 5979	-E. breakwater, head.	31° 16.5' N 32° 19.8' E	<b>Oc.R.</b> period 6s			Metal framework tower.	
21292.5 N 5978.6	<b>-El Bahar Tower.</b>	31° 18.1' N 32° 21.6' E	<b>Iso.W.</b> period 2s	138 42	15	White framework tower, red bands; 138.	<b>Horn:</b> 1 bl. ev. 2s.

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<b>EGYPT</b>							
SUEZ CANAL:							
The Suez Canal is marked by articulated beacons.							
21293 <i>N 5983</i>	-Breakwater, E. side.	31° 15.0' N 32° 21.6' E	<b>F.W.</b>			Red metal tower, white bands.	
21294 <i>N 5983.2</i>	--W. side.	31° 14.6' N 32° 20.5' E	<b>F.W.</b>			Green metal tower, white bands.	
21300 <i>N 5985</i>	-Bur Sa'id Bypass, E. side.	31° 13.4' N 32° 20.8' E	<b>Fl.(2)R.</b> period 10s		82 25	Gray metal tower, black top; 33.	
21304 <i>N 5985.2</i>	--W. side.	31° 13.5' N 32° 20.5' E	<b>Fl.(2)G.</b> period 10s		82 25	Gray metal tower, black band, lantern; 131.	
MASABB DUMYAT:							
21308 <i>N 6156</i>	<b>-Dumyat (Damietta).</b>	31° 31.4' N 31° 50.8' E	<b>Fl.(2)W.</b> period 30s		154 47	Framework tower, white dwelling, white daymark.	<b>Radiobeacon.</b>
	-RACON		<b>DA(- • • • -)</b>		20		(3 & 10cm).
21312 <i>N 6158</i>	--W. side of entrance.	31° 31.7' N 31° 50.6' E	<b>Fl.G.</b> period 10s		46 14	Green concrete tower; 33.	
21316 <i>N 6158.5</i>	-El Ghirby.	31° 30.2' N 31° 50.0' E	<b>Fl.G.</b> period 3s		12 4	White pyramidal tower, black bands, concrete base; 13.	
21317 <i>N 6159</i>	Damietta Port Range, front.	31° 27.7' N 31° 45.1' E	<b>F.R.</b>		108 33	Round metal tower, rectangular daymark.	
21317.1 <i>N 6159.1</i>	-Rear, 170 meters 191°30' from front.	31° 27.6' N 31° 45.1' E	<b>F.R.</b>		135 41	Metal framework tower, rectangular daymark.	
21318 <i>N 6159.3</i>	-W. breakwater.	31° 29.6' N 31° 45.4' E	<b>Fl.G.</b> period 5s		33 10	Green metal tower; 33.	
21318.5 <i>N 6159.4</i>	-E. breakwater.	31° 29.4' N 31° 45.7' E	<b>Fl.(2)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s		33 10	Red metal tower; 33.	
21319 <i>N 6159.6</i>	--No 37.	31° 28.1' N 31° 45.7' E	<b>Fl.Bu.</b> period 2.5s fl. 0.5s, ec. 2s		7	Tower; 10.	
21320 <i>N 6162</i>	<b>Burullus.</b>	31° 35.9' N 31° 04.9' E	<b>Fl.(3)W.</b> period 20s		154 47	Framework tower, white dwelling, white daymark.	<b>Radiobeacon.</b>
	RACON		<b>BR(- • • • • - •)</b>				
21322	Rashid Gas Platform RACON.	31° 50.8' N 30° 38.1' E	<b>G(- - •)</b>				(3 & 10cm).
21324 <i>N 6166</i>	<b>Raschid (Rosetta).</b>	31° 26.6' N 30° 25.9' E	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 10.8s		154 47	Framework tower, white dwelling, white daymark.	Aeromarine light. <b>Radiobeacon.</b>
	RACON		<b>TA(- • -)</b>				(3 & 10cm).
21324.5 <i>N 6167.5</i>	Idku LNG Port Range, front.	31° 22.2' N 30° 18.4' E	<b>F.R.</b>		39 12	Red tower, red triangular daymark point up.	
21324.6 <i>N 6167.501</i>	-Rear, 200 meters 135° from front.	31° 22.1' N 30° 18.5' E	<b>F.R.</b>		75 23	Red tower, red rectangular daymark.	
21325 <i>N 6167</i>	Idku LNG Port, detached breakwater, NE.	31° 22.5' N 30° 17.7' E	<b>Q.G.</b>		36 11	STARBOARD (A) G, post, topmark.	

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<b>EGYPT</b>							
21325.1 <i>N 6167.1</i>	-Detached breakwater, SW.	31° 22.1' N 30° 17.5' E	<b>Q.(6)+L.FI.W.</b> period 15s	36 11	4	S. CARDINAL YB, post, topmark.	
21326 <i>N 7761</i>	-N. Abu Qir Gas Field Platform, NAQ P-1D.	31° 35.8' N 30° 06.7' E	<b>Mo.(U)W.</b> period 15s				
	-RACON		<b>Q(- - • -)</b>				(3 & 10cm).
21328 <i>N 6168</i>	Geziret Disuqi, summit.	31° 21.5' N 30° 06.3' E	<b>FI.W.</b> period 5s	72 22	12	White metal mast, red top; 33.	
	RACON		<b>D(- • •)</b>				(3 & 10cm).
21330 <i>N 6168.2</i>	Abu Qir, breakwater, head.	31° 19.9' N 30° 05.0' E	<b>Oc.W.</b> period 3s lt. 2s, ec. 1s	56 17	5		
21331 <i>N 6168.3</i>	-Entrance Range, front.	31° 18.6' N 30° 04.9' E	<b>FR.W.</b> (vert.)	66 20	5	Red and white metal tower, black bands, white triangular daymark point up; 49.	
21331.1 <i>N 6168.31</i>	--Rear, 195° from front.	31° 18.5' N 30° 04.8' E	<b>F.G.W.</b> (vert.)	75 23	5	Red and white metal tower, black bands, white triangular daymark point down; 59.	
21331.5 <i>N 6168.4</i>	-S. building.	31° 17.7' N 30° 04.6' E	<b>FI.R.</b> period 2s	85 26	2	Column.	
21331.7 <i>N 6168.75</i>	El-Ma'addiya Port.	31° 16.2' N 30° 08.4' E	<b>FI.(2)Y.</b> period 5s	13 4	3	Beacon.	
AL ISKANDARIYAH (ALEXANDRIA):							
21332 <i>N 6171</i>	-Eastern Harbor, W. breakwater, head.	31° 12.9' N 29° 53.5' E	<b>FI.G.</b> period 5s	69 21	8	Green metal mast; 33.	
21336 <i>N 6170</i>	--Al Silsila breakwater, W. head.	31° 12.9' N 29° 53.7' E	<b>FI.R.</b> period 5s	46 14	5	Red concrete tower; 20.	
21340 <i>N 6171.4</i>	-Qaitbai Fort.	31° 12.8' N 29° 53.1' E	<b>F.Y.</b>				
21344 <i>N 6173</i>	-Ra's at Tin.	31° 11.7' N 29° 51.7' E	<b>FI.(2+1)W.</b> period 30s fl. 0.2s, ec. 4s fl. 0.2s, ec. 12.7s fl. 0.2s, ec. 12.7s	171 52	21	White round tower, black bands; 180.	F.R. 27m on radio masts 0.2 and 0.3 mile NE. Storm signals.
	-RACON		<b>X(- • • -)</b>				(3 & 10cm).
21356 <i>N 6176</i>	-Great Pass, entrance Range, front.	31° 09.3' N 29° 50.8' E	<b>2 FR.</b> (vert.)	58 18	5	White round tower, red stripe; 66.	10 meters apart. Visible 050°-150°. <b>DGPS Station.</b>
			<b>F.W.</b>	43 13			Visible 150°-050°.
21360 <i>N 6176.1</i>	--Al Maks, rear, 740 meters 113° from front.	31° 09.1' N 29° 51.2' E	<b>2 F.W.</b> (vert.)	124 38	10	White round tower, black top with ball and spike.	9 meters apart. Visible 095°30'-169°30'.
21370 <i>N 6174</i>	-Great Pass.	31° 10.0' N 29° 48.5' E	<b>FI.W.</b> period 4s fl. 1s, ec. 3s	69 21	16	White round concrete tower, red and green bands.	
	RACON		<b>M(- -)</b>		25		(3 & 10cm).
21376 <i>N 6176.5</i>	--N. shoal, beacon.	31° 10.0' N 29° 49.2' E	<b>FI.R.</b> period 5s		5	Red square metal tower, white bands; 23.	
21380 <i>N 6180</i>	-Outer Harbor, outer breakwater, head.	31° 09.9' N 29° 50.8' E	<b>FI.R.</b> period 3s	66 20	10	Red metal framework tower, white stripes.	
21384 <i>N 6182</i>	--Quarantine breakwater, head.	31° 09.9' N 29° 51.1' E	<b>FI.G.</b> period 3s	66 20	10	Green metal framework tower.	

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<b>EGYPT</b>							
21388 N 6183	--Petroleum harbor, W. head.	31° 10.0' N 29° 51.2' E	<b>Fl.G.</b> period 5s	18 5	2		
21390 N 6183.3	--E. head.	31° 10.0' N 29° 51.3' E	<b>Fl.R.</b> period 5s	16 5	2		
21400 N 6186.5	-Inner harbor, coal quay, S. head.	31° 10.9' N 29° 52.2' E	<b>Fl.(2)R.</b> period 10s	23 7		White and red framework tower; 13.	
21408 N 6189	--Arsenal Basin, W. mole, head.	31° 11.8' N 29° 52.6' E	<b>Fl.R.</b> period 3s	59 18		White and red metal framework tower.	
21412 N 6190	---Arsenal Quay.	31° 11.8' N 29° 52.7' E	<b>Fl.G.</b>				
21412.5 N 6173.5	<b>-El Agamy.</b>	31° 08.9' N 29° 47.2' E	<b>Fl.(2)W.</b> period 15s	56 17	15	White stone tower, black stripes; 46.	
	RACON		<b>O(---)</b>				(3 & 10cm).
21413 N 6191	-El Dikhelia Range, front.	31° 08.4' N 29° 48.6' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	45 14	14	White round metal beacon, black bands.	
21413.5 N 6191.1	--Rear, 650 meters 173° from front.	31° 08.0' N 29° 48.7' E	<b>Iso.W.</b> period 2s	102 31	17	Yellow concrete tower, red bands.	
21413.7 N 6191.2	--Breakwater, head.	31° 09.3' N 29° 48.3' E	<b>Fl.(1+3)G.</b> period 4s	30 9	5		
21414 N 6191.3	--Jetty, head.	31° 08.4' N 29° 48.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33 10	2	Metal beacon; 16.	
21416 N 6179	-Al Dukhaylah AVIATION LIGHT.	31° 07.7' N 29° 48.1' E	<b>Al.Fl.W.G.</b>	30 9			
21418 N 6193	<b>Ra's el Shaqiq.</b>	30° 57.2' N 28° 49.7' E	<b>Fl.(3)W.</b> period 15s	154 47	20	Framework tower, white daymark.	<b>Radiobeacon.</b>
	RACON		<b>Q(- • -)</b>				(3 & 10cm).
21420 N 6194	Ra's Alam ar Rum.	31° 21.8' N 27° 20.5' E	<b>Fl.W.</b> period 5s	157 48	12	White metal mast, red band; 33.	
	RACON		<b>Z(- • •)</b>				(3 & 10cm).
21422 N 6198	-Mersa Matruh, entrance, W. side.	31° 22.2' N 27° 13.7' E	<b>Q.G.</b>	20 6	5	Green round fiberglass tower.	
21422.1 N 6198.1	--E. side.	31° 22.1' N 27° 13.8' E	<b>Q.R.</b>	20 6	5	Red round fiberglass tower.	
21424 N 6204	Sidi Barrani (Ras Haleima).	31° 37.4' N 25° 54.3' E	<b>Fl.(2)W.</b> period 15s	66 20	12	White steel post, red top, concrete base; 33.	
	RACON		<b>K(- • -)</b>				
21428 N 6206	As Sallum, pier, head.	31° 33.6' N 25° 09.9' E	<b>Fl.(3)W.</b> period 20s	46 14	12	White steel post, black top, concrete base; 33.	
	RACON		<b>M(- -)</b>				
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<b>LIBYA</b>							
21432 N 6210	Bardiyah (Bardia).	31° 45.0' N 25° 06.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	322 98	12	Metal framework tower, black and white concrete base.	
21436 N 6214	Ra's Azzaz, on point.	31° 57.8' N 24° 58.8' E	<b>Fl.W.</b> period 3s	52 16	10	White framework tower; 36.	

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<b>LIBYA</b>							
MARSA TUBRUQ (TOBRUK):							
21440 N 6221	-On the point.	32° 04.3' N 24° 00.5' E	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	20 6	6	White pyramidal tower, black stripes; 16.	
21444 N 6224	-Range, front.	32° 03.2' N 24° 00.8' E	<b>Q.W.</b>	69 21	7	Metal framework tower, white diamond daymark.	Occasional.
21448 N 6224.1	--Rear, 314 meters 224°48' from front.	32° 03.0' N 24° 00.6' E	<b>Iso.W.</b> period 2s	85 26	7	Metal framework tower, white diamond daymark.	Occasional.
21450 N 6226	-Marsa El Hariga, oil terminal, E. end.	32° 03.6' N 24° 00.1' E	<b>F.R.</b>	30 9	2	Dolphin.	
21450.1 N 6226.2	--Berth No 2, E. end.	32° 03.6' N 24° 00.0' E	<b>2 F.G.</b> (vert.)	33 10	2		2 meters apart.
21450.2 N 6226.4	---W. end.	32° 03.6' N 24° 00.0' E	<b>2 F.G.</b> (vert.)	33 10	2		2 meters apart.
21451 N 6227	--T-head pier, center.	32° 03.9' N 23° 59.2' E	<b>2 F.G.</b>		2		2 F.R. mark E. and W. ends of jetty head.
21452 N 6220	-Main light.	32° 05.2' N 23° 59.2' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	174 53	15	Metal framework tower, black and white checkered building.	
21456 N 6228	-Quay No 4, extension.	32° 04.5' N 23° 58.8' E	<b>Q.R.</b>				
21464 N 6230	-Quay No 1, W. end.	32° 04.7' N 23° 58.4' E	<b>Oc.R.G.</b> period 15s lt. 10s, ec. 5s				G. 301°-026°, R.-181°.
21468 N 6234	Ra's at Tin.	32° 37.7' N 23° 06.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	110 34	10	Black metal framework tower; 23.	
DARNAH (DERNA):							
21472 N 6236	-Derna.	32° 44.5' N 22° 40.6' E	<b>Fl.(4)W.</b> period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	197 60	20	White tower, black stripes; 39.	
21476 N 6239	-N. mole, head.	32° 45.8' N 22° 39.6' E	<b>Q.G.</b>	46 14	8		
21480 N 6238	-S. mole, head.	32° 45.9' N 22° 39.7' E	<b>Q.R.</b>	46 14	8		
21484 N 6242	Ra's al Hilal.	32° 55.3' N 22° 10.8' E	<b>Fl.(3)W.</b> period 17.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 10s	72 22	10	Black and white checkered pyramid; 39.	Obscured on bearings less than 100°.
21488 N 6244	Apollonia.	32° 54.1' N 21° 58.0' E	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	82 25	11	White concrete tower; 23.	
21492 N 6246	Ra's Amir.	32° 56.3' N 21° 42.4' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	95 29	11	White concrete tower, black bands; 36.	
21496 N 6248	Tulmaythah, summit of point.	32° 43.0' N 20° 56.5' E	<b>Fl.(3)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	69 21	12	Black metal framework tower, black bands, white concrete base; 52.	Reserve light of low power, F.W., F.R. and Fl.R. lights on radio tower exist 20M. SW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LIBYA</b>							
21500 N 6250	Sidi Suwaykir.	32° 19.7' N 20° 17.5' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	69 21	13	White square tower; 49.	
21504 N 6251.5	-Ras el Mingar, jetty extension.	32° 11.1' N 20° 05.3' E	<b>Fl.W.</b> period 3s	42 13	5	Dolphin.	
21508 N 6251.8	<b>Banghazi.</b>	32° 07.5' N 20° 03.8' E	<b>Fl.W.</b> period 3s	133 41	17	Brown water tower; 73.	F.R. and Fl.R. lights on radio mast 2.5 km. 130°30'. F.R. light on radio mast 4.54 km 203°.
21509 N 6252	-Main harbor, N. breakwater, head.	32° 06.9' N 20° 01.8' E	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	43 13	6	Red and white structure.	
21509.1 N 6252.2	--W. breakwater, N. head.	32° 06.9' N 20° 02.1' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	43 13	6	White tower, black bands.	
21510 N 6252.4	--	32° 07.2' N 20° 02.6' E	<b>Dir.W.R.G.</b>	43 13	W. 14 R. 9 G. 9	Red and white structure.	F.G. 062°30'-064°42', F.W.-067°12', F.R.-069°30'.
21511 N 6252.6	--No 4 Berth.	32° 06.9' N 20° 02.5' E	<b>Q.R.</b>	16 5	1		
21511.5 N 6252.7	--No 3 Berth.	32° 07.0' N 20° 02.7' E	<b>Q.W.</b>	16 5	3		
21512 N 6253	--Central Mole, head.	32° 07.2' N 20° 02.8' E	<b>Q.G.</b>	16 5	1		
21516 N 6253.2	-Inner Harbor, Italia Mole, head.	32° 07.0' N 20° 03.1' E	<b>Fl.R.</b> period 3s fl. 0.8s, ec. 2.2s	16 5	2		
21517 N 6253.3	--No 1/18 Berth.	32° 06.9' N 20° 03.0' E	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	16 5	4		
21518 N 6253.4	--No 19/M8 Berth.	32° 06.8' N 20° 03.2' E	<b>Q.W.</b>	16 5	3		
21519 N 6253.5	--MB Berth.	32° 06.5' N 20° 03.2' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	16 5	3		
21520 N 6253.6	--No B22 Berth.	32° 06.9' N 20° 03.3' E	<b>Q.R.</b>	16 5	1		
21521 N 6253.7	--No B22A Berth.	32° 07.0' N 20° 03.3' E	<b>Fl.(3)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	16 5	2		
21524 N 6254.5	-Outer harbor, W. breakwater, S. head.	32° 05.9' N 20° 02.5' E	<b>Q.R.</b>	43 13	4		
21526 N 6254.6	--Breakwater, head.	32° 05.7' N 20° 02.5' E	<b>Iso.W.</b> period 5s	33 10	6		
21528 N 6254.7	--Breakwater, head.	32° 05.9' N 20° 02.6' E	<b>Fl.(3)G.</b> period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 7.1s	43 13	4		
21534 N 6255.4	-Radio mast.	30° 53.8' N 20° 03.9' E	<b>Q.R.</b>	449 137	15	Radio mast.	F.R. 97m and F.R. 56m on same structure.
21540 N 6255.5	-Range, front.	30° 53.2' N 20° 03.7' E	<b>Fl.Y.</b> period 1.5s fl. 0.5s, ec. 1s	23 7	10	Mast, tripod, black and red rectangular daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LIBYA</b>							
21544 N 6255.51	--Rear, 750 meters 135° from front.	30° 52.9' N 20° 04.0' E	<b>Oc.Y.</b> period 10s lt. 6s, ec. 4s	43 13	10	Mast, tripod, black and red rectangular daymark.	
21545 N 6255.6	--Wayfeya.	30° 54.0' N 20° 03.4' E	<b>Fl.(6)W.</b> period 10s		5	White mast.	
21546 N 6255.7	Small craft harbor, pier, head.	30° 53.9' N 20° 04.1' E	<b>Fl.(2)W.</b> period 13s	102 31	16		Q.R. marks dolphin 370 meters WSW.
<b>MARSA AL BURAYQAH:</b>							
21556 N 6256.4	--East Channel Range, front.	30° 25.2' N 19° 37.4' E	<b>Q.R.</b>			Black, white and red beacon.	
21560 N 6256.41	--Rear, 660 meters 143°41' from front.	30° 24.9' N 19° 37.7' E	<b>Fl.R.</b>			Black, white and red beacon.	
21562 N 6256.2	--E. breakwater, head.	30° 25.1' N 19° 35.7' E	<b>Q.R.</b>	39 12	15		
21564 N 6256	--W. breakwater, head.	30° 25.1' N 19° 35.4' E	<b>Fl.G.</b> period 3s	39 12	15	Black structure.	
21568 N 6257	--Common Range, front.	30° 25.0' N 19° 34.3' E	<b>Oc.R.</b>			Black, white and red beacon.	
21572 N 6256.9	--Berth Nos 1 and 2 approach, rear, 1,408 meters 236°05' from front.	30° 24.6' N 19° 33.5' E	<b>FR.</b>			Black, white and red mast.	
21576 N 6257.1	--Approach rear, 1,445 meters 239°06' from front.	30° 24.6' N 19° 33.6' E	<b>FR.</b>			Black, white and red mast.	
21580 N 6258	--Berth No 1 Range, front.	30° 24.2' N 19° 35.9' E	<b>I.Q.W.</b> period 8s			Black, white and red beacon.	
21584 N 6258.1	--Rear, 770 meters 167° 38' from front.	30° 24.2' N 19° 35.8' E	<b>I.Q.W.</b> period 15s			Black, white and red beacon.	
21588 N 6259	--Berth No 2 Range, front, 660 meters 145°48' from common rear.	30° 24.8' N 19° 36.6' E	<b>Oc.R.</b>			Black, white and red beacon.	
21590 N 6259.2	--Front, 660 meters 147°20' from common rear.	30° 24.8' N 19° 36.6' E	<b>Oc.R.</b>			Black, white and red beacon.	
21592 N 6259.1	--Common rear.	30° 24.5' N 19° 36.9' E	<b>Q.R.</b>			Black, white and red beacon.	
21596 N 6260	--Berth No 3, mooring island.	30° 26.0' N 19° 33.9' E	<b>FR.</b>	92 28		Metal tower; 69.	
21598 N 6264	--Gas jetty, SE. head.	30° 24.7' N 19° 35.2' E	<b>FG.</b>				
21600 N 6264.4	--NE. head.	30° 24.9' N 19° 35.0' E	<b>FR.</b>				
21602 N 6264.5	--Intake.	30° 25.2' N 19° 36.4' E	<b>Fl.G.</b>			Black pile structure.	
21604 N 6263	--Inner Harbor approach Range, front.	30° 24.6' N 19° 35.1' E	<b>F.Y.</b>			Beacon.	
21608 N 6263.1	--Rear, 370 meters 223°58' from front.	30° 24.5' N 19° 34.9' E	<b>F.Y.</b>			Beacon.	
21612 N 6266	<b>Ra's al Unuf.</b>	30° 30.6' N 18° 32.3' E	<b>Q.(2)W.</b> period 5s	164 50	15	White water tower; 171.	
			<b>FR.</b>	171 52			Obstruction.
21613 N 6266.3	--Breakwater, N. head.	30° 30.5' N 18° 35.7' E	<b>Fl.(2)G.</b> period 10s	59 18	5	White and green structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LIBYA</b>							
21614 N 6266.4	-Breakwater, E. head.	30° 30.3' N 18° 35.4' E	<b>Fl.(2)R.</b> period 10s	59 18	5	White and red structure.	
21615 N 6266.5	-Range, Front.	30° 30.8' N 18° 34.2' E	<b>F.W.</b>	39 12	9	Framework tower, white triangular daymark point up, black stripe.	
21615.1 N 6266.51	--Rear, 287°30', 220 meters from front.	30° 30.8' N 18° 34.1' E	<b>F.W.</b>	56 17	4	Framework tower, white triangular daymark point down, black stripe.	
21615.2 N 6266.6	-Jetty, head, berth No 1.	30° 29.9' N 18° 35.3' E	<b>2F.W.</b> (vert.)	30 9	4	Dolphin.	
21615.3 N 6266.7	--Berth No 2.	30° 29.8' N 18° 35.1' E	<b>3F.W.</b> (vert.)	30 9	4	Dolphin.	
21615.4 N 6266.8	--Berth No 3.	30° 29.7' N 18° 36.0' E	<b>4F.W.</b>	30 9	4		Lights form square shape.
21615.5 N 6267	As Sidrah.	30° 36.9' N 18° 16.8' E	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	394 120	8	Radio tower; 164.	
			<b>F.R.</b>	308 94			
21616 N 6267.2	-SPM No 5 Approach.	30° 37.3' N 18° 22.5' E	<b>F.W.R.G.</b>			Beacon, white daymark, black cross.	G. 213°24'-218°24', R.-228°24', W.-233°24'. Beacons in line 223°25'.
21621 N 6267.6	Rigl Matratin, jetty, head.	30° 38.2' N 18° 22.1' E	<b>Fl.G.</b>		5		
<b>MISRATAH:</b>							
21621.5 N 6267.7	-S. breakwater, head.	30° 38.1' N 18° 22.1' E	<b>Fl.R.</b>				
21624 N 6268	<b>Sirte.</b>	31° 12.5' N 16° 35.6' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	115 35	15	White water tower.	
21628 N 6274	-Ra's al Bara Barq.	32° 22.5' N 15° 12.6' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	79 24	8	White metal framework tower, square tower, black stripes; 26.	F. and Fl.R. obstruction lights exist 14.1 km 285°.
21628.5 N 6275	-Qasr Ahmad, N. breakwater, head.	32° 22.2' N 15° 13.7' E	<b>Fl.G.</b> period 10s fl. 0.5s, ec. 9.5s			Gray beacon.	
21628.6 N 6276	--S. breakwater, head.	32° 22.1' N 15° 13.6' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s			Gray beacon.	
21629.5 N 6277	--Range, front.	32° 22.1' N 15° 12.8' E	<b>Fl.G.</b> period 5s			White triangular daymark point up, red band.	
21629.51 N 6277.1	---Rear, 500 meters 270° from front.	32° 22.1' N 15° 12.3' E	<b>Fl.G.</b> period 12s			White triangular daymark point down, red band.	
21630 N 6278	-Steelworks Range, front.	32° 20.4' N 15° 14.1' E	<b>Q.Bu.</b>	16 5	7		
21630.1 N 6278.1	--Rear, 430 meters 263° from front.	32° 20.4' N 15° 14.2' E	<b>Iso.Bu.</b> period 6s	52 16	7		
21631 N 6278.4	--Outer breakwater, head.	32° 20.7' N 15° 15.2' E	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	39 12	5		<b>Horn:</b> 1 bl. ev. 20s (bl. 2s, si. 18s).
21631.1 N 6278.6	--Bulk Berth.	32° 20.7' N 15° 14.8' E	<b>2 F.G.</b> (vert.)	23 7	1		2 meters apart.
21631.5 N 6278.5	--Inner breakwater, head.	32° 20.5' N 15° 14.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	1		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LIBYA</b>							
21632 <i>N 6280</i>	Al Qalb.	32° 29.8' N 14° 33.7' E	<b>Fl.W.</b> period 3s fl. 0.5s, ec. 2.5s	115 35	10	Black metal framework tower, white stripes, black building; 16.	F.R. and Fl.R. obstruction lights on mast 1 mile SSE.
21636 <i>N 6284</i>	Al Khums.	32° 39.4' N 14° 16.1' E	<b>Fl.W.</b> period 3s	85 26	12	White round tower, black bands; 61.	F.R. and Fl.R. lights on radio mast about 1.5 miles SW.
21640 <i>N 6288</i>	Ra's al Hallab.	32° 48.0' N 13° 48.1' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	12	Metal framework tower, white round tower; 72.	
21644 <i>N 6290</i>	Ra's Tajura.	32° 53.7' N 13° 23.2' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	112 34	14	Black and white checkered square masonry tower.	Obscured 097°-109°. F.R. light on radio mast 2.25 miles SW.
21648 <i>N 6292</i>	<b>Sidi Otman</b> (Wheelus Airfield), AVIATION LIGHT.	32° 54.2' N 13° 16.4' E	<b>Al.Fl.W.G.</b> period 10s	185 56	W. 29 G. 24	Red and white checkered water tower.	Occasional.
TARABULUS (TRIPOLI):							
21652 <i>N 6294</i>	-Spanish Fort, Spanish Mole, N. root.	32° 54.3' N 13° 10.6' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	197 60	12	White round tower, black bands; 89.	F.R. and Fl.R. on radio masts 0.83 mile SSE. and 13.4 miles S. 2 F.R. on 2 masts 5.6 miles SW. F.R. on water towers 0.4 mile SW.
21664 <i>N 6296.4</i>	-Entrance, No 1.	32° 56.0' N 13° 13.2' E	<b>Fl.G.</b> period 3s	42 13	10	Green pile beacon, base.	
21672 <i>N 6296.6</i>	--No 4.	32° 55.4' N 13° 13.7' E	<b>Fl.(2)R.</b> period 6s	43 13	10	Beacon.	
21676 <i>N 6299</i>	-NE. breakwater, head.	32° 55.2' N 13° 13.0' E	<b>L.Fl.G.</b> period 8s fl. 2s, ec. 6s	33 10		Black and white concrete column.	
21680 <i>N 6299.5</i>	-NW. breakwater, head.	32° 55.0' N 13° 13.0' E	<b>L.Fl.R.</b> period 8s fl. 2s, ec. 6s	33 10		Red and white concrete column.	
21692 <i>N 6304</i>	-Spanish Mole, head.	32° 54.5' N 13° 11.8' E	<b>Iso.G.</b> period 4s	34 10	4	Green concrete column, black and white daymark; 33.	
21696 <i>N 6305</i>	-Karamanli mole, head.	32° 54.3' N 13° 11.9' E	<b>Fl.(2)R.</b> period 6s	33 10	4	Red concrete column, red and white daymark.	
21700 <i>N 7860</i>	Bouri Oilfield, SPM.	33° 54.6' N 12° 39.2' E	<b>Mo.(U)W.</b> period 15s			Superbuoy.	
RACON							
21701	-E. platform RACON.	33° 54.8' N 12° 41.9' E	<b>A(• -)</b>				
21702	-W. platform RACON.	33° 53.8' N 12° 38.3' E	<b>U(• • -)</b>				
21708 <i>N 6316</i>	Marsa Dilah.	32° 47.5' N 12° 44.8' E	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	79 24		Red metal column, red and white checkered building.	
21712 <i>N 6318</i>	Marsa Zuwaghah.	32° 48.8' N 12° 25.8' E	<b>Iso.W.</b> period 2s	66 20	11	Red metal framework tower, black band, white base; 20.	
21716 <i>N 6322</i>	Zuwarah, N. breakwater, root.	32° 55.6' N 12° 07.2' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	49 15	12	Metal framework tower, black bands, white hut.	
21720 <i>N 6323</i>	-N. breakwater, head.	32° 55.4' N 12° 07.2' E	<b>V.Q.G.</b>	36 11	8	Metal framework tower, white hut.	
21722 <i>N 6324</i>	-S. breakwater, head.	32° 55.4' N 12° 07.2' E	<b>V.Q.R.</b>	36 11	8	Red metal framework tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LIBYA</b>							
21724 N 6325	Abukamash, industrial complex, jetty, E. head.	33° 05.0' N 11° 49.7' E	<b>V.Q.R.</b>				V.Q.G. marks W. head.
21728 N 6326	Farwah.	33° 06.3' N 11° 44.8' E	<b>L.F.I.W.</b> period 5s fl. 2s, ec. 3s	56 17	12	Red tower, black and white building.	
<b>TUNISIA</b>							
21738 E 6327	Ras El Keft.	33° 10.9' N 11° 29.0' E	<b>Iso.G.</b> period 6s	30 9	5		
ZARZIS:							
21740 E 6328	-Main light.	33° 29.8' N 11° 07.2' E	<b>Oc.(2+1)W.</b> period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	49 15	15	White octagonal tower, black top; 46.	Visible 180°-090°. Reserve light F.R. 10M.
21741 E 6328.2	--Breakwater, head.	33° 28.8' N 11° 07.9' E	<b>Fl.(2+1)W.</b> period 15s fl. 1s, ec. 5.2s fl. 1s, ec. 5.2s fl. 1s, ec. 1.6s	36 11	12	Red and white tower; 30.	F.R. and F.G. mark entrance to fishing harbor.
21744.1 E 6327.4	-El Bibene, S.	33° 26.3' N 11° 18.1' E	<b>Mo.(U)W.R.</b> period 6s	49 15	W. 10 R. 8		Wellhead.
21744.2 E 6327.41	--W.	33° 26.9' N 11° 17.8' E	<b>Mo.(U)W.R.</b> period 6s	49 15	W. 10 R. 8		Wellhead.
21744.3 E 6327.42	--E.	33° 26.8' N 11° 18.4' E	<b>Mo.(U)W.R.</b> period 6s	49 15	W. 10 R. 8		Wellhead.
21744.4 E 6327.43	--N.	33° 27.1' N 11° 18.2' E	<b>Mo.(U)W.</b> period 6s	49 15	10		Wellhead.
ILE DE DJERBA:							
21758 E 6340	-El Kantara.	33° 40.9' N 10° 55.1' E	<b>F.W.</b>	16 5	8		
21760 E 6330.2	-Arghir.	33° 45.2' N 11° 00.7' E	<b>Fl.W.</b> period 4.5s fl. 0.5s, ec. 4s	22 7	9	White round tower, red bands.	Visible 258°-010°.
21764 E 6332	<b>-Ra's Taguermess.</b>	33° 49.4' N 11° 02.6' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	210 64	24	White tower, red bands; 161.	
21772 E 6339	<b>-Djerba-Mellita, AVIATION LIGHT.</b>	33° 52.4' N 10° 47.1' E	<b>Al.FI.W.G.</b> period 10s	121 37	W. 29 G. 26	Structure; 85.	
21776 E 6334	-Hawmat as Sug (Djerba), on wharf.	33° 53.2' N 10° 51.4' E	<b>Oc.(2)W.</b> period 7s lt. 4s, ec. 1s lt. 1s, ec. 1s	30 9	14	White pylon, red bands, yellow base; 26.	Channel is marked by lighted beacons. Visible 080°-320°. F.R. on radio mast 0.5M SE.
21780 E 6338	-Burj Jilij, NW. point of island.	33° 53.2' N 10° 44.8' E	<b>Fl.R.</b> period 5s fl. 0.3s, ec. 4.7s	52 16	9	White octagonal tower, black top; 39.	
21784 E 6344	--N. side of W. channel entrance.	33° 42.2' N 10° 36.5' E	<b>Fl.(2)W.</b> period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	16 5	7		Visible 340°-250°.
21804 E 6342.4	-Bordj Adjim, beacon No 1.	33° 41.9' N 10° 44.2' E	<b>Fl.(3)G.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5s fl. 1s, ec. 5.5s	16 5	5	Green metal tripod.	Dredged channel marked by lighted beacons.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TUNISIA</b>							
21805 E 6340.5	Bou Grara.	33° 32.4' N 10° 41.3' E	<b>Iso.W.</b> period 2s	23 7	8		
21806 E 6345	Zarat.	33° 42.1' N 10° 21.7' E	<b>Fl.(3)G.</b> period 10s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 7s	20 6	5		L.FI.R. 10s 5M shown close S.
QABIS (GABES):							
21812 E 6352	-N. jetty, head.	33° 55.5' N 10° 06.7' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	39 12	8	Black conical tower; 16.	
21816 E 6352.4	-S. jetty, head.	33° 55.3' N 10° 06.5' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	39 12	10	Red conical tower; 16.	
21820 E 6348	-Main light.	33° 53.6' N 10° 06.8' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	42 13	20	White octagonal tower, black top; 36.	Visible 124°-304°. Red lights on pylon 0.9 mile SW.
21821 E 6349	-Fishing harbor, N. jetty, head.	33° 53.7' N 10° 07.2' E	<b>Fl.(2)G.</b> period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	33 10	6	Hexagonal tower.	
21822 E 6350	--S. jetty, head.	33° 53.7' N 10° 07.1' E	<b>Fl.R.</b> period 6.5s fl. 0.5s, ec. 6s	33 10	6	Hexagonal tower.	
AL SKHIRRA:							
21826 E 6353	-Fishing Harbor, S. jetty.	34° 16.1' N 10° 05.1' E	<b>Fl.(2)G.</b> period 10s	20 6	6		
21827 E 6353.1	--SW. of entrance.	34° 17.1' N 10° 05.7' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	6		
21828 E 6354	-Approach, oil terminal.	34° 19.8' N 10° 07.9' E	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	105 32	20	Dark green metal framework tower.	
21832 E 6356	-Oil pier, head.	34° 18.3' N 10° 09.3' E	<b>F.R.</b>	105 32	5	Gantry.	
21834 E 6358	Mahares.	34° 30.9' N 10° 29.9' E	<b>Dir.F.W.R.G.</b>	29 9	3	White pylon.	
21836 E 6359	<b>Ra's Thinah.</b>	34° 39.1' N 10° 41.1' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	182 55	24	White tower, red bands, white dwelling; 144.	
SFAX:							
21845 E 6362.5	-S. breakwater, head.	34° 42.8' N 10° 46.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	13 4	10	Red tower.	
21846 E 6362.6	-N. breakwater, head.	34° 42.8' N 10° 46.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	13 4	10	Green tower.	
21847 E 6362.7	-Detached breakwater, N. extremity.	34° 42.8' N 10° 46.3' E	<b>Iso.R.</b> period 6s	13 4	10	Red tower.	
21848 E 6362	-Port Light, on Quai du Commerce.	34° 43.9' N 10° 46.1' E	<b>Oc.(2)W.</b> period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	58 18	13	Grey metal framework tower, black top, white band, hut; 56.	Intensified 319°-325°.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TUNISIA</b>							
21852 <i>E 6366.6</i>	-Balise de Ras Djilja, Ile Sherki, N. extremity..	34° 49.8' N 11° 14.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	6	Black pedestal, white top; 30.	
21897 <i>E 6364</i>	Port de Loueta, W. coast.	35° 02.4' N 11° 02.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	6	Red tower.	
21897.2 <i>E 6364.2</i>	-E. coast.	35° 02.5' N 11° 02.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	6	Green tower.	
21898 <i>E 6369</i>	Chebba, N. jetty.	35° 13.1' N 11° 10.0' E	<b>Fl.(2)G.</b> period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	26 8	6	Green tower.	
21899 <i>E 6369.2</i>	-S. jetty.	35° 13.4' N 11° 09.5' E	<b>Fl.(2)R.</b> period 6.5s	26 8	6	Red tower.	
21900 <i>E 6368</i>	<b>Ras Kapudia (La Chebba).</b>	35° 13.9' N 11° 09.4' E	<b>Fl.(2)W.R.</b> period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	92 28	W. 19 R. 14	White octagonal tower, red bands, triangular daymark point down; 59.	W. 135°-325°, R.-135°.
21904 <i>E 6370</i>	<b>Al Mahdiyah.</b>	35° 30.6' N 11° 05.0' E	<b>Fl.R.</b> period 5s fl. 0.3s, ec. 4.7s	86 26	17	White hexagonal tower, red top, dwelling; 49.	
21908 <i>E 6371</i>	-S. jetty, head.	35° 29.8' N 11° 04.1' E	<b>Fl.W.</b> period 2s fl. 0.5s, ec. 1.5s	30 9	4	Aluminum pylon.	
21912 <i>E 6371.2</i>	--Spur, head.	35° 30.0' N 11° 04.2' E	<b>F.G.</b>	19 6	3		
21913 <i>E 6371.4</i>	--Outer spur, head.	35° 29.8' N 11° 04.1' E	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 1s fl. 2s, ec. 6s	20 6	6		
21916 <i>E 6372</i>	-W. spur, head.	35° 30.0' N 11° 04.1' E	<b>F.R.</b>	16 5	3		
21917 <i>E 6372.6</i>	-Breakwater, SE. head.	35° 30.0' N 11° 04.3' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	13 4	6		
21919 <i>E 6372.8</i>	Bekalta, E. jetty.	35° 37.5' N 11° 03.0' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	7		Fl.R. 5s 9m 7M marks W. jetty.
21920 <i>E 6380</i>	<b>Jazirat Qurayyat.</b>	35° 48.0' N 11° 02.0' E	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	98 30	W. 18 R. 14	White square tower, red top, white dwelling; 85.	R. 348°-053°, W.-348°.
21921 <i>E 6373.6</i>	Teboulba, NW.	35° 39.8' N 10° 57.5' E	<b>L.Fl.G.</b> period 10s	23 7	5	Green tower; 20.	
21922 <i>E 6373.8</i>	-NE.	35° 39.5' N 10° 57.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	23 7	5	Red tower; 20.	
21924 <i>E 6373.22</i>	Saiadah (Sayada), outer jetty.	35° 40.8' N 10° 53.7' E	<b>L.Fl.(2)W.</b> period 15s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	26 8	9	White tower.	
21925 <i>E 6373</i>	-NW. jetty.	35° 40.5' N 10° 53.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	6	Green tower; 20.	
21926 <i>E 6373.2</i>	-SE. jetty.	35° 40.5' N 10° 53.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	20 6	6	Red tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TUNISIA</b>							
21932 <i>E 6374</i>	Al Munastir, Burj el Kelb.	35° 45.6' N 10° 50.3' E	<b>Fl.(2)R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	85 26	10	White minaret, black bands; 20.	Visible 197°-355°.
21933 <i>E 6376</i>	-Fishing Port, covered mole, extremity.	35° 45.5' N 10° 50.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	39 12	5	Tripod.	
21935 <i>E 6377.2</i>	-Breakwater, S. extremity.	35° 47.0' N 10° 50.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	6	Red tower.	
21936 <i>E 6377</i>	-Marina, E. side.	35° 46.7' N 10° 50.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	26 8	6	Green tower.	
21940 <i>E 6381</i>	Main jetty.	35° 47.5' N 10° 41.0' E	<b>Oc.G.</b> period 5s lt. 4.5s, ec. 0.5s	26 8	5		
21944 <i>E 6381.5</i>	-Secondary jetty.	35° 47.3' N 10° 41.2' E	<b>Oc.(2)W.</b> period 10s lt. 8s, ec. 0.5s lt. 1s, ec. 0.5s	26 8	5		
SUSAH:							
21952 <i>E 6384</i>	-Jeteo Abri.	35° 49.6' N 10° 39.1' E	<b>Oc.W.R.</b> period 4s	39 12	W. 10 R. 6	Red truncated conical tower, white base; 30.	R. 135°-180°, W.-045°. Reserve light range 6M.
21956 <i>E 6382</i>	<b>-Susah.</b>	35° 49.3' N 10° 38.1' E	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	230 70	22	White square tower, pylon; 72.	
21960 <i>E 6385</i>	-Epi Nord, head.	35° 49.5' N 10° 38.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	8	Green truncated conical tower; 26.	Visible 258°-112°. Reserve light range 6M.
21964 <i>E 6385.5</i>	-Epi Sud, head.	35° 49.5' N 10° 38.9' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	8	Red truncated conical tower; 26.	Reserve light range 6M.
21972 <i>E 6387</i>	El Kantaoui, marina, E. jetty, head.	35° 53.6' N 10° 36.1' E	<b>Fl.G.</b> period 6s fl. 1s, ec. 5s	30 9	6	Green tower; 20.	
21976 <i>E 6387.3</i>	--W. jetty, head.	35° 53.5' N 10° 36.0' E	<b>Fl.R.</b> period 6s fl. 1s, ec. 5s	29 9	6	Red tower; 20.	
21976.3 <i>E 6388</i>	Hargalah, large jetty, head.	36° 02.0' N 10° 30.8' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	6		
21976.4 <i>E 6388.2</i>	-S. jetty, head.	36° 01.9' N 10° 30.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	6		
21976.5 <i>E 6386</i>	<b>Hammamet.</b>	36° 23.7' N 10° 36.7' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 17	15	Pylon, casbah wall; 46.	Visible 255°-165°. Reserve light F.W. 7M.
21976.51 <i>E 6386.1</i>	-Port Yasmine Yacht Harbor, Hammamet.	36° 22.3' N 10° 32.8' E	<b>L.Fl.(2)W.</b> period 15s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	56 17	12	Tower on harbor master's office.	Visible 030°-210°.
21976.6 <i>E 6389.5</i>	Ra's al Ma'murah, large jetty, head.	36° 27.1' N 10° 47.8' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	6		
21976.7 <i>E 6389.6</i>	-S. jetty, head.	36° 27.0' N 10° 47.8' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TUNISIA</b>							
KELIBIA:							
21977 <i>E 6390.4</i>	-S. jetty, head.	36° 49.7' N 11° 06.8' E	<b>Fl.(2)W.</b> period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	16 5	5	White pylon; 16.	
21978 <i>E 6390.42</i>	--Spur.	36° 50.0' N 11° 06.6' E	<b>Fl.G.</b> period 4s fl. 0.5s, ec. 3.5s	16 5	2	Green pylon.	
21979 <i>E 6390.6</i>	-W. jetty, head.	36° 50.1' N 11° 06.6' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	16 5	2	Red pylon.	
21980 <i>E 6390</i>	<b>-Rass Mostefa.</b>	36° 50.1' N 11° 07.4' E	<b>Fl.(4)W.</b> period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 12.2s	269 82	23	White platform, black lantern; 59.	
21982 <i>E 6391</i>	Ras el Melah.	36° 52.3' N 11° 08.1' E	<b>Fl.R.</b> period 5s	23 7	4		
21984 <i>E 6392</i>	<b>Cap Bon (Ra's at Tib).</b>	37° 04.9' N 11° 02.7' E	<b>Fl.(3)W.</b> period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	412 126	30	White tower, red top; 66.	Visible 068°-310°, except when obscured by Zembra Island 100°-108°.
21985 <i>E 6392.3</i>	-Pipeline zone, S. end.	37° 00.4' N 11° 03.5' E	<b>Fl.(3)Y.</b> period 10s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.6s, ec. 7.4s	52 16	9	SPECIAL Y, beacon, "X" topmark.	
21985.1 <i>E 6392.4</i>	-Pipeline zone, N. limit.	37° 01.5' N 11° 03.4' E	<b>Fl.(3)Y.</b> period 10s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.6s, ec. 7.4s	52 16	9	SPECIAL Y, beacon, "X" topmark.	
KHALIS TUNIS:							
-La Goulette:							
21988 <i>E 6394</i>	--Zembretta Isle.	37° 06.3' N 10° 52.6' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	194 59	6	Black pylon; 39.	Visible 124°-099°.
21989 <i>E 6394.2</i>	-Ile Zembra, E. entrance.	37° 06.9' N 10° 48.1' E	<b>Fl.G.</b> period 4s	16 5	5		
21989.1 <i>E 6394.4</i>	--W. entrance.	37° 06.9' N 10° 48.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	11 4	5		
21990 <i>E 6394.5</i>	Sidi Daoud, fishing harbor, N. jetty, head.	37° 01.2' N 10° 54.9' E	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	6		
21991 <i>E 6394.61</i>	-S. jetty, head.	37° 01.1' N 10° 54.4' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	6		
21995 <i>E 6401</i>	-Power station.	36° 47.8' N 10° 17.0' E	<b>Fl.R.</b> period 1.5s	335 102	8	Chimney; 328.	
21996 <i>E 6396</i>	--Jeteo Nord, No 9, head.	36° 48.4' N 10° 18.5' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	43 13	11	Gray pylon, green top; 26.	Visible 215°-035° and 090°- 121°. Reserve light F.W. 8M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TUNISIA</b>							
22000 E 6397.5	--Port side.	36° 48.4' N 10° 18.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 13	8	Red turret.	
22002 E 6397	-Digue Nord, head.	36° 48.4' N 10° 18.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	30 9	7	Green turret.	
22004 E 6399	--Digue Sud No 10.	36° 48.3' N 10° 18.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	8	Red truncated conical tower; 23.	
22008 E 6396.5	--Ro Ro Berth.	36° 48.4' N 10° 18.3' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	6		
22032 E 6410	-Tunis.	36° 47.7' N 10° 11.5' E	<b>Fl.(2)W.</b> period 6s	37 11	11		Intensified 256°-260°.
22040 E 6412	<b>Ras Qartajamah.</b>	36° 52.4' N 10° 20.9' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	480 146	22	White tower, black top; 39.	
22044 E 6413	-Jetty, SE. extremity.	36° 51.9' N 10° 21.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	8	Pylon; 13.	
22048 E 6413.2	-Jetty, NW. extremity.	36° 52.0' N 10° 21.0' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	13 4	4	Pedestal; 10.	
22056 E 6414	<b>Al Jazirah al Mussattahah.</b>	37° 11.0' N 10° 19.9' E	<b>Fl.(2)W.R.</b> period 10s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 5.5s	65 20	W. 15 R. 11	White square tower, red bands; 39.	R. 067°-107°, W.-067°.
22060 E 6415	Lac de Porto-Farina, N. jetty, head.	37° 08.6' N 10° 12.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	6	Tower; 13.	
22062 E 6415.2	-S. jetty, head.	37° 08.5' N 10° 12.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	16 5	4		
22064 E 6416	<b>Iles Cani.</b>	37° 21.3' N 10° 07.4' E	<b>Fl.(2)W.R.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	129 39	W. 19 R. 16	White round tower, black bands, dwelling; 69.	W. 237°-177°, R.-237°.
22065 E 6418	Ras as Zabib, fishing harbor, jetty, head.	37° 16.0' N 10° 04.2' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	6	Green tower.	
22066 E 6418.1	--Jetty, head.	37° 16.0' N 10° 04.1' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	7	Red tower.	
<b>BANZART (BIZERTE):</b>							
22068 E 6420	-Detached breakwater, S. head.	37° 16.6' N 9° 53.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	49 15	9	White pylon, black top; 26.	
22076 E 6422	--N. head.	37° 16.8' N 9° 53.6' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	8	Red conical tower; 26.	
22078 E 6423	-Zarzouna, fishing harbor, N. breakwater.	37° 16.1' N 9° 53.7' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	7		
22078.5 E 6423.4	--E. breakwater.	37° 16.1' N 9° 53.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	20 6	6		
22080 E 6426	-Jeteo Nord, head.	37° 16.7' N 9° 53.4' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	49 15	8	Green conical tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>TUNISIA</b>							
22084 E 6428	-East Jetty, N. head.	37° 16.5' N 9° 53.4' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	79 24	10	Red tower; 56.	
22096 E 6436	-Goulet, Quai Nord.	37° 15.9' N 9° 52.1' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5	4	Beacon.	
22100 E 6438	--Quai Sud.	37° 15.8' N 9° 52.2' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	16 5	4	Beacon.	
22104 E 6440	--Pointe de Sebra.	37° 15.5' N 9° 51.6' E	<b>Fl.W.R.G.</b> period 6s fl. 0.3s, ec. 5.7s	52 16	8	White tower, black bands; 49.	G.134°-234°, W.-235°, R.-355°.
22106 E 6454	-Menzel Abderrahman.	37° 13.9' N 9° 51.7' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	8		
MANZIL BU RUQAYBAH:							
22120 E 6446	-Digue Est, N. head.	37° 09.5' N 9° 48.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	10 3	3		
22124 E 6445	-Jeteo Nord, E. head.	37° 09.6' N 9° 48.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	10 3	4		
22132 E 6456	<b>Ras Engela.</b>	37° 20.7' N 9° 44.3' E	<b>Fl.W.R.</b> period 2.5s fl. 0.5s, ec. 2s	125 38	W. 28 R. 25	Black square tower, white band, dwelling; 49.	R. 060°-085° W.-305°.
22136 E 6458	<b>Cap Serrat.</b>	37° 14.0' N 9° 12.7' E	<b>Fl.(2)W.R.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	653 199	W. 24 R. 22	Black tower, white band, dwelling; 43.	W. 261°-238°, R.-261°.
22138 E 6459	Sidi Mechrig, W. jetty.	37° 10.1' N 9° 07.5' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	6		
22139 E 6459.1	--Outer.	37° 10.1' N 9° 07.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	6		
22140 E 6459.2	--Inner.	37° 10.1' N 9° 07.6' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	13 4	3		
22144 E 6464	<b>Galiton de l'Ouest.</b>	37° 29.9' N 8° 52.5' E	<b>Fl.(4)W.</b> period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 9.7s	551 168	24	Black tower, cupola, gray building; 46.	Visible 250°-227°. May appear as Fl.(2)W. 20s at a distance.
	-Auxiliary light.		<b>Fl.R.</b>	524 160	23		Visible 064°-069°.
22145 E 6465	Ile de La Galite, jetty, head.	37° 31.5' N 8° 56.3' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s				
22146 E 6465.2	-Jetty, NE. corner.	37° 31.5' N 8° 56.4' E	<b>Fl.(2)G.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s		6		
22148 E 6460	<b>Jazirat Tabargah.</b>	36° 57.8' N 8° 45.5' E	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	236 72	17	White tower.	
22152 E 6462	-Fishing harbor, N. mole, head.	36° 57.4' N 8° 45.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	8	Green tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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**TUNISIA**

22156 E 6462.4	--Digue, E. elbow.	36° 57.5' N 8° 45.9' E	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	6	Red tower.	
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# Section 15

## Algeria and Morocco

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
22164 <i>E 6482</i>	El Kala (La Calle), E. side of entrance.	36° 54.0' N 8° 26.3' E	<b>Iso.R.</b> period 4s	56 17	9	White tower, red lantern; 26.	Obscured by Pointe Noire southward of 091°.
22166 <i>E 6483</i>	-Pointe du Cimetiere, jetty, head.	36° 54.1' N 8° 27.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	2	White tower; 13.	
22168 <i>E 6484</i>	<b>Cap Rosa.</b>	36° 56.8' N 8° 14.3' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	427 130	19	White round tower; 43.	
ANNABA (BONE):							
22176 <i>E 6486</i>	-Jetee du Lion, head.	36° 54.2' N 7° 46.9' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	62 19	13	White round tower; 56.	
22180 <i>E 6490</i>	-Jetee Sud, head.	36° 54.1' N 7° 46.8' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	49 15	14	White round tower; 46.	
22184 <i>E 6492.4</i>	-Jetee Sud, N. side.	36° 54.2' N 7° 46.7' E	<b>FR.</b>	23 7	2	White column.	
22188 <i>E 6495.2</i>	-Grand Basin, entrance, N. side.	36° 54.3' N 7° 46.5' E	<b>FG.</b>	10 3	2	White square structure; 7.	
22192 <i>E 6495</i>	-Darse de la Grenouillere, S. side of entrance.	36° 54.3' N 7° 46.5' E	<b>FR.</b>	10 3	2	White square structure; 6.	A F.G. light is shown on N. side of entrance.
22204 <i>E 6504</i>	-Fort Genois.	36° 57.0' N 7° 46.5' E	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	200 61	12	White tower, dwelling; 26.	Obscured 240°-263° within 0.5M.
22208 <i>E 6506</i>	<b>Cap de Garde.</b>	36° 58.0' N 7° 47.0' E	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	469 143	29	Gray square tower, white dwelling; 46.	Signal station.
22212 <i>E 6508</i>	Roche Akcine (Axin).	37° 03.1' N 7° 30.6' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	8	ISOLATED DANGER BRB, tower, topmark.	Visible 054°-324°.
BAIE DE TAKOUCH:							
22216 <i>E 6510</i>	-Cap Takouch, N. side of entrance.	37° 04.6' N 7° 23.5' E	<b>Oc.W.R.</b> period 4s lt. 3s, ec. 1s	420 128	W. 8 R. 5	White tower, black lantern; 33.	W. 140°-278°, R.-290°, W.-320°.
22220 <i>E 6512</i>	-E. jetty, head.	37° 04.0' N 7° 23.1' E	<b>FG.</b>	30 9	2	White column; 16.	
22224 <i>E 6514</i>	-W. jetty, head.	37° 04.0' N 7° 23.0' E	<b>FR.</b>	26 8		White column; 20.	
GOLFE DE STORA:							
22228 <i>E 6516</i>	<b>-Cap de Fer.</b>	37° 05.0' N 7° 10.6' E	<b>Fl.(3)W.</b> period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	213 65	22	White tower, yellow lantern; 56.	Visible 312°-254°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
22232 E 6518	-El Mersa.	37° 01.7' N 7° 15.3' E	<b>Iso.W.</b> period 4s	33 10	10	White pylon; 13.	
22240 E 6522	-Skikda, N. jetty, head.	36° 53.6' N 6° 54.1' E	<b>Oc.(2)W.R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 12 R. 9	White round tower; 46.	W. 160°-288°, R.-160°.
22244 E 6524	--Jeteo Ouest (du Chateau-Vert).	36° 53.4' N 6° 54.1' E	<b>Fl.(2)G.</b> period 5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s	33 10	5	White round tower; 26.	Visible 109°-011°.
22248 E 6523	--Traverse Nord, about 46 meters NNE. of head.	36° 53.5' N 6° 54.2' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	33 10	6	White round tower.	Visible 296°-126°.
22252 E 6520	--Port Methanier, main breakwater, head.	36° 53.6' N 6° 56.8' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	52 16	10	White tripod tower; 43.	
22256 E 6520.2	---Lee breakwater, head.	36° 53.2' N 6° 56.6' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33 10	10	White pyramid tower; 23.	
22264 E 6530	-Ilot des Singes, gulf, W. side.	36° 54.3' N 6° 53.0' E	<b>Iso.W.G.</b> period 4s	55 17	W. 15 G. 9	White square tower, green lantern; 30.	G. 193°30'-216°, W.-023°, G.-080°.
22268 E 6533	-Ile du Lion.	36° 55.2' N 6° 53.4' E	<b>Fl.G.</b> period 5s			White square tower.	
22272 E 6534	-Ile Sridina.	36° 56.3' N 6° 53.2' E	<b>Fl.R.</b> period 5s fl. 0.6s, ec. 4.4s	176 54	20	White square tower; 39.	Obscured by Point Esrah when bearing less than 122°.
22276 E 6538	-Collo, jetty, head.	37° 00.5' N 6° 34.7' E	<b>F.G.</b>	43 13	5	White column; 26.	Obscured when bearing less than 221°.
22280 E 6540	Pointe Djerda.	37° 01.1' N 6° 35.3' E	<b>Fl.G.</b> period 5s fl. 0.6s, ec. 4.4s	85 26	12	White octagonal tower; 36.	Visible 146°-323°.
22284 E 6542	Cap Bougaroun.	37° 05.4' N 6° 28.4' E	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	298 91	29	White octagonal tower; 33.	Visible 087°-280°.
22288 E 6544	Ras el Moghreb.	37° 01.4' N 6° 15.8' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	98 30	7	White round tower, dwelling; 49.	
JIJEL (DJIDJELLI):							
22292 E 6550	-Jeteo Nord, main light, groyne, root.	36° 49.6' N 5° 46.8' E	<b>Fl.(2+1)W.R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	61 19	W. 12 R. 9	Yellow square tower; 26.	R. 096°-101°, W.-096°. Obscured by heights of Picouleau when bearing less than 094°.
22296 E 6551	--head.	36° 49.6' N 5° 47.0' E	<b>Iso.G.</b> period 4s	30 9	6	Red column; 13.	F.R. and F.G. lights mark the heads of the jetties in the inner harbor.
22300 E 6552	-Jeteo Sud.	36° 49.5' N 5° 46.8' E	<b>F.R.</b>	16 5	3	Red round column.	Fl.R. 4s light marks mole close E.
22308 E 6558	Ras Afia.	36° 49.0' N 5° 41.4' E	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	140 43	23	Yellow octagonal tower, dwelling; 46.	Visible 027°-255°, obscured by Cap Cavallo southward of 064°. Reserve light F.W.
22312 E 6560	Hadjret Tafalkout.	36° 46.4' N 5° 34.4' E	<b>Fl.(9)W.</b> period 15s	69 21	5	White metal pylon; 16.	
22316 E 6562	Ile Mansouria.	36° 40.7' N 5° 28.8' E	<b>Fl.W.</b> period 2.5s fl. 0.5s, ec. 2s	69 21	5	White column; 20.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
BOUGIE (BEJAIA):							
22320 E 6567	-Jeteo Sud.	36° 45.1' N 5° 05.9' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	10	White round column, hut; 26.	Passes Abd-el-Kadar and Kasbah are marked on N. side by a F.G. light and S. side by a F.R. light.
22324 E 6566	-E. jetty.	36° 45.2' N 5° 06.1' E	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	52 16	12	Black metal framework tower, hut; 49.	Obscured by Ras Bouak on bearings less than 205°.
22328 E 6572	<b>-Cap Carbon.</b>	36° 46.5' N 5° 06.2' E	<b>Fl.(3)W.</b> period 20s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 11.9s	722 220	28	White round tower, dwelling; 33.	Visible 090°-022°, obscured by Cap Noir to westward of 333°.
22332 E 6573	--Auxiliary light, 150 meters 056° from main light, at foot of cliff.	36° 46.6' N 5° 06.3' E	<b>Fl.W.R.</b> period 1.5s	105 32	W. 13 R. 10	White round tower; 26.	R. 114°-126°, W.-295°. Obscured 094°-114° and 295°-316°.
22336 E 6578	<b>Cap Sigli AVIATION LIGHT.</b>	36° 53.8' N 4° 45.6' E	<b>Fl.W.</b> period 5s fl. 0.6s, ec. 4.4s	187 57	22	White octagonal tower, black hut; 82.	
DELLYS:							
22340 E 6580	<b>-Cap Corbelin.</b>	36° 54.5' N 4° 25.5' E	<b>Fl.(2+1)W.R.</b> period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 6.1s fl. 0.1s, ec. 6.2s	137 42	W. 17 R. 14	Round tower; 43.	R. 001°30'-104°30', W.- 001°30'. Obscured when bearing less than 266°.
22344 E 6582	-Azeffoun, jetty, head.	36° 54.1' N 4° 25.3' E	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s	20 6		White round structure; 13.	Fl.G. 2s light marks E. side.
22348 E 6584	-Pointe de Dellys.	36° 55.3' N 3° 55.3' E	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	135 41	8	Yellow tower, red lantern; 26.	Visible 066°-336°, obscured by Cap Bengut when bearing less than 094°.
22352 E 6588	-Breakwater, head.	36° 54.8' N 3° 55.3' E	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	39 12	9	White tower, green top; 26.	Obscured by Pointe de Dellys when bearing less than 193°.
22356 E 6590	-S. wharf, SE. angle.	36° 54.8' N 3° 55.0' E	<b>Oc.(2)R.</b> period 8s lt. 1.5s, ec. 1s lt. 4.5s, ec. 1s	39 12	5	White tower; 33.	Obscured by Pointe de Dellys when bearing less than 203°.
22360 E 6592	<b>Cap Bengut.</b>	36° 55.3' N 3° 53.6' E	<b>Fl.(4)W.</b> period 15s	208 63	30	White square tower, green top, brown dwelling; 95.	Visible 079°-287°.
22362 E 6593	Cape Djenet.	36° 52.5' N 3° 43.0' E	<b>Fl.(3)R.</b> period 12s		10		
22362.2 E 6593.2	-Jetty.	36° 52.4' N 3° 42.8' E	<b>Fl.(3)G.</b> period 12s		8		
22364 E 6593.4	Courbet-Marine, NE. pier, head.	36° 48.2' N 3° 33.7' E	<b>Fl.(3)W.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	52 16	8		
22368 E 6594	<b>Cap Matifou AVIATION LIGHT.</b>	36° 48.7' N 3° 14.8' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	242 74	23	White square tower; 36.	Visible 040°-310°.
22372 E 6596	Tamentfoust (La Perouse), jetty, head.	36° 48.3' N 3° 13.7' E	<b>Iso.R.</b> period 2s	33 10	7	White column; 23.	Obscured by Cap Matifou when bearing more than 145°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
ALGER (ALGIERS):							
22376 E 6620	-Ecueil M'Tahem.	36° 47.7' N 3° 03.9' E	<b>Q.(3)W.</b> period 10s	40 12	8	E. CARDINAL BYB, tower, topmark.	<b>Radar reflector.</b>
22380 E 6602	<b>-Passe Nord.</b>	36° 46.6' N 3° 04.7' E	<b>Fl.(2)W.</b> period 3s	75 23	20	White tower; 53.	Visible 154°-055°. <b>Horn:</b> Mo.(N) ev. 30s
22384 E 6604	--Jeteo Waiter, spur.	36° 46.8' N 3° 04.3' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	33 10	11	White tower, green top.	Visible 309°-133°.
22388 E 6606	--Jeteo d l'Est, N. head.	36° 46.7' N 3° 04.2' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	33 10	12	White tower, red top; 23.	Visible 059°-014°.
22400 E 6611	--Jeteo Mustapha, spur.	36° 45.8' N 3° 04.6' E	<b>Iso.G.</b> period 4s	39 12	12	White tower, green top; 23.	Visible 295°-104°.
22404 E 6610	--Brise-lames Est.	36° 45.7' N 3° 04.5' E	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	39 12	13	White tower, red top; 23.	Visible 005°-312°.
22408 E 6612	-Bassin de l'Agha, S. entrance, W. side.	36° 45.9' N 3° 04.1' E	<b>Fl.R.</b> period 2.5s	33 10	8	White round tower; 26.	Visible 065°-319°.
22412 E 6613	--E. side.	36° 45.9' N 3° 04.1' E	<b>Fl.G.</b> period 2.5s	36 11	7	White round tower; 26.	Visible 285°-160°.
22416 E 6616	--(Amiral Mouchez Mole), N. entrance, W. side.	36° 46.3' N 3° 03.9' E	<b>Fl.R.</b>	33 10	9	White round column; 26.	Visible 145°-025°.
22420 E 6617	--E. side.	36° 46.3' N 3° 04.0' E	<b>Fl.(2)G.</b> period 5s fl. 2s, ec. 3s	36 11	4	White round column; 26.	Visible 340°-196°.
22424 E 6621	<b>Cap Caxine.</b>	36° 48.8' N 2° 57.2' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	210 64	29	Yellow square tower, green top; 102.	Visible 075°-300°.
22432 E 6624	Sidi Ferruch.	36° 45.9' N 2° 50.7' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	138 42	13	White building; 79.	Various lights in port.
22434 E 6624.6	-Jeteo Principale, head.	36° 45.8' N 2° 51.0' E	<b>Iso.W.G.</b> period 4s	46 14	W. 12 G. 9	White metal column; 36.	W. 190°-129°, G.-190°.
22438 E 6629	Bou Haroun, E. jetty, head.	36° 37.6' N 2° 39.3' E	<b>Fl.R.</b>	26 8	5	White post; 20.	
22440 E 6628	<b>Chera, AVIATION LIGHT.</b>	36° 25.0' N 2° 52.1' E	<b>Fl.(3+1)W.</b> period 7s	5249 1600	50	Control tower.	
TIPASA:							
22444 E 6630	-Ras el Kalia.	36° 35.8' N 2° 26.9' E	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	105 32	12	Yellow square tower, green top; 36.	Unintensified 341°-073°. Red lights on radio masts about 2 miles SE.
22448 E 6631	-New mole, N. head.	36° 35.7' N 2° 27.1' E	<b>Fl.G.</b> period 2.5s fl. 0.5s, ec. 2s	26 8			Obscured when bearing more than 154°.
22452 E 6632	-E. mole, NW. head.	36° 35.7' N 2° 27.2' E	<b>Fl.R.</b>	36 11	3	White post; 33.	Partially obscured by Ras el Kalia.
CHERCHELL:							
22468 E 6636	<b>-Fort Joinville.</b>	36° 36.7' N 2° 11.3' E	<b>Fl.(2+1)W.</b> period 15s fl. 0.1s, ec. 6.1s fl. 0.1s, ec. 6.2s fl. 0.1s, ec. 2.4s	121 37	21	Gray truncated conical tower; 85.	Unintensified 326°-037°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
22472 E 6638	-Jetee Joinville, head.	36° 36.8' N 2° 11.5' E	<b>Iso.G.</b> period 4s	33 10	7	White column, black lantern; 16.	
22480 E 6642	-Quai Est, N. head.	36° 36.7' N 2° 11.4' E	<b>F.R.</b>	23 7	6	White column, red lantern; 23.	
22484 E 6637	-Grand Hamman Shelf.	36° 36.9' N 2° 11.7' E	<b>Q.W.</b>	42 13	7	N. CARDINAL BY, tower, topmark; 23.	
22486 E 6644	Ilot Tokikt.	36° 35.7' N 1° 50.5' E	<b>Fl.(2)W.</b> period 6s				
22488 E 6646	<b>Cap Tenes.</b>	36° 33.0' N 1° 20.4' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	292 89	31	White square tower, green lantern; 85.	
TENES:							
22492 E 6651	-Jetee, NE. head.	36° 31.7' N 1° 19.2' E	<b>Oc.(2)R.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	8	White tower, red lantern; 30.	Visible 193°-096°.
22496 E 6650	-Jetee, NW. head.	36° 31.6' N 1° 19.1' E	<b>Oc.(2)G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	7	White tower, green lantern; 26.	Visible 226°-116°.
22500 E 6648	-Detached breakwater, W. head.	36° 31.6' N 1° 18.9' E	<b>Q.W.</b>	33 10	10	White tower; 13.	
22504 E 6649	--E. head.	36° 31.8' N 1° 19.2' E	<b>Iso.G.</b> period 4s	33 10	10	White tower; 13.	
22508 E 6652		36° 31.7' N 1° 19.6' E	<b>F.W.G.</b>	26 8		Hut.	W. sector 1°.
22512 E 6656	<b>Pointe Colombi.</b>	36° 26.6' N 0° 56.4' E	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	197 60	25	Red square tower; 95.	
22516 E 6656.5	-Ile Colombi.	36° 26.3' N 0° 55.2' E	<b>Oc.(2)G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	95 29	5	White pylon; 10.	
22520 E 6658	<b>Cap Ivi.</b>	36° 06.8' N 0° 13.6' E	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	387 118	31	Yellow octagonal tower, red dwelling.	Visible 064°-244°.
GOLFE D'ARZEW:							
22524 E 6660	--N. jetty, head.	35° 56.0' N 0° 04.1' E	<b>Fl.(4)W.R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	56 17	W. 13 R. 10	White tower; 33.	W. 234°-197°, R.-234°.
-Mostaganem:							
22528 E 6664	--Mole de la Liberation.	35° 56.2' N 0° 04.5' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	36 11	6	White round column; 33.	
22532 E 6662	--Traverse SW., head.	35° 56.0' N 0° 04.3' E	<b>Oc.(2)G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	42 13	5	White column, green top; 23.	
22536 E 6661	--Jetee Nord, spur, head.	35° 56.2' N 0° 04.4' E	<b>Oc.(2)R.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	36 11	7	White round tower; 26.	Visible 248°-073°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
22540 E 6672	--Ilot d'Arzew.	35° 52.4' N 0° 17.4' W	<b>Fl.R.</b> period 5s fl. 0.6s, ec. 4.4s	62 19	13	White tower; 49.	Obscured by Cap Carbon when bearing less than 132°.
22548 E 6669	--Jeteo Abri, head.	35° 51.5' N 0° 17.6' W	<b>Oc.G.</b> period 4s lt. 3s, ec. 1s	30 9	9	White column; 30.	
22552 E 6670	--Jeteo du Large, head.	35° 50.9' N 0° 17.5' W	<b>Fl.(4)W.</b> period 6s	49 15	12	White tower, black top; 46.	
22556 E 6671.2	--Jeteo Sud, head.	35° 51.2' N 0° 18.0' W	<b>Iso.R.</b> period 2s	13 4	2	Red metal pylon; 10.	
22560 E 6671	--Jeteo secondaire, on dolphin 30 meters E. of head.	35° 51.0' N 0° 17.9' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	20 6	2	Red pylon, dolphin; 7.	
	-Bettioua:						
22572 E 6665.4	--W. breakwater, head.	35° 49.3' N 0° 15.5' W	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s			White column, green top.	
22576 E 6665.3	--E. breakwater, head.	35° 49.1' N 0° 14.6' W	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s			White column, red top.	
22577 E 6665.5	--Port de Servitude, E. breakwater.	35° 49.0' N 0° 15.7' W	<b>Fl.(2)R.</b> period 6s				
22578 E 6665.6	---W. breakwater.	35° 49.0' N 0° 15.8' W	<b>Fl.(2)G.</b> period 6s				
22580 E 6674	<b>Cap de l'Aiguille.</b>	35° 52.6' N 0° 29.4' W	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	203 62	26	White tower, black top; 43.	Partially obscured 000°-010°.
ORAN:							
22584 E 6678	<b>-Jeteo du Large.</b>	35° 43.2' N 0° 37.7' W	<b>Fl.(2+1)W.</b> period 15s	69 21	22	White pylon; 49.	Visible 062°-332°. Horn.
22588 E 6679	--Epi du Large.	35° 43.1' N 0° 37.7' W	<b>Iso.G.</b> period 7s	27 8	7	Black column; 23.	
22592 E 6680	--Spur N. of Ravin Blanc Mole.	35° 42.9' N 0° 38.1' W	<b>Oc.(2+1)G.</b> period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	28 9	6	Black round column; 23.	
22596 E 6682	--Spur opposite Mole Millerand.	35° 42.8' N 0° 38.5' W	<b>Oc.(3)G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	28 9	6	Black round column; 23.	Visible 213°-123°.
22600 E 6679.4	-Traverse du Large.	35° 43.0' N 0° 37.6' W	<b>Iso.R.</b> period 4s	29 9	8	Red column; 26.	
22604 E 6684	-Mole du Ravin Blanc, NE. corner.	35° 42.8' N 0° 37.9' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	29 9	7	Red round column; 23.	Visible 079°-338°.
22608 E 6684.2	--NW. corner.	35° 42.8' N 0° 38.0' W	<b>FR.</b>	29 9	7	Red round column; 23.	Visible 342°30'-243°30'.
22610 E 6685	-Mole Oblique, NE. corner.	35° 42.8' N 0° 38.1' W	<b>FR.</b>	29 9	3	Red round column; 23.	
22612 E 6685.2	--NW. corner.	35° 42.1' N 0° 38.2' W	<b>Iso.R.</b> period 2s	26 8	6	White hut; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
22616 E 6687	-Mole Millerand, NW. corner.	35° 42.7' N 0° 38.5' W	<b>F.R.</b>	29 9	7	Red round column; 23.	Visible 359°-332°.
22620 E 6694.2	-Mole Jules Giraud, NW. corner.	35° 42.7' N 0° 38.9' W	<b>F.R.</b>	29 9	7	Red round column; 23.	Visible 000°-255°.
22624 E 6694	--NE. corner.	35° 42.7' N 0° 38.8' W	<b>Oc.(4)R.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	29 9	7	Red round column; 23.	
22628 E 6695	-lbn-Tofail, NE. corner.	35° 42.5' N 0° 39.1' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	30 9	10	Red round column; 23.	Visible 063°-333°.
22632 E 6695.2	--NW. corner.	35° 42.6' N 0° 39.2' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	30 9	7	Red round column; 23.	
22636 E 6696	-Mole du Centre, inner port, NE.	35° 42.7' N 0° 39.2' W	<b>F.R.</b>	29 9	7	Red round column; 23.	Visible 109°-019°.
22640 E 6696.2	--SE. corner.	35° 42.6' N 0° 39.2' W	<b>Iso.G.</b> period 4s	29 9	6	Black round column; 23.	Visible 200°-019°.
22644 E 6700	-Vieux Port, E. mole, head.	35° 42.6' N 0° 39.3' W	<b>F.R.</b>	19 6	7	Red round column; 23.	Visible 063°-333°.
MERS EL-KEBIR:							
22648 E 6704	-Entrance Range, front.	35° 43.2' N 0° 42.3' W	<b>Oc.(2+1)R.</b> period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	173 53	9	Pylon, black triangle point up in white square daymark; 59.	Visible 244°-274°.
22652 E 6704.1	--Rear, 329 meters 259° from front.	35° 43.2' N 0° 42.5' W	<b>Oc.(2+1)R.</b> period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	220 67	16	Pylon, white triangle point down in black square daymark; 23.	Intensified 256°30'-261°30'.
22656 E 6704.4	-N. jetty, head.	35° 43.6' N 0° 40.7' W	<b>V.Q.(4)W.</b> period 2s	43 13	9	White column; 36.	
22660 E 6704.42	--Spur, head.	35° 43.5' N 0° 41.0' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	16 5		White pylon, green top; 10.	
22664 E 6704.5	-E. jetty, head.	35° 43.4' N 0° 40.7' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	46 14	12	White mast, red top; 39.	
22668 E 6706.4	-E. corner Mole Triangulaire.	35° 43.5' N 0° 42.1' W	<b>Q.W.</b>	46 14	13	White pyramidal tower, red bands.	Lights only visible within the harbor are shown from quays in northern part of harbor.
22672 E 6708	<b>Cap Falcon.</b>	35° 46.3' N 0° 48.1' W	<b>Fl.(4)W.</b> period 25s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 15.5s	341 104	29	White octagonal tower with house; 89.	F.R. lights over radio antennae 5.2M to the S.
22676 E 6712	Ile Plane.	35° 46.3' N 0° 54.1' W	<b>Fl.(2)W.</b> period 6s	79 24	9	ISOLATED DANGER BRB, tower, topmark; 20.	
22684 E 6714	<b>Iles Habibas.</b>	35° 43.3' N 1° 08.1' W	<b>Fl.W.</b> period 5s fl. 0.6s, ec. 4.4s	367 112	26	Brown square tower, dwelling, green top; 46.	
22688 E 6716	Beni Saf, outer breakwater, head.	35° 18.5' N 1° 23.4' W	<b>Iso.G.</b> period 4s	36 11	7	Black column, hut; 30.	Visible 072°-342°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ALGERIA</b>							
22692 E 6717	-E. breakwater, head.	35° 18.4' N 1° 23.4' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	8	Red column; 23.	
22696 E 6718	<b>Ile Rachgoun.</b>	35° 19.4' N 1° 28.5' W	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	266 81	16	Yellow square tower, red top; 62.	
22700 E 6720	<b>-Nemours.</b>	35° 05.7' N 1° 52.4' W	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	305 93	26	Tower, dwelling; 49.	Visible 058°-248°.
GHAZAOUET (NEMOURS):							
22704 E 6732	-Rocher Les Duex Freres.	35° 06.1' N 1° 52.3' W	<b>Fl.(2)G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	85 26	9	White turret; 13.	Turret not visible from offshore.
22708 E 6722	-Jeteo Nord, head.	35° 06.2' N 1° 52.2' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	56 17	8	Red column, tower; 52.	
22712 E 6722.2	-Head of spur, 0.4 km. ESE. of N. breakwater head.	35° 06.2' N 1° 52.0' W	<b>Fl.R.</b> period 3.5s fl. 1.5s, ec. 2s	26 8	9	Red round metal column; 20.	Visible 262°-097°.
22716 E 6726	-Mole E.	35° 06.1' N 1° 52.0' W	<b>F.G.</b>	26 8	5	Black round metal column; 20.	F.G. shown from head of Mole D 076° about 357 meters.
<b>MOROCCO</b>							
22720 E 6757	Cap de l'Eau.	35° 08.8' N 2° 25.5' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	138 42	8	White tower, octagonal building; 26.	
22721 E 6757.2	Ras Kebdana, N. breakwater.	35° 08.8' N 2° 25.1' W	<b>Iso.G.</b> period 6s	39 12	10	White tower; 23.	
22722 E 6757.25	-E. breakwater.	35° 08.8' N 2° 25.2' W	<b>Iso.R.</b> period 6s	43 13	10	White tower; 23.	
ISLAS CHAFARINAS (S.):							
22724 E 6754	-Isla Isabel II, near NW extremity of island.	35° 11.0' N 2° 25.9' W	<b>Fl.W.</b> period 7s fl. 1s, ec. 6s	170 52	8	White round tower, cupola, brown dwelling; 59.	Visible 080°-045°.
22728 E 6756	--Mole, head.	35° 10.8' N 2° 25.7' W	<b>Fl.(2)R.</b> period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	4	Metal pyramidal tower; 20.	
22732 E 6752	-Isla del Congreso. S. extremity.	35° 10.5' N 2° 26.3' W	<b>Fl.R.</b> period 4s fl. 0.5s, ec. 3.5s	118 36	5	Gray round tower; 10.	Obscured when bearing less than 110°.
MELILLA (S.):							
22736 E 6758	-Melilla.	35° 17.7' N 2° 55.9' W	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	131 40	14	Brown round tower, annex building; 39.	
22740 E 6762	-Muelle Nordeste, SE. head.	35° 17.3' N 2° 55.4' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	105 32	7	Gray tower, green lantern, gray dwelling; 92.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MOROCCO</b>							
22742 E 6763	-Muelle Nordeste 3, SW. head.	35° 17.3' N 2° 55.5' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	5	Green round tower; 16.	
22744 E 6757.6	-Puerto do Nador, de Beni Enzar, head.	35° 17.1' N 2° 55.1' W	<b>Fl.(2)R.</b> period 6s	26 8	5	Gray post.	Q.R. marks corner of Pier A and Fl.R. 1.5s marks corner of Pier B close SSW.
22748 E 6764	-Muelle Nordeste 2, W. end.	35° 17.4' N 2° 55.7' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower; 16.	
22749 E 6770	-Muelle de Ribera II, corner.	35° 17.5' N 2° 55.9' W	<b>Fl.(2+1)G.</b> period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	23 7	1	Green round tower, red band; 16.	
22752 E 6768	-Ore dock, head.	35° 17.4' N 2° 56.0' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	26 8	3	Red round tower, green band; 16.	
22754 E 6765	-Minor Embarkation Dock, breakwater, head.	35° 17.3' N 2° 55.9' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	13 4	5	Red post; 7.	Fl.G. 4s 3m 1M marks interior breakwater 120 meters SW. and Q.(3)W. 10s 4m 3M marks opposite end of breakwater.
22756 E 6773	-Muelle de Ribera I, W. jetty, head.	35° 17.5' N 2° 56.1' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Green round tower; 7.	Fl.G. 5s 3m 1M marks E. entrance 60 meters NE.
22760 E 6774	-Pesquera Darsena, W. entrance, head.	35° 17.5' N 2° 56.1' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Red structure; 13.	Fl.(2)G. 7s 1m 1M and Fl.R. 2.5s 1m 1M mark interior piers.
22768 E 6776	Los Farallones, on largest islet.	35° 25.7' N 2° 56.4' W	<b>Iso.Y.</b> period 2s	69 21	6	White and gray tower; 16.	
22772 E 6778	<b>Cap des Trois Fourches.</b>	35° 26.3' N 2° 57.8' W	<b>Fl.(3+1)W.</b> period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s fl. 0.3s, ec. 7.2s	367 112	19	Gray four-sided tower, dwelling; 59.	Visible 083°-307°. <b>Siren:</b> 4 bl. (3+1) ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 23s, bl. 2s, si. 23s).
22776 E 6780	Anse Tramontana, Ras Baraket, N. side of entrance.	35° 24.1' N 3° 00.5' W	<b>Oc.(2+1)W.</b> period 12s lt. 1s, ec. 1s lt. 4s, ec. 1s lt. 4s, ec. 1s	160 49	9	White round tower; 13.	
22780 E 0086	Isla de Alboran, summit, about 54 km. N. of cape.	35° 56.3' N 3° 02.1' W	<b>Fl.(4)W.</b> period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	131 40	10	Round tower, building; 66.	
22784 E 6784	Cap Quilates (Ras Tarf), Punta Barbazon, cape, NE. side.	35° 17.0' N 3° 40.8' W	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	203 62	8	Yellow octagonal tower, building; 105.	Aeromarine light.
BAIE D'AI HOCEIMA:							
22788 E 6786	<b>-Morro Nuevo.</b>	35° 15.7' N 3° 55.8' W	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	495 151	20	White tower, black cupola; 52.	Visible 082°-275°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MOROCCO</b>							
22792 E 6784.4	-Al Hoceima Range No 1, front.	35° 14.7' N 3° 55.6' W	<b>F.R.</b>	82 25	3	White tower, post, red diamond daymark; 16.	
22796 E 6784.41	--Rear, about 90 meters 274° from front.	35° 14.7' N 3° 55.7' W	<b>F.R.</b>	155 47	3	White tower, post, red diamond daymark; 16.	
22800 E 6784.6	--Range No 2, front.	35° 15.1' N 3° 55.3' W	<b>Oc.G.</b> period 6s	90 27	10	White tower, post, green diamond daymark; 16.	
22804 E 6784.61	---Rear, 140 meters 330° from front.	35° 15.1' N 3° 55.3' W	<b>Oc.G.</b> period 6s	150 46	10	White tower, post, green diamond daymark; 16.	
22808 E 6785.2	-E. breakwater.	35° 14.9' N 3° 55.1' W	<b>Iso.G.</b> period 4s	39 12	10	Green and white tower; 23.	
22816 E 6788	Penon de Velez de la Gomera (S.), on islet.	35° 10.7' N 4° 17.8' W	<b>Fl.(3)W.</b> period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	154 47	12	Gray tower, dwelling; 20.	
22820 E 6789	<b>Jebha.</b>	35° 13.0' N 4° 40.8' W	<b>Fl.(2)W.</b> period 10s	125 38	18	White hut, black lantern; 13.	Visible 090°-270°.
22822 E 6789.5	<b>Oued Laou.</b>	35° 28.5' N 5° 06.7' W	<b>Oc.(2)W.</b> period 6s lt. 2.4s, ec. 1.6s lt. 0.4s, ec. 1.6s	492 150	18	White tower.	
22828 E 6820	<b>Tetouan, AVIATION LIGHT</b> (Sania Ramel).	35° 35.4' N 5° 20.0' W	<b>Fl.W.</b> period 5s	115 35	54	Tower; 52.	Occasional.
22832 E 6824	<b>Cabo Negro.</b>	35° 41.1' N 5° 16.5' W	<b>Fl.(2+1)W.</b> period 12s	443 135	20	White tower; 43.	
22836 E 6825	Port de Mediq, E. jetty, head.	35° 41.0' N 5° 18.7' W	<b>Q.W.</b>	39 12	13	White tower; 13.	Visible 090°-270°. Southwestward a F.G. and F.R. light, respectively, on heads of W. jetty and spur of E. jetty. <b>Horn:</b> 1 bl. ev. 60s (bl. 3s, si. 57s).
22838 E 6830	Marina Smir, breakwater, head.	35° 45.1' N 5° 20.3' W	<b>Iso.G.</b> period 4s	36 11	4	White conical tower.	
CEUTA (S.):							
22840 D 2482	<b>-Punta Almina.</b>	35° 53.9' N 5° 16.8' W	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	484 148	22	White round tower, white building; 52.	<b>AIS</b> (MMSI No 992241093).
22844 D 2486	-(Dique de Poniente), W. breakwater, head.	35° 53.8' N 5° 18.7' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	43 13	5	Green column, trapezoidal daymark; 20.	<b>AIS</b> (MMSI No 992241092).
22848 D 2484	-(Dique de Levante), E. breakwater, head.	35° 53.7' N 5° 18.5' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	43 13	5	Red column, trapezoidal daymark; 23.	Visible 245°-210°.
22852 D 2487	-(Dique de Poniente Spur, SE. corner.	35° 53.7' N 5° 18.7' W	<b>Fl.(2)G.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	23 7	1	Green truncated pyramidal tower; 13.	
22856 D 2488	-(Muelle de Espana, NW. corner.	35° 53.6' N 5° 18.9' W	<b>Fl.(2+1)R.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	23 7	3	Red truncated pyramidal tower, green band; 13.	
22858 D 2490.5	--Breakwater.	35° 53.4' N 5° 19.0' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green truncated pyramidal tower; 13.	



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<b>MOROCCO</b>							
22860 D 2490	-Darsena de Pescadores, extremity of breakwater.	35° 53.5' N 5° 18.9' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	White truncated conical tower, red lantern; 20.	
22862 D 2492	-Muelle de Ribera.	35° 53.5' N 5° 18.6' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	23 7	1	Green truncated pyramidal tower; 10.	Fl.(2+1)G. 21s 7m 1M shown 190 meters ENE. Fl.(3)G. 9s 7m 1M shown 400 meters ENE.
22863 D 2492.5	-Fishing harbor, breakwater, head.	35° 53.6' N 5° 18.2' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green truncated pyramidal tower; 10.	
22864 D 2493	<b>Punta Cires.</b>	35° 54.4' N 5° 28.9' W	<b>Fl.(3)W.</b> period 12s	144 44	18	Brown truncated conical tower; 26.	Visible 060°-330°. Tall radar tower with white and red stripes nearby.
22868 D 2496	Ksar es Srhir, mole, head.	35° 50.9' N 5° 33.6' W	<b>Fl.(4)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	52 16	8	Column, metal tower; 36.	
BAIE DE TANGER:							
22872 D 2498	<b>-Pointe Malabato.</b>	35° 49.0' N 5° 44.9' W	<b>Fl.W.</b> period 5s fl. 0.7s, ec. 4.3s	249 76	22	White square tower, house; 59.	
22880 D 2500	<b>-Le Charf (Mount Direction).</b>	35° 46.0' N 5° 47.3' W	<b>Oc.(3)W.R.G.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	289 88	W. 16 R. 12 G. 11	Brown building, metal cupola; 23.	G. 140°-174°30', W.-200°, R.- 225°, obsc.-140°. F.R. light on radio mast 1.1 miles SW.
22884 D 2504	-Yacht Quay, head.	35° 47.2' N 5° 48.1' W	<b>Iso.G.</b> period 4s	20 6	6	Green and white column; 13.	
22885 D 2506	-Inner harbor entrance, N. mole, head.	35° 47.2' N 5° 48.3' W	<b>F.G.</b>	13 4	6	Green and white column.	
22886 D 2507	--S. mole, head.	35° 47.2' N 5° 48.3' W	<b>F.R.</b>	13 4	6	Red and white column.	
22888 D 2502	-Outer breakwater, head.	35° 47.5' N 5° 47.6' W	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s		14	Metal framework tower.	
22892 D 2503	-South Mole (Quay 2), head.	35° 47.3' N 5° 47.9' W	<b>Oc.R.</b> period 4s	23 7	6	Red and white column; 20.	
22896 D 2510	<b>Cap Spartel.</b>	35° 47.5' N 5° 55.4' W	<b>Fl.(4)W.</b> period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 12.3s	312 95	30	Yellow square tower; 79.	Aeromarine light.
22900 D 2512	<b>Tanger Boukhalf AVIATION LIGHT.</b>	35° 43.4' N 5° 54.7' W	<b>Fl.W.</b> period 12s	85 26	25	Control tower; 39.	Visible 067°-115°. A Mo,(TG)G. light may also be shown. Occasional.
ASILAH (ARZILA):							
22904 D 2514	-Entrance, front.	35° 28.0' N 6° 02.0' W	<b>F.R.</b>	23 7		Post.	
22908 D 2514.1	--Rear, 140° from front.	35° 28.0' N 6° 01.9' W	<b>F.R.</b>	33 10		Iron tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MOROCCO</b>							
LARACHE:							
22912 D 2532	-Punta Nadar.	35° 11.6' N 6° 10.1' W	<b>Fl.(2)W.</b> period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	256 78	26	White octagonal tower, building; 144.	
22916 D 2522	-Jetty, W. head, N. side of entrance.	35° 12.2' N 6° 09.3' W	<b>Oc.(4)W.</b> period 15s lt. 2s, ec. 5.5s lt. 2s, ec. 0.5s lt. 2s, ec. 0.5s lt. 2s, ec. 0.5s	49 15	17		<b>Horn:</b> 4 bl. ev. 60s.
22920 D 2524	-Outer Bar Range, front.	35° 12.0' N 6° 08.3' W	<b>Iso.W.</b> period 2s	33 10	4	Red post, white triangular daymark point up; 29.	Visible 352°-212°.
22924 D 2524.1	--Rear, 200 meters 102° from front.	35° 12.0' N 6° 08.3' W	<b>Iso.W.</b> period 2s	49 15	4	Red post, white triangular daymark point down; 42.	Visible 352°-212°.
22928 D 2526	-Inner Bar Range, front.	35° 11.9' N 6° 08.9' W	<b>F.R.</b>	66 20	2	White dwelling; 39.	Visible 015°30'-275°.
22932 D 2526.1	--Rear, on church 70 meters 145°30' from front.	35° 11.9' N 6° 08.9' W	<b>F.R.</b>	95 29	2	Church tower; 62.	Visible 055°30'-235°30'.
22934 D 2528	-Training wall, head.	35° 12.0' N 6° 08.8' W	<b>F.G.</b>				
22938 D 2537	-Sidi al Hachmi al Bahraoui.	34° 39.2' N 6° 24.7' W	<b>Fl.(2)W.</b> period 10s	223 68	12	Tower; 26	
MEHDIYA:							
22940 D 2540	-Mehdia, Oued Sebu Range, front.	34° 15.6' N 6° 40.1' W	<b>Oc.(3)W.</b> period 12s	39 12	5	Black pylon, white triangular daymark point up; 33.	
22944 D 2540.1	--Rear, about 800 meters 102°30' from front.	34° 15.5' N 6° 39.6' W	<b>Oc.(3)W.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	243 74	16	Red octagonal tower, white cupola; 29.	Signal station.
22948 D 2542	-N. jetty, head.	34° 16.0' N 6° 41.0' W	<b>Iso.R.</b> period 4s	56 17	6	Red tower, white band; 20.	River marked by beacons up to Kenitra.
22952 D 2543	-S. jetty, head.	34° 15.8' N 6° 41.1' W	<b>Iso.G.</b> period 4s	46 14	6	White and green mast; 33.	
22956 D 2543.2	-Oued Sebou, S. jetty, root.	34° 15.7' N 6° 40.6' W	<b>F.W.</b>				
22960 D 2544	-Range No 2, front.	34° 16.0' N 6° 39.9' W	<b>F.R.</b>	8 2	7	Tide gauge.	Intensified 57°30'-62°30'.
22964 D 2544.1	--Rear, about 213 meters 060° from front.	34° 16.1' N 6° 39.7' W	<b>F.R.</b>	15 5	8	Black and white beacon.	Intensified 57°30'-62°30'.
22968 D 2544.5	-Range No 3, front.	34° 16.3' N 6° 38.6' W	<b>F.G.</b>	16 5	7	White beacon.	Intensified 66°30' - 71°30'
22972 D 2544.6	--Rear, about 320 meters 069° from front.	34° 16.4' N 6° 38.4' W	<b>F.G.</b>	109 33	16	White beacon.	Intensified 66°30'-71°30'
22976 D 2545	-Range No 4, front (downstream).	34° 16.2' N 6° 38.9' W	<b>F.G.</b>	15 5	7	Black and white beacon.	Intensified 213°30'-218°30'.
22980 D 2545.1	--Rear, about 274 meters 216° from front.	34° 16.1' N 6° 39.0' W	<b>F.G.</b>	135 41	16	White beacon.	Intensified 213°30'-218°30'.
22984 D 2545.3	-Range No 4, front (upstream).	34° 18.5' N 6° 36.8' W	<b>F.R.</b>	39 12		Red and white beacon.	Intensified 213°30'-218°30'. Oc.(2)R. shown on pier about 2.4 km. 221°.
22988 D 2545.4	--Rear, about 350 meters 036° from front.	34° 18.7' N 6° 36.7' W	<b>F.R.</b>	88 27		Red and white beacon.	Intensified 033°30'-038°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MOROCCO</b>							
22992 D 2541	<b>-Kenitra AVIATION LIGHT.</b>	34° 17.5' N 6° 36.1' W	<b>Al.FI.(2+1)W.G.</b> period 10s W. fl. 0.5s, ec. 1s W. fl. 0.5s, ec. 3.5s G. fl. 1s, ec. 3.5s	180 55	15	Yellow tower, bulbous top.	A F.R. light is shown from a radio tower, about 15.6 km. 194°. Occasional.
22996 D 2546	-Range No 5, front.	34° 18.7' N 6° 36.0' W	<b>Oc.(2)W.</b> period 9s	10 3		White beacon.	
23000 D 2546.1	--Rear, about 162 meters 071° from front.	34° 18.8' N 6° 35.9' W	<b>F.R.</b>	65 20		Red and white beacon.	
23004 D 2546.6	-Beacon.	34° 18.7' N 6° 35.7' W	<b>F.R.</b>				
23008 D 2546.3	-Range No 6, front.	34° 18.7' N 6° 35.1' W	<b>F.R.</b>	20 6			
23012 D 2546.4	--Rear, about 268 meters 087° from front.	34° 18.7' N 6° 34.9' W	<b>F.R.</b>	23 7		White beacon.	
23016 D 2547	-Range No 7, front (downstream).	34° 48.4' N 6° 34.6' W	<b>F.R.</b>				Oc.(2)R. 9s about 2 km. SSW.
23020 D 2547.1	--Rear, about 366 meters 018° from front.	34° 18.6' N 6° 34.5' W	<b>F.R.</b>	10 3		White beacon.	
23024 D 2547.4	-Range No 7, front (upstream).	34° 16.3' N 6° 35.5' W	<b>F.G.</b>				
23028 D 2547.5	--Rear, about 244 meters 198° from front.	34° 16.2' N 6° 35.5' W	<b>F.G.</b>	39 12		Black and white beacon.	
23032 D 2548.4	--Beacon.	34° 16.0' N 6° 35.1' W	<b>Oc.G.</b> period 4.9s				
23036 D 2554	<b>Rabat.</b>	34° 01.9' N 6° 50.7' W	<b>Oc.(2)W.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	102 31	16	Yellow tower; 79.	F.R. on radio mast 12 miles NE. Unintensified 290°-020°.
23048 D 2557	-Rabat Sale, AVIATION LIGHT.	34° 02.6' N 6° 45.6' W	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s			Control tower.	Occasional.
<b>MOHAMMEDIA:</b>							
23054 D 2558.4	-Breakwater, head.	33° 44.0' N 7° 23.2' W	<b>Fl.(2)W.</b> period 10s	69 21	10	Green column.	
23056 D 2559	-Ben Chergui, first Range, front.	33° 43.7' N 7° 20.6' W	<b>Fl.W.G.</b> period 3s	33 10	W. 10 G. 10	Black and white checkered post; 10.	W. 040°-076°, G.-126°, W.-220°.
23060 D 2559.1	--Rear, about 255 meters 130° from front.	33° 43.6' N 7° 20.4' W	<b>Fl.W.</b> period 3s	79 24	10	White rectangular hut, dwelling; 26.	Intensified 119°30'-140°30'. Synchronized with front.
23068 D 2563	-S. jetty, range, front.	33° 42.8' N 7° 23.6' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	8	White tower, red bands; 20.	
23069 D 2563.1	---Rear, about 715m 247.5° from front.	33° 42.7' N 7° 24.0' W	<b>Fl.R.</b> period 5s		8		
23072 D 2562	-N. jetty, head.	33° 42.9' N 7° 23.5' W	<b>Iso.G.</b> period 4s	26 8	8	White tower, green bands; 16.	
23076 D 2561	-Entrance Range, front.	33° 42.8' N 7° 24.0' W	<b>Dir.Oc.(3)W.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	36 11	18	White post, black bands; 43.	Intensified 262°30'-267°30'.
23080 D 2561.1	--Rear, about 110 meters 265° from front.	33° 42.8' N 7° 24.0' W	<b>Dir.FI.(3)W.</b> period 13s	46 14	10	White post, black bands; 43.	Intensified 262°30'-267°30'. Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MOROCCO</b>							
CASABLANCA:							
23096 D 2566	<b>-Pointe d'Oukacha.</b>	33° 36.9' N 7° 33.8' W	<b>V.Q.(2)W.</b> period 2s	95 29	<b>18</b>	White square tower, red lantern; 66.	Visible 110°-255°.
	--Auxiliary light.		<b>F.R.</b>	79 24	8		Visible 055°-110°.
23100 D 2567	<b>-Roches-Noires.</b>	33° 36.3' N 7° 34.8' W	<b>Oc.W.R.</b> period 4s lt. 3s, ec. 1s	69 21	W. <b>16</b> R. 12	White tower, red lantern; 62.	W. 080°-090°, R.-162°, W.- 237°.
23104 D 2570	-Jeteo Delure (Moulay Youssef), NE. spur.	33° 37.1' N 7° 35.6' W	<b>Oc.G.</b> period 6s	16 5	5	White hut, green bands; 10.	Visible 230°-070°.
23108 D 2569	-SW. jetty.	33° 36.8' N 7° 35.4' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	43 13	7	Red column, white square hut, red bands; 13.	
23112 D 2570.2	--S. spur.	33° 36.8' N 7° 36.3' W	<b>Oc.G.</b> period 4s	20 6	5	Green column, white square hut, green bands; 13.	Visible 238°-070°. <b>Horn:</b> 2 bl. ev. 60s (bl. 2s, si. 2s, bl. 6s, si. 50s).
23114 D 2569.2	-Container Terminal , NE. corner.	33° 36.7' N 7° 35.6' W	<b>Fl.(3)R.</b> period 12s				
23116 D 2572	-Jeteo Transversale, outer head.	33° 36.6' N 7° 36.3' W	<b>Oc.(2)R.</b> period 4s	23 7	6	Red column, white square hut, red bands; 13.	Visible 026°-257°.
23128 D 2568.1	-Harbor.	33° 36.2' N 7° 36.6' W	<b>Oc.(4)W.R.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	157 48	W. <b>16</b> R. 8	White square silo, red stripes; 151.	Obscured by silo 138°-153°. W. 110°-245°, R.-285°.
23132 D 2574	<b>El Hank.</b>	33° 36.6' N 7° 39.3' W	<b>Fl.(3)W.</b> period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	213 65	<b>30</b>	White round tower; 161.	
23140 D 2582	<b>Pointe d'Azemmour.</b>	33° 20.3' N 8° 18.2' W	<b>Fl.(2)W.R.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	148 45	W. <b>15</b> R. 11	White tower; 46.	W. 075°-100°, R.-245°.
EL JADIDA (MAZAGAN):							
23144 D 2588	<b>-Sidi Bou Afi.</b>	33° 15.0' N 8° 31.0' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	213 65	<b>30</b>	White tower, black top; 167.	
23148 D 2584	-Sidi Mesbah, about 6.5 km. E. of town.	33° 14.6' N 8° 26.2' W	<b>Oc.(2)W.R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	164 50	W. 14 R. 11	White square tower, green top; 59.	R. 094°-151°, W.-188°.
23150 D 2587.5	-Sidi Daoui.	33° 15.8' N 8° 30.6' W	<b>Fl.(2)W.</b> period 10s	46 14	10	White tower, black bands; 33.	
23152 D 2586	-N. jetty, head.	33° 15.4' N 8° 29.7' W	<b>Iso.W.G.</b> period 4s	20 6	W. 13 G. 9	Black post, white hut, green top; 13.	G. 115°-245°, W.-115°.
23156 D 2587	-S. jetty, head.	33° 15.4' N 8° 29.9' W	<b>V.Q.R.</b>	33 10	7	Column, white hut, red top; 16.	
23160 D 2590	El Jorf Lasfar.	33° 09.7' N 8° 37.7' W	<b>Oc.W.R.</b> period 6s	102 31	W. 10 R. 7	White square tower, black top.	
23162 D 2590.5	-Entrance.	33° 09.0' N 8° 36.9' W	<b>Dir.Fl.(3)W.R.G.</b> period 6s		6	Column.	G. 041°-042°, W.-044°, R.- 045°.
23164 D 2591	-W. jetty, head.	33° 07.4' N 8° 38.8' W	<b>Fl.(2)R.</b> period 10s	59 18	8	Round concrete tower; 33.	

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<b>MOROCCO</b>							
23168 <i>D 2591.2</i>	-Breakwater, extremity.	33° 07.6' N 8° 38.5' W	<b>F.R.</b>	49 15	8	Round concrete tower; 33.	
23172 <i>D 2591.4</i>	-E. jetty, head.	33° 07.6' N 8° 38.4' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	46 14	8	Tower; 33	
23173 <i>D 2591.8</i>	Lalla Fatna.	32° 48.0' N 8° 57.8' W	<b>Fl.(2+1)W.</b> period 12s		20	Pylon.	
23176 <i>D 2592</i>	<b>Beddouza.</b>	32° 32.4' N 9° 16.9' W	<b>Fl.(2)W.</b> period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	213 65	22	Yellow square tower, green band, flanked by four towers; 62.	
SAFI:							
23180 <i>D 2595</i>	<b>-Pointe de la Tour</b> , about 2.4 km. 293° from Sidi Bou Zid Mosque.	32° 19.8' N 9° 16.7' W	<b>Fl.(4)W.</b> period 12s	295 90	18	White four-sided tower, building; 39.	Visible 302°-164°. F.R. lights on radio mast 0.9 km. NNE.
23184 <i>D 2595.4</i>	-0.4 km. ENE. from jetee Transversale, Nord.	32° 18.9' N 9° 15.0' W	<b>Fl.(2)W.R.G.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	W. 14 R. 13 G. 13	Red beacon, red square daymark; 26.	G. 085°-097°, W.-103°, R.- 113°.
23188 <i>D 2599</i>	-Inner entrance, directional light 150°.	32° 18.4' N 9° 14.9' W	<b>Oc.W.</b> period 4s	33 10	2	White column; 30.	Visible 147°30'-152°30'.
23196 <i>D 2596</i>	-Grande Jetee, head.	32° 18.8' N 9° 15.4' W	<b>Iso.G.</b> period 4s	49 15	8	Green tower; 33.	<b>Radar reflector.</b>
23200 <i>D 2596.2</i>	--Elbow.	32° 18.7' N 9° 15.2' W	<b>F.G.</b>	19 6	3	White and green support; 16.	Visible 133°-335°.
23201 <i>D 2596.6</i>	--Spur, W. side of entrance.	32° 18.5' N 9° 15.1' W	<b>F.G.</b>	33 10	6		
23204 <i>D 2598</i>	-Jetee Transversale, N.	32° 18.8' N 9° 15.1' W	<b>Oc.R.</b> period 4s lt. 3s, ec. 1s	23 7	6	Gray hut, red top; 13.	
23208 <i>D 2600</i>	-Muelle de Fosfatos, head.	32° 18.6' N 9° 15.0' W	<b>F.R.</b>	23 7	6	White pillar, red top; 16.	
23214 <i>D 2601</i>	<b>Cap Hadid.</b>	31° 41.9' N 9° 39.8' W	<b>Fl.(2)W.</b> period 15s	157 48	20	Framework tower; 98.	
ESSAOUIRA:							
23216 <i>D 2602</i>	-Sidi Magdul.	31° 29.6' N 9° 45.8' W	<b>Oc.W.R.G.</b> period 4s	62 19	W. 14 R. 11 G. 9	White square tower; 49.	G. 034°-124°, W.-136°, R.- 214°, W.-260°, W. (unint.)- 350°, W.-034°.
23220 <i>D 2602.1</i>	-Jetee, SW. head.	31° 30.4' N 9° 46.6' W	<b>Q.W.</b>	26 8	12	White column, black band; 29.	Visible 208°-108°. <b>Horn:</b> 1 bl. ev. 60s (bl. 3s, si. 57s).
23224 <i>D 2602.2</i>	-Lighter basin, W. side of entrance, (Jetee SW).	31° 30.6' N 9° 46.6' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	10 3	6	White hut; 6.	Visible 187°-360°.
23228 <i>D 2602.4</i>	-E. side of entrance, (Jetee E.)	31° 30.6' N 9° 46.5' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	10 3	5	White hut; 6.	
23232 <i>D 2604</i>	<b>Cap Sim.</b>	31° 23.8' N 9° 49.8' W	<b>Fl.(3)W.</b> period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s	338 103	21	Fort, turret, white towers, green bands; 66.	Reserve light Fl.(3)W. 12s.
23236 <i>D 2608</i>	<b>Cap Rhir.</b>	30° 38.0' N 9° 52.9' W	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	279 85	22	White tower; 135.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MOROCCO</b>							
AGADIR:							
23244 <i>D 2611</i>	-W. jetty, head.	30° 25.0' N 9° 37.9' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	8	Square tower, red band; 23.	<b>Horn:</b> 2 bl. ev. 30s (bl. 2s, si. 3s, bl. 2s, si. 23s).
23248 <i>D 2612</i>	-SE. breakwater, head.	30° 25.1' N 9° 37.8' W	<b>Fl.(2)G.</b> period 6s	16 5	4	White post, green and white hut; 16.	
23253 <i>D 2613</i>	-Port Anza, W. breakwater, head.	30° 25.1' N 9° 38.5' W	<b>Fl.R.</b> period 4s fl. 1.5s, ec. 2.5s		5	White round tower, red band; 28.	
23254 <i>D 2613.2</i>	--NW. jetty, head.	30° 25.3' N 9° 38.4' W	<b>Fl.(4)R.</b> period 15s	36 11	5	Red post; 20.	
ESSAOUIRA:							
23254.5 <i>D 2613.6</i>	--S. breakwater, head.	30° 25.2' N 9° 38.3' W	<b>Fl.G.</b> period 4s	36 11	5	Green post; 20.	
23255 <i>D 2614</i>	<b>Inezgane AVIATION LIGHT.</b>	30° 22.7' N 9° 33.3' W	<b>Fl.W.</b> period 3s	118 36	17	Support; 56	
23255.5 <i>D 2615</i>	<b>Cap d'Aglou.</b>	29° 40.0' N 9° 58.0' W	<b>Fl.(2+1)W.</b> period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	174 53	20	Metal pylon; 66.	
IFNI:							
23256 <i>D 2616</i>	<b>-Sidi Ifni.</b>	29° 22.5' N 10° 10.7' W	<b>Fl.(1+3)W.</b> period 30s fl. 0.3s, ec. 11s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	187 57	25	Square yellow tower, building; 43.	
23257 <i>D 2616.2</i>	--Overhead transporter, head.	29° 21.9' N 10° 12.1' W	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	33 10	5		
23258 <i>D 2616.4</i>	--Jetty, head.	29° 21.5' N 10° 12.1' W	<b>Iso.R.</b> period 4s	36 11	5		Fl.R. 3s marks inner jetty head.
23260 <i>D 2616.6</i>	<b>Cap Draa.</b>	28° 40.5' N 11° 07.5' W	<b>Fl.(2)W.</b> period 10s	285 87	25	White tower, black bands; 98.	Reserve light range 16M.
23264 <i>D 2617</i>	<b>Cabo Nachtigal (Tan Tan).</b>	28° 29.8' N 11° 20.2' W	<b>Fl.W.</b> period 5s	118 36	15	White square tower, red bands; 23.	Visible 305°-215°.
23270 <i>D 2619</i>	<b>Tarfaya.</b>	27° 54.8' N 12° 56.5' W	<b>Fl.(2)W.</b> period 10s		25	Masonry tower; 43.	3 F.R. (vert.) on radio mast 1.5 miles NNE.
23272	-Tarfaya, channel, port side.	27° 57.0' N 12° 55.0' W	<b>Fl.R.</b> period 2s		2		

# Section 16

## Islands of the Eastern North Atlantic

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ACORES (AZORES) (P.)</b>							
ILHA DO CORVO:							
23280 D 2712	-Ponta Negra, S. point of island.	39° 40.2' N 31° 06.9' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	72 22	6	White structure, red lantern; 10.	
23282 D 2713	-Porto da Casa, pier, head.	39° 40.3' N 31° 06.6' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	26 8	3	White column, red bands; 13.	
23284 D 2714	-Canto de Carneira, NE. point.	39° 43.0' N 31° 05.3' W	<b>Fl.W.</b> period 6s fl. 0.5s, ec. 5.5s	781 238	9	White column, red bands; 13.	
ILHA DAS FLORES:							
23288 D 2704	<b>-Ponta das Lajes.</b>	39° 22.5' N 31° 10.6' W	<b>Fl.(3)W.</b> period 28s fl. 0.3s, ec. 4s fl. 0.3s, ec. 4s fl. 0.3s, ec. 19.1s	289 88	26	White tower, red cupola, dwelling; 52.	Visible 263°-054°.
23289 D 2705	--Porto das Lajes.	39° 22.7' N 31° 09.9' W	<b>Fl.(2)R.</b> period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	49 15	9	White column, red bands.	
23292 D 2706	-Faja Grande, W. side of island.	39° 27.5' N 31° 15.8' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	52 16	4	White column, red bands; 20.	F.R. lights are shown at the tops of radio masts at Lajes.
23296 D 2703	-Porto das Pocas Range, front.	39° 27.1' N 31° 07.6' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9	5	White post, red bands; 16.	
23300 D 2703.1	--Rear, 40 meters 284°36' from front.	39° 27.1' N 31° 07.7' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	59 18	5	White post, red bands; 16.	
23304 D 2702	-Ponta Santa Cruz, E. side of island.	39° 27.3' N 31° 07.5' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	46 14	4	White column, red bands; 20.	Visible 156°-308°.
23308 D 2702.4	-Porto Velho Range, front.	39° 27.3' N 31° 07.5' W	<b>L.Fl.G.</b> period 5s fl. 2s, ec. 3s	52 16	4	White post, red bands, wall.	
23312 D 2702.41	--Rear, 17 meters 261°36' from front.	39° 27.2' N 31° 07.3' W	<b>L.Fl.G.</b> period 5s fl. 2s, ec. 3s	62 19	4	White post, red bands, dwelling.	
23316 D 2708	<b>-Ponta do Albarnaz.</b>	39° 31.2' N 31° 14.1' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	331 101	22	White tower, red cupola, structure; 49.	Visible 035°-258°.
ILHA DO FAIAL:							
23318 D 2693	-Almoxarife cables, beach.	38° 33.1' N 28° 36.6' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	9	White column, red bands; 13.	Marks submarine cable area. Range by day 5M.
23320 D 2694	-Horta, breakwater, head.	38° 32.0' N 28° 37.3' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	69 21	11	White metal structure, red cupola; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks	
<b>ACORES (AZORES) (P)</b>								
23324 <i>D 2696</i>	--Sea wall, Boa Viagem.	38° 32.3' N 28° 37.5' W	<b>Iso.W.R.G.</b> period 6s	43 13	W. R. G.	9 6 6	White post, red bands, red diamond daymark; 20.	G. 276°-282°, W.-288°, R.-294°.
23328 <i>D 2697</i>	-Harbor Range, front.	38° 31.7' N 28° 37.5' W	<b>Iso.G.</b> period 2s	46 14		2	White post, red bands, red "X" daymark; 26.	
23332 <i>D 2697.1</i>	--Rear, 12 meters 195°18' from front.	38° 31.7' N 28° 37.5' W	<b>Iso.G.</b> period 2s	52 16		2	White post, red bands, red "X" daymark; 30.	
23336 <i>D 2698</i>	-Feteira Range, front.	38° 31.0' N 28° 41.0' W	<b>Oc.G.</b> period 6s lt. 4s, ec. 2s	26 8		5	White column, red bands; 10.	
23340 <i>D 2698.1</i>	--Rear, 340°42' from front.	38° 31.0' N 28° 41.0' W	<b>Oc.G.</b> period 6s lt. 4s, ec. 2s	30 9		5	White column, red bands; 16.	
23342 <i>D 2697.5</i>	-Pim cables, Porto Pim.	38° 31.5' N 28° 38.4' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	59 18		9	White column, red bands; 13.	Visible 345°-013°. Marks submarine cable area. Range by day 2M.
23344 <i>D 2692</i>	-Ponta da Ribeirinha.	38° 35.7' N 28° 36.2' W	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	446 136		12	White column; 20.	
23346 <i>D 2700</i>	-Ponta dos Cedros.	38° 38.3' N 28° 43.3' W	<b>Fl.W.</b> period 7s fl. 1s, ec. 6s	489 149		12	White structure, lantern; 13.	
23348 <i>D 2699</i>	-Vale Formoso, SW. side of island.	38° 34.9' N 28° 48.6' W	<b>L.Fl.(2)W.</b> period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	367 112		13	White tower, red lantern; 46.	
ILHA DO PICO:								
23360 <i>D 2687.2</i>	-Madalena, N. mole.	38° 32.2' N 28° 32.0' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	39 12		10	Red tower, white bands; 26.	
23364 <i>D 2687.5</i>	-Approach Range, front.	38° 32.0' N 28° 31.9' W	<b>Fl.G.</b> period 6s fl. 1.5s, ec. 4.5s	56 17		5	White post, red bands; 26.	
23368 <i>D 2687.51</i>	--Rear, 128 meters 138°54' from front.	38° 31.9' N 28° 31.8' W	<b>Fl.G.</b> period 6s fl. 1.5s, ec. 4.5s	68 21		5	White post, red bands; 26.	
23372 <i>D 2684</i>	-Areia Larga Anchorage Range, front.	38° 31.6' N 28° 32.2' W	<b>Iso.R.</b> period 4s	30 9		7	White post, red bands, red lantern.	
23376 <i>D 2684.1</i>	--Rear, 20 meters 082°12' from front.	38° 31.6' N 28° 32.1' W	<b>Iso.R.</b> period 4s	43 13		6	White post, red bands, red lantern; 13.	
23377 <i>D 2691.4</i>	Calhau Range, front.	38° 29.2' N 28° 32.4' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	36 11		6	White post, red bands, red lantern; 20.	
23377.1 <i>D 2691.41</i>	--Rear, 46 meters 121°54' from front.	38° 29.2' N 28° 32.3' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	49 15		6	Post, red lantern.	
23380 <i>D 2691</i>	-Ponta do Sao Mateus.	38° 25.3' N 28° 26.9' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	108 33		13	White tower, lantern; 43.	Visible 284°-118°.
23385 <i>D 2690.9</i>	-Cabos Galeao.	38° 25.5' N 28° 25.4' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9		9	White column, red bands; 13.	Visible 315°-010°. Marks submarine cable area.
23400 <i>D 2690.15</i>	-Santa Cruz das Ribeiras, pier, head.	38° 24.3' N 28° 11.2' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	26 8		3	White post, red bands; 10.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ACORES (AZORES) (P.)</b>							
23404 <i>D 2690</i>	-Ponta da Ilha.	38° 24.8' N 28° 01.8' W	<b>Fl.(3)W.</b> period 15s fl. 0.3s, ec. 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 6.1s	95 29	24	White tower, green cupola, dwelling; 62.	Visible 166°-070°.
23408 <i>D 2688</i>	-Cais do Pico, N. side of island.	38° 31.7' N 28° 19.2' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	36 11	6	White structure, red lantern; 16.	
23420 <i>D 2690.02</i>	-Manhenha Range, front.	38° 24.6' N 28° 02.2' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	33 10	6	Red post; 7.	
23424 <i>D 2690.03</i>	--Rear, 19 meters 298°54' from front.	38° 24.6' N 28° 02.2' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	52 16	3	Red post, building; 13.	
23428 <i>D 2689</i>	-Prainha.	38° 28.5' N 28° 12.0' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	39 12	7	Red column, white bands; 10.	Visible 128°-287°.
23432 <i>D 2689.4</i>	-Santo Amaro Range, front.	38° 27.3' N 28° 10.0' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	23 7	7	Red post, white bands, red lantern; 20.	
23436 <i>D 2689.41</i>	--Rear, 30 meters 198°48' from front.	38° 27.4' N 28° 10.1' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	39 12	7	Red post, white bands, red lantern; 20.	
23440 <i>D 2690.1</i>	-Calheta de Nesquim Range, front.	38° 24.2' N 28° 04.5' W	<b>Fl.R.</b> period 5s fl. 1.5s, ec. 3.5s	42 13	7	White structure, red lantern; 3.	
23444 <i>D 2690.11</i>	--Rear, 30 meters 329°48' from front.	38° 24.2' N 28° 04.7' W	<b>Fl.R.</b> period 5s fl. 1.5s, ec. 3.5s	59 18	7	Metal structure, red lantern; 20.	
ILHA DE SAO JORGE:							
23448 <i>D 2683</i>	-Ponta Rosais.	38° 45.2' N 28° 18.7' W	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	928 283	8	Gray tower, dwelling; 89.	
23457 <i>D 2682.3</i>	--Cabos Velas.	38° 40.7' N 28° 12.3' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 13	9	White column, red bands; 16.	Visible 033°-061°. Marks submarine cable area. Range by day 2M.
23460 <i>D 2682.4</i>	--Central anchorage.	38° 40.7' N 28° 12.5' W	<b>Iso.R.</b> period 5s	43 13	6	White column, red bands; 30.	
23466 <i>D 2681.8</i>	-Quimada.	38° 40.2' N 28° 11.5' W	<b>Fl.W.</b> period 5s fl. 1.5s, ec. 3.5s	125 38	10	White column, red bands; 20.	
23468 <i>D 2681.5</i>	-Urzelina.	38° 38.6' N 28° 07.7' W	<b>Fl.R.</b> period 6s fl. 1.5s, ec. 4.5s	33 10	6	Yellow metal structure, white bands, red lantern; 13.	
23472 <i>D 2680.2</i>	-Ponta da Forcada.	38° 35.7' N 27° 58.9' W	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	213 65	6	White column, red bands; 16.	
23477 <i>D 2681.2</i>	--Mole.	38° 36.1' N 28° 00.6' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	43 13	10	White column, red bands; 20.	
23480 <i>D 2680</i>	-Ponta do Topo.	38° 32.9' N 27° 45.2' W	<b>Fl.(3)W.</b> period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	200 61	20	White tower, red cupola, dwellings; 52.	Visible 133°-033°.
23482 <i>D 2683.5</i>	-Norte Grande.	38° 40.8' N 28° 03.0' W	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	115 35	12	White column, red bands; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ACORES (AZORES) (P)</b>							
23484 D 2670	-Ponta do Carapacho.	39° 00.8' N 27° 57.3' W	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	620 189	15	Gray tower, red cupola, dwelling; 46.	Visible 165°-098°.
ILHA GRACIOSA:							
23488 D 2674	-Fort do Santo, N. side of island.	39° 05.3' N 28° 00.5' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s		23 7	6 Red metal structure, red lantern; 20.	
23489 D 2672.3	-Vila da Praia Range, front.	39° 03.2' N 27° 58.2' W	<b>Fl.R.</b> period 2s fl. 0.5s, ec. 1.5s		30 9	6 White column, red bands; 13.	Visible 292°54'-320°54'.
23489.1 D 2672.35	--Rear, 306°54' from front.	39° 03.2' N 27° 58.2' W	<b>Iso.R.</b> period 4s		49 15	6 White column, red bands; 30.	Visible 292°54'-320°54'.
23490 D 2672.5	-Ponta da Rochela.	39° 03.1' N 27° 58.0' W	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s		46 14	9 White tower, green bands; 13.	
23491 D 2672.7	-Praia.	39° 03.1' N 27° 58.3' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s		20 6	9 Red lantern.	Visible 264°-292°. Marks submarine cable area. Range by day 2M.
23496 D 2677	-Folga, on headland.	39° 01.1' N 28° 00.1' W	<b>L.Fl.W.</b> period 5s fl. 2s, ec. 3s		102 31	4 White post, red bands, dwelling; 16.	
23500 D 2676	-Ponta da Barca.	39° 05.6' N 28° 03.0' W	<b>Fl.W.</b> period 7s fl. 0.4s, ec. 6.6s		236 72	20 White tower, black bands, red cupola; 75.	Visible 029°-031°, 035°-251° and 267°-287°.
ILHA TERCEIRA:							
23504 D 2668	-Ponta da Serreta.	38° 45.9' N 27° 22.4' W	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s		328 100	12 White tower, red bands; 46.	
23508 D 2669	-Biscoitos.	38° 48.0' N 27° 15.5' W	<b>Oc.W.</b> period 6s lt. 4s, ec. 2s		43 13	9 White structure, red bands, red lantern; 10.	
23512 D 2660	-Vila Nova.	38° 46.9' N 27° 08.5' W	<b>Iso.W.</b> period 6s		36 11	9 Structure, red lantern; 7.	
23516 D 2661	-Lajes AVIATION LIGHT.	38° 45.5' N 27° 04.7' W	<b>Al.Fl.W.G.</b> period 10s		436 133	W. 28 G. 23	
23524 D 2662	-Praia da Vitoria, N. mole, head.	38° 43.6' N 27° 03.1' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s		66 20	10 White tower, black bands; 30.	
23525 D 2662.5	--S. mole, head.	38° 43.2' N 27° 02.9' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s		75 23	8 White tower, red bands, red lantern; 52.	
23528 D 2663.5	-Ponta de Sao Fernando, at Rivera Seca.	38° 40.6' N 27° 03.9' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s		20 6	6 Black structure, red lantern; 10.	
23532 D 2664	-Ponta das Contendas.	38° 38.6' N 27° 05.1' W	<b>Fl.(4)W.R.</b> period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s		177 54	23 White tower, red cupola, dwelling; 43.	W. 220°-020°, R.-044°, W.- 072°, R.-093°, obscured 073°-079°.
23536 D 2665	-Porto Judeu.	38° 38.9' N 27° 07.0' W	<b>Fl.R.</b> period 3s fl. 0.5s, ec. 2.5s		30 9	3 White column, red bands; 20.	
23540 D 2666	-Bahia Angra, Ponte de Sto. Antonio (Monte Brasil).	38° 38.6' N 27° 13.0' W	<b>Oc.W.R.</b> period 10s lt. 6s, ec. 4s		92 28	12 White column, red bands; 16.	R. 191°-295°, W.-057°. 2 Oc.R. 2s and 2 F.R. on radio mast 1.5 miles 350°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ACORES (AZORES) (P.)</b>							
23544 <i>D 2666.2</i>	--Angra do Heroismo entrance Range, front.	38° 39.2' N 27° 13.1' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	69 21	7	Red post; 7.	
23548 <i>D 2666.21</i>	---Rear, 505 meters 340°54' from front.	38° 39.5' N 27° 13.2' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	203 62	7	Yellow structure, red lantern; 7.	
23556 <i>D 2666.5</i>	--Porto Pipas, mole, head.	38° 39.0' N 27° 12.9' W	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	46 14	6	Green column, white bands; 16.	Fl.(2)R. 6s 9m 3M light marks marina entrance 150 meters NW.
23558 <i>D 2666.1</i>	-Cabos Silveira.	38° 39.4' N 27° 14.0' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	72 22	9	White post, red bands; 13.	Visible 024°-052°. Marks submarine cable area. Range by day 2M.
23560 <i>D 2666.7</i>	-Sao Mateus.	38° 39.3' N 27° 16.1' W	<b>Iso.W.R.</b> period 6s	39 12	W. 10 R. 7	White column, red bands; 10.	R. 270°-296°, W.-067°.
23564 <i>D 2667</i>	-Cinco Ribeiras.	38° 40.5' N 27° 19.7' W	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	75 23	10	White structure, red bands, red lantern; 7.	
ILHA DE SAO MIGUEL:							
23568 <i>D 2655</i>	<b>-Ponta da Ferraria.</b>	37° 51.2' N 25° 51.0' W	<b>Fl.(3)W.</b> period 20s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 11.6s	351 107	27	White tower, red cupola, dwelling; 59.	Visible 339°-174°. Signal station.
23570 <i>D 2654.6</i>	-Ponta das Feteiras.	37° 46.6' N 25° 45.6' W	<b>Fl.(2)R.</b> period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 7.9s	853 260	6	White post, red bands; 18.	
23572 <i>D 2655.4</i>	-Mosteiros.	37° 53.5' N 25° 49.3' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	33 10	6	White structure, red bands, red latern.	Visible 090°-155°.
23576 <i>D 2655.6</i>	-Pilar da Bretanha.	37° 54.3' N 25° 47.1' W	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	479 146	6	White column, red bands; 20.	
23580 <i>D 2654</i>	<b>-Santa Clara.</b>	37° 44.0' N 25° 41.2' W	<b>L.Fl.W.</b> period 5s fl. 2s, ec. 3s	88 27	15	Red metal structure, red cupola; 26.	Visible 282°-102°.
-Ponta Delgada Harbor:							
23584 <i>D 2647</i>	--Breakwater, E. extremity.	37° 44.2' N 25° 39.4' W	<b>L.Fl.R.</b> period 6s fl. 2s, ec. 4s	56 17	10	White tower, red bands; 23.	
23593 <i>D 2648.5</i>	--Naval Club.	37° 44.5' N 25° 39.4' W	<b>Fl.(2)W.R.G.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	82 25	10	On terrace; 49.	G. 301°30'-306°30', W.-311°30', R.-316°30'. Range by day 1M.
23594 <i>D 2648</i>	--Marina.	37° 44.4' N 25° 39.5' W	<b>Fl.G.</b> period 3s fl. 1s, ec. 2s	43 13	10	White column, green bands; 20.	
23595.1 <i>D 2648.7</i>	--Portas Mar, E.	37° 44.3' N 25° 39.6' W	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s		3	White column, red bands; 10.	
23595.2 <i>D 2648.72</i>	---W.	33° 44.2' N 25° 39.8' W	<b>Fl.(3)G.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s		3	White column, green bands; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ACORES (AZORES) (P)</b>							
23598 D 2652	--S. Bras Fort.	37° 44.1' N 25° 40.4' W	<b>Fl.(4)W.R.G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	46 14	10	Lantern; 46.	G. 259°-261°, W.-263°, R.- 265°. Range by day 1M.
23599 D 2649.5	--Quebra-mar, floating breakwater, S. end.	37° 44.3' N 25° 40.0' W	<b>Q.(6)+L.Fl.W.</b> period 15s			3 S. CARDINAL YB, beacon, topmark; 16.	
23601 D 2649.7	--Pescas, fishing harbor.	37° 44.2' N 25° 40.1' W	<b>Fl.(4)R.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s			3 White column, red bands; 10.	
23604 D 2654.2	-AVIATION LIGHT, at airport.	37° 44.6' N 25° 42.5' W	<b>Al.Fl.W.G.</b> period 10s	276 84	W. 28 G. 23	Control tower.	Visible 282°-124°.
23606 D 2645.5	-Cabos Populo, Populo Beach.	37° 45.0' N 25° 37.0' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	9	White column, red bands; 13.	Visible 349°-031°. Marks submarine cable area. Range by day 2M.
23608 D 2646	-Lagoa.	37° 44.6' N 25° 34.5' W	<b>Fl.R.</b> period 3s fl. 1s, ec. 2s	30 9		6 White column, red bands; 13.	
23609 D 2645.45	-Cabos Lagoa.	37° 44.6' N 25° 34.2' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	23 7	9	White column, red bands; 13.	Visible 339°-007°. Marks submarine cable area. Range by day 2M.
23612 D 2645	-Porto da Caloura, mole, S. extremity.  -Vila Franca do Campo:	37° 42.9' N 25° 29.7' W	<b>Fl.W.</b> period 4s			9 White structure, red bands, white lantern; 7.	2 Oc. G. 3s lights in line 332°24' lead into port.
23626 D 2642.5	--Marina, pier, N. head.	37° 42.8' N 25° 25.8' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	39 12		9 White column, green bands; 23.	
23627 D 2642.4	---S. head.	37° 42.9' N 25° 25.7' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	39 12		9 White column, red bands; 23.	
23628 D 2642	-Ponta da Garca.	37° 42.9' N 25° 22.2' W	<b>Oc.W.R.</b> period 5s lt. 3s, ec. 2s	331 101	W. 16 R. 13	Gray tower, red cupola, dwelling; 46.	W. 240°-080°, R.-100°.
23630 D 2641	-Ribeira Quente, mole.	37° 44.0' N 25° 17.9' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	20 6	5	White tower, green bands; 10.	
23636 D 2640	-Ponta do Arnel AVIATION LIGHT, E. side of island.	37° 49.4' N 25° 08.1' W	<b>Fl.(2)W.</b> period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	217 66	19	White tower, red cupola, dwelling; 49.	Visible 157°-355°.
23638 D 2659.8	-Ponta dos Fenais.	37° 52.0' N 25° 19.0' W	<b>Fl.(3)R.</b> period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	190 58	12	White post, red bands; 23.	
23640 D 2659	-Ponta do Cintrao.	37° 50.7' N 25° 29.3' W	<b>Fl.(4)W.</b> period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	387 118	14	Gray tower, red cupola, dwelling; 46.	
23644 D 2659.4	-Port Formoso.	37° 49.3' N 25° 25.6' W	<b>Fl.W.</b> period 4s fl. 1.5s, ec. 2.5s			6 White structure, red bands, red lantern; 10.	
23648 D 2656	-Porto de Capelas, N. side of island.	37° 50.5' N 25° 41.2' W	<b>Fl.(2)R.</b> period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	377 115	8	White tower, red bands; 23.	Visible 153°-281°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ACORES (AZORES) (P.)</b>							
23650 <i>D 2656.9</i>	-Rabo de Peixe, mole.	37° 49.0' N 25° 35.2' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	36 11	6	White tower, red bands; 9.	Visible 338°-252°.
ILHA DE SANTA MARIA:							
23664 <i>D 2632</i>	<b>-Goncalo Velho.</b>	36° 55.8' N 25° 01.0' W	<b>Fl.(3)W.</b> period 13.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.2s fl. 0.4s, ec. 7.6s	374 114	25	White tower, red cupola, dwelling; 46.	Visible 181°-089°. Aeromarine light.
23666 <i>D 2632.1</i>	-Cabos Formosa.	36° 57.0' N 25° 05.6' W	<b>Fl.(2)Y.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	36 11	9	Wall, white lantern.	Visible 000°-040°. Marks submarine cable area. Daytime range 2M.
23668 <i>D 2636</i>	-Ponta do Malmerendo, to Vila do Porto, entrance, W. side.	36° 56.4' N 25° 09.4' W	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	164 50	12	White structure, red bands, lantern; 20.	Visible 282°-091°.
23669 <i>D 2635</i>	-Recreio.	36° 56.6' N 25° 08.9' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	3	White post, red bands; 10.	
23670 <i>D 2635.3</i>	-Mole, head.	36° 56.5' N 25° 08.9' W	<b>L.Fl.R.</b> period 5s fl. 2s, ec. 3s	49 15	5	White tower, red bands; 26.	
23680 <i>D 2634</i>	-AVIATION LIGHT, about 3.7 km. 349° from Ponta do Malmerendo.	36° 58.4' N 25° 09.9' W	<b>Al.Fl.W.G.</b> period 10s	384 117	25	Control tower.	Visible 021°-121°. Shown during low visibility in daytime. Occasional. <b>Aero Radiobeacon</b> about 1.5 miles NNW.
23684 <i>D 2633.7</i>	-Baia dos Anjos Range, front.	37° 00.2' N 25° 09.5' W	<b>Fl.W.</b> period 3s fl. 1s, ec. 2s	43 13	10	White post, red bands; 16.	
23688 <i>D 2633.71</i>	--Rear, 25 meters 173°24' from front.	37° 00.2' N 25° 09.5' W	<b>L.Fl.W.</b> period 6s fl. 2s, ec. 4s	69 21	10	White post, red bands; 16.	
23692 <i>D 2633</i>	-Ponta do Norte.	37° 00.8' N 25° 03.6' W	<b>Fl.(4)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	456 139	12	White structure, red bands, lantern; 10.	F.R. 6M on radio tower 0.2 miles 131°.
23696 <i>D 2632.3</i>	-Sao Lourenco Range, front.	36° 59.5' N 25° 03.4' W	<b>Iso.R.</b> period 6s	85 26	7	White post, red bands, white house, blue arches, red lantern; 20.	
23700 <i>D 2632.4</i>	--Rear, about 64 meters 273°18' from front.	36° 59.5' N 25° 03.4' W	<b>Oc.R.</b> period 7.5s fl. 4s, ec. 3.5s	121 37	6	Dwelling, red lantern; 7.	
23702 <i>D 2632.2</i>	-Espigao.	36° 58.9' N 25° 02.9' W	<b>Fl.W.</b> period 6s fl. 1s, ec. 5s	679 207	12	White column, red bands; 20.	
ILHEUS FORMIGAS:							
23704 <i>D 2638</i>	-Formigas, on a rock about 0.5 km. S. of islet.	37° 16.1' N 24° 46.6' W	<b>Fl.(2)W.</b> period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	72 22	12	White tower, lantern; 62.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ARQUIPELAGO DA MADEIRA (MADEIRA ISLANDS) (P.)</b>							
ILHA DA MADEIRA:							
23708 D 2754	-Ilheu Mole.	32° 52.2' N 17° 09.8' W	<b>Fl.W.R.</b> period 5s fl. 1s, ec. 4s	213 65	W. 10 R. 8	Dwelling, lantern; 10.	R. 116°-127° over Baixas do Moniz, W.-116°.
23712 D 2752	<b>-Ponta do Pargo.</b>	32° 48.8' N 17° 15.7' W	<b>Fl.(3)W.</b> period 20s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 12.9s	1024 312	<b>26</b>	White tower, red cupola, dwelling; 46.	
23716 D 2750	-Paul do Mar.	32° 45.1' N 17° 13.4' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	56 17	6	Post, red lantern; 10.	
23720 D 2746	-Ribeira Brava, S. side of island.	32° 40.2' N 17° 03.8' W	<b>Fl.R.</b> period 5s fl. 1.5s, ec. 3.5s	112 34	9	Red hut.	
23724 D 2744	-Camara de Lobos, W. side of bay.	32° 38.8' N 16° 58.5' W	<b>Oc.R.</b> period 6s lt. 4s, ec. 2s	75 23	9	White tower, white column, red bands; 7.	Visible 304°-099°.
23726 D 2743	-Vitoria.	32° 38.5' N 16° 58.1' W	<b>Q.(6)+L.Fl.W.</b> period 15s	43 13	9	White structure, lantern; 7.	Fl.R. 2.4s marks dolphin E.
23727.6 D 2741.5	-Cabos Formosa, Formosa Beach.	32° 38.3' N 16° 57.0' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	20 6	9	White post, red bands; 13.	Visible 027°-055°. Marks submarine cable area. Range by day 2M.
23727.9 D 2741.3	-Cabos Gorgulho, Gorgulho Beach.	32° 38.2' N 16° 56.1' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	75 23	9	Wall, red bands, lantern.	isible 330°-025°. Marks submarine cable area. Range by day 2M.
-Funchal:							
23728 D 2738	--Breakwater, head.	32° 38.5' N 16° 54.4' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	52 16	8	White tower, red bands; 16.	Visible 275°-075°. F.R. 3M and F.G. 2M mark heads of breakwaters in Marina to NW. <b>Radar reflector.</b>
23732 D 2728	Sao Roque.	32° 42.9' N 16° 45.8' W	<b>L.Fl.W.R.</b> period 5s fl. 2s, ec. 3s	39 12	W. 9 R. 7	White column, red bands, red structure; 13.	R. 230°-265°, W.-230°.
23736 D 2730	--Cais Machico.	32° 43.1' N 16° 45.5' W	<b>Fl.(3)G.</b> period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	23 7	6	Green tower; 7.	
23740 D 2726	<b>-Ponta de Sao Lourenco.</b>	32° 43.8' N 16° 39.4' W	<b>Fl.W.</b> period 10s fl. 1s, ec. 9s	338 103	<b>20</b>	White tower, red cupola, white dwelling; 33.	
23744 D 2755	<b>-Sao Jorge.</b>	32° 50.1' N 16° 54.3' W	<b>L.Fl.W.</b> period 5s fl. 2s, ec. 3s	889 271	<b>15</b>	Tower, red cupola, dwelling; 46.	
23746 D 2755.5	-Cabos Lagoa, Lagoa Beach.	32° 46.5' N 16° 49.7' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	9	White post, red bands; 13.	Visible 188°-216°. Marks submarine cable area. Range by day 2M.
ILHAS DESERTAS:							
23748 D 2720	-Ilheu Chao, on N. extremity.	32° 35.4' N 16° 32.7' W	<b>L.Fl.(2)W.</b> period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	367 112	13	White tower, dwelling, red lantern; 46.	
23752 D 2722	-Ilheu de Bugio, (Ponta da Agulha), S. head.	32° 24.3' N 16° 27.8' W	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	236 72	13	White tower, red bands; 16.	Visible 163°-100°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ARQUIPELAGO DA MADEIRA (MADEIRA ISLANDS) (P.)</b>							
ILHA DE PORTO SANTO:							
23756 D 2756	-Ilheu de Cima.	33° 03.2' N 16° 16.7' W	<b>Fl.(3)W.</b> period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	407 124	21	White tower, red cupola, white dwelling; 49.	Aeromarine light.
23765 D 2757.2	New Port, N. mole, head.	33° 03.5' N 16° 18.8' W	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	43 13	7	White column, red bands; 13.	
23766 D 2757	-S. mole, head.	33° 03.5' N 16° 18.8' W	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	56 17	6	White column, green bands; 13.	
23767 D 2763	-N. Coast Ilha de Porto Santo.	33° 05.8' N 16° 20.4' W	<b>Fl.(2)W.</b> period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	479 146	12	White tower, red bands; 16.	Visible 064°-243°.
23767.5 D 2757.3	-Cabeco cables, beach.	33° 02.2' N 16° 21.7' W	<b>Fl.(2)R.</b> period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	9	White post, red bands; 13.	Visible 308°-328°. Marks submarine cable area. Range by day 3M.
23768 D 2762	Ilheu de Ferro.	33° 02.3' N 16° 24.3' W	<b>L.Fl.W.</b> period 15s fl. 3s, ec. 12s	394 120	13	White tower, red cupola, white dwelling; 46.	
23772 D 2769	Selvagem Pequena.	30° 02.2' N 16° 01.7' W	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	164 50	12	Structure, white lantern; 3.	
23776 D 2768	-Selvagem Grande.	30° 08.7' N 15° 52.3' W	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s		13	White tower, red bands; 33.	

**ISLAS CANARIAS (CANARY ISLANDS) (S.)**

ISLA DE LA PALMA:

23780 D 2846	-Punta Cumplida.	28° 50.2' N 17° 46.7' W	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	207 63	23	Truncated conical masonry tower, white top; 112.	Visible 104°30'-337°.
23784 D 2848.45	-Santa Cruz de la Palma, breakwater, head.	28° 40.3' N 17° 05.8' W	<b>Fl.G.</b> period 5s fl. 1s, ec. 4s	56 17	5	Green round tower, truncated conical top, base; 26.	
23785 D 2849.3	--Marina Entrance, breakwater, head.	28° 40.7' N 17° 46.1' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Green pyramidal tower; 16.	
23785.1 D 2849.35	--W. side.	28° 40.7' N 17° 46.1' W	<b>Fl.(2)R.</b> period 7s			Red pyramidal tower; 16.	
23794 D 2848.4	--Darsena Pesquera breakwater, elbow.	28° 40.3' N 17° 46.1' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red post, square topmark; 13.	
23796 D 2848.5	--Head.	28° 40.4' N 17° 46.1' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red post; 13.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
23797 <i>D 2849</i>	-Muelle Polivalente, head.	28° 40.4' N 17° 46.1' W	<b>Fl.(2+1)R.</b> period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	30 9	3	Red truncated tower, green band; 13.	
23797.2 <i>D 2847.2</i>	-Playa de Santa Cruz, breakwater, N. head.	28° 41.3' N 17° 45.5' W	<b>Fl.Y.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	3	SPECIAL Y, column, topmark; 13.	
23797.3 <i>D 2847.5</i>	--S. head.	28° 41.1' N 17° 45.5' W	<b>V.Q.(3)W.</b> period 5s	26 8	3	E. CARDINAL BYB, column, topmark; 13.	
23798 <i>D 2849.51</i>	-Punta de Arenas Blancas.	28° 34.2' N 17° 45.6' W	<b>Oc.(3)W.</b> period 8s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	151 46	20	White round tower; 125.	
23800 <i>D 2850</i>	-Punta de Fuencaliente, S. end of island.	28° 27.3' N 17° 50.5' W	<b>Fl.(3)W.</b> period 18s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 9s	118 36	14	White round tower, red bands; 79.	
23801 <i>D 2851</i>	-Punta Lava.	28° 35.8' N 17° 55.5' W	<b>Fl.(1+2)W.</b> period 20s	167 51	20	White octagonal tower.	
23802 <i>D 2852</i>	-Tazacorte Harbor, shelter dike.	28° 38.5' N 17° 56.5' W	<b>Fl.(2)R.</b> period 7s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 4.6s	56 17	5	Red metal tower; 3.	
HIERRO:							
23804 <i>D 2838</i>	-Puerto de Hierro, mole, head.	27° 46.9' N 17° 53.9' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	46 14	5	Green round tower, conical top, round base; 23.	
23808 <i>D 2836</i>	-Punta Orchilla.	27° 42.4' N 18° 08.8' W	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	433 132	24	Gray octagonal masonry tower, square base; 82.	
23810 <i>D 2837</i>	-Puerto de Restinga.	27° 38.3' N 17° 58.9' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	1	Green conical pyramidal tower; 3.	
ISLA DE LA GOMERA:							
23812 <i>D 2842</i>	-Punta de San Cristobal.	28° 05.7' N 17° 05.9' W	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	277 84	21	White round tower, red band; 49.	
23816 <i>D 2844.75</i>	-Puerto de Sebastian, corner of breakwater.	28° 05.0' N 17° 06.4' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green post; 10.	
23825 <i>D 2845</i>	-Playade Santiago.	28° 01.5' N 17° 11.7' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Red pillar, red column; 16.	
23825.5 <i>D 2844.9</i>	--Breakwater.	28° 01.7' N 17° 11.8' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Green column; 10.	
23826 <i>D 2845.5</i>	-Vueltas Valle Gran Rey.	28° 04.7' N 17° 19.8' W	<b>Fl.(2+1)G.</b> period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	52 16	3	Green post, red band; 7.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
ISLA DE TENERIFE:							
23828 <i>D 2829</i>	<b>-Punta de Abona.</b>	28° 08.9' N 16° 25.7' W	<b>Fl.(3)W.</b> period 20s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 11.9s	177 54	17	White round tower, red bands, two galleries, dwelling; 128.	Visible 213°36'-040°18'.
23832 <i>D 2830</i>	<b>-Punta Rasca.</b>	28° 00.1' N 16° 41.6' W	<b>Fl.(3)W.</b> period 12s	167 51	17	Round white tower, red bands; 105.	
23836 <i>D 2831</i>	-Puerto de los Cristianos, breakwater, head.	28° 02.7' N 16° 42.9' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	43 13	5	Round tower, red conical top, base; 20.	
23838 <i>D 2831.8</i>	<b>-Punta de Buenavista.</b>	28° 23.4' N 16° 50.1' W	<b>Fl.(4)W.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	249 76	20	White square tower; 131.	
23840 <i>D 2832</i>	<b>-Punta de Tenó.</b>	28° 20.5' N 16° 55.2' W	<b>Fl.(1+2)W.</b> period 20s fl. 0.3s, ec. 8.3s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.3s	196 60	18	White round tower, red bands, two galleries; 65.	
23842 <i>D 2833</i>	<b>-Puerto de la Cruz.</b>	28° 25.1' N 16° 33.3' W	<b>Fl.(2)W.</b> period 7s	102 31	16	Square tower; 89.	
23844 <i>D 2834</i>	--N. mole, head.	28° 25.2' N 16° 33.0' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Green column; 10.	
23848 <i>D 2835</i>	--S. mole, head.	28° 25.1' N 16° 33.0' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red column; 10.	
23852 <i>D 2820</i>	<b>-Punta de Anaga.</b>	28° 34.9' N 16° 08.4' W	<b>Fl.(2+4)W.</b> period 30s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8.8s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8.8s	810 247	21	Round masonry tower, white top, white building; 39.	
23854 <i>D 2818</i>	<b>-Punta del Hidalgo.</b>	28° 34.6' N 16° 19.7' W	<b>Fl.(3)W.</b> period 16s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7.5s	171 52	16	Masonry tower; 164.	
23856 <i>D 2821</i>	<b>-Los Rodeos, AVIATION LIGHT.</b>	28° 29.3' N 16° 18.4' W	<b>Fl.W.</b> period 5s	2136 651	37	Iron tower; 46.	Shown from sunset to sunrise.
-Santa Cruz de Tenerife:							
23859 <i>D 2822.8</i>	--Digue del Este, head.	28° 29.0' N 16° 13.7' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	9	Green round tower, truncated conical base; 20.	
23860 <i>D 2822.6</i>	---First elbow.	28° 29.3' N 16° 13.1' W	<b>Q.(6)+L.Fl.W.</b> period 15s	36 11	5	S. CARDINAL YB, post, topmark; 10.	
23864 <i>D 2822.7</i>	---Second elbow.	28° 29.0' N 16° 13.5' W	<b>Q.(6)+L.Fl.W.</b> period 15s	36 11	5	S. CARDINAL YB, tower, topmark; 10.	

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<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
23868 <i>D 2822</i>	--Muelle- Dique de Sur, head.	28° 28.7' N 16° 14.1' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	62 19	10	Red round tower, truncated conical top; 16.	
23872 <i>D 2822.4</i>	--N. mole, head.	28° 28.6' N 16° 14.5' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green truncated pyramidal tower; 7.	
23873 <i>D 2822.45</i>	--Darsena de Anaga, NE. corner.	28° 28.3' N 16° 14.7' W	<b>Fl.(4)Y.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	SPECIAL Y, tower, "X" topmark; 13.	Synchronized with 23874.
23874 <i>D 2822.46</i>	---NW. corner.	28° 28.3' N 16° 01.6' W	<b>Fl.(4)Y.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	SPECIAL Y, tower, "X" topmark; 13.	Synchronized with 23873.
23876 <i>D 2826</i>	--Darsena Pesquera, Dique de Abrigo, on angle, head.	28° 29.6' N 16° 12.7' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	3	Green round tower; 16.	
23880 <i>D 2826.2</i>	---At 95 meters 332°24' (in water).	28° 29.6' N 16° 12.7' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Round green metal column.	
23884 <i>D 2826.4</i>	---At 201 meters 343° (in water).	28° 29.7' N 16° 12.7' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Round red metal column.	
23886 <i>D 2826.5</i>	--Breakwater, head.	28° 29.5' N 16° 12.8' W	<b>Fl.R.</b> period 5s	43 13	3	Red column; 20.	
23888 <i>D 2831.6</i>	--Dock, NE. head.	28° 14.8' N 16° 50.4' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	3	Red tripod, white base, red diagonal stripes; 16.	
23892 <i>D 2831.5</i>	-Santiago, SW. dock, head.	28° 15.0' N 16° 50.0' W	<b>Fl.G.</b> period 6s fl. 1.5s, ec. 4.5s	36 11	3	Green tripod; 10.	
23896	--Dock, SW.	28° 15.0' N 16° 50.0' W	<b>Fl.W.</b> period 1.6s		4		
23900 <i>D 2827.2</i>	-Puerto de la Hondura (Puerto Caballo), range, front, oil pier, E. angle.	28° 26.9' N 16° 15.9' W	<b>Q.R.</b>	28 9	3	Yellow post, black diagonal stripes; 7.	Lighted ranges are established for anchorage, lights are shown from group of dolphins close northeastward.
ISLA DE TENERIFE:							
23900.1 <i>D 2827.21</i>	---Rear, 335 meters 270°36' from front.	28° 26.9' N 16° 16.1' W	<b>9 F.R.(vert.)</b>	56 17	2	White post, red diagonal stripes, white diamond daymark; 33.	4 F.R. form diamond on top of post, 5 F.R.(vert.).
-Santa Cruz de Tenerife:							
23904 <i>D 2827</i>	--W. angle.	28° 26.9' N 16° 15.9' W	<b>Iso.G.</b> period 3.4s	33 10	5	Green post, white wall, black diagonal bands; 20.	FW. lights are shown from loading platform about 229 meters 058°. Lighted mooring buoy, Q.Y., about 78 meters 121°.

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<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
ISLA DE TENERIFE:							
23905 <i>D 2827.4</i>	--Range, front, dolphin.	28° 27.0' N 16° 15.7' W	<b>Q.R.</b>	43 13	3	White post, red diagonal bands, "X" daymark; 20.	
			<b>4 F.R.(vert.)</b>				
23905.1 <i>D 2827.41</i>	--Rear, 109 meters 327° from front.	28° 27.1' N 16° 15.7' W	<b>5 F.R.(vert.)</b>	46 14	2	White post, red diagonal bands, red and white "X" daymark; 23.	
-Santa Cruz de Tenerife:							
23908 <i>D 2826.86</i>	-Muelle de Ribera.	28° 27.4' N 16° 14.9' W	<b>Fl.(4).R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red post.	
23909 <i>D 2826.78</i>	--Inside mole, head.	28° 27.6' N 16° 14.8' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	1	Green truncated pyramidal tower; 10.	
23910 <i>D 2826.9</i>	-Entrance Range, front.	28° 27.5' N 16° 14.9' W	<b>Iso.W.</b> period 1s	26 8	3	White framework tower, red bands; 16.	
23910.5 <i>D 2826.91</i>	--Rear, 71 meters 002° from front.	28° 27.5' N 16° 14.9' W	<b>Q.W.</b>	43 13	3	White framework tower, red bands; 33.	
23911 <i>D 2826.87</i>	-Ro Ro Terminal.	28° 27.5' N 16° 14.9' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	1	Red truncated pyramidal tower; 7.	
23912 <i>D 2826.72</i>	-Dique de los Llanos, E. extremity.	28° 27.3' N 16° 14.8' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	9	Green round tower; 20.	
23913 <i>D 2826.74</i>	--W. extremity.	28° 27.4' N 16° 14.9' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green metal post; 7.	
23916 <i>D 2826.7</i>	--Elbow.	28° 28.0' N 16° 14.5' W	<b>Q.(3)W.</b> period 10s	29 9	5	E. CARDINAL BYB, post, topmark.	
23917 <i>D 2826.82</i>	--W. breakwater, head.	28° 27.3' N 16° 14.9' W	<b>Fl.(3)R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	9	Red beacon, red square daymark.	Q.(6)+L.Fl.W. 15s 15m 3M light 600 meters SW. <b>Radar reflector.</b>
23918 <i>D 2827.9</i>	-Puerto Radazul, breakwater, head.	28° 24.0' N 16° 19.4' W	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Green post; 20.	
ISLA DE TENERIFE:							
23919 <i>D 2827.93</i>	-Punta Larga.	28° 21.6' N 16° 21.9' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	5	Green cylindrical post; 7.	

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<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
-Santa Cruz de Tenerife:							
23920 <i>D 2827.94</i>	-Puerto de Candelaria, jetty, head.	28° 21.4' N 16° 22.1' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	29 9	5	Green round column; 10.	
23924 <i>D 2827.98</i>	--Contradique.	28° 21.4' N 16° 22.2' W	<b>Fl.(4)R.</b> period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red round column; 10.	
ISLA DE GRAN CANARIA:							
23928 <i>D 2816</i>	-Punta Sardinia, NW.	28° 09.9' N 15° 42.5' W	<b>Fl.(4)W.</b> period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	157 48	20	White round tower, red bands; 79.	
23932 <i>D 2798</i>	-La Isleta.	28° 10.4' N 15° 25.1' W	<b>Fl.(3+1)W.</b> period 20s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 6.9s fl. 0.3s, ec. 6.9s	817 249	21	White conical tower, yellow band, dwelling; 32.	Aeromarine light.
23934 <i>D 2799.2</i>	-El Roque del Palo.	28° 09.9' N 15° 23.9' W	<b>Q.(3)W.</b> period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 12	6	Black post, yellow band, concrete base; 20.	
23935 <i>D 2799.3</i>	-Dique de la Esfinge, head.	28° 09.1' N 15° 23.9' W	<b>Q.(4)G.</b> period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 6.5s	52 16	5	Green and white cylindrical tower; 13.	
23936 <i>D 2799</i>	-Radio Atlantico, AVIATION LIGHT.	28° 01.1' N 15° 35.2' W	<b>Oc.R.</b> period 3s lt. 2s, ec. 1s	5266 1605	40	Radio mast; 180.	
23938 <i>D 2799.4</i>	-Puerto de la Luz, breakwater, head.	28° 07.3' N 15° 24.3' W	<b>Fl.G.</b> period 5s fl. 0.3s, ec. 4.7s	66 20	10	Green and white tower; 26.	
23939 <i>D 2799.5</i>	--First elbow.	28° 07.8' N 15° 24.3' W	<b>Q.(3)W.</b> period 5s	43 13	8	Black post, yellow band; 3.	Visible 150°-000°.
23940 <i>D 2799.6</i>	--Second elbow.	28° 08.0' N 15° 24.5' W	<b>Q.(2)G.</b> period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	26 8	4	Green round tower; 13.	Visible 335°30'-181°30'.
23942 <i>D 2799.66</i>	--Entrance Range, front.	28° 09.3' N 15° 24.6' W	<b>Iso.W.</b> period 4s	49 15	6	Post; 3.	
23942.1 <i>D 2799.67</i>	---Rear, 609 meters 000° from front.	28° 09.7' N 15° 24.6' W	<b>Q.W.</b>	102 31	6	Post; 33.	
23943 <i>D 2800.5</i>	--Astican, SE. corner.	28° 09.0' N 15° 24.6' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	20 6	3	Red round post, green band; 10.	

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<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
23945 <i>D 2803.2</i>	--Muelle Grande, SW. corner.	28° 08.5' N 15° 25.3' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	26 8	2	Round green masonry tower; 20.	
23945.1 <i>D 2803</i>	---SE. corner.	28° 08.5' N 15° 25.2' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	2	Red cylindrical tower; 20.	
23948 <i>D 2800.42</i>	--Muelle Virgen del Pino.	28° 08.6' N 15° 24.7' W	<b>Fl.(4)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	3	Red post; 13.	
23953 <i>D 2803.3</i>	--Pantalan de Fransari, SW. corner.	28° 08.6' N 15° 25.4' W	<b>Q.G.</b>	30 9	3	Round green post; 13.	
23954 <i>D 2803.35</i>	---SE. corner.	28° 08.6' N 15° 25.3' W	<b>Q.R.</b>	30 9	3	Red post; 13.	
23955 <i>D 2803.37</i>	--Muelle Pesquero, SE. end.	28° 08.6' N 15° 25.5' W	<b>Fl.(2+1)G.</b> period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	26 8	2	Green cylindrical tower, red band; 16.	
23956 <i>D 2801.2</i>	--Muelle Leon y Castillo, W. head.	28° 07.7' N 15° 25.1' W	<b>Fl.(3)G.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	66 20	7	White octagonal stone tower, brown bands; 30.	Visible 291°-182°.
23956.5 <i>D 2800.2</i>	---E. end.	28° 07.7' N 15° 24.7' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	26 8	5	Red round tower; 13.	
23956.8 <i>D 2801.3</i>	---RoRo.	28° 08.2' N 15° 25.1' W	<b>Fl.(4)G.</b> period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	20 6	3	Green post; 13.	
23960 <i>D 2799.7</i>	--Contradique, interior, head.	28° 08.4' N 15° 24.7' W	<b>Fl.(2+1)R.</b> period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	29 9	4	Red round tower, green band; 20.	Fl.(2)R. 7s 3M light 430 meters S.
23964 <i>D 2800.1</i>	--Muelle de los Cambulloneros, SE. corner.	28° 07.7' N 15° 24.7' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Red post; 13.	
23968 <i>D 2801</i>	--Puerto Interior.	28° 08.8' N 15° 25.1' W	<b>Dir.W.R.G.</b> period 3s fl. 2s, ec. 1s	72 22	3	White post, building; 62.	Oc.G. 357°-359°, Oc.W.-002°, Oc.R.-004°.
23976 <i>D 2804</i>	--Muelle de Santa Catalina, N. head.	28° 08.5' N 15° 25.4' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	36 11	2	Truncated conical masonry tower; 20.	Fl.(2)R. 7s 1M and Fl.(2+1)G. 14.5s 1M mark Muelle del Arsenal.
23980 <i>D 2806</i>	---SE. head.	28° 08.4' N 15° 25.3' W	<b>Q.(4)R.</b> period 10s	26 8	3	Red post, round red tower; 16.	
23984 <i>D 2807</i>	---SW. head.	28° 08.2' N 15° 25.2' W	<b>Fl.(2+1)R.</b> period 11s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	26 8	3	Red cylindrical tower, green band; 16.	
23987 <i>D 2801.9</i>	--Real Club Nautico, breakwater, N. end.	28° 08.0' N 15° 25.5' W	<b>Q.(4)R.</b> period 10s	26 8	3	Red truncated pyramidal tower; 13.	

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<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
23988 <i>D 2807.37</i>	--Small craft basin, E. breakwater, head.	28° 07.7' N 15° 25.4' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red post; 16.	
23989 <i>D 2807.36</i>	---W. breakwater, head.	28° 07.7' N 15° 25.4' W	<b>Fl.(2+1)R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	33 10	3	Red post, green bands; 20.	
23989.5 <i>D 2807.35</i>	----Elbow.	28° 07.8' N 15° 25.5' W	<b>Fl.(3) W.</b> period 10s	16 5	3	E. CARDINAL BYB, post, topmark; 13.	Visible 160°-320°.
23990 <i>D 2807.5</i>	-Punta Melenara.	27° 59.5' N 15° 22.0' W	<b>Fl.(2)W.R.</b> period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	108 33	12	White round tower; 56.	W. 270°-152°, R.-270°.
23996 <i>D 2809</i>	--Bahia de Melenara anchorage range N-S.	27° 58.5' N 15° 22.5' W	<b>F.W.R.G.</b>	33 10	1	Mast; 23.	G. 330°-358°, W.-002°, R.- 030°. Two Oc.W. lights spaced 50 meters apart, in N./S. direction establish a range with above light. Occasional.
24000 <i>D 2809.4</i>	--Punta de la Hullera anchorage range E-W.	27° 58.4' N 15° 22.8' W	<b>Iso.W.R.G.</b> period 2s	30 9	1	Metal mast; 23.	G. 240°-268°, W.-272°, R.- 300°. Two Oc.W. lights spaced 32 meters apart in E./W. direction establish a range with above light.
24008 <i>D 2812</i>	<b>-Punta Arinaga.</b>	27° 51.8' N 15° 23.1' W	<b>Fl.(3)W.R.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	154 47	W. 12 R. 9	White round tower, red bands; 46.	W. 052°-172°, R.-212°, W.- 012°, R.-052°. 8 Oc.R. 5s lights (quadrangle) are shown from summit of Monte Arinaga, about 1.1 km. 306°.
24012 <i>D 2814</i>	<b>-Maspalomas.</b>	27° 44.1' N 15° 35.9' W	<b>Oc.(2)W.</b> period 10s lt. 1.5s, ec. 1.5s lt. 5.5s, ec. 1.5s	197 60	18	Brown truncated conical tower; 184.	Visible 251°30'-093°.
24014 <i>D 2815</i>	-Pasito Blanco, dike, head.	27° 45.0' N 15° 37.0' W	<b>F.R.</b>	30 9	3	Red metal post.	
24014.2 <i>D 2815.2</i>	--Spur.	27° 44.7' N 15° 37.2' W	<b>Q.(2)R.</b> period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	13 4	3	Red metal post; 10.	
24014.4 <i>D 2815.22</i>	--End of slipway jetty.	27° 44.7' N 15° 37.2' W	<b>Fl.G.</b> period 3s fl. 0.5s, ec. 2.5s	13 4	3	Green metal post; 10.	
24016 <i>D 2815.4</i>	-Puerto Cementero, Dique Rompeolas, head.	27° 45.0' N 15° 40.3' W	<b>Q.(2)R.</b> period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	39 12	6	Red round post, white bands; 16.	
24020 <i>D 2815.45</i>	--Mulle No 2.	27° 44.9' N 15° 40.2' W	<b>Fl.(4)G.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	4	Metal platform; 13.	
24022 <i>D 2815.7</i>	-Puerto Rico, end of W. dike.	27° 46.8' N 15° 42.6' W	<b>Q.(2)R.</b> period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	36 11	4	Red round masonry tower; 13.	
24022.2 <i>D 2815.6</i>	---Breakwater.	27° 46.8' N 15° 42.5' W	<b>F.G.</b>	36 11	4	Green column; 10.	

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<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
24022.4 <i>D 2815.82</i>	--Puerto de Escala, W. dike.	27° 46.9' N 15° 42.7' W	<b>F.R.</b>	36 11	5	Red round masonry tower; 13.	
24022.6 <i>D 2815.8</i>	--End of protection jetty.	27° 46.9' N 15° 42.7' W	<b>Fl.G.</b> period 3s fl. 0.4s, ec. 2.6s	20 6	4	Green round masonry tower; 13.	
24023 <i>D 2815.96</i>	-Puerto de Mogan, S. dique, head.	27° 48.9' N 15° 45.7' W	<b>Fl.(3)R.</b> period 8.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	43 13	3	Red trapezoidal tower, white bands; 20.	
24023.5 <i>D 2815.98</i>	--Muelle No 2, head.	27° 48.9' N 15° 45.7' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	10 3	4	Green trapezoidal tower, white bands; 7.	
24023.7 <i>D 2815.94</i>	<b>-Punta del Castillete.</b>	27° 49.2' N 15° 46.1' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	374 114	17	Square tower.	
ISLA DE FUERTEVENTURA:							
24024 <i>D 2790</i>	<b>-Punta Jandia.</b>	28° 03.9' N 14° 30.4' W	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 3.5s	108 33	22	Gray conical tower, dwelling; 62.	Visible 276°-190°.
24026 <i>D 2791</i>	-Punta Pesebre.	28° 06.6' N 14° 29.4' W	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	10	White and gray tower; 16.	
24027 <i>D 2796.5</i>	<b>-Puerto de Morro Jable.</b>	28° 02.7' N 14° 20.0' W	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 7.7s	203 62	20	White round tower; 194.	
24028	-Muelle extremity.	28° 12.0' N 14° 01.0' W	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	29 9	3	Red metallic tower; 19.	
24032 <i>D 2795</i>	<b>-Punta Lantaila.</b>	28° 13.8' N 13° 56.9' W	<b>Fl.(2+1)W.</b> period 18s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 7.8s fl. 0.4s, ec. 7.8s	643 196	21	Tower, building; 39.	Aeromarine light.
24033 <i>D 2796.1</i>	-Punto Gran Tarajal, W. side.	28° 12.4' N 14° 01.5' W	<b>Fl.(3)R.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	30 9	5	Red tower; 23.	
24033.5 <i>D 2796</i>	--E. side.	28° 12.4' N 14° 01.4' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	30 9	5	White and green tower; 23.	
24034 <i>D 2793.5</i>	<b>-Punta Gaviota.</b>	28° 30.3' N 13° 50.6' W	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	157 48	20	White round tower; 141.	Reserve light 9M.
24036 <i>D 2794</i>	-Puerto del Rosario, pier, head.	28° 29.6' N 13° 51.3' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	46 14	5	Green round column; 33.	
24037 <i>D 2794.2</i>	--Contradique, head.	28° 29.7' N 13° 51.5' W	<b>Fl.(2)R.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Red round masonry tower; 13.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
24040 D 2792	-Toston, on Punta del Toston, NW. side of island.	28° 42.9' N 14° 00.8' W	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	115 35	14	White tower, red bands; 98.	
24042 D 2793	Puerto de Corralejo.	28° 44.4' N 13° 51.6' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	30 9	4	Green round tower; 16.	
24044 D 2786	Isla de Lobos, Punta Martino, Isla de Fuerteventura, NE. side.	28° 45.8' N 13° 48.9' W	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	95 29	14	Yellow conical tower, white octagonal lantern; 21.	Visible 083°-353°.
ISLA DE LANZAROTE:							
24048 D 2782	<b>-Punta Pechiguera.</b>	28° 51.3' N 13° 52.3' W	<b>Fl.(3)W.</b> period 30s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 22.4s	180 55	17	White round tower; 164.	
24049 D 2781.5	-Marina Rubicon, mole, head.	28° 51.4' N 13° 49.1' W	<b>Fl.(4)G.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	13 4	5	Green metal tower.	
24050 D 2781	-Puerto Calero, S. mole, head.	28° 54.9' N 13° 42.3' W	<b>Fl.(3)G.</b> period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	43 13	8	Gray octagonal tower; 13.	Fl.(4)R. 11s 5M marks N. mole head.
24052 D 2780	-Puerto de Arrecife.	28° 57.1' N 13° 33.0' W	<b>Q.(6)+L.Fl.W.</b> period 15s	33 10	3	S. CARDINAL YB, tower, topmark; 20.	
24053.2 D 2778	--Muelle Pesquero, NE. end.	28° 58.0' N 13° 32.1' W	<b>Fl.(2)G.</b> period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	1	Green round tower; 13.	
24053.4 D 2778.2	--Arrecife de la Raya.	28° 58.0' N 13° 32.1' W	<b>Fl.(3)G.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	30 9	1	Green round tower; 13.	
24053.6 D 2778.4	--S. end.	28° 57.8' N 13° 32.3' W	<b>Fl.(4)G.</b> period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	30 9	1	Green round tower; 13.	
24053.8 D 2778.6	--Muelle de Reparaciones, N. corner.	28° 57.7' N 13° 32.2' W	<b>Fl.(3)R.</b> period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	30 9	1	Red round tower; 13.	
24054 D 2773.8	-Punta de Mujeres.	29° 08.5' N 13° 26.7' W	<b>Fl.(2+1)R.</b> period 8.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s fl. 0.5s, ec. 2s	33 10	5	White round tower, blue bands; 20.	
24055 D 2773.6	-Punta Fariones.	29° 14.5' N 13° 28.2' W	<b>Q.W.</b>	49 15	4	White round tower, black top, truncated base; 26.	
24056 D 2775	-Puerto de Los Marmoles, Punta Chica, pier, head.	28° 57.8' N 13° 31.6' W	<b>V.Q.(3)W.</b> period 5s	43 13	5	E. CARDINAL BYB, tower, topmark; 10.	Visible 195°-030°.
24064	--NE. elbow.	28° 57.8' N 13° 31.6' W	<b>Iso.R.</b> period 7s	16 5	4	Red and white banded structure; 10.	

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<b>ISLAS CANARIAS (CANARY ISLANDS) (S.)</b>							
24076 D 2772	Isla de Aleganza, Punta Delgada.	29° 24.2' N 13° 29.4' W	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	56 17	12	Dark gray conical tower, white lantern; 49.	Visible 135°-045°.
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<b>ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)</b>							
ILHA DE SANTO ANTAO:							
24080 D 2950	<b>-Ponta de Tumbo.</b>	17° 06.9' N 24° 58.2' W	<b>Fl.(4)W.</b> period 20s	531 162	17	White octagonal masonry tower, dwelling; 52.	Visible 141°-321°.
24084 D 2956	Porto Navo, N. pier, head.	17° 00.9' N 25° 03.6' W	<b>Iso.G.</b> period 4s	43 13	6	Metal mast; 20.	
24088 D 2952	-Ponta do Sol, N. point of island.	17° 12.2' N 25° 05.4' W	<b>Fl.W.</b> period 4s	49 15	9	Metal mast, lantern; 33.	
24092 D 2954	-Ponta de Mangrade (Ponta Oeste).	17° 03.3' N 25° 21.5' W	<b>Fl.(2)W.</b> period 10s	367 112	13	White column, red lantern; 10.	Visible 005°-200°.
ILHA DE SAO VICENTE:							
24096 D 2946	<b>-Ponta Machado.</b>	16° 49.6' N 25° 05.2' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	184 56	17	White square masonry tower, dwelling; 46.	Visible 302°-172°.
24100 D 2942	-Ilheu do Passaros (D. Luiz), Porto Grande, entrance.	16° 54.7' N 25° 00.7' W	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	282 86	14	White truncated hexagonal pyramid, red lantern; 16.	Obscured 258°-057° and 091°-196°. Signal station.
24104 D 2943	-Cabnave.	16° 54.0' N 24° 59.9' W	<b>Fl.R.</b> period 2s	26 8	5	Metal mast, square balcony; 13.	
24108 D 2944	--Molhe 2, head.	16° 53.3' N 25° 00.0' W	<b>Fl.R.</b> period 3s	33 10	6	White column, gallery; 26.	
-Porto Grande:							
24116 D 2943.4	--Gale Range, front.	16° 52.5' N 25° 00.3' W	<b>F.G.</b>	42 13	5		Occasional.
24120 D 2943.41	--Rear, 980 meters 147° from front.	16° 52.0' N 25° 00.0' W	<b>F.G.</b>	62 19	5		Occasional.
24122 D 2944.35	--Fishing port, detached breakwater, NE. end.	16° 52.7' N 24° 59.8' W	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	4	White concrete tower; 7.	
24122.5 D 2944.38	---SW. end.	16° 52.7' N 24° 59.8' W	<b>Fl.R.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	4	White concrete tower; 7.	
24123 D 2944.3	--Cais de Cabotagem mole, head.	16° 53.2' N 24° 59.6' W	<b>Iso.Y.</b> period 4s	20 6	5		
ILHA DE SANTA LUZIA							
24130 D 2939.5	-Ponta dos Tarrafes.	16° 44.4' N 24° 41.4' W	<b>Fl.(2+1)W.</b> period 15s	26 8		Metal tower; 16.	
ILHA DE SAO NICOLAU:							
24132 D 2934	<b>-Ponta do Barril.</b>	16° 36.2' N 24° 25.7' W	<b>Fl.(3)W.</b> period 12s	43 13	15	White quadrangular tower, dwelling; 30.	

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<b>ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)</b>							
24134 <i>D 2933.2</i>	-Ponta Espechim.	16° 40.5' N 24° 20.0' W	<b>Fl.(3)W.</b> period 5s	141 43	8	Metal tower; 16.	
24135 <i>D 2933.1</i>	-Ponta Vermelharía.	16° 29.2' N 24° 18.4' W	<b>Fl.(5)W.</b> period 20s	59 18	8	Metal tower; 16.	
24136 <i>D 2936</i>	-Preguica (Porto Velho).	16° 33.7' N 24° 17.1' W	<b>Fl.(2+1)R.</b> period 15s	82 25	5	White hut; 23.	Visible 285°-016°.
24144 <i>D 2930</i>	-Ponta Leste.	16° 34.0' N 24° 00.7' W	<b>Fl.(4)W.</b> period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 5.2s	239 73	11	White column, red lantern; 10.	Visible 140°-030°.
ILHA DO SAL:							
24147 <i>D 2919.75</i>	-Ponta Norte.	16° 50.1' N 22° 55.0' W	<b>Fl.(3)W.</b> period 12s	52 16	8	Metal tower; 16.	
24148 <i>D 2921</i>	-Baía da Palmeira Range, front.	16° 45.0' N 22° 59.0' W	<b>Fl.W.</b> period 3.5s fl. 1s, ec. 2.5s	30 9	5	Red post; 23.	Marks oil pipeline.
24152 <i>D 2921.1</i>	--Rear, 95 meters 044° from front.	16° 45.0' N 22° 59.0' W	<b>Fl.W.</b> period 3.5s fl. 1s, ec. 2.5s	49 15	3	Red post; 36.	
24156 <i>D 2920</i>	-Casa Valente Range, front.	16° 45.0' N 22° 59.0' W	<b>F.R.</b>	27 8	5		Shown on request of tankers anchoring at night.
24160 <i>D 2920.1</i>	--Rear, 435 meters 064° from front.	16° 45.2' N 22° 58.5' W	<b>F.R.</b>	43 13	5		
24164 <i>D 2922</i>	-Ponta do Sino, 300 meters within extremity.	16° 35.0' N 22° 55.0' W	<b>Fl.(2+1)W.</b> period 15s	35 11	8	Gray square tower; 30.	Visible 300°-142°.
24168 <i>D 2922.5</i>	-Ponta da Vera Cruz, Porto de Santa Maria.	16° 36.0' N 22° 54.0' W	<b>F.R.</b>	17 5	3	White framework tower; 13.	Visible 300°-049°.
24172 <i>D 2925</i>	<b>-Monte Curral AVIATION LIGHT, N. of Runway.</b>	16° 44.0' N 22° 57.0' W	<b>Al.FI.W.G.</b> period 7.5s	272 83	26		Range lights are shown in Porto Pedro de Luna. Occasional. <b>Aero Radiobeacon</b> about 2 miles S.
24176 <i>D 2923</i>	-Porto da Pedra de Lume Range, front.	16° 46.0' N 22° 54.0' W	<b>F.R.</b>	29 9	1	Black chimney, white bands; 23.	Occasional. Private light.
24180 <i>D 2923.1</i>	--Rear, 115 meters 349° from front.	16° 45.8' N 22° 53.9' W	<b>F.R.</b>	42 13	1	White chapel, black bands on E. side; 26.	Occasional. Private light.
24184 <i>D 2923.2</i>	-Range, front.	16° 45.5' N 22° 54.1' W	<b>F.G.</b>	46 14	2	Truncated pyramid; 10.	Occasional. Private light.
24188 <i>D 2923.3</i>	--Rear, 215 meters 306° from front.	16° 45.6' N 22° 54.2' W	<b>2 F.W. (vert)</b>	69 21	2	Framework tower, house; 23.	Occasional. Private light.
ILHA DA BOA VISTA:							
24192 <i>D 2918</i>	-Velho, on Ponta da Escuma.	16° 10.3' N 22° 56.0' W	<b>Fl.(5)W.R.</b> period 20s	92 28	11	Metal mast, lantern; 26.	W. 220°-355°, R.-220°.
24193 <i>D 2919</i>	--Ponte Cais.	16° 10.4' N 22° 57.2' W	<b>Fl.(3)R.</b> period 12s	26 8	5	Red tower; 20.	
24196 <i>D 2914</i>	<b>-Morro Negro.</b>	16° 06.1' N 22° 40.9' W	<b>Fl.W.</b> period 20s	535 163	31	Small white quadrangular concrete tower, dwelling; 39.	Visible 163°-035°.
24197 <i>D 2916</i>	-Ponte Varandinha.	16° 02.6' N 22° 58.2' W	<b>Fl.(2)W.</b> period 6s	72 22	10	Structure, lantern; 23.	Visible 310°-194°. <b>Radar reflector.</b>
	-RACON		<b>V(•••-)</b> period 30s		24		

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<b>ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)</b>							
24198 <i>D 2919.5</i>	Ponta do Sol.	16° 13.7' N 22° 55.1' W	<b>Fl.(4)W.</b> period 15s	384 117	12	Metal tower; 23.	Visible 017°-272°.
ILHA DE MAIO:							
24200 <i>D 2872</i>	-Forte de S. Jose, Porto do Maio.	15° 08.0' N 23° 13.0' W	<b>Fl.(3)R.</b> period 12s	72 22	9	Tower, wooden platform.	Visible 349°-090°.
24201 <i>D 2875.5</i>	-Ponta dos Flamengos.	15° 10.7' N 23° 05.3' W	<b>Fl.(3)W.</b> period 12s	39 12	10	Metal tower; 16.	Visible 038°-292°.
24202 <i>D 2874</i>	-Ponta Cais.	15° 20.0' N 23° 11.0' W	<b>Fl.W.</b> period 7s fl. 0.3s, ec. 6.7s	46 14	10	Metal tower, lantern; 23.	Visible 038°-292°. <b>Radar reflector.</b>
-RACON <span style="margin-left: 150px;"><b>M(- -)</b></span>							
24203 <i>D 2875</i>	-Calheta.	15° 13.5' N 23° 13.1' W	<b>Fl.W.R.G.</b> period 4s	23 7	8	Metal tower; 16.	
ILHA DE SAO TIAGO:							
24204 <i>D 2876</i>	<b>-Maria Pia Ponta Temerosa,</b> SE. side.	14° 54.0' N 23° 30.5' W	<b>Fl.(2)W.</b> period 6s	82 25	5	White octagonal masonry tower; 69.	Visible 258°-095°.
24209 <i>D 2881.5</i>	-Cais de Pesca, pier, head.	14° 54.8' N 23° 30.1' W	<b>Iso.Y.</b> period 4s		4	Yellow metal tower, lantern.	
24210 <i>D 2882</i>	Ponta do Lobo, island, near E. extremity.	14° 59.0' N 23° 26.0' W	<b>Fl.(4)W.</b> period 15s	56 17	10	Trapezoidal tower, dwelling; 30.	Visible 190°-335°.
24211 <i>D 2883.5</i>	-Praia Baixo.	15° 03.8' N 23° 28.3' W	<b>Fl.(3)G.</b> period 12s	33 10	6	Metal tower; 16.	
24212 <i>D 2883.7</i>	-Pedra Badejo.	15° 08.4' N 23° 31.7' W	<b>Fl.G.</b> period 4s	26 8	6	Metal tower; 16.	
24213 <i>D 2883.8</i>	-Calheta de Sao Miguel.	15° 11.5' N 23° 35.5' W	<b>Fl.(4)R.</b> period 15s	33 10	5	Metal tower; 16.	
24214 <i>D 2888</i>	-Ponta Moreira, N. end of island.	15° 20.1' N 23° 45.2' W	<b>Fl.(5)W.</b> period 20s	318 97	10	White iron quadrangular hut, red lantern; 13.	Visible 055°-275°.
24215 <i>D 2890</i>	-Ponta Preta, Baia do Tarrafal, entrance, NW. side.	15° 17.0' N 23° 47.0' W	<b>Fl.(3)W.</b> period 12s	112 34	8	White hut, support, masonry base; 20.	F.R. 2M shown from Tarrafal Pier head.
24216 <i>D 2885</i>	-Chao Bom.	15° 15.5' N 23° 44.9' W	<b>Fl.(2+1)W.R.G.</b> period 15s	23 7	5	Metal tower; 16.	
24217 <i>D 2884</i>	-Ribeira de Barca.	15° 07.0' N 23° 46.0' W	<b>Fl.(3)W.R.G.</b> period 12s	19 6	5	Red iron structure; 10.	Visible 080°-121°.
24218 <i>D 2883.6</i>	-Porto Rincao.	15° 03.1' N 23° 45.7' W	<b>Fl.(5)W.R.</b> period 20s	30 9	W. 8 R. 5	Metal tower; 16.	
24222	Mosquito.	14° 56.9' N 23° 41.8' W	<b>Fl.(2)W.R.G.</b> period 6s	43 13	8	Gray tower; 23.	
ILHA BRAVA:							
24236 <i>D 2908</i>	-Ponta Jalunga, Porto da Furna, entrance.	14° 53.0' N 24° 41.0' W	<b>Fl.(2+1)W.</b> period 15s	77 23	5	White masonry column, gray lantern; 26.	Visible 187°-007°. F.R. shown at Furna.
24240 <i>D 2910</i>	-Ponta Nho Martinho.	14° 48.0' N 24° 43.0' W	<b>Fl.(4)W.</b> period 15s	95 29	9	White square tower, red lantern; 13.	Visible 237°-106°30'.
ILHA DO FOGO:							
24244 <i>D 2901</i>	-Mosteiros.	15° 02.0' N 24° 20.0' W	<b>Fl.(3)W.R.</b> period 12s	36 11	5	Column, quadrangular white truncated pyramid; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)</b>							
24252 <i>D 2900</i>	-Fortim Carlota, Puerto de Sao Felipe.	14° 54.0' N 24° 31.0' W	<b>Fl.(5)R.</b> period 20s	119 <b>36</b>	8	Red iron post, fort; 13.	
24256 <i>D 2898</i>	-Ponta do Alcatraz.	14° 50.0' N 24° 19.0' W	<b>Fl.W.</b> period 4s fl. 0.5s, ec. 4.5s	443 <b>135</b>	10	Column, red lantern; 10.	Visible 225°-045°.
24260 <i>D 2904</i>	Ilheu de Cima.	14° 57.0' N 24° 38.0' W	<b>Fl.(3)W.</b> period 12s	262 <b>80</b>	9	White quadrangular hut, white lantern; 13.	Visible 304°-010° and 047°-252°.

# Section 17

## West Coast of Africa and Islands of The Eastern North Atlantic

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>WESTERN SAHARA</b>							
24264 D 2621	El Aaiun AVIATION LIGHT.	27° 10.0' N 13° 13.0' W	<b>Al.FI.W.G.</b> period 12s				
EL AAIUN ANCHORAGE:							
24268 D 2622	-Jetty, head.	27° 05.7' N 13° 26.2' W	<b>Fl.W.</b>				
24276 D 2623	-Ore loader, on silo.	27° 04.0' N 13° 28.0' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	151 46	18	Silo.	<b>Nautophone.</b>
24280 D 2623.2	--At T-head.	27° 04.0' N 13° 28.0' W	<b>F.W.</b>			Secondary structure: Green and white banded pole. Tertiary structure: Red and white banded pole.	F.Or. lights mark length of pier.
			<b>F.G.</b>	59 18	3		N. end of pier.
			<b>F.R.</b>	59 18	3		S. end of pier.
24288 D 2626	El Cabino.	26° 26.0' N 14° 11.0' W	<b>Fl.(3)W.</b> period 12s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	118 36	9	Black and white tower; 105.	
24292 D 2628	<b>Cabo Bojador.</b>	26° 07.0' N 14° 29.0' W	<b>Fl.(3)W.</b> period 15s	233 71	24	Tower, black stripe; 148.	Aeromarine light.
24296 D 2628.2	-W. extremity.	26° 07.0' N 14° 30.0' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	30 9	5	Triangular stone pyramid; 20.	
24300 D 2630	Punta del Corral.	25° 35.0' N 14° 41.0' W	<b>Fl.(2)W.</b> period 9s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	233 71	9	Black and white tower; 36.	
24304 D 2631	Pena Grande.	25° 06.0' N 14° 50.0' W	<b>Fl.(4)W.</b> period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	568 173	9	Black and white tower; 36.	
RIO DE ORO PENINSULA:							
24308 D 2972	<b>-Arcipres Grande.</b>	23° 43.0' N 15° 57.0' W	<b>Fl.W.</b> period 5s fl. 0.4s, ec. 4.6s	249 76	20	Black round tower, white bands; 164.	
24312 D 2974.2	-Villa Cisneros, Muelle Transversal No 3, head.	23° 41.8' N 15° 55.2' W	<b>Fl.(2)W.</b> period 10s	26 8	8	Gray truncated conical tower; 16.	
24314 D 2973.5	-New Port, breakwater, head.	23° 39.6' N 15° 56.7' W	<b>Q.(3)W.</b> period 10s	36 11	8	E. CARDINAL BYB, beacon, topmark.	
24316 D 2973	-Punta Galera, Punta Durnford, SE. point.	23° 38.0' N 16° 00.0' W	<b>Fl.(2)W.</b> period 6s	26 8	8	White square castellated tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>WESTERN SAHARA</b>							
BAHIA DE ANGRA DE CINTRA:							
24320 <i>D 2975</i>	-(Puntilla Raimés), entrance, N. point.	23° 05.0' N 16° 12.0' W	<b>Fl.(4)W.</b> period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 5.8s	46 14	8	Hexagonal masonry tower; 33.	
24324 <i>D 2975.2</i>	-Entrance Range, front.	23° 02.3' N 16° 06.5' W	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	39 12	8	Square masonry tower; 20.	
24328 <i>D 2975.3</i>	--Rear, 686 meters 090° from front.	23° 02.2' N 16° 05.9' W	<b>Iso.W.</b> period 4s	171 52	9	Square masonry tower; 20.	Visible on range line.
24332 <i>D 2975.6</i>	Cap Bardas.	22° 18.0' N 16° 41.0' W	<b>Fl.(3)W.</b> period 12s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	184 56	9	Black round tower, white bands; 131.	
24336 <i>D 2976</i>	Punta Guera, Peninsula de Cabo Blanco, S. extremity.	20° 50.0' N 17° 06.0' W	<b>Fl.R.</b> period 5s fl. 0.3s, ec. 4.7s	46 14	8	White quadrangular tower; 19.	Visible 267°-177°.
<b>MAURITANIA</b>							
24340 <i>D 2977</i>	<b>Cap Blanc.</b>	20° 46.0' N 17° 03.0' W	<b>Fl.W.</b> period 4s fl. 0.2s, ec. 3.8s	141 43	18	White octagonal tower, black bands; 66.	
BAIE DU LEVRIER:							
24344 <i>D 2977.5</i>	-Entrance Whistle O.	20° 39.2' N 17° 04.5' W	<b>L.Fl.W.</b> period 7s fl. 3s, ec. 4s			SAFE WATER RW, pillar, topmark.	<b>Whistle.</b> <b>Radar reflector.</b>
-RACON <span style="margin-left: 150px;"><b>B(- • • •)</b></span>							
24348 <i>D 2978</i>	-Point Central, wharf.	20° 49.0' N 17° 02.0' W	<b>F.R.</b>				
24352 <i>D 2978.4</i>	--Wharf, N. extremity.	20° 50.0' N 17° 02.0' W	<b>F.R.</b>				F.Vi. on dolphins N. and S. of wharf.
24356 <i>D 2978.5</i>	--Wharf, S. extremity.	20° 50.0' N 17° 02.0' W	<b>F.R.</b>				
24360 <i>D 2979</i>	-Pointe de Cansado.	20° 51.0' N 17° 02.0' W	<b>Q.W.R.</b>	66 20	W. 11 R. 8	Red building.	R. 300°-358°, W.-300°.
24364 <i>D 2980</i>	-Nouadhibou, close to Pointe Chacal.	20° 54.0' N 17° 04.0' W	<b>Iso.W.R.G.</b> period 4s	66 20	W. 11 R. 8 G. 8	White octagonal tower, black stripes; 39.	G. 212°-286°, W.-292°, R.-360°.
24368 <i>D 2982</i>	--AVIATION LIGHT.	20° 55.0' N 17° 03.0' W	<b>Fl.(2)W.</b> period 15s fl. 0.3s, ec. 2s fl. 0.3s, ec. 12.4s	20 6		White blockhouse.	
24373 <i>D 2986</i>	Approach light.	17° 59.6' N 16° 01.0' W	<b>Fl.W.</b> period 4s	121 37	16	White tower, black bands, red top.	
24373.1 <i>D 2986.3</i>	-Port de l'Amitie Range, front.	17° 59.2' N 16° 01.5' W	<b>Iso.G.</b> period 1s	49 15	5	Green and gray diamond, mast.	
24373.2 <i>D 2986.31</i>	--Rear, 320 meters 085° from front.	17° 59.3' N 16° 01.3' W	<b>Iso.G.</b> period 1s	72 22	5	Green and gray diamond, mast.	
24373.3 <i>D 2986.4</i>	-Port de l'Amitie, quay.	17° 59.2' N 16° 01.9' W	<b>Fl.R.</b> period 3s			White tower, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>MAURITANIA</b>							
24374 <i>D 2986.5</i>	-S. mole, head.	17° 59.2' N 16° 02.3' W	<b>Oc.R.</b> period 3s	49 15	5	White pylon; 33.	
24374.1	-Jetty, head.	17° 59.5' N 16° 02.4' W	<b>Fl.R.</b> period 3s				
<b>SENEGAL</b>							
24380 <i>D 2996</i>	Saint-Louis, Guet N'Dar.	16° 01.5' N 16° 30.7' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	49 15	12	White pylon, red top; 46.	<b>Horn:</b> 2 bl. ev. 20s. <b>Aero Radiobeacon</b> 3.5 miles ENE.
24384 <i>D 2998</i>	St. Louis Grandiole, near pilot station.	15° 54.0' N 16° 31.0' W	<b>Oc.(3)W.</b> period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	85 26	10	White tower, black bands.	The Senegal River is marked by several R. and G. lights.
PRESQU'ILE DU CAP VERT:							
24388 <i>D 3002</i>	-Chausse des Almadies, E. of Pte. da Almadies, reef.	14° 44.6' N 17° 32.6' W	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	9	Black tower, white bands; 56.	
24392 <i>D 3004</i>	<b>-Cap Vert.</b>	14° 43.4' N 17° 30.2' W	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	394 120	31	White tower, house; 52.	May be confused with Cap Manuel Light in hazy weather. Signal station. <b>Aero Radiobeacon</b> 1.5 miles ESE.
24396 <i>D 3008</i>	<b>-Cap Manuel.</b>	14° 39.0' N 17° 26.0' W	<b>Fl.R.</b> period 5s fl. 0.3s, ec. 4.7s	164 50	19	White square tower, dwelling, red pillars; 55.	Partially obscured by Iles de la Madeleine and de la Goree, respectively, 096°-102° and 242°-246°30'.
24400 <i>D 3008.2</i>	--Close SE.	14° 39.0' N 17° 26.0' W	<b>F.W.R.</b>	157 48	W. 11 R. 8	Square white tower; 39.	R. 204°-254°, W.-083°, R.-128°. Partially obscured in same sectors as Cap Manuel Light.
DAKAR:							
24404 <i>D 3010</i>	-Ile de Goree, S. end.	14° 39.8' N 17° 23.9' W	<b>Oc.(2)W.R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 12 R. 8	White square tower, red top; 13.	W. 207°-062°, R.-087°.
24408 <i>D 3012</i>	-Jetee Nord, head.	14° 40.7' N 17° 25.2' W	<b>Iso.G.</b> period 4s	30 9	12	White octagonal tower, green top; 23.	<b>AIS.</b>
24412 <i>D 3013</i>	-Jetee Sud, head.	14° 40.6' N 17° 25.2' W	<b>Oc.(4)R.</b> period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	36 11	12	White octagonal tower, red top; 23.	<b>AIS.</b>
24420	-Minaret, Grand Mosque.	14° 40.7' N 17° 26.5' W	<b>Fl.W.</b>	289 88	10		
24440 <i>D 3018</i>	Rufisque, Baie de Goree, N. side.	14° 42.6' N 17° 17.0' W	<b>Iso.G.</b> period 2s	39 12	11	Black metal framework tower; 39.	F.R. lights on radio masts 2.7 miles N.
24444 <i>D 3019</i>	Joal.	14° 09.0' N 16° 50.0' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	46 14	11	Red and white banded pylon; 43.	
24448	Riviere Saloum, Entrance Whistle Buoy.	13° 50.0' N 16° 50.0' W	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s			Red buoy, white stripes.	<b>Radar reflector.</b>

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>THE GAMBIA</b>							
24452 <i>D 3021</i>	<b>Cape St. Mary.</b>	13° 28.0' N 16° 42.0' W	<b>Fl.(2)W.</b> period 10s	140 43	15	Water tower.	
	RACON		<b>B(- • • •)</b>				
24464 <i>D 3027</i>	Barra Point, NW. corner of fort.	13° 29.0' N 16° 34.0' W	<b>Fl.(3)R.</b> period 15s	59 18	10	Metal framework tower.	Visible 315°-215°. 3 F.R. on radio tower 4.6 km. SSW., 2 F.R. on radio masts 4.58 km. SW.
	RACON		<b>Q(- - • -)</b>				
24465 <i>D 3027.5</i>	Banjul Point.	13° 27.3' N 16° 34.4' W	<b>Iso.W.</b> period 8s	89 27	10	Metal framework tower.	Visible 125°-003°.
	RACON		<b>B(- • • •)</b>				
24468 <i>D 3030</i>	-Fort James Island.	13° 19.0' N 16° 22.0' W	<b>Fl.W.</b> period 14.5s	26 8		White steel framework structure; 21.	
<b>SENEGAL</b>							
RIO CACHEU:							
24484 <i>D 3042</i>	-Cabo Mata.	12° 09.9' N 16° 19.4' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	33 10	9	White tower, pyramid; 43.	
24492 <i>D 3044</i>	-Cacheu (Baluarte de San Fernando).	12° 16.7' N 16° 10.0' W	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	30 9	9	White tower, pyramid; 30.	
RIO GEBÁ:							
24500 <i>D 3050</i>	<b>-Caio.</b>	11° 50.2' N 16° 19.3' W	<b>Fl.(2)W.</b> period 10s fl. 0.7s, ec. 0.3s fl. 0.7s, ec. 8.3s	135 41	16	White tower, black bands.	Reserve light 10M.
	-RACON.		<b>B(- • • •)</b> period 60s				
24504 <i>D 3052</i>	-Ilha de Jeta, SE. extremity.	11° 50.3' N 16° 13.9' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	30 9	9	White tower.	
24506 <i>D 3053</i>	-Baixos de Rio Grande.	11° 38.2' N 16° 35.0' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	33 10	12	White metal column.	
24508 <i>D 3054</i>	-Ponta Arlete, N. side of channel.	11° 45.5' N 16° 05.5' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	43 13	9	White tower; 30.	
24512 <i>D 3056</i>	-Ponta Biombo, N. side of channel.	11° 44.1' N 15° 57.0' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	43 13	9	White round tower; 33.	
24520 <i>D 3057</i>	-Ponta Bernafel.	11° 47.5' N 15° 39.0' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	26 8	9	White tower; 26.	
24524 <i>D 3058</i>	-Ilheu dos Passaros, near Canal do Geba.	11° 49.2' N 15° 35.5' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	56 17	9	White tower; 43.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SENEGAL</b>							
24532 <i>D 3062</i>	-Ilheu do Rei.	11° 51.3' N 15° 34.0' W	<b>Fl.(2)G.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	43 13	6	Round metal tower, white pyramid; 20.	
24540 <i>D 3060</i>	--Entrance Range, front.	11° 51.4' N 15° 34.9' W	<b>L.Fl.G.</b> period 7s fl. 2s, ec. 5s	43 13	4	White tower.	
24544 <i>D 3060.1</i>	--Rear, about 320 meters 346° from front.	11° 51.6' N 15° 35.0' W	<b>L.Fl.G.</b> period 7s fl. 2s, ec. 5s	118 36	4	N. tower of cathedral.	
24545 <i>D 3059</i>	-Dicol Oil Jetty.	11° 50.2' N 15° 35.4' W	<b>2 Iso.R.</b> period 4s				1 on each corner.
24552 <i>D 3064</i>	-Pedro Alvarez, Canal de Pedro Alvarez, W. side.	11° 37.9' N 15° 41.6' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	30 9	9	White square tower.	<b>Radar reflector.</b>
ARQUIPELAGO DOS BIJAGOS:							
24556 <i>D 3065</i>	-Ilha Galinhas, on NE. extremity.	11° 30.3' N 15° 39.4' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	23 7	9	White square tower; 26.	
-Porto do Bolama:							
24564 <i>D 3070</i>	--Porto Preco Leve.	11° 33.1' N 15° 27.7' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	20 6	9	White round tower, square base.	
24565 <i>D 3071</i>	--Bolama, N. pier.	11° 34.5' N 15° 28.5' W	<b>Fl.W.</b> period 3s	19 6			
24568 <i>D 3072</i>	--Ponta Colonia.	11° 32.3' N 15° 25.6' W	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	56 17	9	White square tower; 39.	<b>Radar reflector.</b>
24576 <i>D 3074</i>	-Ilha das Cobras, N. point.	11° 38.5' N 15° 28.5' W	<b>Fl.W.</b> period 5s fl. 1s, ec. 4s	33 10	9	White tower; 33.	
24580 <i>D 3078</i>	-Bubaque.	11° 18.1' N 15° 50.1' W	<b>Fl.R.</b> period 5s fl. 1s, ec. 4s	26 8	7	Black column.	
24588 <i>D 3081</i>	-Ilha Roxa, Ponta Barel.	11° 13.9' N 15° 39.7' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	79 24	9	White square masonry tower, red cross on E. side; 46.	
24596 <i>D 3080</i>	-Ilheu do Poilao.	10° 51.9' N 15° 43.1' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	82 25	9	Metal framework tower, white triangular daymark point up.	
<b>GUINEA</b>							
RIO NUNEZ:							
24600 <i>D 3084</i>	-Victoria.	10° 49.0' N 14° 34.0' W	<b>Fl.W.</b> period 6s fl. 1.5s, ec. 4.5s	46 14	6	White pillar, platform.	
24604 <i>D 3086</i>	-Port Kamsar Range, front.	10° 39.0' N 14° 37.0' W	<b>F.R.</b>				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GUINEA</b>							
24608 <i>D 3086.1</i>	--Rear, 097° from front.	10° 39.1' N 14° 37.0' W	<b>F.R.</b>				
24612 <i>D 3087</i>	<b>Cap Gonzalez.</b>	10° 24.3' N 14° 41.5' W	<b>Fl.(3)W.</b> period 15s	33 10	15	Sheltered pillar.	
	RACON		<b>G(- - •)</b>		15		
24616 <i>D 3088</i>	<b>Cap Verga.</b>	10° 15.0' N 14° 26.0' W	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	394 120	20	Metal mast; 33.	Reserve light range 18M. <b>Radiobeacon.</b>
24618	<i>Rio Nunez Approach Buoy 3.</i>	10° 09.5' N 15° 12.0' W	<b>Fl.(4)W.</b> period 15s			Red buoy.	
	RACON		<b>K(- • -)</b>		10		
24620 <i>D 3090</i>	<b>Ile Tamara.</b>	9° 27.5' N 13° 50.0' W	<b>Fl.W.</b> period 5s	311 95	26	White round tower; 20.	Visible 220°-235° and 283°-161°.
	CONAKRY:						
24636 <i>D 3093</i>	-Boulbinet, on reef, SW. side of city.	9° 30.1' N 13° 43.2' W	<b>Oc.(2)W.R.</b> period 12s	43 13	W. 13 R. 10	White tower, red lantern; 39.	W. 108°-112°, R.-315°, W.-015°, R.-108°.
24638 <i>D 3094.5</i>	-Berth No 12, SW. corner.	9° 30.5' N 13° 43.4' W	<b>Fl.G.</b> period 3s		7	Green tower; 20.	
24640 <i>D 3094</i>	-Dique de la Prudente.	9° 30.5' N 13° 43.7' W	<b>V.Q.(6)+L.Fl.W.</b> period 10s	43 13	7	S. CARDINAL YB, tower, topmark.	
24648 <i>D 3096</i>	Ile Matakong, Riviere Florikaria entrance, N. side.	9° 16.0' N 13° 26.0' W	<b>Iso.W.</b> period 4s	69 21	6	White tower; 39.	
<b>SIERRA LEONE</b>							
	FREETOWN:						
24664 <i>D 3098.5</i>	-Ferry Terminal.	8° 29.0' N 13° 14.0' W	<b>F.G.</b>		2		
24672 <i>D 3100.2</i>	-Queen Elizabeth II quay, E. end.	8° 29.6' N 13° 12.6' W	<b>Fl.(3)G.</b>	92 28	2	Building.	Iso.R. 3s 2M marks W. end of quay.
24676 <i>D 3101</i>	-Cline Point Range, front.	8° 30.0' N 13° 12.0' W	<b>F.R.</b>	23 7	1	Metal tripod; 16.	
24680 <i>D 3101.1</i>	--Rear, about 42 meters 127° from front.	8° 29.5' N 13° 12.2' W	<b>F.W.</b>	49 15	1	Metal framework tower, building; 39.	
24684 <i>D 3101.4</i>	-Fura, ferry terminal.	8° 29.0' N 13° 12.0' W	<b>Fl.(2)G.</b> period 7s fl. 1s, ec. 2s fl. 1s, ec. 3s	14 4	2	Red metal post, white bands; 8.	
24688 <i>D 3101.6</i>	-Tagrin Point, ferry terminal.	8° 31.0' N 13° 09.0' W	<b>Fl.(2)G.</b> period 7s fl. 1s, ec. 2s fl. 1s, ec. 3s	14 4	2	Red metal posts, white bands; 8.	
	BANANA ISLANDS:						
24692 <i>D 3102</i>	-Meheux Island, SW. extremity.	8° 05.0' N 13° 15.0' W	<b>L.Fl.W.</b> period 20s fl. 2.4s, ec. 17.6s	100 30	8	White tower; 12.	Visible 298°-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LIBERIA</b>							
MONROVIA:							
24696 D 3105	-Cape Mesurado.	6° 19.0' N 10° 49.0' W	<b>Fl.W.</b> period 6s	279 85	21	White conical masonry tower; 20.	
24700 D 3107	-S. breakwater.	6° 20.8' N 10° 48.9' W	<b>L.Fl.G.</b> period 10s fl. 3s, ec. 7s	36 11	4	White framework tower.	
24704 D 3106	-N. breakwater.	6° 21.0' N 10° 48.7' W	<b>Fl.R.</b> period 4s	33 10	7	White pylon.	
24708 D 3108	-Entrance Range, front.	6° 20.4' N 10° 47.8' W	<b>F.R.</b>	55 17	11	Metal framework tower.	
24712 D 3108.1	--Rear, 340 meters 120°45' from front.	6° 20.3' N 10° 47.7' W	<b>F.R.</b>	70 21	11	Red and white checkered water tank.	
24716 D 3110.5	King Gray.	6° 15.1' N 10° 41.7' W	<b>F.R.</b>		12		
24720 D 3111	Junk River.	6° 08.5' N 10° 23.1' W	<b>Oc.W.</b> period 5s		15		
24724 D 3112	-Grand Bassa Pt.	5° 52.1' N 10° 03.7' W	<b>Iso.W.R.</b> period 4s	95 29	15	Yellow and orange metal framework tower; 79.	Aeromarine light. R. 297°- 342°, W.-104°, R.-149°.
BUCHANAN:							
24728 D 3112.9	-Range, front.	5° 51.3' N 10° 02.8' W	<b>3 F.Y.</b> (vert.)			Mast, trapezoidal daymark.	<i>Temporarily extinguished (2009). Defines north limit of fairway. Occasional.</i>
24730 D 3113	--Common rear.	5° 51.3' N 10° 02.6' W	<b>3 F.Y.</b> (vert.)			Mast.	<i>Temporarily extinguished (2009). On request. Occasional.</i>
24732 D 3113.1	-Range, front, 103° to common rear.	5° 51.4' N 10° 02.9' W	<b>3 F.Y.</b> (vert.)			Framework tower, dolphin.	<i>Temporarily extinguished (2009). On request. Occasional.</i>
24734 D 3113.3	-Range, front.	5° 51.3' N 10° 02.7' W	<b>3 F.Y.</b> (vert.)			Mast, trapezoidal daymark.	<i>Temporarily extinguished (2009). Defines south limit of fairway. Occasional.</i>
24736 D 3113.31	--Rear.	5° 51.3' N 10° 02.6' W	<b>3 F.Y.</b> (vert.)			Mast.	<i>Temporarily extinguished (2009). Occasional.</i>
24740 D 3112.4	-Main breakwater, head.	5° 51.4' N 10° 03.6' W	<b>Fl.G.</b> period 3s fl. 0.3s, ec. 2.7s	31 9	3	White square concrete tower. Floodlit.	<i>Temporarily extinguished (2009). Occasional.</i>
24744 D 3112.6	-N. breakwater, head.	5° 52.0' N 10° 04.0' W	<b>Fl.R.</b> period 3s fl. 0.3s, ec. 2.7s	26 8	3	White square concrete tower. Floodlit.	<i>Temporarily extinguished (2009).</i>
24748 D 3113.8	Bafu Bay.	5° 11.0' N 9° 17.0' W	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s		12		Obscured on bearings less than 030°.
SINO BAY:							
24752 D 3114	-South Point.	4° 59.0' N 9° 02.0' W	<b>Fl.(4)W.</b> period 20s	106 32	23	White square tower; 26.	<i>Reported unreliable.</i>
24756 D 3115.5	--Breakwater, head.	4° 59.4' N 9° 02.7' W	<b>Fl.G.</b> period 3s	16 5		White building.	
24758 D 3115	-N. Point.	4° 59.6' N 9° 02.6' W	<b>Fl.(2)W.R.</b> period 11s	36 11		Tower; 36.	R. 310°-040°, W.-080°, R.- 130°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>LIBERIA</b>							
24760 D 3116	<b>Cape Palmas.</b>	4° 22.0' N 7° 44.0' W	<b>Fl.(2)W.</b> period 16s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	104 32	24	White conical tower; 72.	
<b>IVORY COAST</b>							
24764 D 3118	<b>Pointe Tafou.</b>	4° 25.0' N 7° 22.0' W	<b>Fl.(3)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	82 25	20	White tower, black band, black top; 46.	Visible 110°-200°.
24768 D 3120	<b>San Pedro.</b>	4° 45.0' N 6° 36.0' W	<b>Fl.W.</b> period 4s	348 106	13	Red metal tower, white bands.	F.R. Aero obstruction lights on 4 corners at top.
24776 D 3120.4	-Entrance Range, front.	4° 44.0' N 6° 37.0' W	<b>Oc.(2)G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	102 31	9	Red metal pylon, white bands; 82.	Intensified 281°30'-301°30'.
24780 D 3120.41	--Rear, 620 meters 291°30' from front.	4° 44.5' N 6° 37.6' W	<b>Q.G.</b>	184 56	9	Red metal pylon, white bands; 49.	Intensified 281°30'-301°30'.
24784 D 3120.2	-Jetee Ouest, head.	4° 44.0' N 6° 37.0' W	<b>Fl.(2)W.</b> period 3s	49 15	11	Red metal support, white tower.	V.Q.(3)R. 5s and V.Q.(3)G. 5s 3M mark sides of entrance.
24788 D 3122	<b>Sassandra.</b>	4° 57.0' N 6° 05.0' W	<b>Oc.W.</b> period 4s lt. 3s, ec. 1s	197 60	16	Tower; 23.	Visible over sector 250°.
24792 D 3123	-Mole, head.	4° 57.0' N 6° 04.9' W	<b>Q.W.</b>	33 10	2	White pylon, red band; 13.	A Q.R. light is shown from wharf about 805 meters 045°.
24796 D 3125	<b>Grand Lahau.</b>	5° 08.2' N 5° 01.2' W	<b>Fl.(2+1)W.</b> period 15s	43 13	15	White and red tower.	
	RACON		<b>G(- - •)</b>		15		
24798 D 3126	<b>Adjue.</b>	5° 11.6' N 4° 32.5' W	<b>Fl.W.</b> period 4s		15	White tower; 49.	
	ABIDJAN:						
	-Vridi Channel:						
24802	--Buoy R.	5° 12.9' N 4° 00.1' W	<b>Mo.(A)W.</b>			SAFE WATER RW, pillar, topmark.	
	--RACON		<b>R(• - •)</b>				
24804 D 3128	--S. jetty, head.	5° 14.3' N 4° 00.2' W	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	11	Gray tower, red top; 43.	
24812 D 3129	--N. jetty, head.	5° 14.5' N 4° 00.2' W	<b>Iso.G.</b> period 4s	52 16	11	Gray tower, black top; 43.	<b>Horn:</b> 3 bl. ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s).
24816 D 3130	--Entrance Range, front.	5° 14.6' N 4° 00.7' W	<b>Dir.Oc.R.</b> period 4s lt. 3s, ec. 1s	46 14	18	Red tower, white rectangular daymark, framed by two white triangular beacons, white rectangular daymark; 39.	Intensified 294°30'-299°30'. Several F.R. and F.G. lights mark the channel.
24820 D 3130.1	---Rear, about 430 meters 297° from front.	5° 14.5' N 4° 00.9' W	<b>Dir.Oc.R.</b> period 4s lt. 3s, ec. 1s	59 18	18	White tower, white rectangular daymark, red V, framed by two white triangular beacons, red and white striped rectangular daymark; 52.	Intensified 294°30'-299°30'. Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>IVORY COAST</b>							
24824 D 3131	--Second Range, front.	5° 14.8' N 4° 00.9' W	<b>Q.W.</b>	56 17	22	White and black pylon.	
24828 D 3131.1	--Rear, 1.2 km. 304° from front.	5° 15.2' N 4° 01.5' W	<b>Oc.(2)W.</b> period 6s	98 30	23	White and black metal pylon.	
24832 D 3134	-Treitchville, quay.	5° 17.7' N 4° 01.7' W	<b>Q.G.</b>	75 23	8		
24836 D 3135	-Treitchville.	5° 17.8' N 4° 01.0' W	<b>Fl.(2+1)G.</b> period 12s	135 41	10	Water tower.	
24840 D 3127	<b>-Port Bouet.</b>	5° 14.5' N 3° 57.5' W	<b>Fl.(3)W.</b> period 14s	112 34	28	Square white tower, black top; 98.	<b>Radiobeacon.</b>
24842 D 8542.2	--Terminal.	5° 15.1' N 3° 57.8' W	<b>F.R.</b>		2		Visible 013°-019°.
24843 D 3137.5	<b>-Grand Bassam.</b>	5° 12.0' N 3° 43.9' W	<b>Fl.W.</b> period 5s	105 32	18		
<b>GHANA</b>							
24844 D 3138	<b>Bobwasi Island.</b>	4° 51.0' N 2° 15.0' W	<b>Oc.W.R.</b> period 17s lt. 14s, ec. 3s	79 24	19	White tower, red dome.	W. on bearing S. of 083°, R. elsewhere.
24848 D 3140	<b>Cape Three Points.</b>	4° 45.0' N 2° 06.0' W	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	126 38	27	White round tower, red lantern; 61.	Visible 268°-120°.
TAKORADI BAY:							
24852 D 3145	<b>-Takoradi.</b>	4° 53.2' N 1° 45.1' W	<b>Fl.(2)W.</b> period 3s	163 50	19	White water tower, red lantern.	Visible 220°-070°. AIS.
24856 D 3146	-Main breakwater, head.	4° 53.2' N 1° 44.0' W	<b>Q.R.</b>	35 11	9	Pylon; 25.	F.R. lights shown from 3 masts 2.8 km. NW.
24860 D 3148	-N. breakwater, head.	4° 53.1' N 1° 44.2' W	<b>F.G.</b>	32 10	9		<b>Bell:</b> 1 stroke ev. 5s.
24864 D 3151	-Cement clinker jetty.	4° 53.0' N 1° 44.0' W	<b>Iso.G.</b> period 4s	35 11	1		
SEKONDI:							
24868 D 3155.1	<b>-Fort Orange.</b>	4° 56.0' N 1° 42.0' W	<b>Oc.(2)W.R.</b> period 30s lt. 21s, ec. 3s lt. 3s, ec. 3s	128 39	19	White tower, red lantern; 46.	W. 181°-000°, R. -046°.
-Naval harbor:							
24872 D 3155	--Main breakwater, head.	4° 56.0' N 1° 42.0' W	<b>Fl.R.</b> period 3s	30 9	7	Red and white checkered tower.	In line with fort orange light 262°30'.
24876 D 3155.4	---Elbow.	4° 55.8' N 1° 41.9' W	<b>Fl.W.</b> period 3s	30 9	7	White square tower.	
24880 D 3156	--Lee, breakwater, head.	4° 56.1' N 1° 41.8' W	<b>Fl.G.</b> period 3s	30 9	7	Green and white checkered square tower.	
24884 D 3162	<b>Accra (Akkra).</b>	5° 32.0' N 0° 12.7' W	<b>Fl.(4)W.</b> period 25s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 15.1s	110 34	16	Gray round tower, red top; 92.	Visible 245°-077°.
24892 D 3166	-AVIATION LIGHT.	5° 36.0' N 0° 10.0' W	<b>Al.W.G.</b> period 5s	249 76		Hangar; 61.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GHANA</b>							
TEMA:							
24896 D 3167	<b>-Chemu Point.</b>	5° 38.8' N 0° 01.5' E	<b>Fl.W.</b> period 7.5s	154 47	<b>18</b>	Black structure, white stripes.	<b>AIS.</b>
24904 D 3167.2	-Main breakwater.	5° 37.6' N 0° 01.2' E	<b>Mo.(U)R.</b> period 10s		14	Red tower; 49.	
	-RACON		<b>Q(- - • -)</b>		<b>20</b>		(3 & 10cm).
24908 D 3167.4	-Lee breakwater.	5° 37.7' N 0° 01.0' E	<b>Iso.G.</b> period 10s	23 7	14	Green tower; 49.	
24910.5 D 3167.46	-No. 2 Quay, NW corner.	5° 37.6' N 0° 00.6' E	<b>Fl.R.</b>			White post; 13.	
24915 D 3167.5	-Outer Fishing Harbor, S. breakwater, head.	5° 38.1' N 0° 01.3' E	<b>Q.R.</b>		7	Red tower; 20.	
24916 D 3167.52	--Outer E. breakwater, head.	5° 38.1' N 0° 01.2' E	<b>Q.G.</b>		7	Green fiberglass tower; 20.	
24920 D 3167.6	---NE. corner.	5° 38.3' N 0° 01.1' E	<b>Q.R.</b>		7	Red fiberglass tower; 20.	
24921 D 3167.8	-Inner Fishing Harbor, E. breakwater.	5° 38.3' N 0° 01.1' E	<b>Q.G.</b>		7	Green fiberglass tower; 20.	
24924 D 3168	<b>Cape St. Paul.</b>	5° 50.0' N 0° 58.0' E	<b>Fl.W.</b> period 15s fl. 1.7s, ec. 13.3s	75 23	<b>26</b>	White pile structure, red bands; 83.	
<b>TOGO</b>							
RADE DE LOME:							
24928 D 3171	<b>-Lome.</b>	6° 08.0' N 1° 15.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	125 38	<b>20</b>	Gray water tower, red and white supports.	
24932 D 3174	-Port of Lome, Jeteo Ouest, head.	6° 08.0' N 1° 18.0' E	<b>Oc.R.</b> period 6s lt. 5s, ec. 1s	43 13	5	Red tower; 26.	
24936 D 3174.2	--Jeteo Est, head.	6° 08.0' N 1° 17.4' E	<b>Oc.G.</b> period 6s lt. 5s, ec. 1s		5	Green tower.	<b>Siren:</b> Mo.(L) ev. 25s.
24944 D 3173	<b>-Baguida.</b>	6° 10.0' N 1° 19.0' E	<b>Oc.W.R.</b> period 3s lt. 2.5s, ec. 0.5s	125 38	W. 17 R. 13	Aluminum-colored pylon, black top; 112.	W. 251°-042°, R.-072°. Reserve light Q.R.
24948 D 3176	Kpeme, pier, extremity.	6° 11.0' N 1° 31.0' E	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	82 25	11	Metal framework tower.	
<b>BENIN</b>							
24952 D 3178	<b>Cotonou.</b>	6° 21.1' N 2° 26.4' E	<b>Fl.W.</b> period 5s fl. 0.2s, ec. 4.8s	102 31	<b>20</b>	Gray metal framework tower; 85.	F.R. lights on radio mast 1.6 miles NE., 1.7 and 2.4 miles W., and 750 meters NW. Reserve light range 19M.
24956 D 3179	-Dique Ouest, head.	6° 20.6' N 2° 26.0' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	8	Red round, white pylon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>BENIN</b>							
24960 <i>D 3180</i>	-Spur, head.	6° 20.4' N 2° 25.7' E	<b>Fl.(4)R.</b> period 15s		3	Metal column.	Oc.(3)Y., V.Q.R., F.Y. mark extensive changes to port area to NW.
24964 <i>D 3181</i>	-N. breakwater, head.	6° 20.7' N 2° 25.9' E	<b>Iso.G.</b> period 4s	26 8	4	Green column.	
<b>NIGERIA</b>							
LAGOS HARBOR:							
24968 <i>D 3870</i>	<b>-Beecroff Point.</b>	6° 24.2' N 3° 23.0' E	<b>Fl.(2)W.</b> period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 10.8s	86 26	15	Black round tower, white band, lantern; 89.	
24976 <i>D 3873</i>	-E. mole, head.	6° 23.8' N 3° 24.2' E	<b>Fl.G.</b> period 3s fl. 0.6s, ec. 2.4s	30 9	5	White mast; 30.	<b>Radar reflector.</b>
24992 <i>D 3878</i>	--Middle.	6° 24.6' N 3° 24.2' E	<b>Fl.R.</b>				Storm signals.
24996 <i>D 3881</i>	-Wilmot Point S. Jetty, head.	6° 24.3' N 3° 24.4' E	<b>Oc.(2)W.R.G.</b> period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s		6	Tower; 30.	G. 009°42'-015°42', W.- 021°42', R.-029°42'.
			<b>Q.G.</b>		5		Visible 029°-189°.
25004 <i>D 3884</i>	-Marina, 351°.	6° 26.4' N 3° 24.1' E	<b>Oc.(3)W.R.G.</b> period 12s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s		6		G. 341°30'-348°30', W.- 353°30', R.-001°30'.
25008 <i>D 3885</i>	-Apapa Wharf, NE. corner.	6° 26.3' N 3° 23.7' E	<b>Fl.R.</b> period 8s		4		
25012 <i>D 3885.5</i>	--SE. corner.	6° 26.1' N 3° 23.6' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s		4		
25016 <i>D 3886</i>	-Tin Can Island, E.	6° 25.9' N 3° 21.6' E	<b>Q.G.</b>		5	Dolphin; 23.	
25018 <i>D 3886.3</i>	-Sea School Point.	6° 25.8' N 3° 21.0' E	<b>Q.R.</b>		5		<b>Radar reflector.</b>
25032 <i>D 3888</i>	-Carter Bridge, about 1430 meters 073°30' from Bluff Point Beacon.	6° 28.0' N 3° 23.1' E	<b>F.G.</b>	18 5	2		
ESCRAVOS RIVER:							
25036 <i>D 3900</i>	<b>-Oidigbe.</b>	5° 33.6' N 5° 10.9' E	<b>Fl.(3)W.</b> period 20s	130 40	17	Metal framework tower, black band.	Obscured on bearings of less than 008°.
25038 <i>D 8580.6</i>	-Berthing operations platform.	5° 30.5' N 5° 00.3' E	<b>Mo.(U)W.</b> period 15s	85 26		Metal structure; 85.	
25040	-Fairway buoy.	5° 29.0' N 5° 00.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s			Red spherical buoy, ball topmark.	<b>Bell.</b> <b>Radar reflector.</b>
25044 <i>D 3904</i>	-Main mole, head.	5° 31.0' N 5° 06.0' E	<b>Fl.W.</b> period 10s	33 10	10	Metal framework tower; 26.	<b>Radar reflector.</b>
25048 <i>D 3906</i>	-Island mole, S. head.	5° 31.3' N 5° 07.1' E	<b>Fl.W.</b> period 5s	23 7	8	Metal framework pylon, hut; 20.	<b>Radar reflector.</b>

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>NIGERIA</b>							
25049 <i>D 8581.7</i>	Loading Berth.	5° 10.2' N 5° 10.7' E	<b>Mo.(U)W.</b> period 15s	66 20	7		<b>Horn:</b> Mo.(U) 30s.
	RACON		<b>D(- • •)</b>				
25052	<i>Middleton River Bell Buoy.</i>	4° 30.0' N 5° 30.0' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s			Red and white striped buoy, ball topmark.	<b>Bell.</b> <b>Radar reflector.</b>
25056 <i>D 3930</i>	<b>Palm Point.</b>	4° 16.2' N 6° 04.8' E	<b>Fl.W.</b> period 10s fl. 1.2s, ec. 8.8s	100 30	15	White metal pile structure.	The navigable spans of Benue Bridge are marked by F.G. lights when bridge is open and F.R. lights when closed. Not shown from Dec. 1 to May 31.
25058 <i>D 8584.4</i>	Brass Oil Terminal Berth Operating Platform.	4° 04.0' N 6° 17.2' E	<b>Mo.(U)W.</b> period 15s				<b>Horn:</b> Mo.(U).
			<b>Mo.(U)R.</b> period 15s				
	RACON		<b>T(-)</b>				
25064 <i>D 3940</i>	<b>-Bonny.</b>	4° 24.2' N 7° 08.2' E	<b>Fl.(2)W.</b> period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	130 40	17	Gray skeleton framework tower.	Visible 214°-180°. F.R. lights on radio mast 2.4 miles NE.
	-RACON		<b>B(- • • •)</b>				
25068 <i>D 3944</i>	--Boiler's Pier, near root.	4° 27.3' N 7° 10.3' E	<b>Oc.G.</b> period 2.5s	29 9			Signal station.
25070 <i>D 8588.2</i>	<b>Qua Iboe.</b>	4° 14.2' N 8° 02.7' E	<b>Mo.(U)W.</b> period 15s				<b>Horn.</b>
	RACON		<b>K(- • -)</b>		20		Azimuth coverage 180°-090°.
<b>CAMEROON</b>							
25084 <i>D 3990</i>	<b>Debundscha Point.</b>	4° 06.3' N 8° 58.7' E	<b>Fl.W.R.</b> period 5s	134 41	16	White tower; 26.	R. 130°-161°, W.-130°.
	AMBAS BAY:						
25088 <i>D 4008</i>	-Limbe Range, front.	4° 00.8' N 9° 12.1' E	<b>F.R.</b>			White beacon, black bands.	
25092 <i>D 4008.1</i>	--Rear, 50 meters 032° from front.	4° 00.8' N 9° 12.1' E	<b>F.R.</b>			White beacon, black bands.	
25096 <i>D 4006</i>	-Bota Pier, on flagstaff.	4° 00.9' N 9° 11.6' E	<b>2 F.G. (vert.)</b>		5	Flagstaff.	2 F.R. lights on a bearing 9°, marking the approach to Morton Bay, are located about 0.6 mile west from Bota flagstaff light.
25100 <i>D 4000</i>	Cape Nachitgal.	3° 57.1' N 9° 12.8' E	<b>Iso.W.</b> period 2s	144 44	14	White masonry tower; 42.	Visible 285°-133°.
	BIMBIA RIVER:						
25104 <i>D 4018</i>	-Entrance Point.	3° 58.5' N 9° 17.1' E	<b>Fl.W.R.</b> period 7s fl. 0.5s, ec. 6.5s	14 4	8	Red and white checkered masonry hut; 13.	W. 228°-033°, R.-228°.



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>OFFSHORE ISLANDS</b>							
EQUATORIAL GUINEA ISLA DE BOKO:							
25112 <i>D 4040</i>	-Punta Europa (Los Frailes).	3° 46.9' N 8° 43.0' E	<b>Fl.(3)W.</b> period 20s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 9s	233 71	25	White framework tower, red bands.	Obscured by trees S. of 073°.
25116 <i>D 4039</i>	-Matabo (Santa Isabel) Airport.	3° 45.2' N 8° 42.9' E	<b>Al.FI.W.G.</b> period 6s	141 43		Control tower.	Occasional.
25120 <i>D 4032</i>	-Punta la de Unidad Africana(Punta Fernanda).	3° 45.7' N 8° 47.0' E	<b>Oc.(4)R.</b> period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	112 34	5	Column, pyramid; 26.	
25124 <i>D 4036</i>	-Malabo (Santa Isabel) Range, front.	3° 45.3' N 8° 47.1' E	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	8	White column; 26.	
25128 <i>D 4036.1</i>	--Rear, 40 meters 120° from front.	3° 45.3' N 8° 47.1' E	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	138 42	10	White pillar; 10.	
25136 <i>D 4028</i>	-Islote Horacio.	3° 45.5' N 8° 54.4' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	69 21	10	White pylon; 52.	
25140 <i>D 4043</i>	-Islote Loros, NW. side.	3° 32.4' N 8° 34.1' E	<b>Q.W.</b>	33 10	7	White metal tower; 13.	
25144 <i>D 4046</i>	--Punta Barcelonesa.	3° 27.9' N 8° 32.7' E	<b>Fl.(4)W.R.</b> period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	144 44	W. 12 R. 10	White hexagonal tower, red bands; 52.	W. 090°-186°, R.-270°.
25146 <i>D 4051</i>	--Puerto Luba.	3° 27.5' N 8° 33.5' E	<b>Oc.(2)W.R.G.</b> period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	98 30	W. 8 R. 5 G. 5	White metal mast; 16.	R. 090°-150°, W.-180°, G.-270°; F.G. 3M 071.5° range inside Puerto Luba.
25156 <i>D 4056</i>	-Cabo Agudo, Punta Santiago.	3° 12.4' N 8° 40.6' E	<b>Fl.(2+1)W.</b> period 20s fl. 1s, ec. 7.5s fl. 1s, ec. 2s fl. 1s, ec. 7.5s	262 80	12	Metal framework tower; 82.	Visible 238°42'-104°42'. Aeromarine light.
25160 <i>D 4064</i>	-Fronton de Caracas.	3° 25.4' N 8° 48.5' E	<b>Fl.(3)W.R.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	59 18	W. 8 R. 5	White pyramidal tower; 26.	R. 200°-215°, W.-018°, R.-040°.
25164 <i>D 4060</i>	-Bahia de Riaba.	3° 22.9' N 8° 45.8' E	<b>Fl.W.R.G.</b> period 5s fl. 1s, ec. 4s		5	White tower; 20.	G. 090°-247°, W.-297°, R.-090°.
ILHA DO PRINCIPE:							
25172 <i>D 4154</i>	-Ponta da Mina.	1° 39.0' N 7° 26.4' E	<b>Fl.(2)W.</b> period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	177 54	9	Red tower, white bands; 16.	Visible 230°-292°.
25174 <i>D 4158.5</i>	-Focinho de Cao.	1° 36.3' N 7° 19.8' E	<b>Fl.W.</b> period 12s	49 15	12		
25174.5 <i>D 4159</i>	-Ilheu Caroco, Bone do Joquei.	1° 30.7' N 7° 25.8' E	<b>Fl.(3)W.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	95 29	12	White square tower, red bands; 16.	Obscured northwards.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>OFFSHORE ISLANDS</b>							
25175 <i>D 4149</i>	-Ponta Chindela.	1° 37.7' N 7° 27.8' E	<b>Fl.(4)W.</b> period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	115 35	9	White square tower, red bands; 16.	
25176 <i>D 4155</i>	-Santo Antonio do Principe.	1° 38.7' N 7° 25.4' E	<b>Fl.(3)W.R.G.</b> period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	W. 9 R. 6 G. 6	Red building, white stripes, lantern; 39.	G. 220°-239°, W.-245°, R.- 007°.
25177 <i>D 4154.2</i>	-Mosteiros.	1° 41.2' N 7° 28.3' E	<b>Fl.W.</b> period 7s fl. 1s, ec. 6s	82 25	12	White square tower, red bands; 16.	
25180 <i>D 4158</i>	-Ilheu Bombom, summit.	1° 42.0' N 7° 24.6' E	<b>Fl.(2)W.R.</b> period 10s	209 64	W. 12 R. 9	White square tower; 12.	W. 149°-124°, R.-149°.
25182 <i>D 4160</i>	-Tinhosa Grande, summit.	1° 20.7' N 7° 17.6' E	<b>Fl.(2)W.R.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	197 60	W. 12 R. 9	White square tower, red bands; 16.	W. 180°-155°, R.-180°.
ILHA DE SAO TOME.							
25183 <i>D 4243</i>	-Lagoa Azul.	0° 24.5' N 6° 37.0' E	<b>Fl.(2)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	112 34	12	White rectangular tower, red bands; 16.	
25184 <i>D 4230</i>	-Ilheu das Cabras, summit.	0° 24.6' N 6° 43.3' E	<b>Fl.(2+1)W.</b> period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	322 98	12	White round tower, red lantern; 16.	
25192 <i>D 4237</i>	-Sao Sebastiao.	0° 20.7' N 6° 44.4' E	<b>Fl.(4)W.R.</b> period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	W. 12 R. 9	White round tower, red lantern, fortress; 20.	R. 332°-171°, W.-332°.
-Porto de Ana Chaves:							
25196 <i>D 4234</i>	--Punta de San Jose Range, front.	0° 21.4' N 6° 43.5' E	<b>Fl.G.</b> period 4s fl. 1.5s, ec. 2.5s	30 9	6	White square tower, red bands; 16.	
25200 <i>D 4234.1</i>	---Rear, about 80 meters 285° from front.	0° 21.4' N 6° 43.6' E	<b>Fl.G.</b> period 4s fl. 1.5s, ec. 2.5s	30 9	6	White square tower, red bands; 16.	
25201 <i>D 4238</i>	-Ilheu Santana.	0° 14.5' N 6° 46.0' E	<b>Fl.W.</b> period 7s fl. 0.8s, ec. 6.2s	144 44	12	Rectangular tower; 16.	
25202 <i>D 4239</i>	-Ponta do Io, Angolares.	0° 06.6' N 6° 39.5' E	<b>Fl.(3)W.R.</b> period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	128 39	W. 12 R. 9	Tower; 16.	W. 035°-015°, R.-035°.
25204 <i>D 4241</i>	-Ilheu Gago Coutinho.	0° 00.3' N 6° 31.6' E	<b>Fl.(2)W.</b> period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	349 106	12	Yellow square tower, red lantern, dwelling; 30.	
25205 <i>D 4242</i>	-Ponta Furada.	0° 14.6' N 6° 28.0' E	<b>Fl.W.</b> period 8s fl. 1s, ec. 7s	161 49	12	Rectangular tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>OFFSHORE ISLANDS</b>							
ISLA DE PAGALU							
25208 <i>D 4248</i>	-Mission de Santo Antonio.	1° 24.2' S 5° 36.9' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	151 46	10	Masonry tower; 23.	
25210 <i>D 4249</i>	-Pointe San Antonio.	1° 27.6' S 5° 36.9' E	<b>Oc.(4)R.</b> period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s		6		
<b>CAMEROON</b>							
KOLE:							
25212 <i>D 3980</i>	-SBM KLB1.	4° 14.5' N 8° 33.5' E	<b>Mo.(U)W.</b> period 30s		6	Yellow superbuoy.	Floating hose marked by Fl.W. lights. <b>Horn:</b> Mo.(U) 30s <b>Radar reflector.</b>
25213 <i>D 3981</i>	-SBM KLB2.	4° 12.7' N 8° 33.5' E	<b>Mo.(U)W.</b> period 30s		6	Yellow superbuoy.	<b>Horn:</b> Mo.(U) 30s <b>Radar reflector.</b>
ANTAN:							
25226 <i>D 8588.6</i>	-Antan oil terminal FPSO6.	4° 13.3' N 8° 20.1' E	<b>Mo.(U)W.</b> period 15s		10	Storage tanker, piled platform.	<b>Horn:</b> Mo.(U).
DOUALA:							
25232	-Approach buoy Wouri, entrance to Riviere Cameroun.	3° 45.0' N 9° 23.0' E	<b>L.Fl.W.</b> period 10s fl. 3s, ec. 7s			SAFE WATER RW, pillar, topmark.	Buoys of unreliable position and characteristic mark channel northeastward.
25233	-Cap Cameroun, RACON.	3° 54.7' N 9° 28.7' E	<b>C(- • - •)</b> period 30s		16		
25234	-Pointe Souellaba, RACON.	3° 49.1' N 9° 33.1' E	<b>D(- • •)</b> period 30s		16		
KRIBI:							
25236 <i>D 4134</i>	-Margaret Point, entrance Range, front.	2° 56.0' N 9° 54.5' E	<b>Fl.(3)W.</b> period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	59 18	14	White tower, red top; 49.	Visible over an arc of 225°.
25240 <i>D 4134.1</i>	--Rear, about 555 meters 115° from front.	2° 55.9' N 9° 54.6' E	<b>Dir.F.G.</b>	98 30	8	Belfry; 43.	Visible on range line only. Light on radio mast 1 mile SSE.
<b>EQUATORIAL GUINEA</b>							
25248 <i>D 4170</i>	<b>Punta Mbonda.</b>	2° 05.6' N 9° 46.0' E	<b>Fl.(3+1)W.</b> period 20s fl. 0.1s, ec. 3.3s fl. 0.1s, ec. 3.3s fl. 0.1s, ec. 6.5s fl. 0.1s, ec. 6.5s	119 36	20	Octagonal brick tower; 115.	Aeromarine light.
25252 <i>D 4175</i>	Puerto Macias Nguema, jetty, head.	1° 49.6' N 9° 44.4' E	<b>Iso.W.R.</b> period 4s	9 3	W. 11 R. 7	Metal mast; 16.	R. 159°-204°, W.-159°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>EQUATORIAL GUINEA</b>							
25256 D 4174	Bata, wharf, SW corner	1° 52.4' N 9° 46.3' E	<b>Iso.W.R.</b> period 4s	42 13	W. 8 R. 5	Aluminum mast; 26.	R. 000°-159°, W.-204°. F.R. lights on radio towers 2.4 miles NE. and 1 mile ENE.
25260 D 4175.5	<b>Punta Ngaba.</b>	1° 44.7' N 9° 40.9' E	<b>Fl.W.</b> period 5s fl. 0.1s, ec. 4.9s	62 19	<b>18</b>	Metal tower, concrete base; 78.	
RIO BENITO:							
25264 D 4176	-Punta Mbode.	1° 37.4' N 9° 36.4' E	<b>Q.(4)W.</b> period 9s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 5.8s	46 14	6	Light gray metal framework; 39.	
25268 D 4180	-Punta Negra Pier.	1° 35.3' N 9° 37.8' E	<b>F.R.</b>	11 3	1	Concrete column; 7.	F.G. 4m 1M light marks Villa de Benito pier head 0.5 mile WSW.
25272 D 4177	-Forestry Service, S. side of entrance.	1° 34.8' N 9° 36.4' E	<b>Q.(3)W.</b> period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	56 17	7	Light gray metal framework tower; 23.	
25276 D 4190	<b>Cabo San Juan.</b>	1° 10.4' N 9° 20.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	79 24	<b>15</b>	Red pylon; 59.	F.W. 167 meters NW.
BAHIA DE CORISCO:							
25288 D 4210	-Rio Muni. Port de Cogo, Dir. Lt 058°.	1° 05.0' N 9° 41.7' E	<b>Iso.W.R.G.</b> period 4s	105 32	W. 9 R. 7 G. 7	Red tower; 52.	G. 043-057°, W.-059°, R.- 073°.
25300 D 4200	-Isla de Corisco, N. end.	0° 56.0' N 9° 19.0' E	<b>Fl.W.</b> period 4s fl. 1s, ec. 3s	92 28	8	Red square tower; 10.	
<b>GABON</b>							
25304 D 4260	Pointe N'Dombo.	0° 56.3' N 9° 33.1' E	<b>Fl.W.</b> period 4s	24 7	10	White square tower; 26.	
25312 D 4272	Cap Esterias.	0° 37.2' N 9° 19.6' E	<b>Fl.(2+1)W.</b> period 15s	59 18	10	White beacon; 59.	
ESTUAIRE DU GABON:							
25314 D 4274	-Cap Santa Clara.	0° 30.3' N 9° 19.1' E	<b>Fl.W.</b> period 10s	98 30	12	White pylon; 59.	
25316 D 4276	<b>-Pointe Gombe.</b>	0° 18.3' N 9° 18.3' E	<b>Fl.W.</b> period 10s fl. 0.7s, ec. 9.3s	187 57	<b>22</b>	White tower, black band; 39.	
25344 D 4284.2	-Port Libreville, breakwater, NW. head.	0° 24.1' N 9° 26.1' E	<b>Iso.G.</b> period 4s	13 4	4		
25348 D 4284	--Breakwater, SE. head.	0° 23.9' N 9° 26.2' E	<b>Iso.R.</b> period 4s	13 4	4	White square tower, red top.	
25356 D 4286	-Pointe Owendo.	0° 17.2' N 9° 30.5' E	<b>Fl.(2)W.</b> period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	150 46	8	White square tower, red top; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>GABON</b>							
25364 <i>D 4287.5</i>	--Pier.	0° 17.5' N 9° 30.9' E	<b>Fl.G.</b> period 5s fl. 0.5s, ec. 4.5s	16 5	3	Black and white tower; 13.	
PORT GENTIL:							
25372 <i>D 4290</i>	-Capitaines Beacon.	0° 37.6' S 8° 43.1' E	<b>Fl.R.</b> period 2s	36 11	8	Yellow beacon.	
25372.3 <i>D 4291</i>	-Fisherman's Quay, corner.	0° 41.2' S 8° 46.5' E	<b>Fl.W.</b> period 4s				
25373 <i>D 4290.1</i>	<b>Cap Lopez.</b>	0° 37.8' S 8° 42.4' E	<b>Fl.W.</b> period 5s fl. 0.7s, ec. 4.3s	118 36	20	White tower, red top, 98.	
OIL WELL AREA S. OF CAP LOPEZ:							
25388 <i>D 8605</i>	-N. corner.	0° 47.0' S 8° 44.2' E	<b>Mo.(U)W.</b>	42 13	7	Platform.	<b>Horn:</b> Mo.(U).
Some unlit oil structures are found in this area.							
25404	--Wells DRM-1.	1° 01.0' S 8° 46.0' E	<b>Fl.(3)W.</b> period 10s	33 10	3	Black pipe, black ball daymark.	
25408	--Wells 1.	1° 04.0' S 8° 43.0' E	<b>Fl.(3)W.</b> period 10s	33 10	3	Black pipe, black ball daymark.	
25420 <i>D 8605.2</i>	--W. angle.	1° 09.0' S 8° 29.0' E	<b>Mo.(U)W.R.</b> period 10s	23 7	9	Oil well platform Girelle.	W. 341°-203°, R.-341°. <b>Horn:</b> Mo.(U).
25424 <i>D 8605.3</i>	--Grondin, SW corner.	1° 26.7' S 8° 39.9' E	<b>Mo.(U)W.</b>		9	Platform.	<b>Horn:</b> Mo.(U).
25428	--Wells BRM-1.	1° 29.0' S 9° 06.0' E	<b>Q.W.</b>	33 10	3	Black pipe, black ball daymark.	
25440 <i>D 8605.4</i>	--SE. angle.	1° 36.0' S 9° 12.6' E	<b>Mo.(U)W.</b> period 12s	39 12	7	Pylon.	
25444 <i>D 8610</i>	<b>Gamba.</b>	2° 47.0' S 10° 01.1' E	<b>Fl.(2)W.</b> period 10s	154 47	18	White metal framework tower; 131.	Q.R. light at Nyranga anchorage reported approximately 16 miles SE.

**CONGO**

BAIE DE POINTE NOIRE:

25452 <i>D 4311</i>	<b>-Pointe Noire.</b>	4° 47.4' S 11° 50.2' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	89 27	24	Black and white tower; 66.	Visible 329°-194°.
25460 <i>D 4315</i>	-Detached breakwater, N. head.	4° 46.7' S 11° 50.1' E	<b>F.R.</b>	75 23	9	White tower; 82.	
25464 <i>D 4315.1</i>	-Cathedral.	4° 47.7' S 11° 50.7' E	<b>2 F.R.</b> (horiz.)	131 40	9	Cathedral.	Visible 124°-174°.
25476 <i>D 4314</i>	-Inner breakwater, W. side of entrance.	4° 46.7' S 11° 50.0' E	<b>F.G.</b>	33 10	9	White tower; 82.	
25484 <i>D 4319</i>	<b>Djeno.</b>	4° 55.0' S 11° 55.8' E	<b>Oc.W.R.</b> period 4s lt. 3s, ec. 1s	95 29	W. 18 R. 15		W. 073°-003°, R.-073°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>CABINDA</b>							
25492 <i>D 4326</i>	Punta de Landana.	5° 14.4' S 12° 08.0' E	<b>Oc.W.</b> period 5s lt. 3s, ec. 2s	198 60	9	White square tower; 29.	
25496 <i>D 4332</i>	Malongo Range, front.	5° 23.6' S 12° 11.8' E	<b>Iso.R.</b> period 2s	30 9	8	White triangular tower; 33.	
25500 <i>D 4332.1</i>	-Rear, about 0.4 km. 070° from front.	5° 23.6' S 12° 11.8' E	<b>Iso.R.</b> period 4s	397 121	8	White triangular tower; 33.	
25502 <i>D 8625</i>	Malongo Oil Terminal Platform.	5° 24.8' S 11° 59.5' E	<b>Mo.(U)W.</b> period 10s		5		<b>Horn:</b> Mo.(U) 20s.
	RACON		<b>G(- - •)</b>				
25503	Platform Lima.	5° 14.7' S 11° 49.8' E	<b>Mo.(U)W.</b>				<b>Horn:</b> 1 bl. ev. 20s.
	RACON						
25504 <i>D 4340</i>	<b>Cabinda.</b>	5° 32.9' S 12° 11.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 5.9s	89 27	20	White square framework tower, white hut; 65.	
25506 <i>D 4342.5</i>	-Cabinda Airport AVIATION LIGHT.	5° 35.2' S 12° 11.7' E	<b>Al.FI.W.G.</b>	98 30			Occasional.
25508 <i>D 4343</i>	-Simulambuco Range, front.	5° 33.2' S 12° 13.3' E	<b>Iso.R.</b> period 2s	30 9	4	White quadrangular masonry tower.	
25512 <i>D 4343.1</i>	--Rear, 302 meters 110° from front.	5° 33.2' S 12° 13.5' E	<b>Iso.R.</b> period 4s	150 46	4	White quadrangular masonry tower.	
<b>ZAIRE</b>							
25516 <i>D 4370</i>	<b>Pointe Kupundji.</b>	5° 53.4' S 12° 17.7' E	<b>Fl.W.</b> period 5s	102 31	15	White metal tower; 31.	
25524 <i>D 4390</i>	Pointe Bulabemba.	6° 03.0' S 12° 27.0' E	<b>Iso.W.R.</b> period 6s	56 17	13	White metal tripod.	W. 286°-106°, R.-143°.
<b>ANGOLA</b>							
CONGO RIVER ENTRANCE SOUTH SIDE:							
25528 <i>D 4380</i>	-Moita Seca.	6° 06.7' S 12° 16.5' E	<b>Fl.(3)W.</b> period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	66 20	12	White hexagonal iron skeleton tower; 69.	Visible 008°-202°. Destroyed (T) 2010.
25532 <i>D 4382</i>	-Ponta do Padrao.	6° 04.7' S 12° 19.7' E	<b>Fl.G.</b> period 4s fl. 1s, ec. 3s	49 15	11	White pylon, red bands.	
25536 <i>D 4384</i>	-Santo Antonio Entrance Range, front.	6° 07.4' S 12° 21.9' E	<b>F.R.</b>	13 4	6	Metal lantern, white triangular mark point up.	
25540 <i>D 4384.1</i>	--Rear, about 150 meters 152°18' from front.	6° 07.5' S 12° 22.0' E	<b>F.R.</b>	30 9	6	Metal lantern, white triangular mark point down.	<b>Aero Radiobeacon</b> about 0.8 mile SSE.
25544 <i>D 8629</i>	-Sazaire Oil Terminal.	6° 05.8' S 12° 23.0' E	<b>Iso.W.</b> period 4s			Platform.	
25552 <i>D 8633</i>	Oil loading terminal tower.	6° 30.3' S 12° 27.6' E	<b>L.FI.W.</b> period 7s fl. 2s, ec. 5s	23 7	5	Metal column.	<b>Horn:</b> Mo.(U) ev. 30s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ANGOLA</b>							
25556 <i>D 5003</i>	<b>Cabeça de Cobra.</b>	6° 32.8' S 12° 30.0' E	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	138 42	19	White square tower, small white house on N. side; 43.	
25560 <i>D 5006</i>	<b>Ponta do Quinzau.</b>	6° 53.3' S 12° 45.4' E	<b>Mo.(V)W.</b> period 12s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 2.6s, ec. 4s	180 55	20	Yellow square tower, black bands, white dwellings; 49.	
25564 <i>D 5040</i>	<b>Ambrizete.</b>	7° 15.7' S 12° 51.2' E	<b>Fl.(3)W.</b> period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	110 34	17	White square tower, cross daymark; 65.	
25568 <i>D 5060</i>	<b>Ambriz.</b>	7° 50.1' S 13° 06.0' E	<b>Fl.(4)W.</b> period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	108 33	16	White square tower; 45.	
25572 <i>D 5080</i>	<b>Ponta do Dande.</b>	8° 28.1' S 13° 20.8' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 8s	207 63	16	White square masonry tower, red bands.	
BAIA DE LUANDA:							
25576 <i>D 5100</i>	-Ponta das Lagostas.	8° 45.4' S 13° 18.4' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	266 81	7	White quadrangular tower, two dwellings; 46.	<b>Radar reflector.</b>
25584 <i>D 5101</i>	-Ilha do Cabo, Ponta da Ilha.	8° 45.6' S 13° 15.9' E	<b>Fl.(3)W.</b> period 8s fl. 2s, ec. 1.4s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 1.4s	36 11	9	White square metal framework tower, building; 36.	
25596 <i>D 5104</i>	-Pedras de Mae-Isabel.	8° 47.9' S 13° 14.5' E	<b>F.W.</b>	15 5	1	Black tower, white bands, gallery, stone base.	
25600 <i>D 5150</i>	<b>Ponta das Palmeirinhas.</b>	9° 04.2' S 12° 59.3' E	<b>Fl.W.</b> period 4.5s fl. 0.3s, ec. 4.2s	131 40	21	White square tower; 36.	Aeromarine light.
25604 <i>D 5180</i>	<b>Cabo Ledo.</b>	9° 41.0' S 13° 12.0' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	335 102	17	White hexagonal masonry tower, galleries, two small buildings; 39.	
25608 <i>D 5200</i>	Cabo das Tres Pontas.	10° 23.0' S 13° 32.0' E	<b>Fl.(2)W.</b> period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	168 51	12	White square masonry tower, small building; 46.	
25612 <i>D 5226</i>	Cambiri.	10° 43.8' S 13° 45.0' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	211 64	3	White hut; 13.	
25616 <i>D 5228</i>	--Pier, NW. corner.	10° 43.7' S 13° 45.1' E	<b>F.R.</b>	9 3	3	Column.	
25620 <i>D 5228.2</i>	--SW. corner.	10° 43.7' S 13° 45.1' E	<b>F.G.</b>	15 5	3	Column.	
25624 <i>D 5224</i>	Porto Amboim.	10° 45.4' S 13° 43.2' E	<b>Oc.(2)W.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	361 110	9	White square tower, dwellings; 39.	
25628 <i>D 5240</i>	Novo Redondo, NE. corner of fort.	11° 11.5' S 13° 50.2' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	112 34	8	Black column, house; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ANGOLA</b>							
25632 D 5250	<b>Quicombo.</b>	11° 21.0' S 13° 48.0' E	<b>Fl.(4)W.</b> period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	450 137	16	White square tower; 46.	Aeromarine light.
25636 D 5270	<b>Punta do Egito.</b>	11° 59.9' S 13° 43.5' E	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	450 137	19	White round tower, red stripes.	<i>Temporarily extinguished.</i>
BAIA DO LOBITO:							
25640 D 5280	<b>-Lobito.</b>	12° 19.2' S 13° 35.7' E	<b>Fl.(2)W.</b> period 12s	348 106	20	White round tower, red bands, dwellings; 30.	
25644 D 5288	<b>-Restinga.</b>	12° 18.9' S 13° 35.0' E	<b>Fl.W.</b> period 6s	46 14	7	Red metal framework, white bands; 36.	<b>Radar reflector.</b>
BAIA DE BENGUELA:							
25648 D 5312	<b>-Ponta de Sombreiro, W. point of bay.</b>	12° 35.0' S 13° 17.9' E	<b>Oc.(3)W.</b> period 9s lt. 3.6s, ec. 1s lt. 1.2s, ec. 1s lt. 1.2s, ec. 1s	424 129	8	Red column, white dwelling; 23.	
25652 D 5300	<b>-Old fort, N. face Range front.</b>	12° 34.4' S 13° 23.9' E	<b>Iso.W.R.G.</b> period 2s	36 11	W. 10 R. 8 G. 7	Square tower; 23.	R. 053°-090°, W.-190°, G.-233°.
25656 D 5300.1	<b>--Rear 490 meters 118° from front.</b>	12° 34.5' S 13° 24.1' E	<b>F.R.</b>	53 16	3	Tower; 39.	
25660 D 5304	<b>--Pier, NE. corner, head.</b>	12° 35.1' S 13° 23.2' E	<b>Fl.R.</b> period 2s fl. 0.2s, ec. 1.8s	15 5	2	Metal column; 10.	
25662 D 5304.2	<b>--SW. corner.</b>	12° 35.1' S 13° 23.2' E	<b>Fl.G.</b> period 2s	15 5	2	Column.	
25664 D 5324	<b>Ponta das Salinos.</b>	12° 50.0' S 12° 56.0' E	<b>Fl.W.</b> period 4s fl. 0.3s, ec. 3.7s	128 39	21	Square tower; 124.	Aeromarine light.
25668 D 5328	<b>Ponta dos Frades.</b>	13° 12.9' S 12° 42.8' E	<b>Oc.(2)W.</b> period 7.5s lt. 2s, ec. 0.5s lt. 2s, ec. 3s	463 141	19	White round tower, two dwellings; 30.	
25672 D 5336	<b>Cabo de Santa Maria.</b>	13° 25.2' S 12° 31.9' E	<b>Fl.(3)W.</b> period 13s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 8.3s	335 102	17	White square masonry tower, house; 39.	<i>Temporarily extinguished (2011).</i>
25676 D 5346	<b>Cabo de Santa Marta.</b>	13° 52.6' S 12° 25.4' E	<b>Fl.(2)W.</b> period 6s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 4.2s	159 48	12	White hexagonal masonry tower; 46.	
25680 D 5356	<b>Ponta Grossa.</b>	14° 13.0' S 12° 20.0' E	<b>Fl.(4)W.</b> period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	164 50	16	White square masonry tower; 46.	Aeromarine light.
25684 D 5370	<b>Ponta Piambo.</b>	14° 41.3' S 12° 16.8' E	<b>Fl.(3)W.</b> period 10s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 6.4s	177 54	17	Black and white striped square tower; 38.	



(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>ANGOLA</b>							
BAIA DE MOCAMEDES:							
25688 D 5400	-Ponta do Giraul.	15° 08.2' S 12° 06.7' E	<b>Fl.W.</b> period 5s fl. 0.7s, ec. 4.3s	99 30	18	White square tower; 78.	Temporarily extinguished (2001).
25692 D 5404	-Porto Salazar, entrance Range, front.	15° 07.8' S 12° 08.5' E	<b>Iso.R.</b> period 2s	33 10	3	White column, tower.	
25696 D 5404.1	--Rear, about 2.7 km. 037°30' from front.	15° 06.7' S 12° 09.4' E	<b>Iso.R.</b> period 4s	158 48	3	White column, tower.	
25700 D 5418	-Fortaleza de S. Fernando.	15° 11.8' S 12° 08.6' E	<b>Oc.(2)R.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	94 29	6	White structure; 13.	Visible 083°-197°.
25704 D 5420	--Quay, N. end.	15° 11.5' S 12° 07.8' E	<b>Fl.G.</b> period 2s fl. 0.2s, ec. 1.8s	15 5	2	Column; 10.	
25708 D 5414	-Ponta Noronha.	15° 11.3' S 12° 07.5' E	<b>Fl.W.G.</b> period 3s fl. 0.3s, ec. 2.7s	128 39	W. 7 G. 6	White masonry tower, black band.	G. 055°-115°, W.-055°. <b>Aero Radiobeacon</b> 3.4 miles ESE.
25712 D 5430	<b>Rio dos Flamengos.</b>	15° 33.8' S 12° 01.9' E	<b>Fl.(3)W.</b> period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	361 110	26	White round tower, yellow stripes, two white houses; 36.	
25716 D 5436	Porto Alexandre, on Ponta do Port.	15° 47.1' S 11° 51.0' E	<b>Oc.(3)W.G.</b> period 9s lt. 3.6s, ec. 1s lt. 1.2s, ec. 1s lt. 1.2s, ec. 1s	36 11	W. 9 G. 7	Tripod, white hut, orange diagonal stripes; 26.	W. 215°-185°, G.-215°. <b>Radar reflector.</b>
25720 D 5442	<b>Ponta Albina.</b>	15° 53.0' S 11° 44.0' E	<b>Fl.(2)W.</b> period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	115 35	21	White square tower; 124.	Aeromarine light. <b>Siren:</b> 1 bl. ev. 15s.
BAIA DOS TIGRES:							
25724 D 5460	-Ponta da Marca.	16° 30.9' S 11° 42.8' E	<b>Fl.(3)W.</b> period 11s fl. 0.5s, ec. 1.7s fl. 0.5s, ec. 1.7s fl. 0.5s, ec. 6.1s	49 15	18	White conical tower, piles; 42.	<b>Radar reflector.</b>
25728 D 5464	-Leao.	16° 35.9' S 11° 43.4' E	<b>Oc.(2)G.</b> period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	6	Gray square metal tower; 33.	
<b>NAMIBIA</b>							
25752 D 5510	<b>Swakopmund.</b>	22° 40.7' S 14° 31.5' E	<b>Fl.(2)W.</b> period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	115 35	18	Red tower, white band; 92.	
WALVIS BAY:							
25756 D 5520	-Pelican Point.	22° 53.5' S 14° 26.1' E	<b>Fl.(3)W.</b> period 20s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 11.9s	115 35	22	Black round tower, white bands; 112.	Radiotelephone. <b>Horn:</b> (about 200 yards N.) Mo.(P) ev. 30s (bl. 1.5s, si. 2s, bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 1.5s, si. 13s).
	-RACON		<b>D(- • •)</b> period 72s		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>NAMIBIA</b>							
25760	-Approach Bell Spit Bell, 4 km. 020° from Pelican Point.	22° 52.0' S 14° 27.0' E	<b>Q.W.</b>			N. CARDINAL BY, spar, topmark.	<b>Bell. Radar reflector.</b>
25768 D 5522	-Channel Range, front.	22° 57.1' S 14° 29.8' E	<b>F.R.</b>	65 20	15	Warehouse.	Visible 178°-188°.
25772 D 5522.1	--Rear, 675 meters 183° from front.	22° 57.5' S 14° 29.7' E	<b>F.G.</b>	105 32	12	Framework tower.	Visible 178°-188°.
25784 D 5528	-Tanker berth, N. end.	22° 56.6' S 14° 30.0' E	<b>Fl.(2)R.</b> period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Pole.	Fl.(3) R. 15s shown from S. end.
25785 D 5531	Hofmeyer Wharf, NE. corner.	22° 56.9' S 14° 29.9' E	<b>F.G.</b>	16 5			Q.R. and F.R. light are shown on small craft harbor pier to NNE.
25788 D 5600	<b>-Diaz Point.</b>	26° 38.2' S 15° 05.6' E	<b>Fl.W.</b> period 10s fl. 0.3s, ec. 9.7s	174 53	22	White round tower, red band; 92.	<b>Horn:</b> (450 meters NNW.) 1 bl. ev. 20s (bl. 2s, si. 18s).
			<b>F.W.R.</b>	164 50	W. 5 R. 3		W. 200°-230°, R.-290°.
25792 D 5607	-Robert Harbor, entrance Range, front.	26° 37.9' S 15° 09.9' E	<b>Q.W.</b>	56 17			
25796 D 5607.1	--Rear, 250 meters 120° from front.	26° 38.0' S 15° 10.0' E	<b>Fl.R.</b> period 2s	76 23			
25808 D 5606	-Shark Island.	26° 38.1' S 15° 09.2' E	<b>L.Fl.W.R.G.</b> period 10s fl. 2.5s, ec. 7.5s	111 34	8	Metal framework tower; 10.	G. 039°-136°, W.-161°, R.- 180°.
25812 D 5608	-Menai Creek, main pier.	26° 38.5' S 15° 09.3' E	<b>F.G.</b>				F.R. shown from head of timber jetty.
<b>SOUTH AFRICA</b>							
PORT NOLLOTH:							
25824 D 5660	-Range, front.	29° 15.0' S 16° 52.1' E	<b>F.W. or R.</b>	3 1	5		Port signals, R. when bar is closed. On request. <b>Horn:</b> 1 bl. ev. 15s.
25828 D 5660.1	<b>-Carl von Schlick</b> , rear, 50 meters 066° from front.	29° 14.9' S 16° 52.0' E	<b>Fl.(3+1)W.</b> period 24s	56 17	19	Black metal framework tower, white bands, triangular daymark point down; 36.	Bar signals. Signal station.
	-RACON		<b>Z(- - • •)</b> period 72s		12		
25832 D 5704	<b>Hondeklip Bay.</b>	30° 18.5' S 17° 16.3' E	<b>Fl.(3)W.</b> period 15s fl. 0.1s, ec. 2.3s fl. 0.1s, ec. 2.3s fl. 0.1s, ec. 10.1s	108 33	16	White round concrete tower; 43.	
25836 D 5705	-Hondeklip Bay.	30° 18.9' S 17° 16.6' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	23 7	9	Iron column, white square concrete structure; 9.	Visible 093°-099°.
25838 D 5720	<b>Groenriviermond.</b>	30° 51.9' S 17° 34.8' E	<b>Fl.W.</b> period 5s fl. 0.3s, ec. 4.7s	89 27	26	Yellow round concrete tower, black band; 56.	
25840 D 5734	<b>Doringbaai.</b>	31° 49.0' S 18° 13.9' E	<b>Fl.(2)W.</b> period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	118 36	25	Round concrete tower, black band; 79.	
25844 D 5770	Lambert's Bay, E. breakwater. head.	32° 05.1' S 18° 18.3' E	<b>Fl.W.</b> period 2s	43 13	13	White concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SOUTH AFRICA</b>							
25848 <i>D 5773</i>	-Random Mole, inner breakwater, head.	32° 05.3' S 18° 18.4' E	<b>L.F.I.R.</b> period 10s	20 6	10		
25852 <i>D 5772</i>	-Dir. Lt. 186°.	32° 05.4' S 18° 18.3' E	<b>Dir.F.W.R.G.</b>	16 5	3	White tower.	
25860 <i>D 5774</i>	-Channel, on concrete pier about 389 meters 175° from breakwater.	32° 05.4' S 18° 18.3' E	<b>Q.R.</b>		4	White concrete tower.	
GROOTBERGRIVIER:							
25864 <i>D 5790</i>	-Berg River, entrance, W. breakwater, head.	32° 46.1' S 18° 08.6' E	<b>Fl.W.</b> period 2s	30 9	7		
25868 <i>D 5791</i>	--S. head.	32° 46.3' S 18° 08.7' E	<b>Fl.G.</b> period 2s		3		
25872 <i>D 5792</i>	-E. breakwater, head.	32° 46.1' S 18° 08.7' E	<b>Fl.R.</b> period 2s		3		
25874 <i>D 5792.2</i>	--Inner E. breakwater, head.	32° 46.2' S 18° 08.7' E	<b>F.R.</b>		3		
	--RACON		<b>B(- • • •)</b>		12		
25876 <i>D 5794</i>	St. Helenabaai, Sandy Point, jetty, head.	32° 44.5' S 18° 01.3' E	<b>Fl.W.</b> period 5s fl. 0.5s, ec. 4.5s	20 6	5		
25880 <i>D 5798</i>	Stompneus Punte, Cape St. Martin, N. side.	32° 42.2' S 17° 59.0' E	<b>Fl.W.</b> period 3s fl. 0.3s, ec. 2.7s	36 11	10	Square white brick structure, green dome, white lantern; 26.	
25884 <i>D 5801</i>	<b>Cape St. Martin.</b>	32° 42.9' S 17° 55.3' E	<b>Fl.W.R.</b> period 10s	56 17	W. <b>22</b> R. <b>19</b>	Lattice mast, triangular daymark point down.	R. 095°-130° (over Britannia Reef), W.-095°.
25888 <i>D 5803</i>	Seal Island.	32° 44.3' S 17° 52.3' E	<b>Fl.(2)W.</b> period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	6	Mast topped by crow's nest; 20.	
	RACON		<b>X(- • • -)</b>				
25892 <i>D 5810</i>	<b>Cape Columbine.</b>	32° 49.6' S 17° 51.5' E	<b>Fl.W.</b> period 15s fl. 0.2s, ec. 14.8s	262 80	<b>30</b>	White square concrete tower; 50.	<b>Nautophone:</b> 1 bl. ev. 60s.
25896 <i>D 5830</i>	<b>Saldanhaabaai.</b>	33° 03.0' S 17° 54.7' E	<b>Fl.(3)W.</b> period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 13.1s	112 34	<b>23</b>	Aluminum lattice tower, rectangular daymark; 70.	
25900 <i>D 5834</i>	-Marcus Island, S. side.	33° 02.7' S 17° 58.2' E	<b>Fl.(2)W.</b> period 10s	56 17	10	Framework tower.	F.R. marks radio mast 8 miles NE.
25902 <i>D 5836</i>	-Small craft harbor, breakwater, head.	33° 01.4' S 17° 57.6' E	<b>Fl.W.</b> period 2s				
25904 <i>D 5838</i>	-Jetty, head.	33° 01.2' S 17° 57.2' E	<b>Q.W.</b>	16 5	3		F.R. on mast 750 meters W.
25908 <i>D 5840</i>	-Slipway jetty, head.	33° 01.2' S 17° 57.0' E	<b>Q.R.</b>	20 6	3		
25916 <i>D 5847</i>	-Ore jetty Range, front.	33° 02.4' S 17° 58.4' E	<b>F.W.</b>		12	Pole.	Occasional.
25920 <i>D 5847.1</i>	--Rear, about 1060 meters 056° from front, jetty, head.	33° 02.1' S 17° 59.0' E	<b>F.W.</b>	46 14	12	Framework tower, green strip; 36.	<b>Horn:</b> 1 bl. ev. 20s.
			<b>F.G.</b>	43 13	12		
25925 <i>D 5843</i>	-Multipurpose quay, head.	33° 00.1' S 17° 59.6' E	<b>Fl.(2)G.</b> period 6s	16 5	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SOUTH AFRICA</b>							
25932 <i>D 5841.1</i>	-Ore Concentrates, pier, NW. corner.	33° 00.7' S 17° 59.4' E	<b>F.G.</b>				
25936 <i>D 5833</i>	-Elandspunt.	33° 04.1' S 17° 58.5' E	<b>Fl.W.</b> period 5s	112 34	9	Metal framework tower.	
25940 <i>D 5832</i>	-Entrance Range, front.	33° 02.8' S 18° 02.6' E	<b>Q.W.</b>	89 27	9	Lattice tower; 39.	Also shown by day.
25944 <i>D 5832.1</i>	--Rear, 800 meters 080° from front.	33° 02.8' S 18° 03.2' E	<b>Iso.W.</b> period 6s	151 46	12	Lattice tower; 116.	Also shown by day.
25945 <i>D 5848</i>	-Club Mykonos, W. breakwater, head.	33° 02.9' S 18° 02.4' E	<b>Fl.R.</b> period 2s	23 7	6	White concrete structure; 10.	
25945.5 <i>D 5849</i>	--E. breakwater, head.	33° 02.8' S 18° 02.4' E	<b>Fl.G.</b> period 2s	20 6	6	White concrete structure; 10.	
25948 <i>D 5831</i>	-S. head.	33° 06.3' S 17° 57.3' E	<b>Fl.(4)W.</b> period 30s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 14.5s	115 35	24	Yellow and white round concrete tower, yellow lantern; 75.	<b>Radar reflector.</b>
25956 <i>D 5860</i>	<b>Dassen Island.</b>	33° 25.8' S 18° 05.5' E	<b>Fl.(2)W.</b> period 30s fl. 0.3s, ec. 9.7s fl. 0.3s, ec. 19.7s	154 47	26	White round metal tower, red bands, dwelling; 92.	Radiotelephone. <b>Horn:</b> 1 bl. ev. 15s (bl. 5s, si. 10s). Sounded only when fog approaches within 3 miles of island or on request by radio to Port Captain, Cape Town.
25960 <i>D 5867</i>	Koeberg, N. breakwater.	33° 40.6' S 18° 25.4' E	<b>Fl.Y.</b> period 4s fl. 0.3s, ec. 3.7s	33 10	5	Mast.	Private.
25964 <i>D 5867.1</i>	-S. breakwater.	33° 40.8' S 18° 25.2' E	<b>Fl.Y.</b> period 3s fl. 0.3s, ec. 2.7s	39 12	5	Mast.	Private.
25968 <i>D 5870</i>	<b>Robben Island.</b>	33° 48.9' S 18° 22.5' E	<b>Oc.W.R.</b> period 7s lt. 5s, ec. 2s	154 47	W. 24 R. 12	White round tower, black stripe on E. side; 59.	R. 340°-351°, W.-340°. <b>Horn:</b> (W. extremity of island) 2 bl. ev. 30s. Sounded only when fog approaches within 3 miles, otherwise on request by radio to Port Captain, Cape Town.
MURRAY'S BAY HARBOR:							
25970 <i>D 5884</i>	-Entrance Range, front.	33° 47.8' S 18° 22.6' E	<b>Q.R.</b>		2	Grey pole; 33.	
25970.5 <i>D 5884.1</i>	--Rear, 447 meters 309° from front.	33° 47.6' S 18° 22.3' E	<b>Q.W.</b>		3	Grey pole; 66.	
25972 <i>D 5880</i>	-Murrays Bay, S. breakwater, head.	33° 47.9' S 18° 22.7' E	<b>Q.(2)R.</b> period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	23 7	5	Red pole; 10.	
25973 <i>D 5880.5</i>	--N. breakwater, head.	33° 47.9' S 18° 22.7' E	<b>Q.(2)G.</b> period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	23 7	5	Green pole; 10.	
25974	<i>Fairway buoy.</i>	33° 51.9' S 18° 25.7' E	<b>Iso.W.</b>			SAFE WATER RW, pillar, topmark.	
	RACON		<b>NW(- • • - -)</b>		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SOUTH AFRICA</b>							
TABLE BAY:							
25976 <i>D 5910</i>	<b>-Milnerton.</b>	33° 52.9' S 18° 29.3' E	<b>Fl.(3)W.</b> period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	89 27	25	White concrete tower; 70.	F.R. light on chimney 4.0 miles SSE. F.R. lights on radio masts 1.2 miles ENE.
			<b>F.R.</b>	79 24	11		Visible 114°-139°.
25980 <i>D 5900</i>	<b>-Green Point.</b>	33° 54.1' S 18° 24.0' E	<b>Fl.W.</b> period 10s	62 19	25	White square tower, red diagonal bands, red dome; 52.	Visible 045°-255°. <b>Horn:</b> 1 bl. ev. 30s.
25984 <i>D 5903</i>	-Granger Bay, Mouille Point, jetty, head.	33° 53.9' S 18° 24.9' E	<b>Q.G.</b>	26 8	5	White pole, green bands.	
25986 <i>D 5905</i>	--S. breakwater, head.	33° 54.0' S 18° 24.9' E	<b>Q.R.</b>	20 6	5	White pole, red bands.	
CAPE TOWN:							
25988 <i>D 5930</i>	-Breakwater, head.	33° 53.9' S 18° 26.1' E	<b>Fl.G.</b> period 2s fl. 0.5s, ec. 1.5s	52 16	5	Green metal framework tower.	<b>Horn:</b> Mo.(G) ev. 30s (bl. 5s, si. 2s, bl. 5s, si. 2s, bl. 2s, si. 14s).
-Victoria Basin:							
25992 <i>D 5934</i>	--N. side of entrance.	33° 54.1' S 18° 25.6' E	<b>F.G.</b> (neon)	20 6		Framework tower, concrete column.	
25996 <i>D 5934.2</i>	--S. side of entrance.	33° 54.2' S 18° 25.7' E	<b>F.R.</b> (neon)	20 6	6	Framework tower, concrete column.	
-Ben Shoeman Dock:							
26000 <i>D 5935</i>	--Entrance Range, front.	33° 55.1' S 18° 27.3' E	<b>Fl.R.</b> period 4s fl. 1s, ec. 3s	118 36		Framework tower.	
26004 <i>D 5935.1</i>	---Rear, 285 meters 131°30' from front.	33° 55.2' S 18° 27.5' E	<b>Iso.W.</b> period 4s	154 47		Framework tower.	
26008 <i>D 5936</i>	--Channel Range, front.	33° 55.1' S 18° 27.3' E	<b>F.R.</b>	118 36		Framework tower.	
26012 <i>D 5936.1</i>	---Rear, 315 meters 131°30' from front.	33° 55.2' S 18° 27.5' E	<b>F.W.</b>	154 47		Framework tower.	
-Schoeman Dock:							
26016 <i>D 5937</i>	--N. wall, head.	33° 54.2' S 18° 26.4' E	<b>Fl.R.</b> period 2s				
26020 <i>D 5938</i>	-N. side of entrance.	33° 54.2' S 18° 26.4' E	<b>F.R.</b>			Mast, concrete column.	F.R. neon strip, over F.R. horizontal strip directional along entrance channel.
26024 <i>D 5938.4</i>	-S. side of entrance.	33° 54.4' S 18° 26.3' E	<b>F.G.</b>			Mast, concrete column.	F.G. neon strip, over F.G. horizontal strip directional along entrance channel.
26028 <i>D 5939</i>	-Ro-Ro Jetty, head.	33° 55.0' S 18° 27.0' E	<b>Q.Y.</b>	30 9	5		
-Duncan Dock:							
26032 <i>D 5940</i>	--N. mole, spur jetty, head.	33° 54.3' S 18° 26.2' E	<b>Fl.G.</b> (neon) period 2s				
26036 <i>D 5942</i>	--N. Mole, head.	33° 54.4' S 18° 26.2' E	<b>F.G.</b> (neon)	23 7	11		
26040 <i>D 5943</i>	--E. mole, head.	33° 54.5' S 18° 26.0' E	<b>F.R.</b> (neon)	23 7	9		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
<b>SOUTH AFRICA</b>							
26044 <i>D 5953</i>	-Lay-Up Basin, W. mole, head.	33° 55.0' S 18° 27.0' E	<b>F.G.</b> (neon)	16 5	5	Concrete column.	
26048 <i>D 5954</i>	--E. mole, head.	33° 55.1' S 18° 27.0' E	<b>F.R.</b> (neon)	16 5	5	Concrete column.	
26049 <i>D 5929</i>	-- <b>Entrance Range</b> , front.	33° 54.9' S 18° 25.9' E	<b>Q.R.</b>	197 60	18	Gray metal framework tower, red and white bands.	
26049.1 <i>D 5929.1</i>	--- <b>Rear</b> , 710 meters 198°30' from front.	33° 55.3' S 18° 25.7' E	<b>Oc.W.</b> period 3s lt. 2.8s, ec. 0.2s	341 104	20	On building.	
26050 <i>D 5958</i>	--Landing wharf.	33° 54.8' S 18° 26.5' E	<b>Q.Y.</b>				
26051 <i>D 5960</i>	--Repair pier, head.	33° 54.9' S 18° 26.4' E	<b>F.Y.</b>				
26056 <i>D 6000</i>	Houtbaai, S. breakwater, head.	34° 03.1' S 18° 21.1' E	<b>Fl.W.</b> period 3s	16 5	4	Orange hut.	Q.R. lights are shown near summit of Constantiaberg 1.8 miles 097°.
26060 <i>D 6002</i>	-N. breakwater.	34° 03.0' S 18° 21.0' E	<b>Fl.G.</b> period 2s	20 6	2	Orange hut.	
26064 <i>D 6110</i>	<b>Siangkoppunt.</b>	34° 09.0' S 18° 19.2' E	<b>Fl.(4)W.</b> period 30s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 15.9s	131 40	30	White round tower; 108.	

#### SOUTH ATLANTIC ISLANDS

ASCENSION ISLAND (U.K.):							
-Clarence Bay							
26072 <i>D 4800</i>	--Entrance Range, front.	7° 55.7' S 14° 24.7' W	<b>F.G.</b>	90 27	5	White concrete pillar, two black bands; 15.	Shown only when vessels are seen approaching the bay. Q.R., 2 F.R. (vert.) on white radio mast 1.1M S.
26076 <i>D 4800.1</i>	---Rear, 61 meters 140° from front.	7° 55.6' S 14° 24.5' W	<b>F.G.</b>	115 35	5	White concrete pillar, two black bands; 15.	Shown when vessels are approaching the bay.
26080 <i>D 4804</i>	--Harbor Range, front.	7° 54.6' S 14° 24.3' W	<b>F.W.</b>	152 46		White mast, red bands; 60.	F.R. on radio mast 930 meters NNE.
26084 <i>D 4804.1</i>	---Rear, about 37 meters 050° from front.	7° 54.4' S 12° 24.2' W	<b>F.W.</b>	182 55		White mast, red bands; 90.	Radar building marked by W.R. lights 45 meters NE.
26092 <i>D 4812</i>	--Near Zymotic Hopsital.	7° 55.9' S 14° 25.1' W	<b>F.R.</b>	70 21	4	White concrete pillar, red diagonal stripe; 16.	
ST. HELENA (U.K.):							
-James Bay:							
26100 <i>D 4904</i>	--Entrance Range, front.	15° 55.5' S 5° 43.2' W	<b>Fl.G.</b> period 3s	469 143	3	White triangular beacon; 6.	
26104 <i>D 4904.1</i>	---Rear, about 98 meters 172° from front.	15° 55.6' S 5° 43.2' W	<b>Iso.G.</b> period 8s	558 170	3	White triangular beacon; 6.	
26108 <i>D 4906</i>	-Beacon.	15° 55.0' S 5° 43.0' W	<b>Fl.(2)R.</b> period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	82 25	3		Visible 097°-241°.
26112 <i>D 4908</i>	-Buttermilk Point.	15° 54.2' S 5° 42.4' W	<b>Fl.(2)W.</b> period 10s	120 37	10		Visible 053°-233° (180°).

# Section 18

## Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
<b>CROATIA</b>							
760	Rijeka Calibration Radiobeacon	43° 56.0' N 14° 32.0' E				312.6 A1A.	Transmits on request to Rijeka (9AR) Coast Radio Station.
790	Split Calibration Radiobeacon	43° 30.0' N 16° 27.6' E				312.6 A1A.	Transmits on request to Split (9AS) Coast Radio Station.
800	Dubrovnik	42° 40.0' N 18° 02.0' E	<b>KLP</b> (- • - • • • • - - - •).	25		318 A2A.	AERO.
810	Dubrovnik Calibration Radiobeacon	42° 38.0' N 18° 06.0' E				410 A1A.	Transmits on request to Dubrovnik (9AD) Coast Radio Station.
840	Bar Calibration Radiobeacon	42° 04.0' N 19° 10.0' E				410.5 A1A.	Transmits on request to Bar (YUW) on VHF Ch 16.
<b>MALTA</b>							
850	Valletta Calibration Radiobeacon	35° 53.9' N 14° 31.7' E				310 NON.	Transmits on request to Commercial and Sales Manager, Malta Drydocks. 4 hour notice required. Yellow light shown during transmission.
860	Gozo	36° 02.2' N 14° 12.4' E	<b>GZO</b> (- - • - - - • • - - -).	92		320 NON, A2A.	AERO.
<b>GREECE</b>							
880	Kos	36° 47.8' N 27° 05.5' E	<b>KOS</b> (- • - - - - • • •).	50		311.5 A2A.	AERO.
890	Thira	36° 23.9' N 25° 28.8' E	<b>THR</b> (- • • • • • • - •).	80		307 A2A.	AERO.
900	Sounion	37° 40.1' N 24° 02.7' E	<b>SUN</b> (• • • • • • - - •).	50		319 A2A.	AERO.
<b>UKRAINE</b>							
1010	Mys Yevpatoriyskiy Light Station	45° 09.0' N 33° 16.2' E	<b>EYa</b> (• • - - -).	150	I	309.5 A1A.	
1070	Mys Aytodorskiy Light Station	44° 25.6' N 34° 07.5' E	<b>AT</b> (• - -).	150	I	312.5 A1A.	
<b>TURKEY</b>							
1250	Finike	36° 16.7' N 30° 09.2' E	<b>FR</b> (• • • • • • - •).	300		303.4 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather transmits on the hour and half-hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
<b>SYRIA - ISRAEL</b>							
1270	Banias, Syria	35° 13.7' N 35° 57.6' E	<b>BAN</b> (-••• •- -•).	130		304 A2A.	Aeromarine.
<b>EGYPT</b>							
1300	Port Said Light Station	31° 16.3' N 32° 17.2' E	<b>PS</b> (•- -• •••).	50		310.5	
1310	Damietta Mouth East Light Station	31° 31.4' N 31° 50.8' E	<b>DA</b> (-••• •-).	150		310.5	
1320	Burullus Light Station	31° 35.9' N 31° 04.7' E	<b>BR</b> (-•••• •-•).	50		310.5	
1330	Rosetta	31° 26.5' N 30° 25.8' E	<b>RO</b> (•-• - - -).	50		303.5	
1350	Ras el Shaqiq Light Station	30° 57.2' N 28° 49.7' E	<b>HQ</b> (•••• - - - -).	50		303.5	
<b>LIBYA</b>							
1360	Es Sider	30° 37.6' N 18° 21.1' E	<b>OJ</b> (- - - • - - -).	80		300 NON, A2A.	AERO.
1370	Tarabulus	32° 54.0' N 13° 12.4' E	<b>TRI</b> (- • - • ••).	20		288 A2A.	
<b>TUNISIA</b>							
1380	El Attaia	34° 44.3' N 11° 17.8' E	<b>KR</b> (-•- •••).	100		298.5 A1A.	
1390	Cap Bon	37° 04.4' N 11° 03.0' E	<b>BN</b> (-•••• -•).	200		296.5 A1A.	
<b>AZORES</b>							
1540	Flores	39° 27.0' N 31° 10.0' W	<b>FLO</b> (•••• •••• - - -).	250		270 NON, A2A.	AERO.
1550	Graciosa	39° 05.8' N 28° 00.9' W	<b>GRA</b> (- - • ••• •-).	100		283 NON, A2A.	AERO.
1570	Santa Maria	37° 00.0' N 25° 11.0' W	<b>SMA</b> (••• - - •-).	300		323 NON, A2A.	AERO.
<b>CAPE VERDE</b>							
1640	Monte Verde, Ilha de Sao Vicente	16° 52.0' N 24° 56.0' W	<b>VE</b> (•••• - •).	100		308 A2A.	
1650	Sal	16° 42.0' N 22° 57.0' W	<b>SAL</b> (•••• •- ••••).	350		274 A1A.	AERO.
<b>AFRICA - WEST COAST</b>							
1680	Nouakchott, Mauritania	18° 05.0' N 15° 58.0' W	<b>KC</b> (-•- -•••).	100		297 A1A.	AERO.



(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
<b>AFRICA - WEST COAST</b>							
1690	Saint Louis, Senegal	16° 03.0' N 16° 27.3' W	<b>SLO</b> (••• •••• - - -).	45		355 A1A.	AERO.
1700	Dakar, Senegal	14° 42.9' N 17° 28.6' W	<b>SDS</b> (••• -••• •••).	170		323 A1A.	AERO.
1710	Kamsar, Guinea	10° 40.0' N 14° 36.0' W	<b>KAM</b> (-•- •- -).	150		308 A1A.	AERO.
1720	Koundinde Light Station, Guinea	10° 15.0' N 14° 26.0' W	<b>KD</b> (-•- -••).	100		305 A1A.	
1730	Freetown (Aberdeen Hill), Sierra Leone	8° 29.9' N 13° 17.3' W	<b>FF</b> (•••• ••-•).	100		296.5	
1750	Sassandra, Ivory Coast	4° 56.0' N 6° 08.2' W	<b>SS</b> (••• •••).	100		290 A1A.	AERO.
1760	Port Bouet Light Station, Ivory Coast	5° 14.7' N 3° 57.4' W	<b>PB</b> (•-•• -•••).	100		294.2 A2A.	Aeromarine.
1770	Takoradi, Ghana	4° 54.1' N 1° 45.0' W	<b>TI</b> (- ••).	90		375 NON, A2A.	AERO.
1780	Cotonou, Benin	6° 22.2' N 2° 24.5' E	<b>CO</b> (-••• - - -).	155		284 A1A.	AERO.
1790	Escravos, Nigeria	5° 36.6' N 5° 11.2' E	<b>ES</b> (• •••).			305 A1A.	AERO.
1800	Malabo, Bioko, Equatorial Guinea	3° 46.2' N 8° 43.5' E	<b>BL</b> (-•••• ••••).	50		310 A1A.	AERO.
1810	Bata, Equatorial Guinea	1° 51.6' N 9° 46.2' E	<b>BT</b> (-•••• -).			325 A1A.	AERO.
1830	Port Gentil, Gabon	0° 41.6' S 8° 45.7' E	<b>PG</b> (•-••• - -•).	100		367 A1A.	AERO.
1835	Gamba Oil Terminal, Gabon	2° 48.4' S 10° 04.8' E	<b>GZ</b> (- -•• - -•••).	100		359 A1A.	AERO.
1840	Pointe Noire, Congo	4° 50.0' S 11° 53.0' E	<b>PNR</b> (•-••• -••••).	80		323 A1A.	AERO.
1850	Ascension Island	7° 56.7' S 14° 24.8' W	<b>ASN</b> (•- ••• -•).			360 NON, A2A.	AERO.

<b>ANGOLA</b>							
1860	Cabinda	5° 37.0' S 12° 12.0' E	<b>CA</b> (-••• •-).	100		280 NON, A2A.	AERO.
1870	Soyo	6° 08.3' S 12° 22.4' E	<b>SZ</b> (••• - -•••).	75		310 NON, A1A.	AERO.
1880	N'gunza	11° 10.3' S 13° 51.0' E	<b>NR</b> (-• •-•).	50		320 NON, A2A.	AERO.
1890	Mocamedes	15° 11.0' S 12° 11.0' E	<b>MO</b> (- - - - -).	50		358 A2A.	AERO.

# Section 19

## Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
<b>EGYPT</b>							
1300	Alexandria	31° 09.2' N 29° 50.8' E	T 320 R 440 R 441	150	284		
1310	Port Said	31° 16.4' N 32° 17.5' E	T 321 R 442 R 443	126	290		
1320	Mersa Matrouh	31° 21.5' N 27° 14.8' E	T 324 R 448 R 449	150	307		

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
A1842		16	D0887.1		332	D0996.1		616	D1106		948
A1843		18	D0890		308	D0996.3		598	D1106.1		952
A1844		4	D0892		344	D0996.6		582	D1114		956
A1846		20	D0893		336	D0997		618	D1116		964
A1848		24	D0894		348	D0998		624	D1118		968
A1850		38	D0896		364	D0999		620	D1122		972
A1852		28	D0896.05		366	D1003		629	D1124		976
A1854		48	D0896.1		368	D1012		632	D1126		980
A1856		52	D0898		380	D1014		636	D1127		982
A1862		56	D0899		372	D1015		676	D1128		984
A1870		40	D0899.2		384	D1015.1		680	D1128.7		985
A1871		44	D0900		376	D1015.5		686	D1128.8		985.1
A1872		92	D0901		377	D1016		672	D1129		986
A1873		84.1	D0902		388	D1017		684	D1130		988
A1873.9		76	D0904		392	D1018		688	D1130.4		992
A1874		84	D0904.5		393	D1022		692	D1131		996
A1874.1		104	D0906		400	D1026		736	D1137		1008
A1875		108	D0909		408	D1026.2		732	D1138		1015
A1876		80	D0910		412	D1026.4		740	D1139		1016
A1880		88	D0913.9		424	D1030		644	D1140		1024
A1884		112	D0914		428	D1032		640	D1142		1028
A1886		116	D0914.1		420	D1036		668	D1150		912
D0790		152	D0915		416	D1040		664	D1152		924
D0790.1		160	D0918		436	D1042		660	D1153		1092
D0792		154	D0922		444	D1044		648	D1154		1088
D0794		156	D0923.2		442	D1045		652	D1154.5		1031
D0796		178	D0925		460	D1046		656	D1155		1048
D0798		176	D0925.4		464	D1050		752	D1155.2		1044
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D0816		144	D0945		504	D1066		800	D1164		1084
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D0818		140	D0950		512	D1074		812	D1165.1		1102.1
D0820		136	D0952		516	D1075.8		848	D1166		1096
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D0829		208	D0954.1		524	D1076		844	D1168		1104
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D0836		240	D0968		544	D1088		860	D1180		1136
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D0860		256	D0971.1		565.1	D1091		862	D1184		1144
D0862		268	D0974		556	D1093		876	D1186		1148
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D0874		300	D0982		592	D1098		884	D1190		1160
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D0877		296	D0985		584	D1102		892	D1191		1176
D0877.1		288	D0986		596	D1104		944	D1193		1172
D0884		304	D0990		600	D1104.2		962	D1196		1180
D0886		312	D0990.1		604	D1104.4		960	D1198		1184
D0886.1		316	D0994		608	D1105		920	D1200		1212
D0887		328	D0996		612	D1105.5		916	D1204		1216



# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D1204.1		1220	D1286.4		1460	D1454.3		1716	D1527.42		1936
D1207		1196	D1286.6		1464	D1454.6		1720	D1528		1938
D1207.1		1200	D1287		1468	D1456		1728	D1528.2		1938.1
D1210		1204	D1287.5		1440	D1456.2		1730	D1529		1940
D1210.1		1208	D1290		1476	D1456.4		1731	D1530		1939
D1211		1222	D1292		1490	D1457		1732	D1531		1944
D1211.1		1222.1	D1293.9		1488	D1457.5		1734	D1532		1948
D1214		1240	D1294		1496	D1458		1736	D1532.2		1949
D1215		1244	D1294.1		1492	D1459		1740	D1532.25		1951
D1216		1260	D1300		1480	D1459.1		1744	D1532.4		1956
D1218		1268	D1304		1536	D1460		1748	D1532.6		1952
D1220		1272	D1307		1544	D1462		1752	D1536		1964
D1223		1280	D1308		1540	D1466		1764	D1537		1972
D1223.1		1284	D1310		1500	D1468		1756	D1537.2		1976
D1224		1286	D1310.1		1504	D1470		1760	D1542		1984
D1226		1292	D1312		1508	D1472		1768	D1546		1992
D1228		1296	D1312.1		1512	D1474		1772	D1546.1		1996
D1230		1300	D1313		1505	D1475		1776	D1547		2000
D1232		1304	D1313.2		1506	D1475.5		1777	D1548		2004
D1232.1		1308	D1314		1516	D1476.8		1778	D1548.2		2008
D1234		1312	D1316		1520	D1476.85		1778.5	D1549		2012
D1238		1324	D1326		1524	D1482		1792	D1552		2016
D1240		1316	D1327		1532	D1483		1788	D1554		2020
D1242		1256	D1327.2		1533	D1484		1796	D1556.5		2026
D1243		1352	D1372		1556	D1484.1		1800	D1556.51		2026.1
D1244		1340	D1378		1560	D1488.2		1802	D1557		2028
D1244.4		1336	D1380		1576	D1489		1804	D1557.3		2041
D1244.6		1332	D1382		1580	D1493		1808	D1558		2036
D1244.8		1348	D1384		1584	D1494		1812	D1558.2		2032
D1245		1344	D1386		1588	D1494.2		1816	D1559.4		2048
D1246		1344.5	D1387		1596	D1495		1820	D1559.42		2050
D1247		1345	D1387.2		1600	D1498		1832	D1559.45		2052
D1247.1		1345.1	D1387.21		1604	D1499		1836	D1559.83		2053
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D1248.5		1351.7	D1387.5		1616	D1505		1856	D1561		2060
D1250		1380	D1388		1620	D1506		1848	D1562		2064
D1251		1364	D1388.1		1624	D1508		1852	D1562.6		2066
D1251.1		1368	D1390		1624.5	D1510		1860	D1563		2068
D1253		1360	D1390.5		1625	D1510.4		1864	D1563.1		2072
D1254		1381	D1391		1633	D1512		1868	D1566		2076
D1256		1384	D1392		1634	D1513		1872	D1566.1		2080
D1256.3		1385	D1394		1628	D1513.2		1876	D1568		2084
D1257		1400	D1394.1		1632	D1513.4		1888	D1568.1		2088
D1257.1		1404	D1394.2		1635	D1514		1880	D1570		2092
D1258		1388	D1394.3		1635.5	D1520		1892	D1574		2096
D1258.5		1396	D1395		1636	D1521		1896	D1576		2100
D1259		1390	D1396		1648	D1523		1898	D1577		2104
D1259.1		1391	D1400		1656	D1524		1900	D1578		2108
D1259.4		1392	D1410		1660	D1524.2		1904	D1580		2112
D1264		1408	D1412.4		1672	D1524.4		1910.6	D1582		2116
D1264.1		1412	D1412.41		1676	D1524.45		1910.7	D1586		2120
D1270		1420	D1413		1664	D1524.6		1911	D1587		2124
D1272		1416	D1413.1		1668	D1525		1912	D1589		2128
D1274		1422	D1414		1680	D1525.05		1912.5	D1591		2130
D1274.4		1423	D1416		1684	D1525.1		1913	D1592		2132
D1274.6		1422.5	D1418		1688	D1525.15		1913.2	D1596		2204
D1276		1424	D1420		1692	D1526.2		1914	D1597		2196
D1277		1428	D1422		1696	D1526.4		1908	D1597.4		2200
D1278		1432	D1424		1700	D1526.64		1910.2	D1598		2152
D1278.1		1436	D1424.1		1704	D1526.65		1910.5	D1598.1		2151
D1284		1444	D1425		1708	D1527		1920	D1598.3		2160
D1285		1448	D1452		1712	D1527.2		1924	D1598.4		2156
D1285.1		1452	D1453		1724	D1527.22		1928	D1598.42		2150
D1286		1456	D1454		1717	D1527.4		1932	D1598.45		2149

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D1598.5		2187	D1685.11		2441	D1734		2624	D1888		2928
D1598.7		2184	D1685.12		2442	D1736		2632	D1889		2932
D1598.8		2186	D1685.2		2436	D1736.3		2644	D1890		2940
D1599		2192	D1686		2444	D1736.4		2648	D1890.1		2944
D1602		2168	D1686.1		2446	D1737		2656	D1891		2936
D1603		2172	D1686.2		2447	D1738		2636	D1892		2960
D1603.2		2173	D1686.3		2450	D1739		2640	D1893		2948
D1606.5		2166	D1687		2452	D1740		2660	D1893.1		2949
D1608		2136	D1687.6		2454	D1742		2664	D1894		2956
D1609		2140	D1688		2456	D1744		2666	D1894.5		2962
D1610		2148	D1690		2458	D1756		2680	D1895		2964
D1614		2208	D1692		2460	D1758		2676	D1895.4		2968
D1616		2212	D1694		2464	D1760		2668	D1895.5		2970
D1618		2220	D1695		2468	D1762		2672	D1895.55		2957
D1622		2228	D1696		2476	D1775		2682	D1895.6		3016
D1622.1		2232	D1696.1		2480	D1782		2684	D1895.7		2978
D1624		2224	D1697		2484	D1784		2688	D1895.8		2976
D1628		2236	D1698.5		2511	D1788		2696	D1895.9		2980
D1630		2240	D1698.7		2513	D1790		2712	D1895.94		2971
D1630.4		2238	D1698.84		2512	D1792		2700	D1895.97		2971.2
D1631		2244	D1698.9		2516	D1794		2716	D1895.98		2971.3
D1631.28		2246	D1698.92		2520	D1795		2720	D1896		2972
D1632.05		2246.5	D1698.94		2524	D1796		2724	D1897		3004
D1632.11		2247	D1698.96		2528	D1798		2732	D1898		2988
D1634.2		2248	D1699.5		2533	D1799.5		2738	D1900		2992
D1636		2264	D1699.6		2533.5	D1800		2740	D1900.2		2996
D1638		2268	D1699.7		2534	D1806		2820	D1901		3000
D1638.4		2272	D1699.8		2539	D1808		2812	D1901.2		3002
D1640		2276	D1700		2540	D1810		2824	D1901.3		3010
D1641		2280	D1702		2544	D1812		2828	D1901.5		3012
D1642		2284	D1702.6		2538	D1814		2808	D1901.6		3020
D1646		2288	D1702.9		2535	D1815		2807	D1902		3024
D1647		2292	D1703		2537, 2541	D1816		2748	D1902.6		3029
D1649		2296	D1703.5		2537.5	D1818		2756	D1904.4		3013
D1649.1		2300	D1704		2548	D1820		2764	D1904.6		3014
D1650		2304	D1706		2552	D1822		2760	D1907		2938
D1652		2308	D1708		2556	D1824		2752	D1911		3040
D1653		2312	D1710		2560	D1826		2768	D1911.1		3044
D1657		2316	D1710.1		2564	D1827		2772	D1912		3032
D1657.5		2320	D1714		2568	D1828		2776	D1914		3048
D1657.6		2324	D1716		2572	D1830		2780	D1916		3052
D1658		2328	D1716.2		2575	D1830.4		2781	D1920.5		3066
D1659		2332	D1716.4		2573	D1831		2784	D1921		3068
D1659.2		2336	D1716.6		2574	D1834		2804	D1924		3072
D1660		2340	D1717		2576	D1838		2796	D2002		3076
D1661		2341	D1718		2592	D1848		2840	D2003		3080
D1662		2348	D1720		2596	D1850		2844	D2003.1		3084
D1662.1		2352	D1722		2580	D1855		2848	D2006		3090
D1664		2356	D1722.2		2584	D1856		2852	D2008		3096
D1664.1		2360	D1723		2588	D1858		2854	D2012		3100
D1673		2368	D1723.9		2599.1	D1860		2856	D2012.1		3104
D1676		2376	D1723.91		2599	D1862		2860	D2012.8		3099
D1678		2404	D1723.93		2599.2	D1864		2864	D2015.1		3124
D1678.2		2380	D1723.95		2599.3	D1865.6		2866	D2016		3128
D1678.21		2384	D1723.99		2605	D1866		2868	D2016.2		3132
D1678.3		2388	D1723.991		2605.1	D1870		2880	D2016.21		3136
D1678.31		2392	D1724		2600	D1872		2888	D2020.4		3160
D1678.4		2396	D1724.1		2604	D1873		2896	D2020.6		3164
D1678.6		2400	D1725		2606	D1873.4		2900	D2023		3196
D1678.8		2410	D1726		2608	D1874		2904	D2023.1		3200
D1679		2412	D1728		2612	D1876		2908	D2023.7		3204
D1680		2416	D1729		2613	D1876.1		2912	D2024		3188
D1681		2420	D1730		2616	D1882		2916	D2024.1		3192
D1684		2432	D1732		2628	D1884		2920	D2027		3208
D1685		2440	D1733		2620	D1886		2924	D2027.1		3212

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2028.4		3216	D2128.5		3436	D2164		3604	D2335.42		3852.5
D2028.5		3220	D2129		3424	D2165		3608	D2338.5		3853
D2029		3224	D2129.2		3428	D2165.1		3612	D2341		3854
D2029.1		3228	D2130		3440	D2168		3616	D2345		3863
D2032		3236	D2130.2		3444	D2170		3620	D2346		3877
D2034		3240	D2130.4		3448	D2171		3622	D2348.5		3864
D2036		3244	D2130.6		3452	D2172.3		3623	D2348.51		3868
D2037		3249	D2132		3453	D2174		3624	D2349		3872
D2038		3248	D2132.2		3453.5	D2175		3628	D2349.1		3876
D2045		3253	D2133.4		3462	D2176		3632	D2350.4		3882
D2045.5		3254	D2134.2		3464	D2178		3644	D2351		3880
D2047		3255	D2134.21		3468	D2179		3648	D2352		3884
D2047.1		3255.5	D2134.3		3480	D2179.2		3652	D2355		3900
D2052		3264	D2134.35		3481	D2181		3656	D2355.2		3908
D2052.1		3268	D2134.46		3463	D2181.1		3660	D2355.4		3912
D2052.5		3269	D2135.8		3488	D2192		3684	D2355.5		3914
D2056		3272	D2136		3492	D2194		3688	D2357		3928
D2057		3271	D2136.1		3496	D2196		3692	D2358		3932
D2059.59		3270	D2136.25		3504	D2197		3700	D2359		3920
D2060		3284	D2136.5		3505	D2197.2		3716	D2359.1		3924
D2066		3296	D2138.5		3507	D2197.3		3708	D2362		3940
D2068		3300	D2139		3508	D2197.4		3712	D2367		3960
D2069		3304	D2140		3512	D2206		3724	D2367.2		3958
D2069.1		3308	D2142		3520	D2206.1		3736	D2367.5		3969
D2072		3312	D2142.1		3524	D2208		3728	D2367.7		3970
D2074		3316	D2144		3516	D2209		3732	D2368		3968
D2076		3320	D2144.2		3518	D2211		3748	D2371.3		3977
D2078		3324	D2145		3526	D2212		3752	D2372		3984
D2078.1		3328	D2145.1		3526.1	D2218		3760	D2372.1		3984.2
D2084		3332	D2145.2		3526.2	D2219		3761	D2372.15		3984.4
D2086		3336	D2145.3		3526.3	D2221		3740	D2373		3980
D2088		3340	D2145.31		3526.4	D2221.1		3744	D2373.4		3988
D2094		3356	D2146		3527	D2222		3756	D2373.7		3984.1
D2096		3352	D2146.1		3527.1	D2230.1		3772	D2374		3992
D2098		3360	D2146.2		3527.2	D2232.8		3778	D2375		3996
D2100		3364	D2150		3556	D2234		3780	D2375.3		3998
D2102		3368	D2150.22		3532	D2234.1		3784	D2375.35		3999
D2106		3372	D2150.26		3540	D2235		3796	D2375.36		4000
D2108		3376	D2150.28		3544	D2235.2		3797	D2375.37		4001
D2110		3380	D2150.34		3566	D2246		3816	D2375.5		4002
D2114		3389	D2150.37		3566.1	D2249		3800	D2376		4008
D2118		3388	D2150.4		3560	D2305		3820	D2377		4012
D2119		3390	D2151		3564	D2312		3828	D2377.1		4016
D2119.1		3390.5	D2151.1		3568	D2315		3862	D2377.4		4020
D2123		3398	D2152		3548	D2315.75		3862.5	D2380		3950
D2124		3400	D2152.1		3552	D2319		3836	D2380.1		3950.1
D2126		3404	D2152.3		3565	D2320		3844	D2381		4032
D2126.2		3402	D2152.5		3565.1	D2321		3861	D2381.2		4036
D2126.25		3401	D2152.7		3565.2	D2324.05		3845	D2382		4037
D2126.5		3406	D2152.9		3565.3	D2328.05		3845.11	D2382.3		4038
D2126.55		3406.2	D2156.5		3566.2	D2328.1		3845.1	D2383		4048
D2127		3408	D2156.6		3566.3	D2328.15		3845.12	D2383.4		4050
D2127.1		3410	D2156.8		3566.4	D2328.18		3845.13	D2385.2		4049
D2127.15		3414	D2156.9		3566.5	D2328.2		3846	D2385.6		4056
D2127.18		3439	D2157.3		3569.5	D2328.3		3846.1	D2385.7		4041
D2127.181		3439.2	D2157.4		3569	D2328.7		3846.5	D2388		4060
D2127.182		3439.4	D2158		3570	D2328.75		3846.51	D2398		4064
D2127.183		3439.6	D2160		3572	D2330		3849	D2398.1		4068
D2127.2		3438	D2160.16		3583	D2332.1		3850	D2404		4072
D2127.25		3438.5	D2160.36		3582	D2335.2		3851	D2404.1		4076
D2127.3		3413	D2160.5		3587	D2335.3		3851.5	D2405		4077
D2127.31		3413.3	D2160.6		3588	D2335.35		3851.6	D2405.4		4078
D2127.4		3416	D2161		3592	D2335.38		3852.1	D2406		4080
D2127.6		3420	D2161.1		3596	D2335.39		3852.11	D2408		4084
D2128		3432	D2162		3600	D2335.4		3852.6	D2409		4088

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2410		4092	D2492		22862	D2574		23132	D2641		23630
D2411.5		4110	D2492.5		22863	D2582		23140	D2642		23628
D2412		4112	D2493		22864	D2584		23148	D2642.4		23627
D2414		4116	D2496		22868	D2586		23152	D2642.5		23626
D2415		4118	D2498		22872	D2587		23156	D2645		23612
D2416		4124	D2500		22880	D2587.5		23150	D2645.45		23609
D2418		4120	D2502		22888	D2588		23144	D2645.5		23606
D2420		4128	D2503		22892	D2590		23160	D2646		23608
D2423.2		4132	D2504		22884	D2590.5		23162	D2647		23584
D2423.5		4140.5	D2506		22885	D2591		23164	D2648		23594
D2424.7		4140	D2507		22886	D2591.2		23168	D2648.5		23593
D2424.8		4139	D2510		22896	D2591.4		23172	D2648.7		23595.1
D2424.9		4139.5	D2512		22900	D2591.8		23173	D2648.72		23595.2
D2424.94		4138	D2514		22904	D2592		23176	D2649.5		23599
D2425		4136	D2514.1		22908	D2595		23180	D2649.7		23601
D2425.2		4138.5	D2522		22916	D2595.4		23184	D2652		23598
D2425.3		4142	D2524		22920	D2596		23196	D2654		23580
D2425.35		4154	D2524.1		22924	D2596.2		23200	D2654.2		23604
D2425.4		4143	D2526		22928	D2596.6		23201	D2654.6		23570
D2425.66		4145	D2526.1		22932	D2598		23204	D2655		23568
D2425.7		4149	D2528		22934	D2599		23188	D2655.4		23572
D2425.72		4147	D2532		22912	D2600		23208	D2655.6		23576
D2425.74		4151	D2537		22938	D2601		23214	D2656		23648
D2430		4166	D2540		22940	D2602		23216	D2656.9		23650
D2430.01		4166.51	D2540.1		22944	D2602.1		23220	D2659		23640
D2430.013		4166.5	D2541		22992	D2602.2		23224	D2659.4		23644
D2430.015		4166.52	D2542		22948	D2602.4		23228	D2659.8		23638
D2430.2		4167	D2543		22952	D2604		23232	D2660		23512
D2431		4167.2	D2543.2		22956	D2608		23236	D2661		23516
D2431.2		4167.3	D2544		22960	D2611		23244	D2662		23524
D2431.6		4172	D2544.1		22964	D2612		23248	D2662.5		23525
D2432		4168	D2544.5		22968	D2613		23253	D2663.5		23528
D2434.2		4184	D2544.6		22972	D2613.2		23254	D2664		23532
D2434.4		4180	D2545		22976	D2613.6		23254.5	D2665		23536
D2436.6		4204	D2545.1		22980	D2614		23255	D2666		23540
D2436.7		4208	D2545.3		22984	D2615		23255.5	D2666.1		23558
D2436.74		4214.6	D2545.4		22988	D2616		23256	D2666.2		23544
D2436.75		4214.5	D2546		22996	D2616.2		23257	D2666.21		23548
D2436.78		4214.7	D2546.1		23000	D2616.4		23258	D2666.5		23556
D2436.8		4216	D2546.3		23008	D2616.6		23260	D2666.7		23560
D2436.81		4214	D2546.4		23012	D2617		23264	D2667		23564
D2437.05		4215	D2546.6		23004	D2619		23270	D2668		23504
D2437.055		4215.1	D2547		23016	D2621		24264	D2669		23508
D2437.075		4215.2	D2547.1		23020	D2622		24268	D2670		23484
D2437.08		4215.3	D2547.4		23024	D2623		24276	D2672.3		23489
D2438		4220	D2547.5		23028	D2623.2		24280	D2672.35		23489.1
D2442		4224	D2548.4		23032	D2626		24288	D2672.5		23490
D2445		4228	D2554		23036	D2628		24292	D2672.7		23491
D2446		4232	D2557		23048	D2628.2		24296	D2674		23488
D2448		4236	D2558.4		23054	D2630		24300	D2676		23500
D2448.5		4238	D2559		23056	D2631		24304	D2677		23496
D2449.3		4241.4	D2559.1		23060	D2632		23664	D2680		23480
D2449.4		4241.5	D2561		23076	D2632.1		23666	D2680.2		23472
D2449.5		4241.6	D2561.1		23080	D2632.2		23702	D2681.2		23477
D2449.6		4241.7	D2562		23072	D2632.3		23696	D2681.5		23468
D2450.7		4244	D2563		23068	D2632.4		23700	D2681.8		23466
D2451.5		4242	D2563.1		23069	D2633		23692	D2682.3		23457
D2456		4256	D2566		23096	D2633.7		23684	D2682.4		23460
D2482		22840	D2567		23100	D2633.71		23688	D2683		23448
D2484		22848	D2568.1		23128	D2634		23680	D2683.5		23482
D2486		22844	D2569		23108	D2635		23669	D2684		23372
D2487		22852	D2569.2		23114	D2635.3		23670	D2684.1		23376
D2488		22856	D2570		23104	D2636		23668	D2687.2		23360
D2490		22860	D2570.2		23112	D2638		23704	D2687.5		23364
D2490.5		22858	D2572		23116	D2640		23636	D2687.51		23368

## CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2688		23408	D2777		24053	D2815.96		24023	D2852		23802
D2689		23428	D2778		24053.2	D2815.98		24023.5	D2872		24200
D2689.4		23432	D2778.2		24053.4	D2816		23928	D2874		24202
D2689.41		23436	D2778.4		24053.6	D2818		23854	D2875		24203
D2690		23404	D2778.6		24053.8	D2820		23852	D2875.5		24201
D2690.02		23420	D2780		24052	D2821		23856	D2876		24204
D2690.03		23424	D2781		24050	D2822		23868	D2881.5		24209
D2690.1		23440	D2781.5		24049	D2822.4		23872	D2882		24210
D2690.11		23444	D2782		24048	D2822.45		23873	D2883.5		24211
D2690.15		23400	D2786		24044	D2822.46		23874	D2883.6		24218
D2690.9		23385	D2790		24024	D2822.6		23860	D2883.7		24212
D2691		23380	D2791		24026	D2822.7		23864	D2883.8		24213
D2691.4		23377	D2792		24040	D2822.8		23859	D2884		24217
D2691.41		23377.1	D2793		24042	D2826		23876	D2885		24216
D2692		23344	D2793.5		24034	D2826.2		23880	D2888		24214
D2693		23318	D2794		24036	D2826.4		23884	D2890		24215
D2694		23320	D2794.2		24037	D2826.5		23886	D2898		24256
D2696		23324	D2795		24032	D2826.7		23916	D2900		24252
D2697		23328	D2796		24033.5	D2826.72		23912	D2901		24244
D2697.1		23332	D2796.1		24033	D2826.74		23913	D2904		24260
D2697.5		23342	D2796.5		24027	D2826.78		23909	D2908		24236
D2698		23336	D2798		23932	D2826.82		23917	D2910		24240
D2698.1		23340	D2799		23936	D2826.86		23908	D2914		24196
D2699		23348	D2799.2		23934	D2826.87		23911	D2916		24197
D2700		23346	D2799.3		23935	D2826.9		23910	D2918		24192
D2702		23304	D2799.4		23938	D2826.91		23910.5	D2919		24193
D2702.4		23308	D2799.5		23939	D2827		23904	D2919.5		24198
D2702.41		23312	D2799.6		23940	D2827.2		23900	D2919.75		24147
D2703		23296	D2799.66		23942	D2827.21		23900.1	D2920		24156
D2703.1		23300	D2799.67		23942.1	D2827.4		23905	D2920.1		24160
D2704		23288	D2799.7		23960	D2827.41		23905.1	D2921		24148
D2705		23289	D2800.1		23964	D2827.9		23918	D2921.1		24152
D2706		23292	D2800.2		23956.5	D2827.93		23919	D2922		24164
D2708		23316	D2800.42		23948	D2827.94		23920	D2922.5		24168
D2712		23280	D2800.5		23943	D2827.98		23924	D2923		24176
D2713		23282	D2801		23968	D2829		23828	D2923.1		24180
D2714		23284	D2801.2		23956	D2830		23832	D2923.2		24184
D2720		23748	D2801.3		23956.8	D2831		23836	D2923.3		24188
D2722		23752	D2801.9		23987	D2831.5		23892	D2925		24172
D2726		23740	D2803		23945.1	D2831.6		23888	D2930		24144
D2728		23732	D2803.2		23945	D2831.8		23838	D2933.1		24135
D2730		23736	D2803.3		23953	D2832		23840	D2933.2		24134
D2738		23728	D2803.35		23954	D2833		23842	D2934		24132
D2741.3		23727.9	D2803.37		23955	D2834		23844	D2936		24136
D2741.5		23727.6	D2804		23976	D2835		23848	D2939.5		24130
D2743		23726	D2806		23980	D2836		23808	D2942		24100
D2744		23724	D2807		23984	D2837		23810	D2943		24104
D2746		23720	D2807.35		23989.5	D2838		23804	D2943.4		24116
D2750		23716	D2807.36		23989	D2842		23812	D2943.41		24120
D2752		23712	D2807.37		23988	D2844.75		23816	D2944		24108
D2754		23708	D2807.5		23990	D2844.9		23825.5	D2944.3		24123
D2755		23744	D2809		23996	D2845		23825	D2944.35		24122
D2755.5		23746	D2809.4		24000	D2845.5		23826	D2944.38		24122.5
D2756		23756	D2812		24008	D2846		23780	D2946		24096
D2757		23766	D2814		24012	D2847.2		23797.2	D2950		24080
D2757.2		23765	D2815		24014	D2847.5		23797.3	D2952		24088
D2757.3		23767.5	D2815.2		24014.2	D2848.4		23794	D2954		24092
D2762		23768	D2815.22		24014.4	D2848.45		23784	D2956		24084
D2763		23767	D2815.4		24016	D2848.5		23796	D2972		24308
D2768		23776	D2815.45		24020	D2849		23797	D2973		24316
D2769		23772	D2815.6		24022.2	D2849.3		23785	D2973.5		24314
D2772		24076	D2815.7		24022	D2849.35		23785.1	D2974.2		24312
D2773.6		24055	D2815.8		24022.6	D2849.51		23798	D2975		24320
D2773.8		24054	D2815.82		24022.4	D2850		23800	D2975.2		24324
D2775		24056	D2815.94		24023.7	D2851		23801	D2975.3		24328

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2975.6		24332	D3101.1		24680	D3173		24944	D4234		25196
D2976		24336	D3101.4		24684	D3174		24932	D4234.1		25200
D2977		24340	D3101.6		24688	D3174.2		24936	D4237		25192
D2977.5		24344	D3102		24692	D3176		24948	D4238		25201
D2978		24348	D3105		24696	D3178		24952	D4239		25202
D2978.4		24352	D3106		24704	D3179		24956	D4241		25204
D2978.5		24356	D3107		24700	D3180		24960	D4242		25205
D2979		24360	D3108		24708	D3181		24964	D4243		25183
D2980		24364	D3108.1		24712	D3870		24968	D4248		25208
D2982		24368	D3110.5		24716	D3873		24976	D4249		25210
D2986		24373	D3111		24720	D3878		24992	D4260		25304
D2986.3		24373.1	D3112		24724	D3881		24996	D4272		25312
D2986.31		24373.2	D3112.4		24740	D3884		25004	D4274		25314
D2986.4		24373.3	D3112.6		24744	D3885		25008	D4276		25316
D2986.5		24374	D3112.9		24728	D3885.5		25012	D4284		25348
D2996		24380	D3113		24730	D3886		25016	D4284.2		25344
D2998		24384	D3113.1		24732	D3886.3		25018	D4286		25356
D3002		24388	D3113.3		24734	D3888		25032	D4287.5		25364
D3004		24392	D3113.31		24736	D3900		25036	D4290		25372
D3008		24396	D3113.8		24748	D3904		25044	D4290.1		25373
D3008.2		24400	D3114		24752	D3906		25048	D4291		25372.3
D3010		24404	D3115		24758	D3930		25056	D4311		25452
D3012		24408	D3115.5		24756	D3940		25064	D4314		25476
D3013		24412	D3116		24760	D3944		25068	D4315		25460
D3018		24440	D3118		24764	D3980		25212	D4315.1		25464
D3019		24444	D3120		24768	D3981		25213	D4319		25484
D3021		24452	D3120.2		24784	D3990		25084	D4326		25492
D3027		24464	D3120.4		24776	D4000		25100	D4332		25496
D3027.5		24465	D3120.41		24780	D4006		25096	D4332.1		25500
D3030		24468	D3122		24788	D4008		25088	D4340		25504
D3042		24484	D3123		24792	D4008.1		25092	D4342.5		25506
D3044		24492	D3125		24796	D4018		25104	D4343		25508
D3050		24500	D3126		24798	D4028		25136	D4343.1		25512
D3052		24504	D3127		24840	D4032		25120	D4370		25516
D3053		24506	D3128		24804	D4036		25124	D4380		25528
D3054		24508	D3129		24812	D4036.1		25128	D4382		25532
D3056		24512	D3130		24816	D4039		25116	D4384		25536
D3057		24520	D3130.1		24820	D4040		25112	D4384.1		25540
D3058		24524	D3131		24824	D4043		25140	D4390		25524
D3059		24545	D3131.1		24828	D4046		25144	D4800		26072
D3060		24540	D3134		24832	D4051		25146	D4800.1		26076
D3060.1		24544	D3135		24836	D4056		25156	D4804		26080
D3062		24532	D3137.5		24843	D4060		25164	D4804.1		26084
D3064		24552	D3138		24844	D4064		25160	D4812		26092
D3065		24556	D3140		24848	D4134		25236	D4904		26100
D3070		24564	D3145		24852	D4134.1		25240	D4904.1		26104
D3071		24565	D3146		24856	D4149		25175	D4906		26108
D3072		24568	D3148		24860	D4154		25172	D4908		26112
D3074		24576	D3151		24864	D4154.2		25177	D5003		25556
D3078		24580	D3155		24872	D4155		25176	D5006		25560
D3080		24596	D3155.1		24868	D4158		25180	D5040		25564
D3081		24588	D3155.4		24876	D4158.5		25174	D5060		25568
D3084		24600	D3156		24880	D4159		25174.5	D5080		25572
D3086		24604	D3162		24884	D4160		25182	D5100		25576
D3086.1		24608	D3166		24892	D4170		25248	D5101		25584
D3087		24612	D3167		24896	D4174		25256	D5104		25596
D3088		24616	D3167.2		24904	D4175		25252	D5150		25600
D3090		24620	D3167.4		24908	D4175.5		25260	D5180		25604
D3093		24636	D3167.46		24910.5	D4176		25264	D5200		25608
D3094		24640	D3167.5		24915	D4177		25272	D5224		25624
D3094.5		24638	D3167.52		24916	D4180		25268	D5226		25612
D3096		24648	D3167.6		24920	D4190		25276	D5228		25616
D3098.5		24664	D3167.8		24921	D4200		25300	D5228.2		25620
D3100.2		24672	D3168		24924	D4210		25288	D5240		25628
D3101		24676	D3171		24928	D4230		25184	D5250		25632

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D5270		25636	D5843		25925	E0024		4288	E0108		4496
D5280		25640	D5847		25916	E0031		4292	E0109		4500
D5288		25644	D5847.1		25920	E0032		4296	E0109.2		4504
D5300		25652	D5848		25945	E0032.2		4300	E0109.3		4508
D5300.1		25656	D5849		25945.5	E0056		4304	E0109.4		4506
D5304		25660	D5860		25956	E0057.6		4312	E0109.6		4510
D5304.2		25662	D5867		25960	E0058		4320	E0109.7		4511
D5312		25648	D5867.1		25964	E0058.5		4339	E0110		4512
D5324		25664	D5870		25968	E0059		4340	E0111		4516
D5328		25668	D5880		25972	E0059.4		4341	E0112		4520
D5336		25672	D5880.5		25973	E0060.3		4334	E0113		4522
D5346		25676	D5884		25970	E0060.4		4328	E0114		4524
D5356		25680	D5884.1		25970.5	E0060.5		4324	E0116		4528
D5370		25684	D5900		25980	E0060.6		4332	E0117.5		4532
D5400		25688	D5903		25984	E0060.7		4336	E0120		4536
D5404		25692	D5905		25986	E0060.8		4346	E0120.6		4540
D5404.1		25696	D5910		25976	E0061		4348	E0120.7		4541
D5414		25708	D5929		26049	E0062		4360	E0124		4548
D5418		25700	D5929.1		26049.1	E0064		4364	E0125		4552
D5420		25704	D5930		25988	E0064.5		4366	E0125.3		4556
D5430		25712	D5934		25992	E0065		4366.5	E0125.6		4560
D5436		25716	D5934.2		25996	E0065.3		4367	E0126		4564
D5442		25720	D5935		26000	E0065.7		4367.2	E0126.02		4564.2
D5460		25724	D5935.1		26004	E0066		4368	E0126.025		4564.1
D5464		25728	D5936		26008	E0067		4376	E0126.1		4566
D5510		25752	D5936.1		26012	E0067.5		4372	E0126.15		4567
D5520		25756	D5937		26016	E0068		4380	E0126.2		4568
D5522		25768	D5938		26020	E0069		4370	E0126.4		4569
D5522.1		25772	D5938.4		26024	E0069.2		4371	E0126.5		4576.5
D5528		25784	D5939		26028	E0069.4		4371.5	E0126.64		4576.8
D5531		25785	D5940		26032	E0070		4384	E0126.65		4576.75
D5600		25788	D5942		26036	E0070.2		4384.5	E0126.7		4577
D5606		25808	D5943		26040	E0071		4390	E0126.75		4577.5
D5607		25792	D5953		26044	E0071.2		4390.2	E0126.8		4577.4
D5607.1		25796	D5954		26048	E0072		4392	E0126.81		4570
D5608		25812	D5958		26050	E0073.2		4396	E0127		4571
D5660		25824	D5960		26051	E0073.6		4404	E0128		4588
D5660.1		25828	D6000		26056	E0073.7		4402	E0130		4592
D5704		25832	D6002		26060	E0074		4408	E0130.2		4590
D5705		25836	D6110		26064	E0074.8		4411	E0130.5		4593
D5720		25838	D8100		1891	E0075		4409	E0131		4594
D5734		25840	D8542.2		24842	E0075.2		4410	E0131.2		4594.2
D5770		25844	D8580.6		25038	E0077		4411.5	E0131.3		4594.4
D5772		25852	D8581.7		25049	E0080		4420	E0132		4595
D5773		25848	D8584.4		25058	E0082		4422	E0132.2		4595.5
D5774		25860	D8588.2		25070	E0086		22780	E0132.5		4595.75
D5790		25864	D8588.6		25226	E0088		4424	E0134		4596
D5791		25868	D8605		25388	E0088.4		4428	E0136.8		4600
D5792		25872	D8605.2		25420	E0089.5		4430	E0137		4604
D5792.2		25874	D8605.3		25424	E0090		4440	E0137.3		4608
D5794		25876	D8605.4		25440	E0091		4432	E0138		4616
D5798		25880	D8610		25444	E0091.6		4437	E0139		4628
D5801		25884	D8625		25502	E0092		4444	E0140		4624
D5803		25888	D8629		25544	E0092.4		4448	E0140.2		4624.5
D5810		25892	D8633		25552	E0093		4452	E0140.8		4611
D5830		25896	E0008		4264	E0094		4460	E0140.851		4611.5
D5831		25948	E0008.2		4264.1	E0095.6		4461.1	E0140.9		4611.7
D5832		25940	E0008.57		4264.2	E0095.65		4461	E0141		4632
D5832.1		25944	E0012		4266	E0096		4464	E0141.5		4636
D5833		25936	E0018		4268	E0098		4472	E0144		4639
D5834		25900	E0018.3		4272	E0099		4468	E0144.2		4639.1
D5836		25902	E0018.41		4276	E0102		4476	E0146		4640
D5838		25904	E0020		4280	E0103		4484	E0146.2		4644
D5840		25908	E0022		4282	E0106		4492	E0146.4		4645
D5841.1		25932	E0022.2		4284	E0107.7		4495	E0146.6		4646

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0147		4648	E0202		5388	E0253.5		4774	E0309.4		5140
E0147.5		4650	E0203.4		5400	E0254		4772	E0310		5144
E0148		4652	E0204		5404	E0256		4768	E0310.4		5148
E0149		4656	E0204.2		5408	E0258		4776	E0311		5152
E0152		4664	E0205		5412	E0260		4780	E0311.2		5154
E0154		4668	E0208.6		5422	E0262		4844	E0311.4		5156
E0155		4672	E0208.65		5423	E0262.5		4811	E0311.8		5160
E0157		4676	E0209		5364	E0263		4809	E0311.9		5162
E0158		4680	E0209.6		5424	E0264		4808	E0312.2		5164
E0158.6		4682.5	E0209.7		5424.5	E0264.2		4810.1	E0312.6		5172
E0159		4692	E0210		5425	E0264.3		4810.2	E0313		5176
E0159.3		4696	E0210.75		5427	E0264.4		4815	E0314		4872
E0160		4700	E0210.8		5425.5	E0264.5		4817	E0314.2		4885
E0161		4684	E0210.9		5429	E0264.6		4818	E0314.4		4876
E0162		4688	E0211		5425.6	E0265		4820	E0314.6		4880
E0164		4702	E0212.1		5425.7	E0265.6		4821	E0314.8		4887
E0166		4704	E0212.18		5434	E0265.8		4821.5	E0315		4884
E0168		4708	E0212.2		5433	E0265.9		4822	E0315.8		4888
E0168.5		4713	E0212.6		5448	E0266		4824	E0316		4892
E0172		4716	E0214		5432	E0266.1		4823	E0316.3		4895
E0172.5		4720	E0214.6		5440	E0266.2		4828	E0316.35		4895.1
E0173.6		4724	E0214.7		5442	E0266.3		4823.1	E0316.4		4896
E0174		4728	E0216		5452	E0267		4840	E0316.5		4896.5
E0174.2		4732	E0217		5449	E0267.2		4842	E0316.55		4895.2
E0174.4		4732.5	E0217.2		5449.5	E0267.8		4799	E0316.6		4895.5
E0174.6		4732.75	E0217.4		5450	E0268		4800	E0316.7		4900
E0174.9		4734	E0217.5		5450.5	E0270		4804	E0316.72		4901
E0174.92		4733	E0218		5454	E0273		4796	E0316.74		4902
E0174.93		4733.5	E0219		5456	E0273.3		4796.4	E0316.8		4912
E0175.2		4740	E0220		5460	E0274		4784	E0316.82		4916
E0175.4		4736	E0221		5464	E0276		4788	E0316.83		4920
E0175.8		4741	E0222		5504	E0278		4848	E0316.84		4924
E0176		5300	E0222.2		5508	E0282		5032	E0317		4904
E0179		5304	E0222.4		5512	E0284		5036	E0317.2		4908
E0179.4		5308	E0224		5476	E0286		5030	E0318		4936
E0180		5312	E0226		5480	E0288		5044	E0318.3		4940
E0184		5324	E0226.1		5482	E0289		5040	E0318.6		4944
E0185		5332	E0226.2		5488	E0290		5048	E0318.8		4932
E0186		5316	E0226.4		5492	E0291		5056	E0318.9		4934.5
E0187		5328	E0226.5		5483	E0293		5060	E0319		4934
E0187.5		5329	E0229.2		5496	E0293.2		5064	E0320		4935
E0188		5333	E0229.3		5484	E0296		5068	E0322		4976
E0188.5		5334	E0229.4		5486	E0298		5072	E0322.2		4980
E0190		5338	E0229.7		5514	E0299		5084	E0326		4951.5
E0190.2		5338.5	E0230		5516	E0299.5		5077	E0326.2		4951
E0194		5340	E0231		5519	E0300.2		5080	E0328		4950
E0196		5348	E0231.6		5518	E0301		5076	E0328.08		4946
E0197		5352	E0232		5520	E0303		5090	E0328.3		4948
E0197.2		5356	E0234		5528	E0303.2		5091	E0328.31		4949
E0198		5360	E0234.4		5524	E0303.7		5086	E0328.32		4996
E0199		5362	E0238		5532	E0304		5100	E0328.34		4968
E0199.2		5362.2	E0239		5536	E0306		5096	E0328.36		4972
E0199.82		5366	E0239.2		5541	E0306.5		5097	E0328.38		4960
E0199.9		5365	E0239.4		5540	E0306.6		5099	E0328.39		4964
E0200		5368	E0244		5544	E0307		5098	E0328.42		4952
E0200.1		5370	E0244.5		5546	E0307.1		5104	E0328.7		5000
E0200.2		5366.2	E0246		5552	E0307.16		5105	E0328.75		5004.1
E0200.3		5369	E0246.5		5550	E0307.17		5107	E0328.8		5002
E0200.4		5372	E0246.6		5551	E0307.19		5107.5	E0329		5006
E0200.5		5368.5	E0248		5548	E0307.2		5108	E0329.6		5004
E0201.11		5421.6	E0248.5		5549	E0308		5116	E0330		5008
E0201.15		5374	E0250		4744	E0308.2		5120	E0332		5012
E0201.2		5380	E0251		4748	E0308.6		5132	E0332.3		5012.3
E0201.4		5384	E0252		4752	E0308.7		5128	E0332.65		5012.4
E0201.5		5376	E0253		4756	E0309		5136	E0333		5013



# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0333.2		5014	E0385		5624	E0418.5		5794	E0495		.6012
E0334		5016	E0385.5		5628	E0418.6		5793.1	E0496		.6020
E0336		5020	E0386		5632	E0418.62		5793	E0497		.6048
E0336.6		5024	E0386.1		5634	E0424		5792	E0497.1		.6052
E0336.8		5022	E0386.15		5635	E0434.4		5795	E0498		.6024
E0337		5028	E0386.6		5640	E0434.45		5796	E0498.5		.6028
E0338		4852	E0386.7		5641	E0434.591		5786	E0504		.6044
E0338.3		4856	E0386.71		5641.5	E0434.592		5788	E0506		.6032
E0338.6		4860	E0386.72		5641.2	E0434.705		5801	E0508		.6036
E0339		4864	E0388		5652	E0434.71		5800	E0509		.6040
E0340		4868	E0388.12		5682	E0434.72		5802	E0512		.6056
E0342		5184	E0388.16		5682.2	E0434.73		5804	E0512.5		.6060
E0344		5188	E0388.2		5662	E0437		5864	E0512.6		.6064
E0345		5192	E0388.35		5684	E0439		5874	E0513		.6068
E0345.4		5196	E0388.4		5660	E0439.2		5874.5	E0514		.6080
E0345.6		5200	E0389		5670	E0439.3		5870	E0514.5		.6072
E0345.8		5208	E0392		5676	E0439.35		5872	E0515		.6076
E0345.9		5204	E0392.1		5678	E0439.5		5875	E0515.2		.6077
E0346.2		5216	E0392.12		5679	E0439.8		5875.4	E0516		.6078
E0348		5220	E0392.3		5689	E0440		5876	E0516.1		.6078.5
E0350		5224	E0392.33		5690	E0446		5880	E0517		.6084
E0350.5		5226	E0392.37		5690.5	E0446.5		5884	E0517.6		.6092
E0351		5228	E0392.4		5691	E0448		5888	E0517.7		.6096
E0351.1		5232	E0392.6		5668	E0452		5891	E0517.8		.6097
E0352		5236	E0393		5664	E0452.08		5893	E0517.9		.6098
E0354		5240	E0393.2		5665	E0452.1		5894	E0518		.6088
E0355		5238	E0393.7		5691.5	E0452.2		5892	E0522		.6100
E0356		5252	E0393.8		5691.6	E0452.7		5895	E0522.1		.6100.1
E0358		5256	E0393.85		5691.7	E0453		5896	E0524		.6104
E0359		5260	E0393.9		5707	E0456		5900	E0525		.6106
E0360		5264	E0393.95		5707.1	E0459		5912	E0525.2		.6106.5
E0361		5268	E0394		5692	E0460		5920	E0526		.6107
E0361.4		5272	E0394.2		5696	E0462		5916	E0526.2		.6120
E0361.6		5276	E0394.4		5700	E0464		5924	E0527.2		.6113
E0361.65		5278	E0394.6		5704	E0466.4		5927	E0527.5		.6114
E0362		5284	E0394.8		5705	E0466.6		5926	E0527.52		.6115
E0362.4		5280	E0395		5706	E0466.7		5928	E0527.65		.6123
E0363.67		5277	E0396		5708	E0466.75		5929	E0527.7		.6122
E0364		5288	E0396.12		5718	E0466.8		5930	E0527.8		.6122.5
E0364.2		5292	E0396.14		5720	E0467		5932	E0528		.6112
E0364.4		5296	E0396.2		5712	E0468		5936	E0529		.6108
E0366		5180	E0396.3		5716	E0470		5940	E0534		.6128
E0367		5182	E0396.5		5732	E0471.2		5942	E0535		.6124
E0370		5568	E0396.52		5728	E0472		5944	E0535.4		.6132
E0370.3		5556	E0396.6		5736	E0474		5948	E0536		.6140
E0370.35		5560	E0396.62		5740	E0474.4		5952	E0536.2		.6144
E0370.6		5564	E0396.64		5744	E0475.4		5956	E0538		.6136
E0371		5565	E0396.8		5745	E0475.42		5956.5	E0539		.6152
E0371.2		5572	E0396.85		5746	E0475.5		5960	E0540		.6148
E0373		5576	E0396.9		5747	E0475.52		5960.5	E0542		.6154
E0374		5580	E0397		5748	E0475.53		5961	E0544		.6164
E0375		5592	E0398		5752	E0475.54		5961.5	E0545		.6162
E0376		5599	E0400		5760	E0475.6		5964	E0546		.6180
E0377		5598	E0401		5767	E0475.7		5968	E0547		.6196
E0380		5600	E0401.55		5761	E0476		5972	E0547.5		.6200
E0380.5		5608	E0401.58		5762	E0479		5976	E0547.7		.6204
E0380.55		5604	E0401.59		5763.5	E0480		5980	E0547.77		.6214
E0381		5610	E0401.65		5765	E0484		5984	E0548		.6212
E0381.5		5612	E0401.7		5763	E0486		5988	E0550		.6192
E0382.3		5614	E0404		5777	E0488		5992	E0551		.6188
E0382.4		5614.5	E0404.5		5777.5	E0489		5996	E0552		.6184
E0382.5		5615	E0405		5774	E0490		6000	E0555		.6232
E0382.6		5615.5	E0407.6		5780	E0490.4		6004	E0556		.6224
E0383		5620	E0407.62		5784	E0492		6008	E0557		.6228
E0384		5616	E0410.2		5785	E0492.2		6009	E0557.2		.6216

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0557.4		6214.2	E0610.68		6517.2	E0694		6708	E0759		6952
E0557.6		6214.1	E0610.7		6518.1	E0695		6720	E0760		6954
E0558		6221	E0610.8		6518.2	E0697		6724	E0761		6953
E0558.2		6222	E0610.9		6519	E0698		6736	E0762		6955
E0560		6236	E0611		6520	E0698.2		6732	E0764		6956
E0561		6240	E0615		6524	E0698.4		6740	E0765		6964
E0561.5		6241	E0615.4		6526	E0699		6742	E0765.3		6972
E0562		6244	E0616.5		6523	E0700		6744	E0765.4		6960
E0566		6248	E0616.8		6522	E0701		6748	E0766		6968
E0576		6268	E0620		6540	E0702		6752	E0769		6974
E0577		6264	E0622		6544	E0702.4		6756	E0769.5		6975
E0577.4		6269	E0623.5		6548.5	E0704		6764	E0770		6976
E0577.5		6270	E0624		6548	E0704.5		6766	E0771		6984
E0578		6272	E0624.7		6549	E0706		6768	E0772		6988
E0578.2		6280	E0624.8		6550	E0708		6772	E0774		6992
E0579		6260	E0624.9		6551	E0709		6776	E0778		7000
E0580		6276	E0625.3		6552	E0709.4		6780	E0779		7004
E0582		6284	E0625.6		6556	E0709.6		6784	E0784		7008
E0582.2		6288	E0628		6560	E0709.65		6776.5	E0784.2		7012
E0583		6292	E0630		6564	E0709.75		6778	E0784.6		7014
E0583.2		6296	E0630.01		6569.1	E0710		6760	E0786		7016
E0583.4		6300	E0630.02		6569.2	E0712		6792	E0786.2		7018
E0584.2		6304	E0630.04		6570.1	E0713		6788	E0788		7024
E0584.4		6308	E0630.06		6570.2	E0714		6796	E0788.4		7028
E0586		6320	E0630.2		6571	E0716		6820	E0790		7020
E0590		6330	E0631		6568	E0717		6832	E0791		7032
E0590.2		6331	E0634		6572	E0717.6		6822.1	E0791.4		7036
E0592		6348	E0635		6580	E0717.8		6822	E0791.7		7038
E0594		6344	E0635.4		6584	E0719		6828	E0792.01		7041
E0597		6352	E0636		6592	E0719.5		6824	E0792.4		7039
E0600		6356	E0637		6588	E0720		6836	E0792.5		7039.5
E0600.5		6393	E0637.2		6600	E0721		6837	E0793		7052
E0601.05		6394	E0637.6		6596	E0726		6852	E0793.4		7048
E0602		6408	E0642		6604	E0727		6856	E0794		7056
E0603		6404	E0643		6608	E0729		6844	E0795		7060
E0603.7		6401	E0644		6616	E0730		6848	E0795.5		7064
E0603.71		6402	E0646		6612	E0732		6849	E0796		7068
E0604		6396	E0654		6620	E0734		6860	E0796.8		7070
E0604.1		6400	E0655		6633	E0739		6864	E0797		7072
E0604.5		6454	E0655.5		6634	E0739.1		6868	E0797.8		7074
E0605		6450	E0656		6624	E0740		6872	E0798		7076
E0605.2		6452	E0657		6632	E0740.2		6876	E0798.4		7080
E0605.4		6453	E0660		6628	E0740.4		6880	E0798.6		7082
E0606.2		6464	E0662		6636	E0741		6884	E0799		7084
E0606.8		6456	E0666		6644	E0741.2		6835.5	E0799.4		7088
E0606.9		6460	E0667		6648	E0741.6		6835	E0800		7096
E0606.95		6465	E0668		6652	E0741.7		6835.1	E0801		7092
E0606.98		6466	E0674		6656	E0741.8		6834	E0803		7100
E0607		6468	E0676		6660	E0742		6840	E0804		7104
E0607.2		6472	E0677		6668	E0744		6888	E0805		7108
E0608		6480	E0678		6664	E0744.2		6889	E0806		7112
E0609		6488	E0678.5		6662	E0744.3		6890	E0808		7116
E0609.1		6492	E0679		6672	E0746		6892	E0809		7106
E0609.4		6496	E0680		6688	E0748		6896	E0810		7120
E0609.41		6500	E0681		6674	E0748.5		6898	E0810.4		7122
E0609.5		6484	E0682		6676	E0749		6900	E0811		7124
E0609.6		6485	E0682.5		6678	E0750		6904	E0812.2		7128
E0609.8		6486	E0683		6684	E0751		6908	E0814		7132
E0610		6504	E0684		6680	E0752		6912	E0818		7136
E0610.2		6508	E0685		6692	E0753		6916	E0818.6		7160
E0610.3		6509	E0686		6700	E0754		6920	E0818.7		7164
E0610.4		6510	E0687		6696	E0754.6		6928	E0819		7140
E0610.5		6512	E0690		6704	E0755.6		6940	E0819.6		7144
E0610.6		6516	E0693		6716	E0756		6944	E0821		7168
E0610.65		6517.1	E0693.3		6712	E0757		6948	E0822		7184

## CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0823	.....	7188	E0905	.....	8034	E0995.4	.....	8737	E1059	.....	8520
E0824	.....	7192	E0906	.....	8032	E0995.42	.....	8738	E1059.2	.....	8516
E0824.2	.....	7196	E0908	.....	8008	E0996	.....	8744	E1063	.....	8512
E0825	.....	7200	E0910	.....	8012	E0998	.....	8736	E1064	.....	8508
E0826	.....	7204	E0912	.....	8021	E0998.6	.....	8736.5	E1065	.....	8528
E0828	.....	7216	E0913	.....	8020	E1000	.....	8732	E1065.6	.....	8505
E0830	.....	7208	E0914	.....	8024	E1002	.....	8724	E1065.61	.....	8503.25
E0831	.....	7210	E0915	.....	8028	E1003	.....	8728	E1065.615	.....	8503.45
E0832	.....	7212	E0915.2	.....	8038	E1004	.....	8720	E1065.62	.....	8503.2
E0833	.....	7220	E0915.4	.....	8038.5	E1005	.....	8696	E1065.625	.....	8503.4
E0835	.....	7226	E0916	.....	8040	E1005.4	.....	8692	E1065.63	.....	8503.65
E0836	.....	7224	E0918	.....	8044	E1006	.....	8700	E1065.64	.....	8503.6
E0836.2	.....	7228	E0919	.....	8048	E1006.1	.....	8704	E1065.67	.....	8503.85
E0838	.....	7232	E0920	.....	8052	E1007	.....	8708	E1065.68	.....	8503.8
E0838.4	.....	7256	E0922	.....	8056	E1007.3	.....	8712	E1066	.....	8488
E0838.42	.....	7260	E0923	.....	8060	E1008	.....	8716	E1066.2	.....	8492
E0838.44	.....	7264	E0924	.....	8064	E1008.4	.....	8684	E1066.24	.....	8476
E0839	.....	7244	E0926	.....	8068	E1008.5	.....	8686	E1066.26	.....	8480
E0839.2	.....	7248	E0928	.....	8072	E1008.7	.....	8688	E1066.28	.....	8484
E0843	.....	7240	E0930	.....	8076	E1009	.....	8672	E1066.7	.....	8464
E0844	.....	7236	E0932	.....	8084	E1009.2	.....	8676	E1066.71	.....	8468
E0848	.....	7268	E0933	.....	8092	E1009.4	.....	8680	E1067	.....	8456
E0849	.....	7272	E0933.2	.....	8096	E1009.5	.....	8671	E1070	.....	8452
E0850	.....	7276	E0934	.....	8088	E1009.56	.....	8669	E1071	.....	8449.1
E0852	.....	8100	E0935	.....	8080	E1009.6	.....	8669.5	E1071.2	.....	8449
E0853	.....	8098	E0936	.....	8200	E1009.62	.....	8670	E1072	.....	8448
E0854	.....	8104	E0937	.....	8204	E1009.65	.....	8665	E1073	.....	8445
E0855	.....	8108	E0937.1	.....	8204.1	E1009.7	.....	8668	E1073.1	.....	8446
E0856	.....	8112	E0938	.....	8208	E1009.8	.....	8666	E1074	.....	8436
E0858	.....	8120	E0940	.....	8196	E1010	.....	8664	E1080	.....	8440
E0860	.....	8124	E0942	.....	8188	E1012.2	.....	8648	E1081	.....	8438
E0861	.....	8116	E0946	.....	8192	E1012.4	.....	8649	E1081.5	.....	8438.5
E0862	.....	8110	E0950	.....	8836	E1013.5	.....	8656	E1082	.....	8439
E0862.6	.....	8110.5	E0951	.....	8848	E1013.6	.....	8660	E1082.2	.....	8439.5
E0863	.....	8132	E0953	.....	8824	E1013.8	.....	8612	E1084	.....	8444
E0864	.....	8136	E0955	.....	8766	E1014	.....	8616	E1085	.....	8444.5
E0865	.....	8137	E0957	.....	8768	E1019	.....	8624	E1086	.....	8428
E0865.2	.....	8138	E0957.1	.....	8772	E1020	.....	8632	E1090	.....	8432
E0866	.....	8148	E0958	.....	8828	E1025	.....	8640	E1092	.....	8416
E0866.4	.....	8152	E0958.2	.....	8829	E1028	.....	8600	E1093	.....	8388
E0867	.....	8156	E0960	.....	8760	E1028.4	.....	8604	E1093.1	.....	8392
E0869	.....	8160	E0960.1	.....	8761	E1028.6	.....	8608	E1093.5	.....	8418
E0870	.....	8168	E0961	.....	8784	E1029	.....	8592	E1093.6	.....	8419
E0870.3	.....	8164	E0962	.....	8780	E1029.2	.....	8596	E1094	.....	8412
E0870.6	.....	8172	E0962.4	.....	8776	E1030	.....	8588	E1094.1	.....	8414
E0870.8	.....	8176	E0963	.....	8788	E1031	.....	8580	E1095	.....	8400
E0871.5	.....	8180	E0964	.....	8792	E1031.2	.....	8584	E1096	.....	8396
E0872	.....	7948	E0966	.....	8756	E1032	.....	8564	E1096.5	.....	8419.5
E0874	.....	7952	E0968	.....	8764	E1033	.....	8569	E1096.6	.....	8419.75
E0874.5	.....	7950	E0972	.....	8796	E1034	.....	8568	E1098	.....	8420
E0875	.....	7960	E0974	.....	8804	E1036	.....	8572	E1098.4	.....	8424
E0876	.....	7944	E0975	.....	8805	E1042	.....	8560	E1098.6	.....	8426
E0878	.....	7964	E0980	.....	8816	E1042.1	.....	8544	E1099	.....	8364
E0882	.....	7976	E0980.1	.....	8820	E1043	.....	8548	E1099.2	.....	8363.5
E0886	.....	7968	E0984	.....	8840	E1044	.....	8556	E1099.5	.....	8363
E0888	.....	7980	E0988	.....	8832	E1048	.....	8552	E1100	.....	8370
E0889	.....	7986	E0990	.....	8833	E1049	.....	8550	E1100.04	.....	8371
E0890	.....	7984	E0990.2	.....	8834	E1053	.....	8536	E1100.6	.....	8374
E0894	.....	7988	E0990.4	.....	8835.5	E1053.2	.....	8540	E1100.8	.....	8376
E0896	.....	7992	E0990.6	.....	8835	E1054	.....	8532	E1101	.....	8380
E0898	.....	7996	E0991	.....	8752	E1056	.....	8501	E1103	.....	8360
E0899	.....	8000	E0992	.....	8748	E1056.2	.....	8500	E1103.2	.....	8362
E0899.2	.....	8001	E0993	.....	8753	E1057	.....	8502	E1103.24	.....	8358
E0900	.....	8004	E0994	.....	8740	E1057.4	.....	8503	E1104	.....	8356
E0902	.....	8036	E0995	.....	8742	E1058	.....	8524	E1104.2	.....	8353

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1105.2		8344	E1180		7440	E1270.2		7816	E1403		.8876
E1106		8324	E1181.9		7472	E1274		7820	E1408		.8888
E1107.2		8332	E1182		7476	E1278		7808	E1409		.8890
E1107.6		8336	E1182.3		7416	E1280		7804	E1410		.8892
E1108		8320	E1185		7448	E1280.2		7800	E1412		.8896
E1111		8316	E1185.2		7452	E1281		7796	E1414		.8916
E1112		8312	E1186.1		7460	E1281.2		7792	E1415		.8900
E1116.4		8308	E1188		7484	E1282.2		7789	E1416.5		.8904
E1116.5		8309	E1193		7490	E1282.4		7790	E1417		.8920
E1117		8286	E1193.5		7492	E1283		7788	E1417.2		.8924
E1117.2		8288	E1196		7500	E1284		7784	E1423		.8932
E1119		8296	E1197		7496	E1285		7780	E1424		.8928
E1120		8300	E1198		7504	E1285.2		7772	E1428		.8936
E1122		8284	E1199		7508	E1285.4		7776	E1428.2		.8935
E1122.6		8285	E1201		7516	E1290		7764	E1429		.8934
E1124		8276	E1201.3		7520	E1292		7760	E1432		.8948
E1126		8280	E1202		7528	E1292.6		7760.2	E1434		.8944
E1130		8212	E1202.2		7533	E1292.7		7760.4	E1436		.8940
E1132		8268	E1202.4		7532	E1292.75		7760.8	E1438		.8952
E1133		8266	E1202.6		7524	E1292.8		7760.6	E1439		.8956
E1133.5		8265	E1206		7568	E1300		7732	E1440		.8960
E1134		8264	E1208		7544	E1302		7736	E1441		.8964
E1134.4		8264.5	E1208.2		7556	E1304		7740	E1444		.8884
E1135		8262	E1208.6		7560	E1312		7744	E1446		.8992
E1136.32		8244	E1208.8		7564	E1312.1		7748	E1448		.8968
E1136.4		8249	E1212		7540	E1318		7756	E1450		.8972
E1136.41		8249.1	E1215		7608	E1319		7752	E1454		.8976
E1136.5		8250	E1216		7596	E1323		7728	E1455		.8996
E1136.51		8250.1	E1217		7592	E1324		7824	E1456		.9000
E1136.55		8252	E1218		7576	E1328		7832	E1456.3		.9014
E1136.6		8248	E1219		7580	E1328.5		7833	E1457		.9008
E1136.8		8236	E1220		7584	E1329		7836	E1458		.9004
E1138		8216	E1221		7585	E1330		7840	E1459		.9012
E1139		8224	E1225		7600	E1330.4		7844	E1460		.9016
E1140		8220	E1226		7604	E1331		7848	E1461		.9020
E1147		7280	E1230		7612	E1334		7852	E1462		.9024
E1147.4		7284	E1233		7620	E1340		7856	E1466		.9032
E1147.6		7288	E1236		7624	E1341		7864	E1466.2		.9036
E1149		7292	E1237		7632	E1342		7860	E1466.4		.9040
E1149.05		7294	E1238		7628	E1347.25		7868	E1468		.9044
E1149.08		7300	E1240.7		7646	E1347.6		7870	E1470		.9048
E1149.2		7296	E1244		7636	E1347.8		7872	E1474		.9056
E1150.4		7304	E1246		7640	E1348		7876	E1476		.9060
E1150.6		7308	E1248		7644	E1348.5		7874	E1477.5		.9068
E1152		7316	E1254		7648	E1356		7892	E1480		.9076
E1156		7320	E1255		7660	E1358		7880	E1481		.9088
E1157		7328	E1255.5		7652	E1359		7882	E1482		.9084
E1158		7332	E1256		7657	E1360		7896	E1483		.9080
E1160		7336	E1256.2		7656	E1368		7888	E1486		.9092
E1162		7340	E1257		7664	E1370		7884	E1488		.9096
E1164		7344	E1257.2		7668	E1374		7924	E1490		.9100
E1166		7348	E1257.4		7672	E1376.2		7912	E1492		.9104
E1166.2		7352	E1257.7		7676	E1380		7920	E1496		.9108
E1168		7356	E1257.8		7680	E1380.2		7928	E1500		.9112
E1169		7360	E1257.9		7684	E1380.4		7932	E1502		.9116
E1170		7364	E1258		7692	E1381		7936	E1503		.9120
E1171		7368	E1262		7696	E1382		7940	E1504		.9124
E1171.4		7380	E1263		7708	E1384		8980	E1504.4		.9128
E1171.5		7384	E1265		7700	E1388.4		8984	E1505		.9137.5
E1171.6		7388	E1265.4		7704	E1390		8988	E1505.2		.9137
E1171.7		7392	E1267.2		7709	E1392		8852	E1506		.9136
E1171.8		7395	E1267.5		7721	E1394		8856	E1506.2		.9138
E1172		7396	E1268		7720	E1396		8860	E1506.5		.9138.5
E1172.8		7400	E1269		7724	E1400		8864	E1508		.9132
E1175.1		7408	E1270		7812	E1401		8872	E1509.5		.9141

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1509.55		9140.2	E1620		9380	E1733.5		9624	E1806		.9784
E1509.8		9140.1	E1622		9384	E1734		9626	E1809		.9788
E1510		9140	E1623		9388	E1734.3		9627	E1810		.9785
E1513		9152	E1625		9390	E1735		9632	E1810.1		.9785.1
E1514		9148	E1626		9404	E1737		9628	E1810.2		.9786
E1518		9156	E1626.2		9408	E1738		9636	E1810.21		.9786.1
E1518.2		9153	E1626.4		9412	E1739		9640	E1813		.9766
E1518.5		9154	E1626.6		9416	E1739.2		9644	E1814		.9768
E1518.7		9154.5	E1628.4		9400	E1739.4		9648	E1816		.9772
E1519		9160	E1628.5		9417	E1739.7		9650	E1817		.9776
E1519.4		9164	E1628.6		9418	E1739.8		9650.1	E1818		.9780
E1524		9168	E1628.7		9420	E1740		9652	E1820.5		.9782
E1526		9180	E1629		9424	E1741		9656	E1821		.10434
E1526.3		9172	E1629.4		9428	E1742		9660	E1822		.10436
E1538		9192	E1631		9432	E1743		9661	E1823		.10440
E1540.5		9196	E1632		9436	E1743.2		9662	E1824		.10442
E1541		9200	E1634		9444	E1746		9664	E1826		.10432
E1541.2		9208	E1636		9440	E1747		9668	E1827		.10428
E1541.3		9204	E1646		9475	E1747.2		9674	E1828		.10400
E1541.6		9212	E1647.5		9465	E1747.3		9672	E1830		.10420
E1542		9244	E1648		9464	E1750		9676	E1831		.10424
E1550		9248	E1650		9476	E1752		9680	E1832.5		.10422
E1551		9252	E1652		9452	E1756		9684	E1836		.10396
E1552		9256	E1653		9456	E1756.5		9688	E1838		.10392
E1554		9260	E1654		9460	E1757		9692	E1846		.10328
E1558		9264	E1658		9480	E1758		9696	E1846.1		.10332
E1560		9268	E1662		9484	E1760		9700	E1847		.10320
E1562		9272	E1663		9492	E1762		9704	E1848		.10324
E1564		9276	E1664		9488	E1763		9704.5	E1849		.10336
E1565		9280	E1667		9500	E1763.2		9704.7	E1849.4		.10337
E1565.1		9284	E1678		9516	E1763.35		9704.6	E1849.6		.10338
E1566		9288	E1679		9520	E1764		9705	E1850		.10340
E1568		9294	E1680		9524	E1764.1		9705.1	E1852		.10352
E1570		9296	E1681		9528	E1764.3		9706	E1852.5		.10354
E1570.2		9300	E1683		9539.1	E1764.31		9706.7	E1852.6		.10355
E1572		9308	E1683.5		9539	E1766		9708	E1854		.10364
E1573		9304	E1683.8		9537	E1769		9716	E1855		.10368
E1574		9310	E1684		9536	E1770		9720	E1855.2		.10372
E1575.5		9312	E1685		9532	E1772		9724	E1856		.10376
E1576		9220	E1687		9538	E1773		9728	E1856.5		.10378
E1577		9216	E1688		9539.5	E1773.6		9732	E1857		.10380
E1580		9228	E1688.5		9539.2	E1776		9736	E1857.4		.10384
E1582		9240	E1692		9540	E1777		9740	E1858		.10386
E1583		9236	E1692.5		9550	E1780		9744	E1858.1		.10387
E1584		9232	E1693		9544	E1780.5		9748	E1858.2		.10388
E1588		9224	E1693.9		9546	E1780.6		9752	E1858.3		.10389
E1592		9320	E1694		9548	E1780.7		9756	E1858.4		.10390
E1594		9324	E1695		9552	E1780.8		9760	E1858.6		.10391
E1595		9326	E1695.6		9554	E1781		9764	E1859		.10316
E1598		9328	E1696		9556	E1782		10580	E1860		.10308
E1600		9332	E1698		9560	E1784		9847	E1861		.10306
E1600.5		9333	E1700		9564	E1785		9846	E1861.5		.10305
E1606		9340	E1702		9568	E1786		9824	E1861.8		.10282
E1606.2		9341	E1706		9572	E1786.3		9825	E1862		.10276
E1608		9344	E1708		9576	E1786.5		9826	E1862.4		.10280
E1610		9348	E1710		9580	E1788		9828	E1862.5		.10284
E1612		9352	E1711		9584	E1790		9832	E1862.51		.10288
E1614		9356	E1716		9588	E1792		9836	E1862.59		.10292
E1614.3		9360	E1718		9592	E1792.7		9830	E1862.6		.10296
E1615		9362	E1720		9596	E1793		9838	E1862.61		.10300
E1615.2		9363	E1722		9600	E1796		9852	E1862.8		.10304
E1616		9368	E1730		9604	E1798		9848	E1862.9		.10304.5
E1617		9372	E1730.2		9612	E1800		9840	E1864		.10268
E1618		9364	E1730.4		9616	E1801		9845	E1865		.10272
E1619		9376	E1733		9620	E1802		9844	E1865.5		.10250

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1866	.....	10248	E1979.2	.....	10060	E2092	.....	10452	E2172.2	.....	10765
E1867	.....	10244	E1982	.....	10040	E2094	.....	10480	E2173	.....	10772
E1868	.....	10252	E1986	.....	9988	E2096	.....	10496	E2174	.....	10776
E1868.1	.....	10256	E1987	.....	9992	E2098	.....	10500	E2174.4	.....	10778
E1870	.....	10260	E1988	.....	9996	E2106	.....	10492	E2176	.....	10780
E1876	.....	10240	E1990	.....	9984	E2107	.....	10484	E2177	.....	10784
E1877	.....	10241	E1992	.....	9968	E2108	.....	10584	E2177.5	.....	10786
E1877.5	.....	10242	E1993	.....	9980	E2109	.....	10588	E2178	.....	10788
E1877.8	.....	10238	E1993.5	.....	9972	E2112	.....	10596	E2182	.....	10792
E1878	.....	10236	E1993.54	.....	9952	E2118	.....	10600	E2186	.....	10796
E1879	.....	10232	E1993.6	.....	9976	E2120	.....	10620	E2188	.....	10800
E1880	.....	10230	E1994	.....	9940	E2121	.....	10616	E2190.5	.....	10804
E1882	.....	10224	E1996	.....	9956	E2121.5	.....	10612	E2192	.....	10808
E1884	.....	10228	E1997	.....	9960	E2122	.....	10604	E2194	.....	10812
E1885	.....	10216	E2000	.....	9964	E2123	.....	10608	E2196	.....	10816
E1886	.....	10212	E2004	.....	9936	E2128	.....	10624	E2198	.....	10822.5
E1888	.....	10208	E2005	.....	9924	E2130.5	.....	10630	E2200	.....	10823
E1889.05	.....	10196	E2008	.....	9908	E2130.6	.....	10631	E2202	.....	10823.5
E1894	.....	10188	E2010	.....	9914	E2130.61	.....	10631.1	E2203	.....	10830
E1896	.....	10184	E2011	.....	9917	E2131	.....	10632	E2203.5	.....	10828
E1898	.....	10180	E2012	.....	9917.5	E2131.2	.....	10636	E2204	.....	10824
E1900	.....	10172	E2012.3	.....	9918	E2132	.....	10640	E2208	.....	10822
E1900.2	.....	10168	E2013	.....	9910	E2133	.....	10642	E2210	.....	10836
E1900.4	.....	10164	E2014	.....	9912	E2134	.....	10644	E2212	.....	10832
E1900.6	.....	10160	E2019	.....	9916	E2137	.....	10646	E2214	.....	10844
E1902	.....	10152	E2023	.....	9900	E2138	.....	10648	E2216	.....	10840
E1902.2	.....	10156	E2024	.....	9890	E2142.3	.....	10650	E2217	.....	10848
E1904	.....	10128	E2025	.....	9892	E2142.4	.....	10656	E2217.5	.....	10852
E1905	.....	10144	E2026	.....	9896	E2142.5	.....	10660	E2222	.....	10856
E1906	.....	10136	E2030	.....	9876	E2142.6	.....	10664	E2223	.....	10860
E1907	.....	10137	E2035	.....	9868	E2142.8	.....	10722	E2223.4	.....	10864
E1908	.....	10132	E2035.2	.....	9870	E2142.9	.....	10748	E2224	.....	10868
E1912	.....	10140	E2036	.....	9860	E2142.92	.....	10744	E2226	.....	10872
E1912.5	.....	10138	E2038	.....	9856	E2143	.....	10672	E2228	.....	10876
E1916	.....	10120	E2042	.....	9796	E2143.2	.....	10676	E2228.5	.....	10880
E1918	.....	10116	E2044	.....	9800	E2144	.....	10677	E2230	.....	10884
E1920	.....	10124	E2044.2	.....	9808	E2144.4	.....	10708	E2230.4	.....	10886
E1922	.....	10112	E2044.4	.....	9812	E2144.42	.....	10710	E2231	.....	10888
E1926	.....	10096	E2045	.....	9816	E2144.43	.....	10712	E2232	.....	10892
E1926.2	.....	10100	E2045.3	.....	9820	E2144.44	.....	10716	E2233	.....	10896
E1927	.....	10104	E2045.4	.....	9804	E2144.45	.....	10720	E2234	.....	10908
E1928	.....	10108	E2046	.....	9792	E2144.47	.....	10718	E2236	.....	10900
E1928.5	.....	10094	E2050	.....	10504	E2144.48	.....	10719	E2238	.....	10920
E1930	.....	10092	E2051	.....	10508	E2144.5	.....	10724	E2240	.....	10916
E1932	.....	10080	E2051.2	.....	10512	E2145	.....	10700	E2241	.....	10904
E1932.5	.....	10082	E2054	.....	10516	E2145.2	.....	10702	E2242	.....	10928
E1933	.....	10084	E2055.5	.....	10524	E2146	.....	10704	E2243	.....	10924
E1938	.....	10076	E2056	.....	10524.1	E2150	.....	10680	E2244	.....	10932
E1938.3	.....	10078	E2057	.....	10526	E2150.1	.....	10684	E2246	.....	10936
E1940	.....	10064	E2058	.....	10528	E2152	.....	10688	E2246.2	.....	10940
E1942	.....	10068	E2061.5	.....	10544	E2152.1	.....	10689	E2247	.....	10944
E1944	.....	10072	E2062	.....	10548	E2153	.....	10696	E2247.3	.....	10948
E1947.5	.....	10018	E2064	.....	10552	E2156	.....	10695	E2248	.....	10952
E1948	.....	10016	E2068	.....	10560	E2156.6	.....	10695.5	E2250	.....	10960
E1949	.....	10024	E2070	.....	10564	E2158.4	.....	10694	E2252	.....	10956
E1950	.....	10028	E2070.6	.....	10565	E2158.6	.....	10690	E2254	.....	10964
E1952	.....	10020	E2076	.....	10572	E2162	.....	10728	E2258	.....	10968
E1956	.....	10004	E2080	.....	10472	E2162.2	.....	10732	E2260	.....	10976
E1958	.....	10012	E2082	.....	10468	E2162.4	.....	10736	E2261	.....	10972
E1960	.....	10008	E2084	.....	10476	E2162.6	.....	10740	E2262	.....	10980
E1962	.....	10000	E2086	.....	10464	E2164	.....	10752	E2263.5	.....	10992
E1966	.....	10032	E2088	.....	10444	E2164.1	.....	10756	E2264	.....	10984
E1968	.....	10036	E2089	.....	10448	E2168	.....	10760	E2266	.....	10988
E1970	.....	10044	E2090	.....	10460	E2170	.....	10768	E2268	.....	10996
E1978	.....	10052	E2091	.....	10456	E2172	.....	10764	E2274.4	.....	11000

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E2274.6		11004	E2362		11280	E2489		11544	E2603		11776
E2275		11008	E2364		11284	E2490		11540	E2604		11800
E2276		11012	E2366		11288	E2490.8		11545	E2605		11808
E2277		11016	E2368		11292	E2491		11546	E2607		11812
E2278		11020	E2372		11296	E2492		11548	E2608		11814
E2281		11024	E2374		11300	E2504		11556	E2611.5		11816
E2282		11028	E2376		11304	E2504.2		11557	E2611.7		11817
E2284		11032	E2381		11308	E2505.1		11558	E2611.71		11817.5
E2286		11036	E2382		11312	E2506		11560	E2612		11832
E2288		11040	E2384		11316	E2506.4		11564	E2612.2		11828
E2288.4		11044	E2388		11317	E2508		11568	E2613		11820
E2294		11076	E2388.2		11318	E2518		11572	E2613.3		11820.3
E2296		11064	E2390		11320	E2519.5		11574	E2613.5		11820.5
E2297		11072	E2393		11336	E2520		11580	E2618		11836
E2298		11068	E2394		11324	E2520.4		11584	E2620		11840
E2300		11060	E2396		11328	E2520.5		11588	E2622		11844
E2303		11080	E2397		11332	E2521		11576	E2624		11848
E2304		11084	E2404		11340	E2524		11592	E2628		11856
E2304.2		11088	E2405		11344	E2524.3		11604	E2630		11852
E2305		11092	E2406		11348	E2524.5		11600	E2632		11860
E2306		11100	E2411		11352	E2524.7		11596	E2634		11864
E2307		11104	E2412		11360	E2525.7		11608	E2642		11868
E2307.2		11108	E2413		11356	E2526		11612	E2642.5		11869
E2307.5		11112	E2417.8		11380	E2528		11616	E2643		11870
E2307.7		11120	E2417.9		11375	E2530		11620	E2644		11872
E2308		11124	E2418		11376	E2534		11624	E2646		11876
E2312		11128	E2419		11384	E2536		11628	E2648		11880
E2313		11132	E2420		11388	E2537.5		11630	E2649		11884
E2314		11140	E2421		11392	E2538		11632	E2652		11888
E2315		11136	E2422		11396	E2540		11634	E2654		11892
E2315.1		11138	E2426		11400	E2543		11635	E2655		11896
E2315.6		11142	E2428		11404	E2544		11636	E2656		11900
E2315.7		11143	E2430		11408	E2547		11648	E2658		11904
E2315.72		11143.5	E2432		11424	E2548		11644	E2660		11905
E2316		11145	E2433		11420	E2550		11652	E2660.2		11906
E2316.35		11146	E2434		11428	E2551		11656	E2662		11908
E2319		11151	E2440		11436	E2553		11660	E2663		11912
E2320		11152	E2441		11438	E2554		11664	E2664		11914
E2324		11156	E2443		11448	E2555		11668	E2665		11920
E2326		11164	E2443.3		11449	E2556		11670	E2668		11928
E2326.2		11168	E2444.7		11451	E2557		11706	E2669		11926
E2332		11176	E2450		11452	E2558		11676	E2670		11924
E2333		11180	E2451		11456	E2560		11680	E2670.2		11925
E2334		11184	E2452		11460	E2561		11684	E2672		11932
E2335		11172	E2453		11464	E2562		11688	E2674		11936
E2336		11188	E2458		11476	E2565		11700	E2676		11940
E2337		11190	E2462		11480	E2568		11696	E2680		11944
E2337.2		11192	E2463		11490	E2576		11708	E2682		11956
E2337.6		11208	E2464		11488	E2578		11712	E2684		11948
E2338		11200	E2464.4		11492	E2580		11724	E2690		11960
E2338.2		11204	E2465		11484	E2582		11728	E2692		11972
E2339		11196	E2466		11500	E2586		11732	E2694		11980
E2343		11214	E2467		11496	E2587		11736	E2696		11976
E2344		11216	E2468		11504	E2588		11716	E2700		11988
E2346		11224	E2480		11516	E2588.2		11717	E2706		11992
E2346.5		11225	E2481		11508	E2593		11748	E2710		11996
E2346.7		11226	E2484		11520	E2595		11792	E2712		11968
E2347		11228	E2485		11532	E2596		11796	E2718		12000
E2348		11232	E2486		11524	E2597		11764	E2720		12004
E2349		11220	E2486.1		11528	E2597.2		11768	E2721		12008
E2350		11236	E2488		11536	E2598		11760	E2721.2		12012
E2352		11248	E2488.4		11530	E2601		11756	E2724		12016
E2354		11264	E2488.5		11531	E2601.4		11772	E2726		12020
E2358		11276	E2488.7		11534	E2602		11788	E2727		12032
E2359		11268	E2488.8		11535	E2602.2		11784	E2728		12024

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E2734	.....	12036	E2857	.....	12356	E2960	.....	12708	E3072	.....	12816
E2735	.....	12037	E2862	.....	12360	E2961	.....	12724	E3075	.....	12648
E2738	.....	12040	E2863	.....	12532	E2962	.....	12712	E3077	.....	12656
E2738.2	.....	12052	E2864	.....	12536	E2964	.....	12728	E3078	.....	12660
E2742	.....	12048	E2864.1	.....	12540	E2966	.....	12732	E3080	.....	12664
E2744	.....	12116	E2866	.....	12528	E2970	.....	12736	E3081	.....	12824
E2748	.....	12056	E2867	.....	12524	E2971	.....	12744	E3082	.....	12668
E2749	.....	12058	E2869	.....	12512	E2972	.....	12740	E3083	.....	12676
E2750	.....	12060	E2870	.....	12508	E2972.5	.....	12749	E3084	.....	12672
E2750.3	.....	12154	E2870.4	.....	12504	E2973	.....	12748	E3086	.....	12684
E2751	.....	12064	E2871	.....	12194	E2973.1	.....	12752	E3087	.....	12680
E2752	.....	12120	E2872	.....	12472	E2973.3	.....	12756	E3087.4	.....	12720
E2754	.....	12124	E2873	.....	12196	E2973.4	.....	12760	E3088	.....	12716
E2756	.....	12128	E2874	.....	12496	E2973.6	.....	12764	E3089	.....	12826
E2758	.....	12140	E2876	.....	12500	E2974	.....	12768	E3090	.....	12828
E2759	.....	12144	E2880	.....	12488	E2974.3	.....	12767	E3090.5	.....	12835
E2760	.....	12132	E2882	.....	12492	E2975	.....	12588	E3092	.....	12832
E2761	.....	12136	E2884	.....	12484	E2976	.....	12592	E3093	.....	12836
E2762	.....	12148	E2885	.....	12473	E2977	.....	12594	E3094.4	.....	12844
E2764	.....	12152	E2886	.....	12468	E2978	.....	12596	E3095	.....	12856
E2768	.....	12068	E2886.4	.....	12464	E2982	.....	12600	E3096	.....	12852
E2769	.....	12072	E2887	.....	12460	E2984	.....	12608	E3097	.....	12860
E2770	.....	12076	E2888	.....	12544	E2986	.....	12612	E3097.4	.....	12848
E2772	.....	12080	E2890	.....	12364	E2988	.....	12624	E3098	.....	12864
E2773	.....	12084	E2892	.....	12368	E2992	.....	12620	E3099	.....	12868
E2774	.....	12088	E2894	.....	12376	E2994	.....	12616	E3099.5	.....	12870
E2776	.....	12092	E2895	.....	12380	E2995	.....	12604	E3100	.....	12876
E2780	.....	12096	E2896	.....	12384	E2995.6	.....	12640	E3106	.....	12908
E2781	.....	12099	E2898	.....	12392	E2995.8	.....	12647	E3106.4	.....	12952
E2782	.....	12100	E2899	.....	12396	E2997	.....	12644	E3107	.....	12912
E2783	.....	12102	E2900	.....	12400	E2998	.....	12632	E3107.2	.....	12916
E2784	.....	12156	E2901	.....	12408	E3002	.....	12332	E3107.5	.....	12918
E2788	.....	12164	E2902	.....	12404	E3004	.....	12328	E3108	.....	12920
E2792	.....	12160	E2903.3	.....	12428	E3006	.....	12324	E3110	.....	12924
E2794	.....	12104	E2904	.....	12476	E3008	.....	12320	E3112	.....	12928
E2798	.....	12108	E2905	.....	12480	E3012	.....	12316	E3115	.....	12932
E2798.2	.....	12110	E2906	.....	12388	E3014	.....	12312	E3116	.....	12936
E2799	.....	12112	E2908	.....	12412	E3015	.....	12310	E3116.2	.....	12940
E2799.2	.....	12180	E2910	.....	12416	E3016	.....	12308	E3116.3	.....	12938
E2799.4	.....	12176	E2913	.....	12424	E3019	.....	12304	E3116.4	.....	12944
E2799.6	.....	12184	E2916	.....	12432	E3022	.....	12280	E3117	.....	12948
E2801	.....	12188	E2922	.....	12444	E3023	.....	12284	E3118	.....	12950
E2802	.....	12172	E2923	.....	12436	E3024	.....	12288	E3119	.....	12888
E2804	.....	12200	E2926	.....	12448	E3026	.....	12292	E3120	.....	12884
E2810	.....	12204	E2928	.....	12452	E3028	.....	12296	E3121	.....	12922
E2816	.....	12212	E2931	.....	12458	E3029	.....	12300	E3121.3	.....	12877
E2817	.....	12216	E2937	.....	12547	E3032	.....	12276	E3121.5	.....	12878
E2818	.....	12220	E2938	.....	12568	E3034	.....	12268	E3121.7	.....	12879
E2820	.....	12224	E2940	.....	12548	E3035	.....	12270	E3122	.....	12880
E2822	.....	12228	E2941	.....	12552	E3036	.....	12260	E3124	.....	12892
E2824	.....	12240	E2942	.....	12556	E3038	.....	12264	E3127	.....	12897
E2828	.....	12244	E2942.3	.....	12558	E3042	.....	12272	E3127.4	.....	12898
E2829	.....	12226	E2942.4	.....	12560	E3043	.....	12273	E3131	.....	12902
E2830	.....	12232	E2942.5	.....	12564	E3044	.....	12772	E3132	.....	12904
E2830.5	.....	12234	E2943	.....	12576	E3046	.....	12780	E3132.3	.....	12906
E2840	.....	12252	E2943.9	.....	12578	E3048	.....	12784	E3132.5	.....	12875.5
E2842	.....	12248	E2944	.....	12580	E3050	.....	12788	E3132.8	.....	12875
E2843	.....	12254	E2945	.....	12646.5	E3052	.....	12800	E3133	.....	12874.5
E2844	.....	12256	E2946	.....	12646	E3054	.....	12792	E3133.5	.....	12874
E2844.5	.....	12256.2	E2948	.....	12584	E3058	.....	12796	E3134	.....	12872
E2845.1	.....	12342	E2950	.....	12704	E3060	.....	12804	E3140	.....	12988
E2850	.....	12336	E2951	.....	12696	E3064	.....	12808	E3142	.....	12992
E2854	.....	12348	E2952	.....	12700	E3065	.....	12825	E3144	.....	12996
E2855	.....	12340	E2953	.....	12688	E3066	.....	12812	E3148	.....	13000
E2856	.....	12352	E2954	.....	12692	E3068	.....	12820	E3150	.....	12954



# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3151	.....	12954.5	E3244	.....	13172	E3328.6	.....	13446	E3432	.....	13672
E3152	.....	12956	E3248	.....	13184	E3330	.....	13476	E3434	.....	13676
E3154	.....	12960	E3250	.....	13188	E3331	.....	13428	E3436	.....	13680
E3156	.....	12964	E3251	.....	13192	E3331.2	.....	13427	E3438	.....	13684
E3157	.....	12968	E3252	.....	13200	E3331.5	.....	13370	E3439	.....	13688
E3158	.....	12972	E3256	.....	13196	E3331.9	.....	13509	E3440	.....	13692
E3160	.....	12976	E3258	.....	13212	E3332	.....	13508	E3442	.....	13696
E3164	.....	12980	E3260	.....	13204	E3333	.....	13510	E3443	.....	13700
E3165	.....	12984	E3262	.....	13208	E3334	.....	13512	E3444	.....	13704
E3166	.....	12985	E3263	.....	13216	E3334.5	.....	13514	E3445	.....	13708
E3167	.....	12986	E3264	.....	13220	E3336	.....	13516	E3446	.....	13712
E3167.5	.....	13003	E3265.8	.....	13231	E3338	.....	13520	E3448	.....	13716
E3168	.....	13004	E3266	.....	13224	E3340	.....	13524	E3450	.....	13720
E3172	.....	13010	E3267	.....	13232	E3342	.....	13528	E3451	.....	13724
E3174	.....	13016	E3267.5	.....	13234	E3344	.....	13532	E3452	.....	13900
E3180	.....	13032	E3274	.....	13268	E3346	.....	13536	E3454	.....	13888
E3184	.....	13044	E3275	.....	13260	E3348	.....	13426	E3458	.....	13892
E3185	.....	13052	E3275.5	.....	13264	E3348.2	.....	13425	E3460	.....	13896
E3186	.....	13048	E3276	.....	13256	E3349	.....	13408	E3461	.....	13884
E3188	.....	13056	E3276.6	.....	13258	E3350	.....	13416	E3463	.....	13876
E3191	.....	13058	E3276.7	.....	13259	E3351	.....	13418	E3464	.....	13878
E3193	.....	13060	E3277	.....	13236	E3354	.....	13420	E3470	.....	13832
E3194	.....	13062	E3278	.....	13240	E3356	.....	13424	E3470.5	.....	13834
E3196	.....	13064	E3279	.....	13248	E3356.5	.....	13480	E3471	.....	13836
E3197	.....	13063	E3280	.....	13252	E3357	.....	13478	E3476	.....	13840
E3200	.....	13080	E3282	.....	13316	E3364	.....	13540	E3477	.....	13844
E3202	.....	13076	E3283	.....	13308	E3366	.....	13545	E3478	.....	13848
E3204	.....	13088	E3284	.....	13312	E3366.2	.....	13544	E3479	.....	13852
E3205	.....	13068	E3285	.....	13320	E3368	.....	13548	E3480	.....	13856
E3206	.....	13084	E3285.5	.....	13318	E3370	.....	13552	E3481	.....	13860
E3208	.....	13092	E3285.51	.....	13319	E3376	.....	13492	E3482	.....	13864
E3212	.....	13096	E3286	.....	13324	E3378	.....	13496	E3486	.....	13872
E3214	.....	13072	E3286.5	.....	13322	E3380	.....	13556	E3486.5	.....	13828
E3218	.....	13104	E3287	.....	13336	E3384	.....	13560	E3487	.....	13824
E3219	.....	13124	E3288	.....	13328	E3386	.....	13502	E3488	.....	13820
E3220	.....	13120	E3289	.....	13333	E3387	.....	13504	E3488.5	.....	13814
E3222	.....	13132	E3290	.....	13332	E3388	.....	13580	E3490	.....	13664
E3224	.....	13128	E3291.5	.....	13334	E3390	.....	13584	E3492	.....	13668
E3225	.....	13136	E3292	.....	13340	E3392	.....	13564	E3493	.....	13591
E3225.1	.....	13138	E3292.5	.....	13346	E3393	.....	13586	E3496	.....	13812
E3225.2	.....	13140	E3293	.....	13344	E3394	.....	13588	E3498	.....	13813
E3225.3	.....	13142	E3294	.....	13348	E3395	.....	13590	E3499.2	.....	13750
E3226	.....	13304	E3295	.....	13352	E3396	.....	13568	E3499.5	.....	13748.5
E3226.5	.....	13286	E3295.4	.....	13356	E3398	.....	13572	E3500.5	.....	13732
E3227	.....	13292	E3295.7	.....	13358	E3400	.....	13576	E3501	.....	13736
E3227.7	.....	13298	E3296	.....	13360	E3404	.....	13596	E3501.2	.....	13740
E3228	.....	13300	E3297	.....	13364	E3405	.....	13598	E3501.4	.....	13744
E3228.5	.....	13276	E3298	.....	13368	E3406	.....	13600	E3501.6	.....	13746
E3229	.....	13280	E3299	.....	13372	E3408	.....	13604	E3502	.....	13752
E3229.2	.....	13296	E3299.4	.....	13376	E3409	.....	13608	E3502.2	.....	13756
E3229.5	.....	13272	E3302	.....	13384	E3410	.....	13612	E3516	.....	13764
E3229.7	.....	13284	E3304	.....	13388	E3412	.....	13616	E3520	.....	13808
E3229.75	.....	13143	E3306	.....	13392	E3412.4	.....	13620	E3521	.....	13792
E3229.8	.....	13288	E3314	.....	13400	E3412.6	.....	13624	E3521.3	.....	13796
E3230	.....	13152	E3316.5	.....	13433	E3413	.....	13636	E3521.5	.....	13800
E3230.5	.....	13148	E3318	.....	13434	E3413.1	.....	13638	E3522	.....	13804
E3231	.....	13144	E3320.1	.....	13467	E3414	.....	13632	E3526	.....	13772
E3232	.....	13164	E3323	.....	13448	E3418	.....	13628	E3528	.....	13776
E3232.5	.....	13164.4	E3324	.....	13452	E3419	.....	13642	E3530	.....	13780
E3234	.....	13112	E3325	.....	13464	E3420	.....	13648	E3531	.....	13784
E3236	.....	13168	E3325.4	.....	13472	E3422	.....	13652	E3532	.....	13788
E3238	.....	13160	E3326	.....	13468	E3426	.....	13644	E3535.5	.....	13947
E3240	.....	13156	E3327	.....	13436	E3428	.....	13656	E3536	.....	13948
E3242	.....	13180	E3328	.....	13440	E3431	.....	13660	E3537	.....	13952
E3243	.....	13176	E3328.4	.....	13444	E3431.5	.....	13592	E3537.4	.....	13956

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3537.5		13960	E3648		14128	E6328.2		21741	E6390.42		.21978
E3537.6		13964	E3652		14164	E6330.2		21760	E6390.6		.21979
E3538		13904	E3654		14168	E6332		21764	E6391		.21982
E3544		13912	E3656		14172	E6334		21776	E6392		.21984
E3545		13908	E3658		14180	E6338		21780	E6392.3		.21985
E3546		13932	E3660		14184	E6339		21772	E6392.4		.21985.1
E3548		13920	E3661		14188	E6340		21758	E6394		.21988
E3551		13940	E3662		14192	E6340.5		21805	E6394.2		.21989
E3552		13936	E3663		14200	E6342.4		21804	E6394.4		.21989.1
E3553		13938	E3664		14196	E6344		21784	E6394.5		.21990
E3554		13944	E3666		14204	E6345		21806	E6394.61		.21991
E3554.5		13939	E3674		14212	E6348		21820	E6396		.21996
E3556		13968	E3676		14216	E6349		21821	E6396.5		.22008
E3558		13975	E3678		14220	E6350		21822	E6397		.22002
E3560		13980	E3682		14224	E6352		21812	E6397.5		.22000
E3560.5		13982	E3684		14236	E6352.4		21816	E6399		.22004
E3561		13984	E3685		14240	E6353		21826	E6401		.21995
E3562		13988	E3686		14244	E6353.1		21827	E6410		.22032
E3564		13990	E3688		14248	E6354		21828	E6412		.22040
E3566		13992	E3688.5		14251	E6356		21832	E6413		.22044
E3570		13996	E3689		14256	E6358		21834	E6413.2		.22048
E3575		14000	E3690		14260	E6359		21836	E6414		.22056
E3576		14016	E3691		14268	E6362		21848	E6415		.22060
E3578		14020	E3693		14269	E6362.5		21845	E6415.2		.22062
E3579		14030	E3696		14272	E6362.6		21846	E6416		.22064
E3580		14004	E3698		14276	E6362.7		21847	E6418		.22065
E3582		14008	E3702		14280	E6364		21897	E6418.1		.22066
E3584		14012	E3702.5		14282	E6364.2		21897.2	E6420		.22068
E3586		11052	E3703		14284	E6366.6		21852	E6422		.22076
E3588		11056	E3703.1		14288	E6368		21900	E6423		.22078
E3590		14024	E3704		14292	E6369		21898	E6423.4		.22078.5
E3592		14028	E3705		14296	E6369.2		21899	E6426		.22080
E3595		14032	E3708		14300	E6370		21904	E6428		.22084
E3595.5		14031	E3711		14304	E6371		21908	E6436		.22096
E3596		14036	E3712		14312	E6371.2		21912	E6438		.22100
E3598		14040	E3714		14316	E6371.4		21913	E6440		.22104
E3599		14042	E3714.1		14310	E6372		21916	E6445		.22124
E3600		14044	E3719		14320	E6372.6		21917	E6446		.22120
E3601		14050	E3720		14322	E6372.8		21919	E6454		.22106
E3601.5		14051	E3721		14324	E6373		21925	E6456		.22132
E3601.7		14050.5	E3723		14328	E6373.2		21926	E6458		.22136
E3602		14052	E3725		14332	E6373.22		21924	E6459		.22138
E3602.1		14056	E3726		14336	E6373.6		21921	E6459.1		.22139
E3604		14048	E3726.5		14337	E6373.8		21922	E6459.2		.22140
E3610		14060	E3727		14344	E6374		21932	E6460		.22148
E3613		14068	E3727.6		14346	E6376		21933	E6462		.22152
E3613.7		14076	E3727.7		14347	E6377		21936	E6462.4		.22156
E3614		14088	E3728		14340	E6377.2		21935	E6464		.22144
E3614.5		14084	E3729		14348	E6380		21920	E6465		.22145
E3615		14096	E3729.1		14350	E6381		21940	E6465.2		.22146
E3616		14092	E3729.5		14351	E6381.5		21944	E6482		.22164
E3620		14100	E3731		14360	E6382		21956	E6483		.22166
E3622		14104	E3732		14352	E6384		21952	E6484		.22168
E3623		14108	E3732.5		14338	E6385		21960	E6486		.22176
E3624		14112	E3733		14364	E6385.5		21964	E6490		.22180
E3628		14116	E3734		14368	E6386		21976.5	E6492.4		.22184
E3630		14120	E3734.5		14370	E6386.1		21976.51	E6495		.22192
E3632		14124	E3741		14372	E6387		21972	E6495.2		.22188
E3638		14156	E3742.5		14374	E6387.3		21976	E6504		.22204
E3643		14152	E6327		21738	E6388		21976.3	E6506		.22208
E3644		14144	E6327.4		21744.1	E6388.2		21976.4	E6508		.22212
E3644.5		14142	E6327.41		21744.2	E6389.5		21976.6	E6510		.22216
E3645		14140	E6327.42		21744.3	E6389.6		21976.7	E6512		.22220
E3646		14136	E6327.43		21744.4	E6390		21980	E6514		.22224
E3647		14132	E6328		21740	E6390.4		21977	E6516		.22228

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E6518		22232	E6656.5		22516	E6774		22760	N3795		14491
E6520		22252	E6658		22520	E6776		22768	N3795.6		14490
E6520.2		22256	E6660		22524	E6778		22772	N3795.7		14491.5
E6522		22240	E6661		22536	E6780		22776	N3796		14496
E6523		22248	E6662		22532	E6784		22784	N3800		14500
E6524		22244	E6664		22528	E6784.4		22792	N3804		14504
E6530		22264	E6665.3		22576	E6784.41		22796	N3804.1		14508
E6533		22268	E6665.4		22572	E6784.6		22800	N3806		14512
E6534		22272	E6665.5		22577	E6784.61		22804	N3808		14520
E6538		22276	E6665.6		22578	E6785.2		22808	N3809		14518
E6540		22280	E6669		22548	E6786		22788	N3810		14522
E6542		22284	E6670		22552	E6788		22816	N3811		14524
E6544		22288	E6671		22560	E6789		22820	N3812		14556
E6550		22292	E6671.2		22556	E6789.5		22822	N3814		14548
E6551		22296	E6672		22540	E6820		22828	N3816		14544
E6552		22300	E6674		22580	E6824		22832	N3817		14540
E6558		22308	E6678		22584	E6825		22836	N3818		14542
E6560		22312	E6679		22588	E6830		22838	N3820		14536
E6562		22316	E6679.4		22600	E7010		7536	N3824		14532
E6566		22324	E6680		22592	E7010.5		7538	N3832		14560
E6567		22320	E6682		22596	E7053		9184	N3835		14568
E6572		22328	E6684		22604	E7054		9188	N3836		14572
E6573		22332	E6684.2		22608	E7120		10190	N3840		14580
E6578		22336	E6685		22610	E7470		11260	N3842		14584
E6580		22340	E6685.2		22612	E7471		11256	N3844		14588
E6582		22344	E6687		22616	E7520		11368	N3846		14612
E6584		22348	E6694		22624	E7522		11374	N3848		14614
E6588		22352	E6694.2		22620	E7580		12054	N3850		14592
E6590		22356	E6695		22628	E7581		12054.5	N3852		14596
E6592		22360	E6695.2		22632	E7582		12054.6	N3853		14600
E6593		22362	E6696		22636	E7583		12054.2	N3853.5		14609
E6593.2		22362.2	E6696.2		22640	E7584		12055	N3854		14604
E6593.4		22364	E6700		22644	N3747		14380	N3855		14608
E6594		22368	E6704		22648	N3747.5		14384	N3856		14611
E6596		22372	E6704.1		22652	N3747.7		14385	N3857		14610
E6602		22380	E6704.4		22656	N3748		14388	N3858		14648
E6604		22384	E6704.42		22660	N3749		14390	N3859		14652
E6606		22388	E6704.5		22664	N3750		14392	N3859.5		14654
E6610		22404	E6706.4		22668	N3754		14396	N3860		14656
E6611		22400	E6708		22672	N3754.5		14398	N3861		14660
E6612		22408	E6712		22676	N3755		14414	N3862		14664
E6613		22412	E6714		22684	N3756		14430	N3864		14668
E6616		22416	E6716		22688	N3757		14428	N3866		14644
E6617		22420	E6717		22692	N3760		14416	N3868		14700
E6620		22376	E6718		22696	N3761.7		14417	N3869		14696
E6621		22424	E6720		22700	N3773		14432	N3869.4		14688
E6624		22432	E6722		22708	N3774		14400	N3869.42		14690
E6624.6		22434	E6722.2		22712	N3776		14436	N3869.7		14692
E6628		22440	E6726		22716	N3778		14440	N3870		14684
E6629		22438	E6732		22704	N3779		14444	N3872		14680
E6630		22444	E6752		22732	N3780		14448	N3874		14676
E6631		22448	E6754		22724	N3781		14449	N3876		14672
E6632		22452	E6756		22728	N3781.5		14452	N3880		14720
E6636		22468	E6757		22720	N3782		14456	N3882		14704
E6637		22484	E6757.2		22721	N3783		14460	N3884		14716
E6638		22472	E6757.25		22722	N3784		14464	N3890		14708
E6642		22480	E6757.6		22744	N3784.2		14468	N3892		14712
E6644		22486	E6758		22736	N3785		14472	N3896		14616
E6646		22488	E6762		22740	N3786		14476	N3898		14620
E6648		22500	E6763		22742	N3788		14480	N3900		14624
E6649		22504	E6764		22748	N3791.2		14494	N3901		14625
E6650		22496	E6765		22754	N3792		14484	N3901.2		14626
E6651		22492	E6768		22752	N3794		14488	N3901.5		14627
E6652		22508	E6770		22749	N3794.5		14492	N3902		14628
E6656		22512	E6773		22756	N3794.7		14489	N3903		14630

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N3904		14632	N3988		14737	N4090		15088	N4160.4		15316
N3905		14634	N3989		14736	N4092		15108	N4162		15320
N3906		14636	N3990		14740	N4094		15112	N4163		15346
N3908		14640	N3995.5		14878	N4095		15117	N4163.2		15347
N3910		14744	N3995.6		14879	N4096		15116	N4163.3		15344
N3912		14756	N3995.7		14879.5	N4098		15120	N4163.5		15348
N3916.5		14750	N3995.8		14876.2	N4099		15188	N4163.6		15352
N3918		14752	N3995.85		14876.1	N4100		15176	N4164		15336
N3919		14763	N3996		14880	N4101		15180	N4164.4		15340
N3919.2		14763.5	N3997		14884	N4102		15184	N4165		15356
N3920		14776	N3998		14892	N4103		15168	N4167		15328
N3921		14769.1	N4004		14900	N4104		15124	N4168		15324
N3921.5		14769	N4006		14904	N4106		15134.5	N4169		15372
N3926		14764	N4008		14908	N4106.2		15134	N4169.5		15370
N3927		14768	N4009		14912	N4107		15132	N4170		15376
N3928.2		14761.5	N4010		14916	N4107.5		15135	N4170.1		15378
N3936		14780	N4010.2		14917	N4108		15136	N4170.2		15380
N3938		14784	N4011		14920	N4109		15140	N4170.4		15388
N3938.5		14786	N4014		14924	N4110		15148	N4170.5		15390
N3939.5		14581, 14781	N4015		14928	N4110.4		15144	N4170.6		15392
N3940		14788	N4016		14932	N4110.6		15143	N4170.82		15402
N3942		14792	N4017		14940	N4111		15152	N4171.5		15384
N3946		14796	N4018		14944	N4111.5		15154	N4172.6		15496
N3948		14876	N4020		14948	N4112		15156	N4172.8		15489
N3948.5		14877	N4022		14952	N4113		15160	N4173		15480
N3950		14872	N4026		14956	N4113.5		15161	N4174		15476
N3952		14800	N4028		14964	N4114		15164	N4174.2		15472
N3954.2		14798	N4030		14960	N4118		15172	N4174.4		15468
N3954.22		14798.5	N4031		14954	N4118.3		15174	N4174.6		15460
N3956		14804	N4031.2		14955	N4119		15210	N4174.7		15456
N3957		14808	N4032		14968	N4120		15192	N4174.73		15450
N3957.5		14808.5	N4036		14972	N4122		15212	N4174.74		15450.1
N3958		14812	N4038		14976	N4124		15196	N4174.77		15452
N3960		14816	N4040		14980	N4126		15200	N4174.78		15448
N3962		14820	N4042		14984	N4127		15208	N4174.79		15449
N3963		14824	N4044		14988	N4130		15204	N4174.8		15444
N3963.2		14822	N4048		14992	N4134		15216	N4174.82		15440
N3964		14828	N4050		15000	N4134.5		15218	N4174.83		15436
N3965		14834	N4051		15004	N4134.6		15219	N4174.84		15432
N3965.03		14834.3	N4052		15008	N4135		15220	N4174.86		15404
N3965.07		14834.7	N4054		15012	N4136		15224	N4175		15420
N3965.1		14835	N4058		15016	N4140		15228	N4175.5		15428
N3965.13		14835.3	N4060		15020	N4140.3		15232	N4175.52		15424
N3965.16		14835.7	N4062		15024	N4141		15236	N4175.54		15412
N3965.18		14835.8	N4065		15064	N4141.2		15240	N4175.7		15408
N3965.2		14836	N4066		15048	N4141.37		15244	N4176		15464
N3965.4		14838	N4067		15051	N4141.5		15276	N4176.3		15462
N3967		14868	N4068		15052	N4141.6		15280	N4176.5		15466
N3968.2		14866	N4070		15060	N4141.64		15284	N4177.2		15516
N3970		14832	N4070.3		15062	N4141.66		15288	N4177.4		15520
N3970.5		14833	N4070.6		15068	N4141.7		15292	N4178		15524
N3971		14840	N4071		15050	N4141.8		15296	N4180		15528
N3972		14844	N4072		15076	N4141.9		15300	N4182		15536
N3973		14864	N4072.4		15080	N4142		15304	N4182.4		15540
N3973.3		14864.1	N4072.6		15082	N4143		15308	N4186		15544
N3973.5		14864.2	N4073		15028	N4144		15252	N4186.2		15548
N3973.6		14865	N4073.6		15030	N4148		15256	N4186.5		15552
N3976		14852	N4074		15036	N4149		15260	N4186.6		15552.5
N3977		14856	N4076		15040	N4150		15264	N4187.4		15550
N3978.9		14857	N4078		15044	N4151		15270	N4187.5		15551
N3978.91		14857.1	N4080		15092	N4152		15268	N4187.51		15551.1
N3979		14860	N4081		15096	N4153		15266	N4187.52		15551.2
N3984		14724	N4082		15100	N4154		15248	N4187.53		15551.5
N3985		14726	N4086		15104	N4158		15272	N4187.54		15553
N3986		14728	N4088		15084	N4160		15312	N4187.56		15562

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N4187.57		15562.2	N4262		15944	N4320		15738	N4418.5		16378
N4188.2		15560	N4263		15945	N4322		15744	N4418.7		16379
N4189.5		15569	N4266		15952	N4326		15752	N4420		16380
N4189.55		15568.5	N4266.3		15950	N4327		15756	N4422		16376
N4189.552		15569.1	N4266.31		15950.2	N4328		15758	N4423		16375
N4189.554		15569.2	N4266.5		15954	N4330		15672	N4423.1		16375.2
N4189.556		15568	N4267		15956	N4332		15656	N4423.5		16382
N4189.6		15572	N4268		15960	N4332.3		15659	N4423.52		16382.2
N4189.8		15576	N4269		15964	N4332.5		15660	N4424		16388
N4190		15578	N4270		15968	N4333		15664	N4425		16404
N4190.6		15582	N4275		15969	N4334		15680	N4427		16392
N4192		15584	N4276		15976	N4336		15684	N4428		16400
N4192.3		15586	N4277		15996	N4336.5		15692	N4428.2		16396
N4193		15592	N4277.5		15992	N4337.5		15688	N4430		16384
N4194		15588	N4278		15988	N4338		15676	N4432		16408
N4198		15596	N4278.4		15984	N4342		15700	N4433		16406
N4199		15598	N4278.5		15985	N4345.2		16236	N4433.2		16407
N4200		15600	N4279		16000	N4346		16240	N4433.5		16410
N4202		15604	N4280		16004	N4346.4		16252	N4434		16412
N4204		15608	N4282		15852	N4347		16256	N4435		16417
N4208		15612	N4283		15856	N4347.3		16263	N4436		16416
N4208.5		15614	N4284		15816	N4347.6		16264	N4440		16420
N4209		15616	N4286		15824	N4347.8		16265	N4441		16422
N4209.1		15616.1	N4289		15820	N4348		16244	N4441.8		16421
N4209.5		15617	N4289.4		15821	N4349.5		16266	N4442		16528
N4209.51		15618	N4290		15836	N4350		16268	N4442.5		16528.1
N4210		15620	N4291		15840	N4350.3		16276	N4443		16529
N4212		15628	N4292		15848	N4351		16269	N4444		16530
N4214		15632	N4293		15844	N4351.3		16270	N4445.5		16532
N4215		15636	N4293.6		15880	N4352		16280	N4446		16544
N4218		15624	N4294		15860	N4354		16272	N4447		16556
N4220		15648	N4294.1		15864	N4355		16284	N4447.1		16557
N4222		15652	N4294.15		15865	N4356		16285	N4448		16554
N4222.5		15653	N4294.2		15868	N4356.4		16286	N4449		16548
N4223		15640	N4294.3		15869	N4357		16289	N4449.4		16552
N4224		15644	N4294.35		15870	N4358		16288	N4449.5		16553
N4225		15642	N4294.4		15866	N4359		16292	N4451		16228
N4228		15764	N4294.5		15872	N4359.3		16287	N4451.3		16424
N4230		15760	N4295		15876	N4359.5		16294	N4451.6		16428
N4232		15768	N4295.5		15884	N4359.75		16295	N4452		16436
N4233		15769	N4295.7		15980	N4360		16296	N4452.08		16438
N4234		15772	N4296		15948	N4361		16300	N4452.2		16437
N4234.5		15776	N4298		15832	N4362		16304	N4452.3		16441
N4235.4		15784	N4299		15812	N4366		16308	N4453		16432
N4236.4		15788	N4300		15808	N4368		16312	N4453.2		16442
N4236.5		15789.1	N4300.2		15806	N4369		16310	N4453.5		16508
N4236.6		15789	N4300.31		15805	N4369.4		16311	N4453.91		16443.1
N4237		15792	N4300.32		15805.2	N4370		16316	N4454		16444
N4238		15928	N4302		15804	N4371		16320	N4454.1		16445
N4239		15912	N4303		15800	N4372		16317	N4454.2		16446
N4240		15900	N4304		15796	N4375		16324	N4454.5		16447
N4242		15904	N4306		15712	N4378		16328	N4455		16448
N4242.2		15906	N4307		15714	N4380		16332	N4455.3		16452
N4242.4		15908	N4308		15708	N4382		16336	N4455.5		16460
N4244		15896	N4310		15724	N4408		16340	N4455.7		16456
N4246		15888	N4311		15728	N4408.5		16341	N4456		16512
N4248		15892	N4311.2		15732	N4409		16344	N4458		16516
N4249		15916	N4311.7		15733	N4409.4		16348	N4461		16526
N4250		15924	N4312		15704	N4412		16352	N4462		16524
N4252		15920	N4312.5		15723	N4413		16356	N4464		16520
N4256		15932	N4313		15722	N4413.4		16353	N4466		16500
N4258		15936	N4314		15720	N4416		16360	N4467		16505
N4259		15937	N4315		15721	N4416.5		16374	N4468		16504
N4260		15940	N4316		15716	N4417		16372	N4472		16496
N4261		15941	N4318		15736	N4418		16377	N4474		16480

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N4475		16484	N4525.5		16697	N4558		16944	N4608.4		19764
N4475.1		16484.5	N4526		16688	N4558.5		16941	N4609		19754
N4475.15		16486	N4527		16689.1	N4558.6		16942	N4610		19780
N4475.16		16486.5	N4527.5		16689	N4559		16940	N4611		19784
N4475.2		16477	N4528		16692	N4559.2		16940.5	N4612		19788
N4475.22		16478	N4530		16696	N4559.4		16932	N4613		19792
N4475.4		16492	N4532		16704	N4559.6		16936.5	N4614		19796
N4476		16476	N4533		16700	N4559.7		16936	N4615.22		19799
N4478		16472	N4533.6		16706	N4560		16884	N4615.24		19799.3
N4478.5		16471	N4533.7		16707	N4564		16870	N4615.26		19799.5
N4478.52		16470	N4533.8		16707.5	N4565		16876	N4615.3		19798
N4478.6		16468.1	N4534		16708	N4565.5		16869	N4615.35		19799.6
N4479		16469	N4535		16710	N4566		16868	N4615.4		19800
N4480		16468	N4536		16712	N4568		16864	N4615.5		19804
N4482		16464	N4537		16716	N4568.3		16861	N4615.51		19804.5
N4485.1		16559	N4537.5		16716.1	N4568.31		16861.1	N4615.6		19808
N4486		16559.1	N4538		16720	N4568.35		16863	N4616		19816
N4488		16640	N4539.5		16728	N4568.5		16878	N4616.2		19812
N4489		16560	N4539.6		16732	N4568.6		16878.1	N4616.3		19822
N4492		16564	N4540		16736	N4568.7		16878.3	N4616.32		19822.01
N4492.2		16565	N4542		16744	N4569		16882	N4616.33		19822.02
N4492.3		16565.5	N4544		16748	N4571.1		16921	N4616.35		19822.1
N4492.9		16639	N4544.4		16749.5	N4571.2		16921.1	N4616.4		19824
N4494		16568	N4544.6		16749	N4572		16920	N4616.6		19824.1
N4496		16572	N4545		16752	N4574		16916	N4616.7		19823
N4496.5		16580	N4545.3		16756	N4575		16904	N4616.72		19823.1
N4496.57		16580.5	N4546		16760	N4576.2		16908	N4616.9		19825
N4496.58		16580.6	N4546.3		16764	N4576.4		16907	N4616.92		19825.1
N4496.6		16581	N4546.6		16768	N4576.6		16912	N4616.95		19826
N4496.7		16581.5	N4546.8		16782	N4577		16900	N4617		19827
N4497		16584	N4546.9		16782.5	N4578		16888	N4617.1		19828.1
N4498		16576	N4547		16784	N4580		16892	N4617.45		19829
N4500		16588	N4547.1		16785	N4584		16928	N4617.5		19832
N4501		16592	N4547.15		16785.5	N4584.5		16925	N4617.6		19830
N4502		16596	N4547.2		16786	N4585		16924	N4617.9		19838
N4502.3		16600	N4547.25		16786.5	N4588		19696	N4618		19840
N4502.4		16604	N4547.4		16789	N4589		19697	N4620		19844
N4502.41		16598	N4547.5		16788	N4589.5		19697.5	N4621		19836
N4502.7		16599	N4547.7		16792	N4590		19700	N4621.2		19837
N4503		16608	N4547.8		16776	N4590.2		19702	N4621.3		19837.1
N4503.2		16612	N4547.9		16780	N4590.4		19703	N4621.4		19837.2
N4504		16628	N4547.93		16781	N4591		19704	N4621.45		19837.3
N4505		16624	N4547.95		16781.1	N4591.2		19705	N4621.5		19856
N4506		16620	N4548		16772	N4591.5		19706	N4621.6		19848
N4509		16636	N4549.2		16793	N4592		19708	N4621.62		19852
N4511		16644	N4549.22		16794	N4594		19752	N4622		19864
N4512		16648	N4550		16796	N4595		19740	N4622.1		19866
N4512.5		16652	N4550.5		16800	N4596.1		19744	N4622.3		19868
N4513		16660	N4550.8		16830.1	N4597		19748	N4622.4		19870
N4515		16664	N4550.9		16830	N4598		19732	N4622.66		19870.1
N4515.4		16666	N4552.5		16824	N4598.2		19736	N4622.67		19870.2
N4515.5		16667	N4552.8		16832	N4599		19720	N4622.7		19871
N4516		16656	N4553		16834	N4600		19724	N4622.75		19871.1
N4518		16646	N4553.2		16835	N4600.4		19725	N4622.8		19867
N4520		16668	N4554		16836	N4602		19716	N4623		19860
N4522		16672	N4555		16844	N4603		19712	N4625		19873
N4522.4		16670	N4555.2		16840	N4604		19810	N4625.1		19873.1
N4523		16676	N4555.9		16846	N4605		19772	N4625.4		19874
N4523.2		16677	N4556		16848	N4606		19776	N4625.6		19874.1
N4523.4		16680	N4556.4		16852	N4607		19756	N4626		19876
N4523.9		16682	N4556.8		16860	N4607.6		19760	N4627		19880
N4524		16684	N4557.1		16943	N4607.7		19770	N4627.3		19875
N4525		16685	N4557.12		16943.1	N4607.8		19761	N4628		19884
N4525.3		16698	N4557.14		16943.2	N4607.9		19762	N4628.55		19884.1
N4525.4		16698.1	N4557.6		16948	N4608		19768	N4628.57		19894.1

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N4628.575		19894	N4665.5		20166	N4726.8		20261	N4761		20332
N4628.58		19893	N4665.6		20168	N4727		20264	N4761.3		20340
N4628.6		19885	N4665.7		20162	N4727.5		20265	N4761.5		20364
N4628.65		19885.1	N4665.8		20160	N4727.55		20266	N4761.8		20344
N4628.68		19885.2	N4665.9		20030	N4727.6		20268	N4762		20348
N4628.7		19892	N4666		20032.1	N4727.65		20269	N4763		20352
N4630		19896	N4666.2		20033	N4727.7		20270	N4763.2		20360
N4632		19900	N4667		20031	N4728		20224	N4763.5		20356
N4634		19904	N4667.05		20031.6	N4729		20222	N4764		20292
N4634.5		19905	N4667.07		20031.5	N4730		20216	N4764.5		20324
N4638		19908	N4669		20036	N4730.4		20220	N4765		20308
N4640		19948	N4669.3		20037	N4730.7		20221	N4765.5		20320
N4640.5		19950	N4669.5		20038	N4730.75		20227	N4765.7		20316
N4642		19946	N4670		20040	N4731		20230	N4765.8		20313
N4643		19944	N4674		20044	N4731.2		20228	N4765.82		20314
N4643.25		19942	N4676		20048	N4731.3		20230.1	N4766		20312
N4643.5		19938	N4677		20050	N4731.4		20232	N4766.2		20300
N4646		19938.1	N4677.5		20051.1	N4731.5		20234	N4767		20304
N4647.5		19934	N4677.6		20051.2	N4731.53		20237.1	N4768.5		20108
N4647.7		19932.1	N4677.8		20051	N4731.55		20237	N4770		20104
N4647.71		19932	N4678		20052	N4731.6		20236	N4770.6		20092
N4647.8		19930	N4680		20028	N4731.65		20238	N4771		20088
N4647.86		19928	N4682		20019	N4731.7		20240	N4771.4		20100
N4648		19924	N4687		20064	N4732		20452	N4772		20096
N4649		19916	N4688		20060	N4732.5		20456	N4772.6		20112
N4649.4		19918	N4688.5		20058	N4733		20460	N4773		20120
N4649.6		19918.1	N4688.51		20058.1	N4734		20464	N4774.2		20117
N4650		19912	N4689		20056	N4734.2		20466	N4775		20124
N4650.1		19911.5	N4690		20068	N4734.4		20476	N4775.5		20128
N4650.2		19911	N4692		20080	N4735		20472	N4776		20084
N4652		19952	N4693		20076	N4735.1		20468	N4777		20156
N4653		19956	N4694		20072	N4735.2		20480	N4778		16224
N4653.2		19958	N4695		20070	N4735.5		20484	N4779		16226
N4653.3		19959	N4698		20132	N4736		20488	N4780		16008
N4653.5		19960	N4700		20152	N4737		20492	N4780.4		16010
N4654		19968	N4702		20136	N4738		20394	N4780.5		16010.5
N4655		19974	N4703		20140	N4739		20384	N4780.6		16011
N4655.2		19973	N4704		20144	N4740		20392	N4780.7		16011.5
N4655.5		19970	N4704.5		20146	N4741		20396	N4781		16012
N4656		19980	N4705		20148	N4741.5		20398	N4782.4		16072
N4656.22		19978	N4708		20180	N4741.6		20398.1	N4783		16024
N4656.24		19977	N4708.5		20176	N4742.5		20400	N4784		16036
N4656.4		19972	N4708.7		20204	N4743		20408	N4786		16040
N4656.6		19972.1	N4709		20205	N4744		20416	N4787.1		16041
N4657		19976	N4710		20186	N4745		20412	N4788		16056
N4658		19984	N4710.4		20187	N4749		20428	N4788.5		16060
N4658.5		19987	N4711		20196	N4750		20432	N4790		16064
N4659		19988	N4711.3		20192	N4751.5		20435	N4791.4		16068
N4661		19996	N4711.5		20200	N4751.7		20435.5	N4791.8		16074
N4661.5		19998	N4712		20208	N4752		20434	N4792		16076
N4661.6		19998.5	N4714		20212	N4752.4		20435.7	N4793		16075
N4662		20000	N4716		20272	N4752.5		20435.6	N4794		16080
N4664		20004	N4718		20276	N4755		20440	N4795		16085
N4664.3		20012	N4720		20280	N4755.5		20436	N4796		16084
N4664.4		20008	N4721		20284	N4756		20388	N4797.4		16098
N4664.5		20013	N4721.1		20285	N4757		20366	N4797.6		16098.1
N4664.6		20014	N4721.2		20285.1	N4757.5		20368	N4798		16100
N4665		20016	N4721.4		20288	N4758.1		20381	N4800		16104
N4665.05		20018	N4722		20244	N4758.2		20382	N4808		16120
N4665.18		20175	N4725.9		20255	N4758.4		20372	N4810		16088
N4665.2		20172	N4726		20256	N4758.45		20374	N4812		16092
N4665.25		20174	N4726.3		20257	N4759		20380	N4813		16096
N4665.3		20165	N4726.4		20258	N4760		20376	N4813.3		16121
N4665.35		20164.1	N4726.5		20258.5	N4760.3		20328	N4813.31		16121.5
N4665.4		20164	N4726.6		20260	N4760.7		20336	N4813.5		16122

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N4813.7		16123	N4876.5		17046	N4899.05		17077	N4915		17304
N4814		16124	N4877		17049	N4899.06		17077.1	N4916.1		17297
N4815		16127	N4877.1		17049.1	N4899.1		17078	N4916.2		17296
N4815.1		16127.1	N4878		17048	N4899.104		17078.1	N4916.3		17295
N4816		16128	N4879		17052	N4899.107		17078.2	N4916.39		17290
N4818		16132	N4879.5		17054	N4899.3		17080	N4916.393		17291
N4819		16136	N4880		17056	N4899.4		17081	N4916.395		17292.1
N4819.5		16138	N4880.2		17058	N4899.52		17081.5	N4916.4		17294
N4820		16140	N4880.25		17058.5	N4899.53		17082	N4916.41		17294.1
N4821		16143	N4880.3		17110	N4899.535		17083	N4916.46		17294.5
N4822		16145	N4880.4		17111	N4899.6		17092	N4916.6		17300
N4822.5		16146	N4880.5		17111.1	N4899.8		17192	N4916.8		17300.65
N4824		16152	N4880.6		17112	N4899.9		17196	N4916.85		17300.6
N4824.5		16156	N4880.8		17130	N4899.94		17238	N4916.9		17300.5
N4825		16164	N4881		17132	N4899.96		17236	N4917.2		17301.5
N4825.5		16168	N4881.3		17134	N4900		17225	N4917.4		17301
N4826		16160	N4881.4		17135	N4900.2		17208	N4917.5		17302
N4827		16170	N4881.5		17135.5	N4900.4		17212	N4917.6		17303
N4828		16172	N4881.6		17116	N4900.5		17213	N4917.8		17303.5
N4829		16180	N4881.7		17120	N4900.6		17216	N4917.9		17317
N4830		16176	N4881.71		17128	N4900.7		17220	N4918		17316
N4830.5		16182	N4881.72		17124	N4900.73		17224.1	N4918.8		17289
N4831		16184	N4881.74		17129	N4900.79		17093	N4918.9		17289.1
N4832		16192	N4881.9		17159	N4900.797		17092.1	N4919		17288
N4833		16188	N4881.95		17159.1	N4900.798		17092.2	N4919.2		17288.1
N4833.6		16196	N4882		17160	N4900.8		17200	N4920		17286
N4833.7		16202	N4883		17161	N4900.9		17093.1	N4920.5		17287
N4836		16204	N4884		17164	N4901		17100	N4921		17285
N4838		16212	N4885		17168	N4901.7		17096	N4922		17284
N4840		16208	N4886		17188	N4902		17104	N4922.5		17283
N4840.7		16213.1	N4887		17180	N4902.5		17105	N4923.3		17282
N4840.8		16213	N4888		17176	N4902.6		17105.1	N4924.1		17281
N4842		16216	N4889		17184	N4902.71		17105.2	N4924.55		17280.5
N4844		16220	N4889.3		17184.1	N4902.75		17105.21	N4924.57		17280.4
N4848		16980	N4889.4		17184.2	N4903		17340	N4924.66		17254.5
N4850		16956	N4890		17172	N4903.4		17108	N4926.1		17257
N4852		16976	N4892		17152	N4903.45		17106	N4926.2		17258
N4852.3		16968	N4892.4		17144	N4903.6		17107	N4926.21		17258.3
N4852.4		16960	N4892.6		17148	N4903.7		17388	N4926.23		17258.2
N4852.6		16972	N4892.7		17152.5	N4903.75		17389	N4926.25		17258.1
N4852.8		16964	N4892.78		17152.6	N4903.8		17372	N4926.26		17258.15
N4853		16984	N4892.8		17153	N4904		17352	N4926.3		17259
N4854		16988	N4892.9		17153.5	N4904.2		17356	N4926.33		17259.5
N4854.5		16989	N4893		17156	N4904.6		17360	N4926.8		17261
N4855		16990	N4893.5		17154	N4904.7		17360.1	N4926.9		17262
N4856		16992	N4894		17136	N4904.8		17361	N4927		17263
N4856.3		16994	N4896		17060	N4906		17344	N4927.4		17264
N4856.5		16993	N4896.2		17061	N4906.2		17348	N4927.7		17265
N4857		16996	N4896.42		17067	N4906.4		17361.1	N4927.8		17265.1
N4857.2		16997	N4896.5		17064	N4906.6		17361.2	N4928		17272
N4857.22		16997.05	N4896.52		17065.3	N4906.8		17362	N4928.3		17280.3
N4857.25		16997.1	N4896.54		17065.2	N4907		17364	N4928.5		17280.2
N4857.3		16998	N4896.56		17065.1	N4907.1		17365	N4929		17280
N4859		17012	N4896.58		17065	N4907.2		17368	N4929.8		17279.1
N4859.2		17016	N4896.72		17064.6	N4907.3		17369	N4929.9		17278
N4860		17020	N4896.74		17064.4	N4908		17339.1	N4929.992		17278.2
N4862		17000	N4896.8		17066.1	N4909		17338	N4929.993		17278.1
N4866		17024	N4896.85		17066	N4909.2		17339	N4930		17274.6
N4867		17025	N4896.9		17067.5	N4909.4		17337	N4930.04		17274.51
N4868		17028	N4897		17068	N4909.6		17337.5	N4930.045		17274.52
N4870		17032	N4897.5		17069	N4910		17328	N4930.05		17274.7
N4872		17036	N4898		17072	N4912		17336	N4930.1		17275
N4874		17040	N4899		17076	N4912.5		17324.5	N4930.11		17253
N4875		17038	N4899.02		17076.1	N4913		17324	N4930.15		17279
N4876		17044	N4899.04		17076.2	N4914		17320	N4930.2		17252



# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N4931		17240	N4983.8		17583	N5078		17904	N5272		18220
N4931.2		17244	N4984		17580	N5081.6		17959.21	N5278		18244
N4931.4		17248	N4986		17584	N5081.7		17959.2	N5279.5		18249
N4931.6		17249	N4988		17588	N5081.8		17959.1	N5279.51		18249.1
N4936.4		17376	N4988.5		17589	N5082		17912	N5280		18248
N4936.5		17380	N4990		17604	N5084		17916	N5281		18250
N4936.55		17384	N4994		17608	N5086		17920	N5282		18252
N4937		17392	N4996		17612	N5088		17924, 17960	N5284		18255
N4937.4		17396	N5000		17624	N5089		17958	N5285		18258
N4938		17404	N5004		17628	N5090		17928	N5287		18260
N4938.3		17400	N5005		17633	N5090.1		17932	N5288		18268
N4940		17408	N5005.5		17630	N5091		17952	N5293		18269
N4941		17416	N5006		17632	N5092		17956	N5300		18270
N4944		17412	N5008.5		17640	N5100		17964	N5302		18272
N4945		17414	N5008.6		17642	N5102		17944	N5302.1		18273
N4946		17420	N5010		17648	N5102.1		17948	N5302.5		18276
N4946.1		17421	N5011		17652	N5103		17936	N5302.53		18285
N4946.2		17422	N5012		17656	N5103.1		17940	N5302.535		18286
N4946.4		17422.4	N5016		17660	N5106		17984	N5303.5		18278
N4946.6		17422.6	N5018		17664	N5107		17988	N5303.51		18279
N4947		17424	N5019		17668	N5107.3		17988.5	N5304.7		18280
N4947.8		17426	N5019.5		17672	N5107.31		17988.6	N5304.71		18281
N4948		17428	N5020		17684	N5108		17992	N5305.5		18316
N4949		17436	N5022		17688	N5110		18000	N5308		18320
N4949.2		17429.1	N5025		17692	N5116		18008	N5309		18324
N4949.3		17429.2	N5026		17700	N5118		18016	N5310		18326
N4949.4		17432	N5026.2		17704	N5118.1		18020	N5314		18336
N4949.5		17444	N5026.4		17708	N5124		18058	N5316		18340
N4949.55		17445	N5027.2		17690	N5126		18024	N5320		18344
N4949.6		17438	N5028		17728	N5126.1		18028	N5323		18350
N4949.7		17456	N5028.2		17720	N5128		18044	N5326		18356
N4949.8		17460	N5030		17732	N5128.1		18048	N5328		18360
N4949.9		17457	N5030.2		17733	N5130		18068	N5328.5		18362
N4950		17452	N5031		17736	N5130.1		18072	N5329		18364
N4950.5		17467	N5032		17740	N5130.2		18076	N5330		18368
N4952		17468	N5034		17744	N5136.1		18056	N5340		18384
N4953		17476	N5034.2		17745	N5137		18060	N5341		18380
N4953.2		17472	N5034.4		17745.5	N5137.1		18064	N5352		18404
N4954		17480	N5036		17772	N5146		18080	N5353		18396
N4955		17484	N5036.3		17772.3	N5146.1		18084	N5358		18408
N4955.3		17490	N5038		17790	N5149		18088	N5361		18412
N4955.4		17488	N5038.01		17790.1	N5149.1		18092	N5370		18448
N4956		17496	N5053		17808	N5152		18164	N5370.1		18452
N4956.2		17500	N5053.6		17820	N5152.1		18168	N5372		18476
N4956.4		17504	N5054		17824	N5156		18172	N5372.1		18480
N4958		17508	N5056		17828	N5156.1		18176	N5374		18492
N4960		17512	N5060.1		17844	N5181.9		18095	N5374.1		18496
N4962		17516	N5068		17848	N5182		18096	N5374.41		18499.2
N4964		17520	N5071		17860	N5182.1		18100	N5374.42		18499.3
N4965		17524	N5071.4		17864	N5192		18110	N5374-4		18499.1
N4965.1		17525	N5072		17868	N5192.1		18110.1	N5375		18520
N4965.2		17525.5	N5072.1		17872	N5195		18177	N5376		18552
N4966		17528	N5072.3		17885	N5195.1		18177.1	N5376.1		18556
N4966.4		17532	N5072.6		17878	N5203.1		18178	N5378		18558
N4966.6		17536	N5073		17876	N5206		18179	N5378.1		18559
N4968		17540	N5075		17884	N5207		18179.1	N5422		18560
N4969		17544	N5076		17892	N5210		18179.5	N5423.5		18570
N4971		17548	N5076.1		17896	N5210.1		18179.6	N5423.6		18570.1
N4972		17552	N5076.3		17886	N5242		18192	N5428		18936
N4974		17556	N5076.35		17889	N5244		18180	N5436		18608
N4976		17564	N5076.4		17888	N5246		18188	N5448		18628
N4980		17572	N5076.8		17898	N5247		18184	N5452		18632
N4981.3		17577	N5077.3		17899.1	N5248		18200	N5454		18640
N4983		17581	N5077.5		17899	N5250		18205	N5458		18648
N4983.5		17582	N5077.55		17899.5	N5255		18210	N5460		18652

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N5462	.....	18656	N5653.8	.....	19058.2	N5768	.....	19324	N5801	.....	19472
N5464	.....	18660	N5654	.....	19068	N5770	.....	19336	N5801.1	.....	19473
N5464.1	.....	18664	N5654.42	.....	19070	N5772	.....	19328	N5801.2	.....	19473.1
N5472	.....	18680	N5654.44	.....	19072	N5773	.....	19334	N5801.3	.....	19473.2
N5478	.....	18732	N5655.8	.....	19075	N5773.1	.....	19330.1	N5802	.....	19480
N5478.1	.....	18736	N5656	.....	19076	N5773.4	.....	19330	N5802.2	.....	19484
N5478.2	.....	18740	N5660	.....	19080	N5773.5	.....	19333	N5802.3	.....	19485
N5482	.....	18744	N5664.8	.....	19090	N5773.6	.....	19335	N5803	.....	19476
N5483	.....	18745	N5666	.....	19100	N5773.61	.....	19335.1	N5803.4	.....	19488
N5483.2	.....	18746	N5668	.....	19108	N5774	.....	19338	N5805	.....	19492
N5484	.....	18724	N5670	.....	19112	N5776	.....	19340	N5806	.....	19496
N5490	.....	18720	N5671	.....	19110	N5779	.....	19344	N5806.5	.....	19500
N5492	.....	18716	N5672	.....	19116	N5779.1	.....	19348	N5806.6	.....	19504
N5500	.....	18748	N5674	.....	19120	N5779.5	.....	19361	N5807	.....	19508
N5501	.....	18749	N5674.1	.....	19124	N5779.51	.....	19361.5	N5807.1	.....	19509
N5502	.....	18750	N5682	.....	19126	N5780	.....	19352	N5807.2	.....	19510
N5504	.....	18751	N5684	.....	19128	N5780.5	.....	19357	N5808	.....	19512
N5510	.....	18756	N5684.5	.....	19129	N5780.6	.....	19360	N5808.4	.....	19520
N5510.1	.....	18760	N5685	.....	19130	N5780.7	.....	19365	N5808.5	.....	19516
N5510.2	.....	18764	N5685.5	.....	19131	N5780.8	.....	19365.5	N5809	.....	19528
N5516	.....	18752	N5686	.....	19132	N5781	.....	19364	N5810	.....	19532
N5578	.....	18880	N5688	.....	19136	N5781.1	.....	19362	N5810.5	.....	19534
N5586	.....	18896	N5689	.....	19140	N5781.2	.....	19362.5	N5810.6	.....	19534.5
N5594	.....	18904	N5690	.....	19148	N5781.51	.....	19366	N5811	.....	19536
N5606	.....	18928	N5694	.....	19162	N5782	.....	19368	N5812	.....	19544
N5615	.....	18440	N5696	.....	19163	N5782.5	.....	19369	N5813	.....	19548
N5616	.....	18436	N5698	.....	19164	N5782.6	.....	19370	N5816	.....	19556
N5616.5	.....	18940	N5699.5	.....	19165	N5782.9	.....	19385	N5816.5	.....	19560
N5617.2	.....	18941	N5699.51	.....	19166.1	N5782.95	.....	19385.5	N5816.55	.....	19564
N5617.5	.....	18942	N5699.52	.....	19166.2	N5783	.....	19384	N5816.6	.....	19568
N5618	.....	18944	N5699.53	.....	19166	N5784	.....	19388	N5816.7	.....	19572
N5632	.....	18964	N5700	.....	19168	N5785	.....	19392	N5817	.....	19576
N5632.5	.....	18972	N5706	.....	19172	N5785.6	.....	19400	N5817.5	.....	19584
N5633	.....	18976	N5708	.....	19176	N5786	.....	19408	N5818	.....	19580
N5634	.....	18978	N5708.1	.....	19180	N5787	.....	19404	N5818.3	.....	19585
N5636	.....	18984	N5718	.....	19192	N5787.5	.....	19412	N5818.31	.....	19585.1
N5638	.....	19000	N5721	.....	19200	N5787.8	.....	19416	N5818.4	.....	19588
N5638.1	.....	19004	N5724	.....	19204	N5788	.....	19420	N5818.5	.....	19592
N5639	.....	18980	N5724.5	.....	19206	N5789	.....	19424	N5818.51	.....	19591
N5640	.....	18988	N5725	.....	19209	N5789.4	.....	19440	N5818.6	.....	19596
N5640.1	.....	18992	N5726	.....	19212	N5790	.....	19428	N5818.62	.....	19598
N5640.2	.....	18996	N5727	.....	19214	N5791	.....	19432	N5819	.....	19604
N5642	.....	19024	N5727.1	.....	19214.1	N5792	.....	19436	N5819.4	.....	19606
N5642.1	.....	19028	N5728	.....	19216	N5792.9	.....	19443	N5820	.....	19608
N5642.2	.....	19030	N5728.1	.....	19220	N5793	.....	19444	N5823	.....	19612
N5642.3	.....	19021	N5734	.....	19228	N5793.21	.....	19445	N5823.1	.....	19616
N5642.4	.....	19022	N5736	.....	19232	N5793.3	.....	19445.1	N5823.5	.....	19624
N5642.5	.....	19023	N5738	.....	19234	N5793.5	.....	19446	N5823.6	.....	19620
N5643	.....	19016	N5738.1	.....	19234.1	N5793.7	.....	19447	N5825.5	.....	19625
N5643.5	.....	19020	N5742	.....	19236	N5794	.....	19448	N5825.6	.....	19625.1
N5643.55	.....	19020.1	N5744	.....	19252	N5794.5	.....	19450	N5826	.....	19632
N5644	.....	19032	N5746	.....	19256	N5795	.....	19452	N5827	.....	19640
N5644.7	.....	19040	N5748	.....	19257	N5795.3	.....	19453	N5827.2	.....	19644
N5645	.....	19044	N5749	.....	19280	N5795.35	.....	19453.1	N5827.4	.....	19648
N5646	.....	19048	N5749.1	.....	19284	N5795.4	.....	19454	N5828	.....	19652
N5646.2	.....	19048.1	N5760	.....	19288	N5795.45	.....	19454.1	N5828.2	.....	19656
N5646.6	.....	19048.5	N5761	.....	19304	N5796	.....	19456	N5829	.....	19658.5
N5646.62	.....	19048.6	N5762	.....	19277	N5796.2	.....	19457	N5829.3	.....	19658
N5647	.....	19049	N5762.1	.....	19277.1	N5796.4	.....	19457.5	N5829.4	.....	19659
N5647.2	.....	19051	N5763.6	.....	19313	N5797	.....	19458	N5829.5	.....	19660
N5652.6	.....	19052	N5764	.....	19314	N5797.1	.....	19458.5	N5830	.....	19664
N5652.62	.....	19056	N5765	.....	19320	N5798	.....	19460	N5830.2	.....	19672
N5653.3	.....	19036	N5766.1	.....	19322.1	N5799	.....	19464	N5830.4	.....	19668
N5653.7	.....	19059	N5766.2	.....	19322.2	N5800	.....	19468	N5830.7	.....	19666
N5653.75	.....	19058	N5767	.....	19322	N5800.5	.....	19470	N5831.4	.....	19677

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N5831.42		19678	N5855.5		20631	N5882.6		20912	N5921.5		.21005
N5832		19680	N5855.51		20631.1	N5883.1		20924	N5921.51		.21005.1
N5832.4		19684	N5856		20644	N5883.6		20928	N5921.6		.21004
N5833		19688	N5857		20640	N5884		20916	N5921.7		.21007.1
N5834		19692	N5858		20648	N5884.4		20920	N5921.71		.21007
N5836		20496	N5858.5		20652.1	N5885		20932	N5922		.21012
N5837		20499	N5859		20652	N5888		20940	N5922.2		.21016
N5838		20500	N5860		20656	N5892		20944	N5923		.21020
N5838.1		20500.5	N5861		20660	N5893		20948	N5923.2		.21024
N5838.2		20501	N5862		20664	N5894		20952	N5923.5		.21032
N5838.27		20501.1	N5866		20668	N5895		20956	N5923.7		.21039
N5838.28		20501.2	N5866.2		20668.1	N5896		20960	N5923.8		.21040
N5838.29		20501.3	N5866.5		20669	N5897		20961	N5924		.21044
N5838.3		20502	N5866.51		20669.1	N5898		20965	N5924.2		.21045
N5838.35		20502.1	N5867		20670	N5900		20968	N5924.3		.21045.5
N5838.36		20503.1	N5867.5		20673	N5901		20970	N5926		.21048
N5838.375		20503.2	N5868		20672	N5901.6		20971	N5927		.21052
N5838.378		20503.21	N5871		20676	N5902		20972	N5927.2		.21054
N5838.379		20503.3	N5871.3		20680	N5902.4		20973.5	N5927.6		.21060
N5838.4		20504	N5871.32		20684	N5902.6		20973	N5929		.21064
N5838.5		20506	N5871.4		20688	N5904		20976	N5929.2		.21068
N5838.6		20508	N5871.42		20692	N5906		20980	N5929.4		.21072
N5838.65		20509	N5871.59		20697	N5907		20984	N5929.6		.21076
N5838.7		20510	N5871.6		20698	N5907.5		20985	N5929.8		.21080
N5839		20516	N5872		20708	N5907.6		20986	N5930		.21084
N5839.4		20512	N5872.2		20712	N5908		20836	N5931.2		.21088
N5839.45		20520	N5872.4		20716	N5908.6		20850	N5932		.21092
N5839.5		20532	N5873		20720	N5910		20780	N5933		.21094
N5839.6		20551.5	N5873.03		20730	N5910.1		20781	N5933.1		.21096
N5840		20552	N5873.05		20729	N5910.2		20782	N5933.3		.21104
N5840.4		20556	N5873.1		20722	N5911		20786	N5934		.21116
N5840.48		20557	N5873.2		20724	N5912		20788	N5935		.21120
N5840.49		20557.1	N5873.3		20728	N5912.02		20792	N5935.5		.21121
N5841		20536	N5873.4		20721.1	N5912.5		20804	N5935.8		.21122
N5842		20540	N5873.5		20721.2	N5912.6		20805	N5935.9		.21122.2
N5843.5		20538	N5873.55		20723	N5912.7		20806	N5935.95		.21122.4
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N5844.21		20558	N5874.4		20760	N5913.85		20812.7	N5941		.21152
N5844.22		20529	N5874.5		20764	N5914		20813	N5941.8		.21188
N5844.4		20560	N5874.6		20766	N5914.1		20813.6	N5942		.21192
N5844.6		20564	N5875		20768	N5914.2		20813.61	N5943		.21200
N5844.8		20565	N5875.2		20772	N5914.4		20813.5	N5943.2		.21196
N5844.83		20566	N5875.5		20776	N5914.65		20813.7	N5943.7		.21202
N5845		20572	N5876		20856	N5914.66		20813.8	N5944		.21204
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N5847		20580	N5876.3		20864	N5914.7		20814	N5944.3		.21209
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N5847.6		20568	N5876.6		20868	N5915		20820	N5946.05		.21217
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N5848.2		20592	N5877		20888	N5915.1		20822	N5947		.21220
N5848.4		20588	N5877.4		20884	N5915.22		20824	N5949		.21221.4
N5848.5		20596	N5878		20892	N5915.4		20825	N5949.3		.21221
N5849		20604	N5878.1		20896	N5915.5		20826	N5949.5		.21221.6
N5849.4		20608	N5880		20876	N5915.6		20827	N5952.5		.21232.5
N5849.6		20612	N5880.2		20880	N5916		20816	N5953		.21232
N5850		20616	N5880.7		20882	N5917		20832	N5953.1		.21233
N5852		20620	N5881.1		20901	N5918		20833	N5954		.21234
N5854		20624	N5881.2		20901.5	N5918.02		20834	N5954.5		.21234.2
N5854.4		20628	N5881.3		20902	N5919		20988	N5954.6		.21234.4
N5854.8		20630	N5881.31		20902.5	N5919.4		20992	N5956		.21236
N5855		20632	N5882		20904	N5920		20996	N5957		.21238
N5855.4		20636	N5882.5		20908	N5921.4		21006	N5958.4		.21240

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
N5959.4	.....	21252	N6168.75	.....	21331.7	N6248	.....	21496	N6266.6	.....	21615.2
N5962.4	.....	21257	N6170	.....	21336	N6250	.....	21500	N6266.7	.....	21615.3
N5962.5	.....	21258	N6171	.....	21332	N6251.5	.....	21504	N6266.8	.....	21615.4
N5963	.....	21256	N6171.4	.....	21340	N6251.8	.....	21508	N6267	.....	21615.5
N5964	.....	21259	N6173	.....	21344	N6252	.....	21509	N6267.2	.....	21616
N5965	.....	21259.5	N6173.5	.....	21412.5	N6252.2	.....	21509.1	N6267.6	.....	21621
N5967	.....	21260	N6174	.....	21370	N6252.4	.....	21510	N6267.7	.....	21621.5
N5968	.....	21264	N6176	.....	21356	N6252.6	.....	21511	N6268	.....	21624
N5969	.....	21268	N6176.1	.....	21360	N6252.7	.....	21511.5	N6274	.....	21628
N5969.5	.....	21269	N6176.5	.....	21376	N6253	.....	21512	N6275	.....	21628.5
N5970	.....	21272	N6179	.....	21416	N6253.2	.....	21516	N6276	.....	21628.6
N5970.5	.....	21272.1	N6180	.....	21380	N6253.3	.....	21517	N6277	.....	21629.5
N5970.6	.....	21272.15	N6182	.....	21384	N6253.4	.....	21518	N6277.1	.....	21629.51
N5971	.....	21272.2	N6183	.....	21388	N6253.5	.....	21519	N6278	.....	21630
N5971.1	.....	21272.3	N6183.3	.....	21390	N6253.6	.....	21520	N6278.1	.....	21630.1
N5971.15	.....	21272.35	N6186.5	.....	21400	N6253.7	.....	21521	N6278.4	.....	21631
N5971.3	.....	21272.4	N6189	.....	21408	N6254.5	.....	21524	N6278.5	.....	21631.5
N5971.5	.....	21272.5	N6190	.....	21412	N6254.6	.....	21526	N6278.6	.....	21631.1
N5973	.....	21274	N6191	.....	21413	N6254.7	.....	21528	N6280	.....	21632
N5978.2	.....	21276	N6191.1	.....	21413.5	N6255.4	.....	21534	N6284	.....	21636
N5978.6	.....	21292.5	N6191.2	.....	21413.7	N6255.5	.....	21540	N6288	.....	21640
N5979	.....	21292	N6191.3	.....	21414	N6255.51	.....	21544	N6290	.....	21644
N5980	.....	21284	N6193	.....	21418	N6255.6	.....	21545	N6292	.....	21648
N5980.1	.....	21288	N6194	.....	21420	N6255.7	.....	21546	N6294	.....	21652
N5983	.....	21293	N6198	.....	21422	N6256	.....	21564	N6296.4	.....	21664
N5983.2	.....	21294	N6198.1	.....	21422.1	N6256.2	.....	21562	N6296.6	.....	21672
N5985	.....	21300	N6204	.....	21424	N6256.4	.....	21556	N6299	.....	21676
N5985.2	.....	21304	N6206	.....	21428	N6256.41	.....	21560	N6299.5	.....	21680
N6156	.....	21308	N6210	.....	21432	N6256.9	.....	21572	N6304	.....	21692
N6158	.....	21312	N6214	.....	21436	N6257	.....	21568	N6305	.....	21696
N6158.5	.....	21316	N6220	.....	21452	N6257.1	.....	21576	N6316	.....	21708
N6159	.....	21317	N6221	.....	21440	N6258	.....	21580	N6318	.....	21712
N6159.1	.....	21317.1	N6224	.....	21444	N6258.1	.....	21584	N6322	.....	21716
N6159.3	.....	21318	N6224.1	.....	21448	N6259	.....	21588	N6323	.....	21720
N6159.4	.....	21318.5	N6226	.....	21450	N6259.1	.....	21592	N6324	.....	21722
N6159.6	.....	21319	N6226.2	.....	21450.1	N6259.2	.....	21590	N6325	.....	21724
N6162	.....	21320	N6226.4	.....	21450.2	N6260	.....	21596	N6326	.....	21728
N6166	.....	21324	N6227	.....	21451	N6263	.....	21604	N7601	.....	16775
N6167	.....	21325	N6228	.....	21456	N6263.1	.....	21608	N7601.5	.....	16787
N6167.1	.....	21325.1	N6230	.....	21464	N6264	.....	21598	N7640.5	.....	17266
N6167.5	.....	21324.5	N6234	.....	21468	N6264.4	.....	21600	N7641	.....	17274
N6167.501	.....	21324.6	N6236	.....	21472	N6264.5	.....	21602	N7642	.....	17274.5
N6168	.....	21328	N6238	.....	21480	N6266	.....	21612	N7669	.....	18245
N6168.2	.....	21330	N6239	.....	21476	N6266.3	.....	21613	N7700	.....	21273
N6168.3	.....	21331	N6242	.....	21484	N6266.4	.....	21614	N7761	.....	21326
N6168.31	.....	21331.1	N6244	.....	21488	N6266.5	.....	21615	N7860	.....	21700
N6168.4	.....	21331.5	N6246	.....	21492	N6266.51	.....	21615.1			