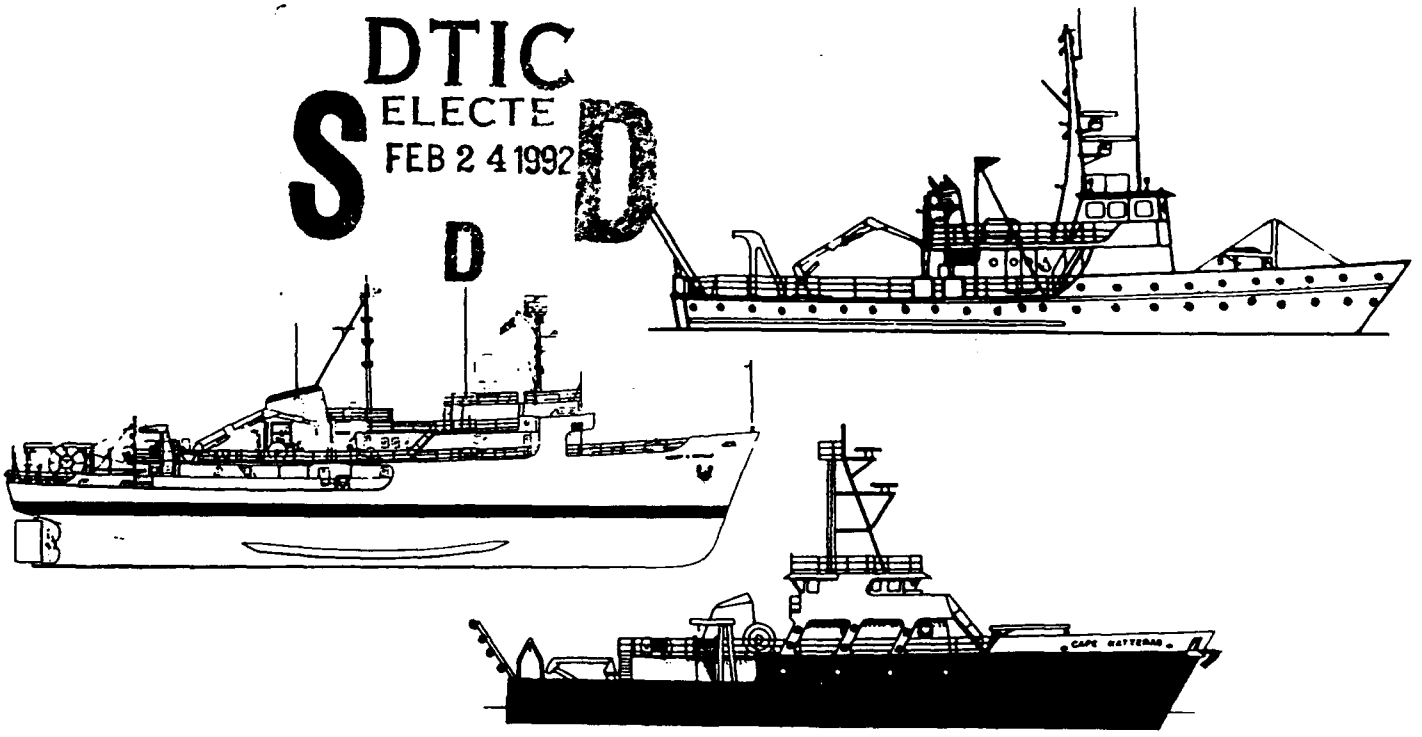
Naval Oceanographic Office
Stennis Space Center
Mississippi 39522-5001

Reference Publication
RP 53
January 1992

RP 53
Supersedes RP 34 (91)

NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS

NAVY·UNOLS·NOAA·UNIVERSITY·USCG·FEDERAL



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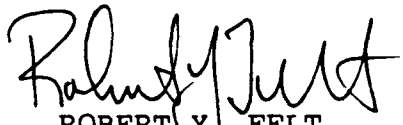
Prepared under the authority of
**Commander,
Naval Oceanography Command**

FOREWORD

The Naval Oceanographic Office (NAVOCEANO) is pleased to publish the first edition of the National Oceanographic Fleet Platform Characteristics. This document supersedes the RP 34 series that provided ship schedule information in addition to platform characteristics. Distribution is made to those individuals and activities involved in planning, scheduling, and coordinating U.S. oceanographic ship operations.

As ship operating expenses increase, efficiency of operations becomes a key ingredient for an effective national oceanographic program. To this end, efforts must be made to maximize the use of existing oceanographic platforms by "piggybacking" of projects, exchange of oceanographic data, and coordination of schedules. This publication serves as one means of assisting sponsoring activities and user organizations in effective management of national oceanographic assets.

In light of this effort, and recognizing that many ocean-capable vessels specifically configured for oceanographic research and hydrographic surveying exist in the private sector (representing a definite national asset), this edition includes platform characteristics of vessels operated by commercial concerns. An invitation is extended to other commercial concerns which operate specifically configured, deep-ocean-capable, oceanographic or hydrographic vessels to include their vessels in future editions.



ROBERT Y. FELT
Captain, U.S. Navy
Commanding Officer

This document supersedes RP 34 (91). Changes include:

- Ship schedules are available electronically and will no longer be a part of this publication.
- The 3-hole punch design is intended for addressees to retain this publication for the purpose of incorporating updates to the platform characteristics that will be distributed as required.

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RP 53

Naval Oceanographic Office
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Mississippi 39522-5001

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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	January 1992	Final

4. TITLE AND SUBTITLE
National Oceanographic Fleet Platform Characteristics

5. FUNDING NUMBERS

6. AUTHOR(S)

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
Naval Oceanographic Office
Stennis Space Center
MS 39522-5001

8. PERFORMING ORGANIZATION REPORT NUMBER
RP 53

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
Commander
Naval Oceanography Command
Stennis Space Center
MS 39529-5000

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES
This publication supersedes RP 34(91).

12a. DISTRIBUTION / AVAILABILITY STATEMENT
Approved for public release; distribution unlimited.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

This publication provides the national oceanographic fleet platform characteristics as of 1992. The data were derived from the latest inputs from the vessel operators.

14. SUBJECT TERMS
Oceanography, Oceanographic Ships

15. NUMBER OF PAGES
246

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UL

TABLE OF CONTENTS

PAGE

INTRODUCTION 1
PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES 1

ACADEMIC INSTITUTIONS - UNIVERSITY NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

UNIVERSITY OF ALASKA

ALPHA HELIX 3

UNIVERSITY OF DELAWARE

CAPE HENLOPEN 9

DUKE UNIVERSITY

CAPE HATTERAS 15

UNIVERSITY OF HAWAII

MOANA WAVE 21
KILA 25

JOHNS HOPKINS UNIVERSITY

RIDGELY WARFIELD 29

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION

EDWIN LINK 35
SEWARD JOHNSON 41

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

MAURICE EWING (formerly BERNIER) 47

LOUISIANA UNIVERSITIES MARINE CONSORTIUM

PELICAN 51

UNIVERSITY OF MIAMI

CALANUS 57
COLUMBUS ISELIN 63

TABLE OF CONTENTS (CONTINUED)

MOSS LANDING MARINE LABORATORIES

POINT SUR 67

OREGON STATE UNIVERSITY

WECOMA 73

UNIVERSITY OF RHODE ISLAND

ENDEAVOR 79

SCRIPPS INSTITUTE OF OCEANOGRAPHY

MELVILLE 83
NEW HORIZON 87
THOMAS WASHINGTON 93
FLIP 97
ORB 101
ROBERT GORDON SPROUL 105

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

BLUE FIN 111

UNIVERSITY OF SOUTHERN CALIFORNIA

JOHN V. VICKERS (formerly OSPREY) 115

TEXAS A&M UNIVERSITY

GYRE 119

UNIVERSITY OF TEXAS

LONGHORN 125

UNIVERSITY OF WASHINGTON

CLIFFORD A. BARNES 129
THOMAS G. THOMPSON 133

WOODS HOLE OCEANOGRAPHIC INSTITUTION

ATLANTIS II 141
KNORR 145
OCEANUS 151

UNIVERSITY OF MICHIGAN

LAURENTIAN 155

TABLE OF CONTENTS (CONTINUED)

BERMUDA BIOLOGICAL STATION FOR RESEARCH

WEATHERBIRD II 161

OLD DOMINION UNIVERSITY (ASSOCIATE UNOLS MEMBER)

LINWOOD HOLTON 167

OTHER OCEANOGRAPHIC SHIPS

GULF COAST RESEARCH LABORATORY

TOMMY MUNRO 171

MAINE MARITIME ACADEMY

ARGO MAINE 177

SEA EDUCATION ASSOCIATION

CORWITH CRAMER 183
WESTWARD 185

OTHER UNIVERSITY SHIPS 189

AQUALAB III
AQUARIUS
BELLOWS
C. A. DAMBACH
CORSAIR
DAN MOORE
DELAWARE BAY
DELPHINUS
EDGERTON
ENDLESS SEAS
G. A. ROUNSEFELL
GULF RESEARCHER
HOBART & WILLIAM SMITH EXPLORER
ISLA MAGUEYES
NEESKAY
NORTH STAR
ONRUST
ORION
RETRIEVER
SEA DIVER
SEAHAWK
SUNCOASTER
TURSIOPS
UCONN
VANTUNA

TABLE OF CONTENTS (CONTINUED)

FEDERAL AGENCIES

DEPARTMENT OF DEFENSE, NAVAL OCEANOGRAPHIC OFFICE

USNS BARTLETT (T-AGOR 13) 193
USNS DE STEIGUER (T-AGOR 12) 195

DEPARTMENT OF DEFENSE, NAVAL UNDERWATER SYSTEMS CENTER

ERLINE 197

DEPARTMENT OF TRANSPORTATION, U.S. COAST GUARD

USCGC POLAR SEA 201
USCGC POLAR STAR 203

NATIONAL SCIENCE FOUNDATION

POLAR DUKE 205
NATHANIEL B. PALMER 207

DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ALBATROSS IV 209
MALCOLM BALDRIDGE 211
CHAPMAN 213
JOHN N. COBB 215
TOWNSEND CROMWELL 217
DAVIDSON 219
DELAWARE II 221
DISCOVERER 223
FAIRWEATHER 225
FERREL 227
MILLER FREEMAN 229
HECK 231
DAVID STARR JORDAN 233
MCARTHUR 235
MT. MITCHELL 237
MURRE II 239
OREGON II 241
PEIRCE 243
RAINIER 245
RUDE 247
SURVEYOR 249
WHITING 251

TABLE OF CONTENTS (CONTINUED)

DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY

USNS SAMUEL P. LEE 253

ENVIRONMENTAL PROTECTION AGENCY

LAKE GUARDIAN 255
PETER W. ANDERSON 257

INTRODUCTION

This publication presents the 1992 platform characteristics for the national oceanographic fleet. Information is provided for over 90 ships which operate under various academic, governmental, or commercial organizations. Included with each ship is information on ship characteristics and engineering/deck equipment, and a point of contact.

The 1992 and future editions will not contain ship schedule information. This information will be available from an electronic bulletin board (OCEANIC) maintained at the University of Delaware and may be accessed by computer. This method will make available current schedule information which will be much more up to date than that previously published in the RP 34 series. The point of contact for the bulletin board is:

Katherine Bouton
College of Marine Studies
University of Delaware
Lewes, Delaware 19958
(302) 645-4278
FAX (302) 645-4007

Networks are available as follows:

Telemail: K. Bouton/OMNET
INTERNET: Bouton @ DELOCN.UDEC.EDU
Span: DELOCN::Bouton

Further information or assistance in accessing or inputting schedule information may be obtained from Katherine Bouton. All ship operators are highly encouraged to utilize this service.

For information on changes or modifications of vessel capabilities and related questions, please address correspondence to Commanding Officer, Naval Oceanographic Office (Attn: Operations Office), Stennis Space Center, MS 39522-5001, or call commercial (601) 688-4631/4370 or Defense Switch Network (DSN) 485-4631/4370.

PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES

The Defense Mapping Agency Hydrographic/Topographic Center (DMAHTC) is the point of contact for ship operations that use sonic emitters, towed devices, or explosive charges. Such operations present special hazards to submarine operation and navigation. DMAHTC has agreed to disseminate information concerning underwater hazards as part of the Notice to Mariners system. The intent of the reporting procedures is to eliminate mutual interference problems and equipment damage between ongoing and planned operations by advising units at sea of surface and subsurface obstacles. The revised Notice to Mariners system relies on the

cooperation of the maritime community (military, governmental, and commercial). Timely notification to DMAHTC is needed for all operations that install moored underwater instrumentation, tow or drag devices of any kind, or use sonic emitters or explosives. DMAHTC will disseminate information as follows:

a. For moored instrumentation in depths of 300 meters or less (the maximum depth where damage could result from normal fishing operations), information will be broadcast as a radio navigational warning and reprinted in Section III of the Notice to Mariners.

b. For moored instrumentation in depths greater than 300 meters, the information will not be broadcast. Documentation will be forwarded to appropriate Naval commands for their use.

c. For tow or drag devices of any kind, sonic emitters or explosives, the information will be broadcast as a radio navigational warning.

Commercial companies are not required to provide operational information to DMAHTC but are encouraged to do so. The DMAHTC point of contact for information and notification is Defense Mapping Agency Hydrographic/Topographic Center, (Attn: MCC Mail Stop D44), 4600 Sangamore Road, Bethesda, Maryland 20816-5003, commercial (301) 227-3147 or TELEX 898334, DMAHTC, Washington, DC. Military users may use Defense Switch Network (DSN) 287-3147 or AUTODIN message to DMAHTCNAVWARN WASHINGTON DC. Broadcast Watch operates 24 hours per day, seven days a week.

****

ALPHA HELIX

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. THOMAS D. SMITH
POC OFFICE:	ASSISTANT DIRECTOR, COASTAL & MARINE OPERATIONS
POC ORGANIZATION:	INSTITUTE OF MARINE SCIENCE
POC ADDRESS:	UNIVERSITY OF ALASKA BOX 730
POC CITY/STATE:	SEWARD AK 99664
COMMERCIAL AREA CODE:	907
PHONE:	224-5261

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	COASTAL
CALL SIGN (INTERNATIONAL):	WSD7078
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	NATIONAL SCIENCE FOUNDATION
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	SEWARD AK
TECHNICAL SPONSOR:	UNIVERSITY OF ALASKA
OPERATIONS CONTROL:	UNIVERSITY OF ALASKA
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	9.3/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	15
NUMBER OFFICERS:	3
NUMBER IN CREW:	5
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FUEL-H2O-REFRIGERATED STORES
BUILDER:	J M MARTINAC COMPANY
WHERE BUILT:	TACOMA WA USA
INITIAL COST:	1.3/65 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'64
LAUNCH DATE:	'65
DELIVERY DATE:	'66
COMMISSION DATE:	'66
CONVERSION DATE:	'82
LAST OVERHAUL:	'86
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	1991
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	132.8	FEET
MAX BEAM:	31.0	FEET
HEIGHT:	58.0	FEET
GROSS TONNAGE:	294	
DISPLACEMENT:	600	TONS
DRAUGHT:	13.8	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	10000	NAUTICAL MILES
MAX SPEED:	11.0	KNOTS
MIN SPEED:	1.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	BOW THRUSTER
NUMBER OF SHAFTS:	1
BOW THRUSTER:	ELLIOTT WHITE GILL 360
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE
2. 17 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY:	3800 POUNDS
NUMBER OF FRAMES:	1

CRANES OR BOOMS

MAX HOIST CAPACITY:	2800 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	6
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	6000 FEET
	WIRE DIAMETER:	0.187 INCHES
02.	MAJOR TYPE/USE:	DEEP SEA
	SECONDARY TYPE/USE:	HYDROGRAPHIC
	SLIP-RINGS:	6
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	26240 FEET
	WIRE DIAMETER:	0.438 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	HP 85, IBM-AT
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ROSS 800B/ROSS 200
SOUNDING SYSTEM (DEEP):	EDO 248E

FUEL DETAILS

FUEL CAPACITY:	32000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	750 GAL/24-HRS
DURING AVERAGE OPERATIONS:	520 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

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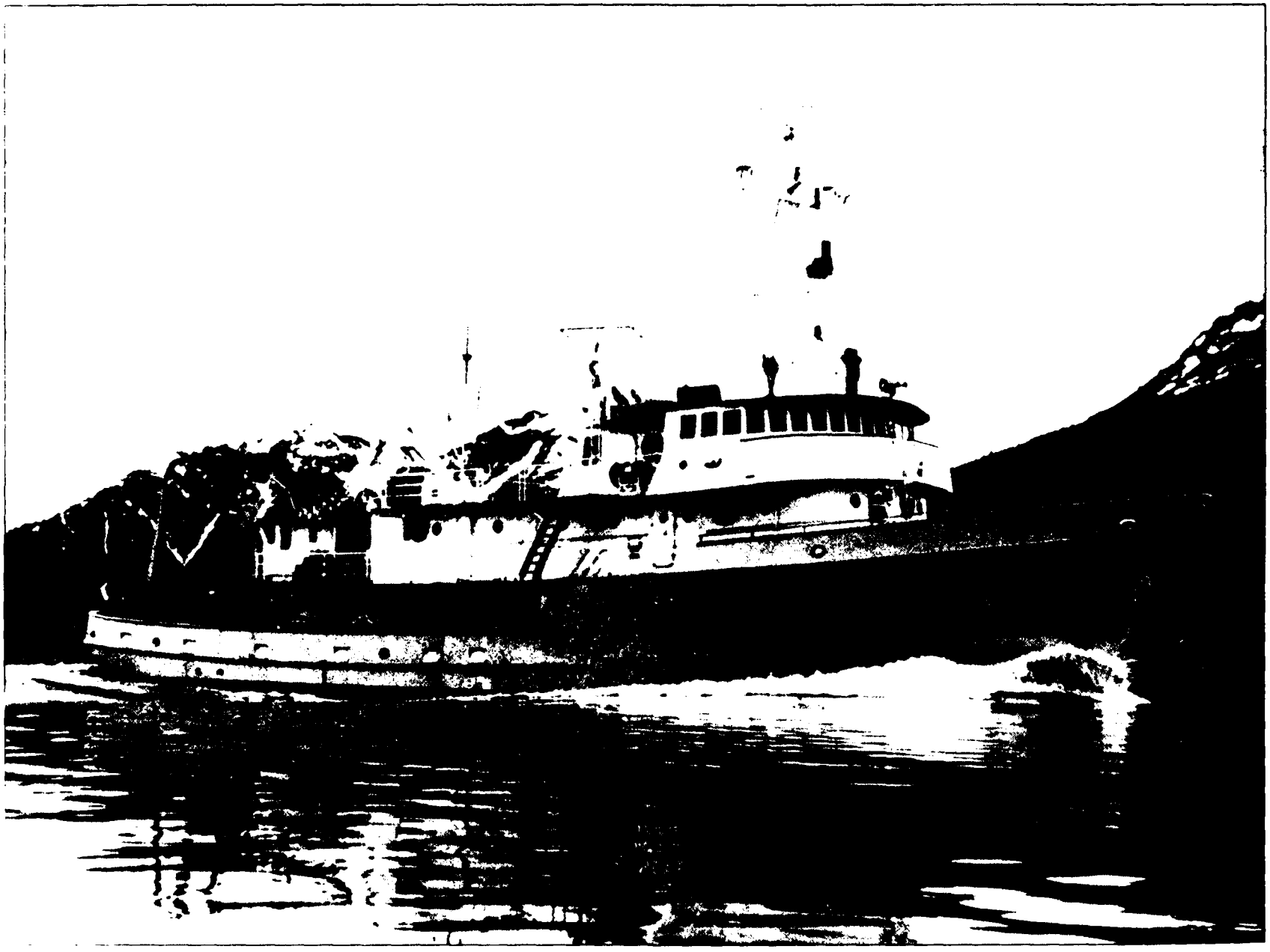
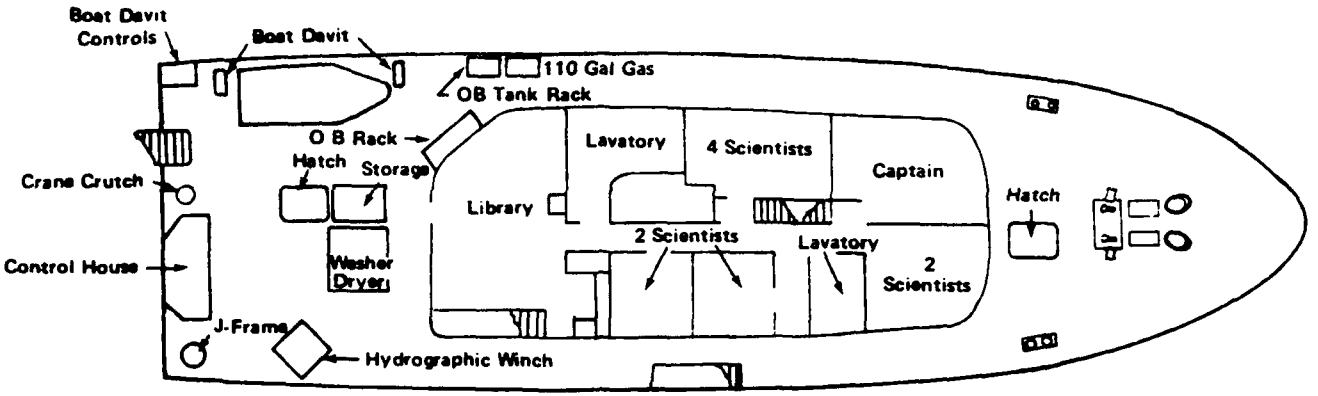
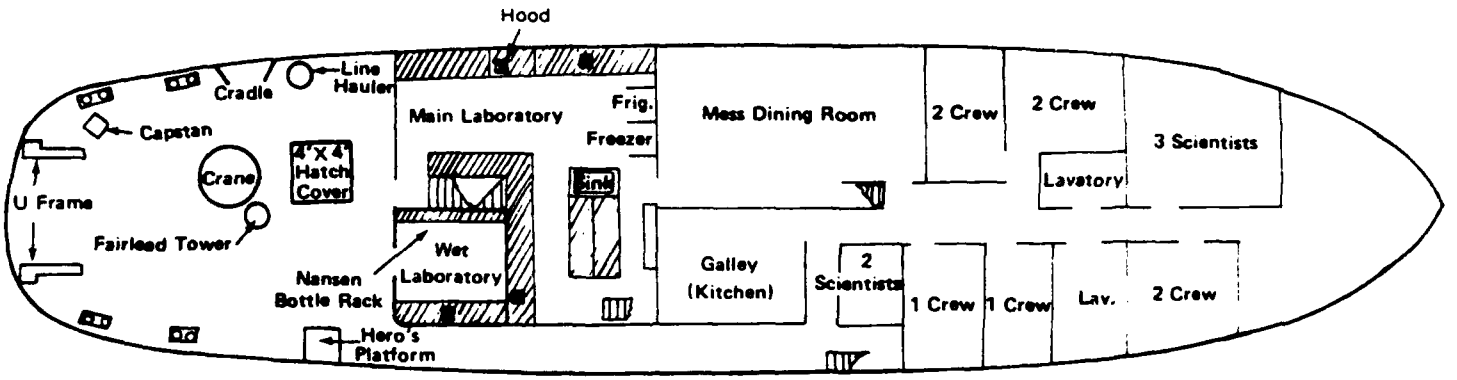


R/V ALPHA HELIX

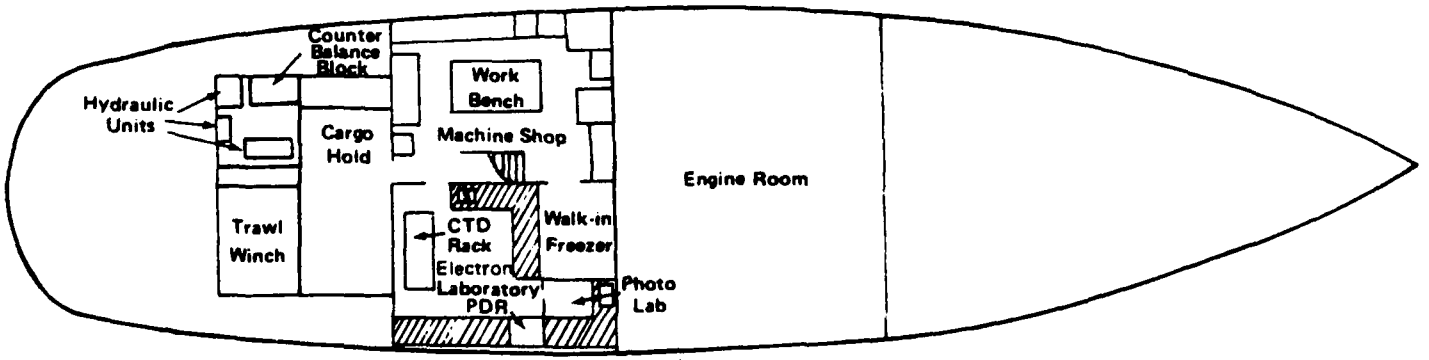
FUNCTIONAL ARRANGEMENT OF R/V *ALPHA HELIX*



UPPER DECK



MAIN DECK



LOWER DECK

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CAPE HENLOPEN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR WADSWORTH OWEN
POC OFFICE:	DIRECTOR OF FACILITIES & SERVICE
POC ORGANIZATION:	UNIVERSITY OF DELAWARE
POC ADDRESS:	700 PILOTTOWN ROAD
POC CITY/STATE:	LEWES DE 19958
COMMERCIAL AREA CODE:	302
PHONE:	645-4320

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	CREW BOAT HULL
CALL SIGN (INTERNATIONAL):	W2C8800
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-OFFSHORE
SHIP OWNER:	UNIVERSITY OF DELAWARE
CERTIFICATION AUTHORITY:	UNINSPECTED, ABS A-1
FLAG REGISTRY:	USA
HOME PORT:	LEWES DE
TECHNICAL SPONSOR:	UNIVERSITY OF DELAWARE
OPERATIONS CONTROL:	UNIVERSITY OF DELAWARE
CONTRACTUAL INFORMATION:	AVAILABLE FOR OUTSIDE USE. CALL POC.
OPERATING COST/DAY:	5.0/87 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	2
NUMBER IN CREW:	5
MAX SEA STATE:	5 BEAUFORT SCALE
ENDURANCE:	13 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	SWIFTSHIPS
WHERE BUILT:	MORGAN CITY, LA USA
INITIAL COST:	1.2/75 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'74
LAUNCH DATE:	'75
DELIVERY DATE:	'76
COMMISSION DATE:	'76
CONVERSION DATE:	'00
LAST OVERHAUL:	'00
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	2001
UPDATE OF INFORMATION:	26 OCT 90

SHIP DIMENSIONS

LENGTH:	120.0	FEET
MAX BEAM:	23.3	FEET
HEIGHT:	48.0	FEET
GROSS TONNAGE:	228	
DISPLACEMENT:	165	TONS
DRAUGHT:	9.3	FEET
CRUISE SPEED:	12.5	KNOTS
RANGE:	2368	NAUTICAL MILES
MAX SPEED:	18.0	KNOTS
MIN SPEED:	0.5	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	NO
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	Y
DEEP ANCHOR:	250 FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X16
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	Y

UTILITY BOATS:

1. 16 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	12000 POUNDS
NUMBER OF FRAMES:	4

CRANES OR BOOMS

MAX HOIST CAPACITY:	22050 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01.

MAJOR TYPE/USE:	OCEANOGRAPHIC
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	6
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	10500 FEET
WIRE DIAMETER:	0.219 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	10500 FEET
SECONDARY WIRE DIAM:	0.219 INCHES

02.	MAJOR TYPE/USE:	TRAWL
	SECONDARY TYPE/USE:	CORING
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	10500 FEET
	WIRE DIAMETER:	0.437 INCHES
	SECONDARY WIRE TYPE:	WIRE ROPE
	SECONDARY WIRE LEN:	8200 FEET
	SECONDARY WIRE DIAM:	0.500 INCHES
03.	MAJOR TYPE/USE:	ANCHOR
	SECONDARY TYPE/USE:	
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	1020 FEET
	WIRE DIAMETER:	0.750 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	4 IBM - AT COMPATIBLE
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	KONEL/BENMAR
SOUNDING SYSTEM (DEEP):	KONEL

FUEL DETAILS

FUEL CAPACITY:	9750 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	800 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

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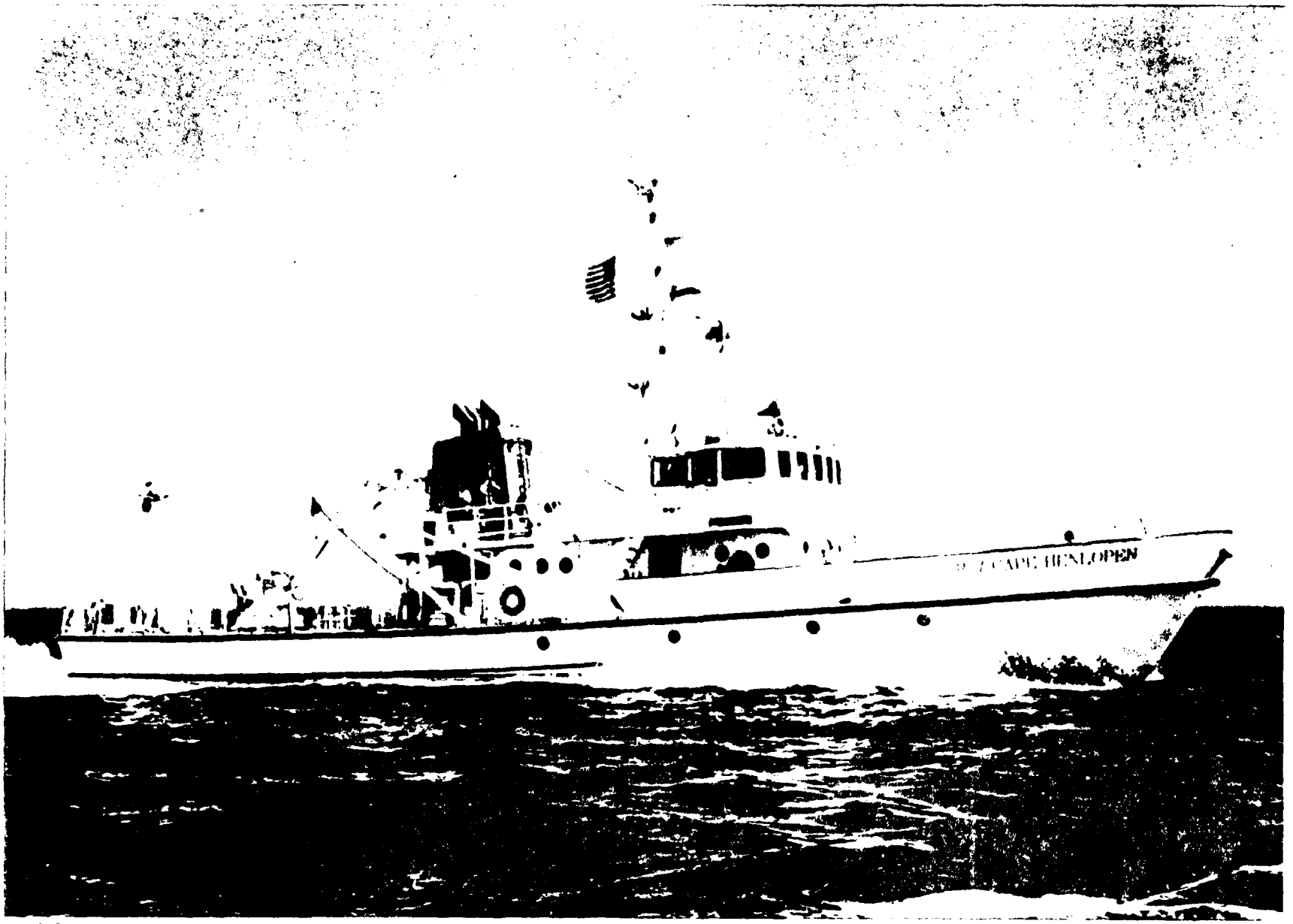
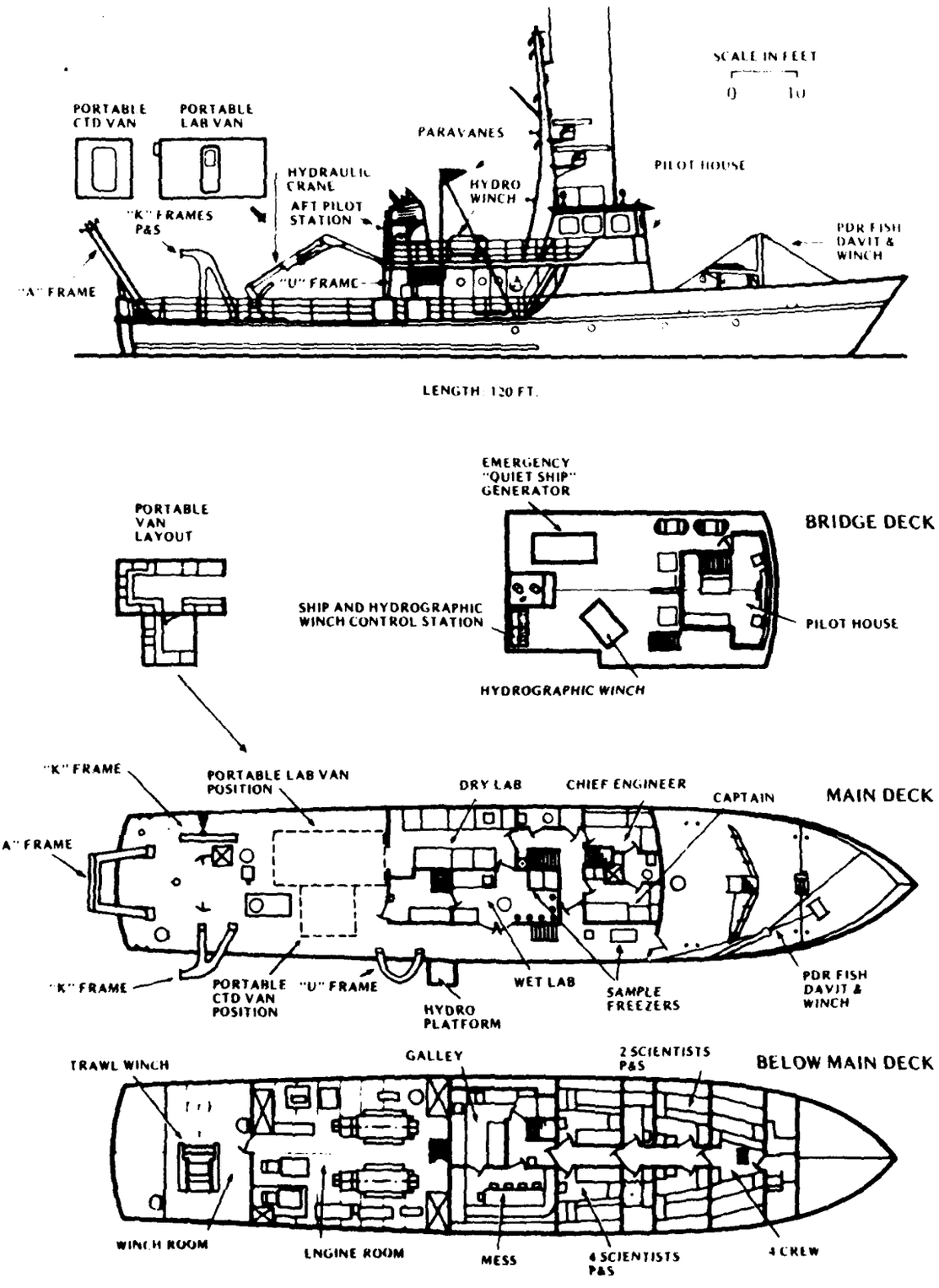


R/V CAPE HENLOPEN



R/V CAPE HENLOPEN

****

CAPE HATTERAS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR QUENTIN M. LEWIS, JR.
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	DUKE/UNC OCEANOGRAPHIC CONSORTIUM
POC ADDRESS:	DUKE UNIVERSITY MARINE LAB
POC CITY/STATE:	BEAUFORT, NC 28516
COMMERCIAL AREA CODE:	919
PHONE:	728-2111, EXT 274

ADMINISTRATIVE DETAILS

DESIGNATOR:	-
CLASS:	COASTAL ZONE R/V
CALL SIGN (INTERNATIONAL):	WRZ8934
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH - COASTAL ZONE
SHIP OWNER:	NATIONAL SCIENCE FOUNDATION
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	BEAUFORT NC USA
TECHNICAL SPONSOR:	DUKE UNIV./UNIV. OF N.C. CONSORTIUM
OPERATIONS CONTROL:	DUKE UNIV./UNIV. OF N.C. CONSORTIUM
CONTRACTUAL INFORMATION:	NSF CHARTER PARTY AGREEMENT. EXPIRES 1996.
OPERATING COST/DAY:	6.570/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	5
NUMBER IN CREW:	5
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	24 DAY(S)
LIMITING FACTOR:	FOOD STORES
BUILDER:	ATLANTIC MARINE INC.
WHERE BUILT:	FORT GEORGE ISLAND FL
INITIAL COST:	3.1/81 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	15 JUN 80
LAUNCH DATE:	'00
DELIVERY DATE:	01 AUG 81
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	15 NOV 89
MAINTENANCE CYCLE:	1.0 YEARS
END OF LIFE:	2006
UPDATE OF INFORMATION:	22 OCT 90

SHIP DIMENSIONS

LENGTH:	135.0	FEET
MAX BEAM:	32.0	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	296	
DISPLACEMENT:	539	TONS
DRAUGHT:	9.0	FEET
CRUISE SPEED:	10.5	KNOTS
RANGE:	7000	NAUTICAL MILES
MAX SPEED:	12.5	KNOTS
MIN SPEED:	0.1	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	-
NUMBER OF SHAFTS:	2
BOW THRUSTER:	-
ACTIVE RUDDER:	-
DYNAMIC POSITIONING:	-
ANTI-ROLL:	-
STABILIZER:	-
DEEP ANCHOR:	720 FEET
BERTHING VAN DIMENSIONS:	-
INSTRUMENT VAN DIMENSIONS:	5X6X9
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	-
HELO SUPPORT:	-
METEOROLOGICAL OBSERVATIONS:	-

UTILITY BOATS:

1. 17 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	15000 POUNDS
NUMBER OF FRAMES:	3

CRANES OR BOOMS

MAX HOIST CAPACITY:	12000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01.	MAJOR TYPE/USE:	OCEANOGRAPHIC
	SECONDARY TYPE/USE:	-
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	33000 FEET
	WIRE DIAMETER:	0.500 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	OTHER
	SLIP-RINGS:	1
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.187 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	-
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	20000 FEET
WIRE DIAMETER:	0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	Y
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	-
INERTIAL NAVIGATION:	-
RADAR (SURFACE SCAN):	Y
LORAN A:	-
LORAN C:	Y
OMEGA:	-
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	-
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	-
NARROW BEAM:	Y
SEISMIC PROFILING:	Y
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	-
SOUNDING SYSTEM (DEEP):	RAYTHEON/EDO

FUEL DETAILS

FUEL CAPACITY:	28695 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	800 GAL/24-HRS
DURING AVERAGE OPERATIONS:	740 GAL/24-HRS
DURING INPORT OPERATIONS:	200 GAL/24-HRS

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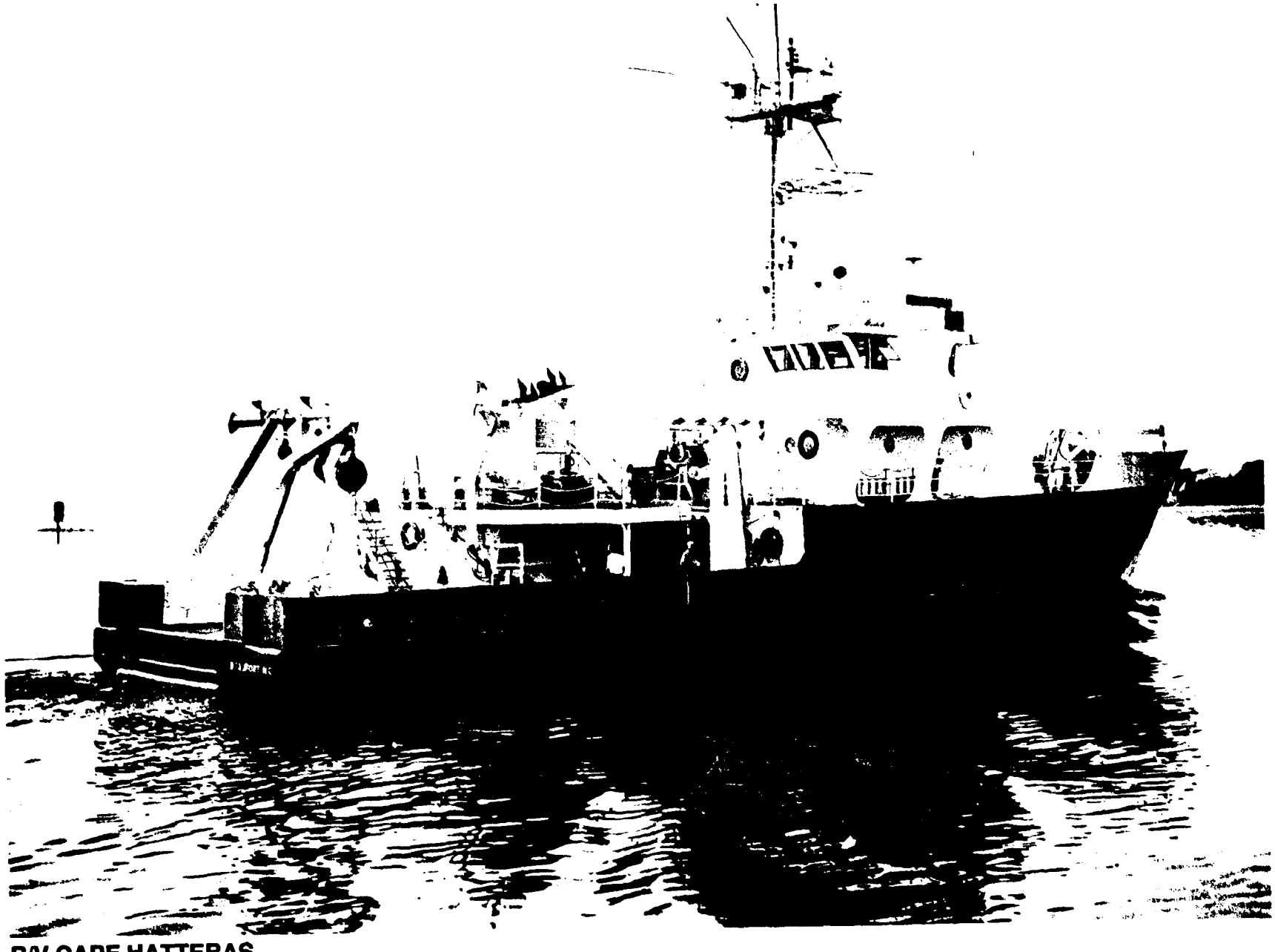
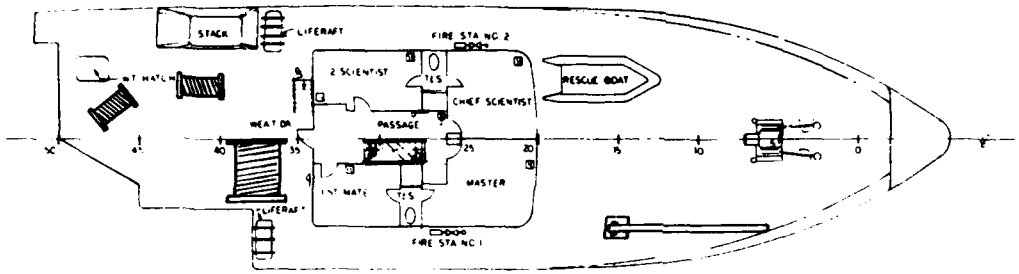
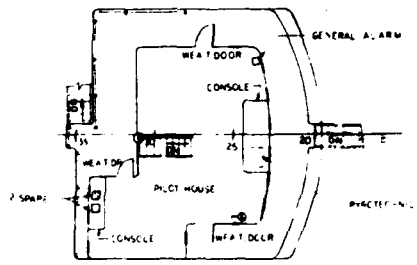


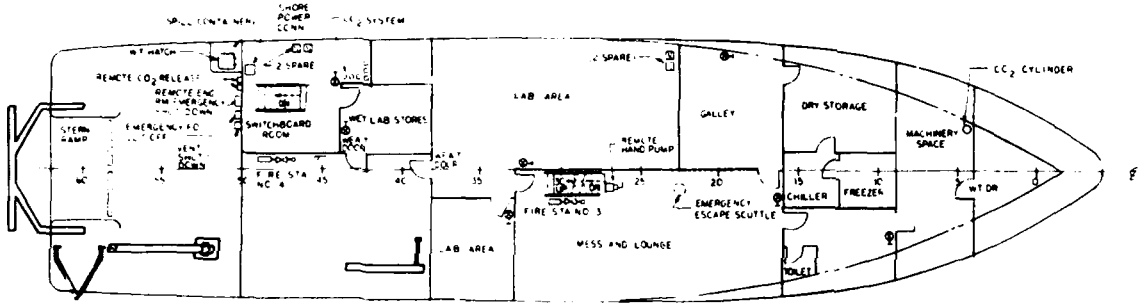
R/V CAPE HATTERAS



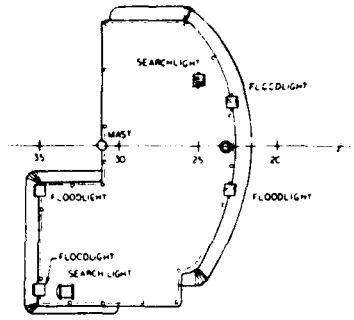
01-DECK



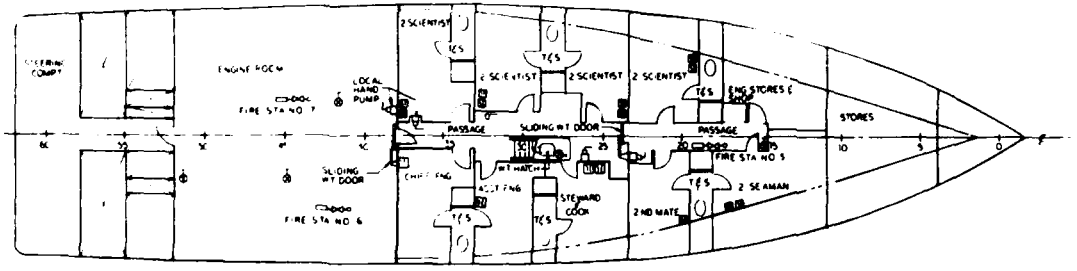
02-DECK



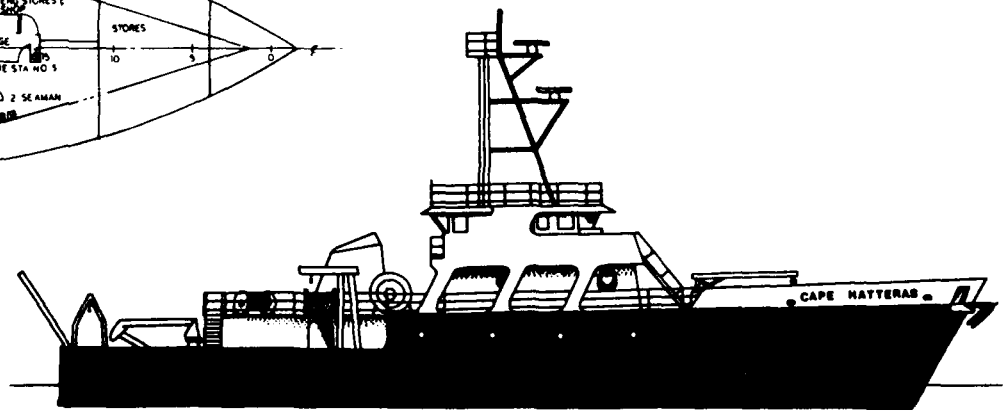
MAIN DECK



03-DECK



LOWER DECK



R/V CAPE HATTERAS

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MOANA WAVE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT JAMES W. COSTE JR
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	UNIVERSITY MARINE CENTER
POC ADDRESS:	#1 SAND ISLAND ROAD
POC CITY/STATE:	HONOLULU HI 96819
COMMERCIAL AREA CODE:	808
PHONE:	847-2661
FAX:	848-5451

ADMINISTRATIVE DETAILS

DESIGNATOR:	AGOR 22
CLASS:	GYRE/AGOR 21
CALL SIGN (INTERNATIONAL):	WUS9293
FLEET:	UNOLS
SHIP TYPE:	RESEARCH AND DEVELOPMENT
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	HONOLULU HI
TECHNICAL SPONSOR:	UNIVERSITY OF HAWAII
OPERATIONS CONTROL:	SCHOOL OF OCEAN AND EARTH SCIENCE AND TECHNOLOGY
CONTRACTUAL INFORMATION:	ONR CODE 611 LEASE TO EXPIRE 1 JAN 94
OPERATING COST/DAY:	10.6/91 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	19
NUMBER OFFICERS:	4
NUMBER IN CREW:	9
MAX SEA STATE:	5 BEAUFORT SCALE
ENDURANCE:	50 DAY(S)
LIMITING FACTOR:	REFRIGERATED STORES
BUILDER:	HALTER MARINE SERVICES INC
WHERE BUILT:	NEW ORLEANS LA USA
INITIAL COST:	3.9/73 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	18 JUN 73
DELIVERY DATE:	'73
COMMISSION DATE:	'00
CONVERSION DATE:	'84
LAST OVERHAUL:	'89
MAINTENANCE CYCLE:	3.0 YEARS
END OF LIFE:	2003
UPDATE OF INFORMATION:	22 OCT 90

SHIP DIMENSIONS

LENGTH:	213.0	FEET
MAX BEAM:	36.0	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	294	
DISPLACEMENT:	1853	TONS
DRAUGHT:	15.0	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	12000	NAUTICAL MILES
MAX SPEED:	11.5	KNOTS
MIN SPEED:	1.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	ELECTRIC 150 HP
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE
BERTHING VAN DIMENSIONS:	8X8X24
INSTRUMENT VAN DIMENSIONS:	8X8X24
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 16 FOOT RUBBER AVON, HARD BOTTOM
2. 12 FOOT RUBBER AVON
3. 16 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY:	60000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	11000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01.

MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	Y
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	33000 FEET
WIRE DIAMETER:	0.322 INCHES

02. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	45000 FEET
WIRE DIAMETER:	0.562 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	NOVA 1220
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	Y
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	Y
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	EDO/RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	125000 GALLONS
FUEL TYPE:	DIESEL #2/JP-5
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1800 GAL/24-HRS
DURING INPORT OPERATIONS:	300 GAL/24-HRS

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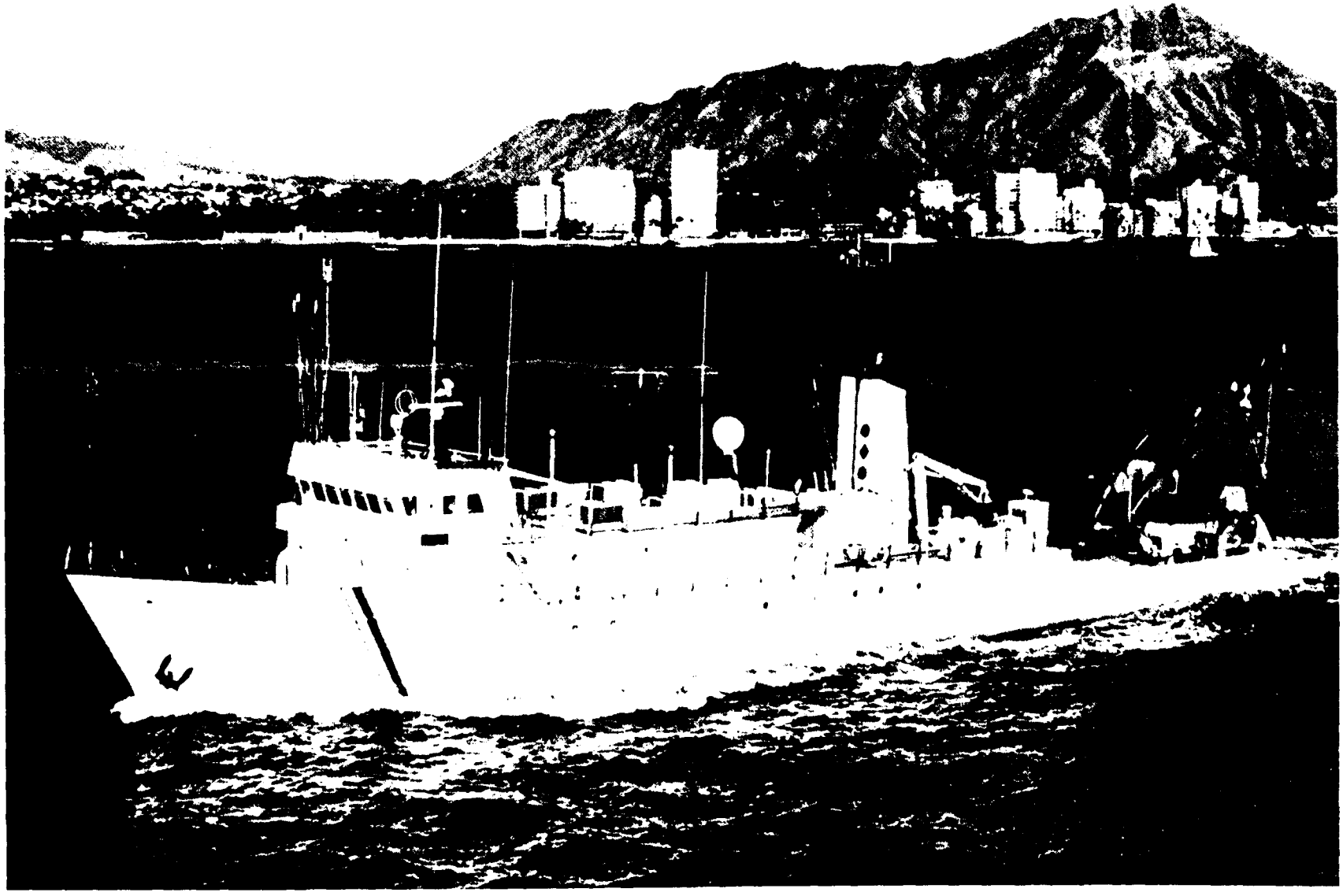

R/V MOANA WAVE

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KILA

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT JAMES W. COSTE JR
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	UNIVERSITY MARINE CENTER
POC ADDRESS:	#1 SAND ISLAND ROAD
POC CITY/STATE:	HONOLULU, HAWAII 96819
COMMERCIAL AREA CODE:	808
PHONE:	847 2661

ADMINISTRATIVE DETAILS

DESIGNATOR:	-
CLASS:	RESEARCH
CALL SIGN (INTERNATIONAL):	WRP2537
FLEET:	UNOLS
SHIP TYPE:	FISHING TRAWLER
SHIP OWNER:	HAWAII INSTITUTE OF GEOPHYSICS
CERTIFICATION AUTHORITY:	-
FLAG REGISTRY:	USA
HOME PORT:	*HONOLULU, HAWAII*
TECHNICAL SPONSOR:	UNIVERSITY OF HAWAII
OPERATIONS CONTROL:	HAWAII INSTITUTE OF GEOPHYSICS
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	3.6/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	1
NUMBER IN CREW:	4
MAX SEA STATE:	5 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FUEL/REFRIG. STORES
BUILDER:	BENDER WELDING & MACHINE CO., MOBILE
WHERE BUILT:	MOBILE ALABAMA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'77
DELIVERY DATE:	'00
COMMISSION DATE:	'00
CONVERSION DATE:	'82
LAST OVERHAUL:	'89
MAINTENANCE CYCLE:	3.0 YEARS
END OF LIFE:	1992
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	104.0	FEET
MAX BEAM:	24.0	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	192	
DISPLACEMENT:	-	TONS
DRAUGHT:	12.9	FEET
CRUISE SPEED:	8.0	KNOTS
RANGE:	5000	NAUTICAL MILES
MAX SPEED:	8.0	KNOTS
MIN SPEED:	2.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	343 DIESELS
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	2
BOW THRUSTER:	NO
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	Y
DRY-LAB:	N
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 12 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES	
MAX HOIST CAPACITY:	20000 POUNDS
NUMBER OF FRAMES:	1
CRANES OR BOOMS	
MAX HOIST CAPACITY:	7000 POUNDS
NUMBER OF CRANES:	1
WINCHES:	
01. MAJOR TYPE/USE:	UTILITY
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	3000 FEET
WIRE DIAMETER:	0.500 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	24500	GALLONS
FUEL TYPE:		DIESEL
FUEL CONSUMPTION RATES:		
AT NORMAL CRUISING SPEED:	820	GAL/24-HRS
DURING AVERAGE OPERATIONS:	500	GAL/24-HRS
DURING INPORT OPERATIONS:	25	GAL/24-HRS

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RIDGELY WARFIELD

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR BRUCE K CORNWALL
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	CHESAPEAKE BAY INSTITUTE
POC ADDRESS:	JOHNS HOPKINS UNIVERSITY
POC CITY/STATE:	SHADY SIDE MD 20764
COMMERCIAL AREA CODE:	301
PHONE:	867-7550

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	CATAMARAN
CALL SIGN (INTERNATIONAL):	WYZ3360
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	JOHNS HOPKINS UNIVERSITY
CERTIFICATION AUTHORITY:	-
FLAG REGISTRY:	USA
HOME PORT:	ANNAPOLIS MD
TECHNICAL SPONSOR:	JOHNS HOPKINS UNIVERSITY
OPERATIONS CONTROL:	JOHNS HOPKINS UNIVERSITY
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	5.5/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	11
NUMBER OFFICERS:	4
NUMBER IN CREW:	6
MAX SEA STATE:	4 BEAUFORT SCALE
ENDURANCE:	10 DAY(S)
LIMITING FACTOR:	FUEL, CREW
BUILDER:	BETHLEHEM STEEL CORPORATION
WHERE BUILT:	BALTIMORE MD USA
INITIAL COST:	1.25/67 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'67
DELIVERY DATE:	'67
COMMISSION DATE:	'67
CONVERSION DATE:	'00
LAST OVERHAUL:	01 OCT 89
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	1992
UPDATE OF INFORMATION:	26 NOV 90

SHIP DIMENSIONS

LENGTH:	106.0	FEET
MAX BEAM:	34.0	FEET
HEIGHT:	46.0	FEET
GROSS TONNAGE:	262	
DISPLACEMENT:	162	TONS
DRAUGHT:	9.6	FEET
CRUISE SPEED:	14.0	KNOTS
RANGE:	1500	NAUTICAL MILES
MAX SPEED:	14.0	KNOTS
MIN SPEED:	2.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	NO
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	NO
UTILITY BOATS:	
1. 17 FOOT BOSTON WHALER	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	2240 POUNDS
NUMBER OF FRAMES:	1
CRANES OR BOOMS	
MAX HOIST CAPACITY:	2240 POUNDS
NUMBER OF CRANES:	1
WINCHES:	
01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.375 INCHES
02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.156 INCHES
03. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	
SLIP-RINGS:	1

WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.322 INCHES
04. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.375 INCHES
05. MAJOR TYPE/USE:	ANCHOR
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.500 INCHES
06. MAJOR TYPE/USE:	ANCHOR
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.375 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	YES, 2 IBM CLONE PC-AT
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	FURUNO
LORAN A:	N
LORAN C:	NORTHSTAR
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	HARRIS RF
VHF COMMUNICATIONS:	RAYTHEON
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON,INNERSPACE
SOUNDING SYSTEM (DEEP):	INNERSPACE

FUEL DETAILS

FUEL CAPACITY:	12000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1920 GAL/24-HRS
DURING AVERAGE OPERATIONS:	500 GAL/24-HRS
DURING INPORT OPERATIONS:	50 GAL/24-HRS

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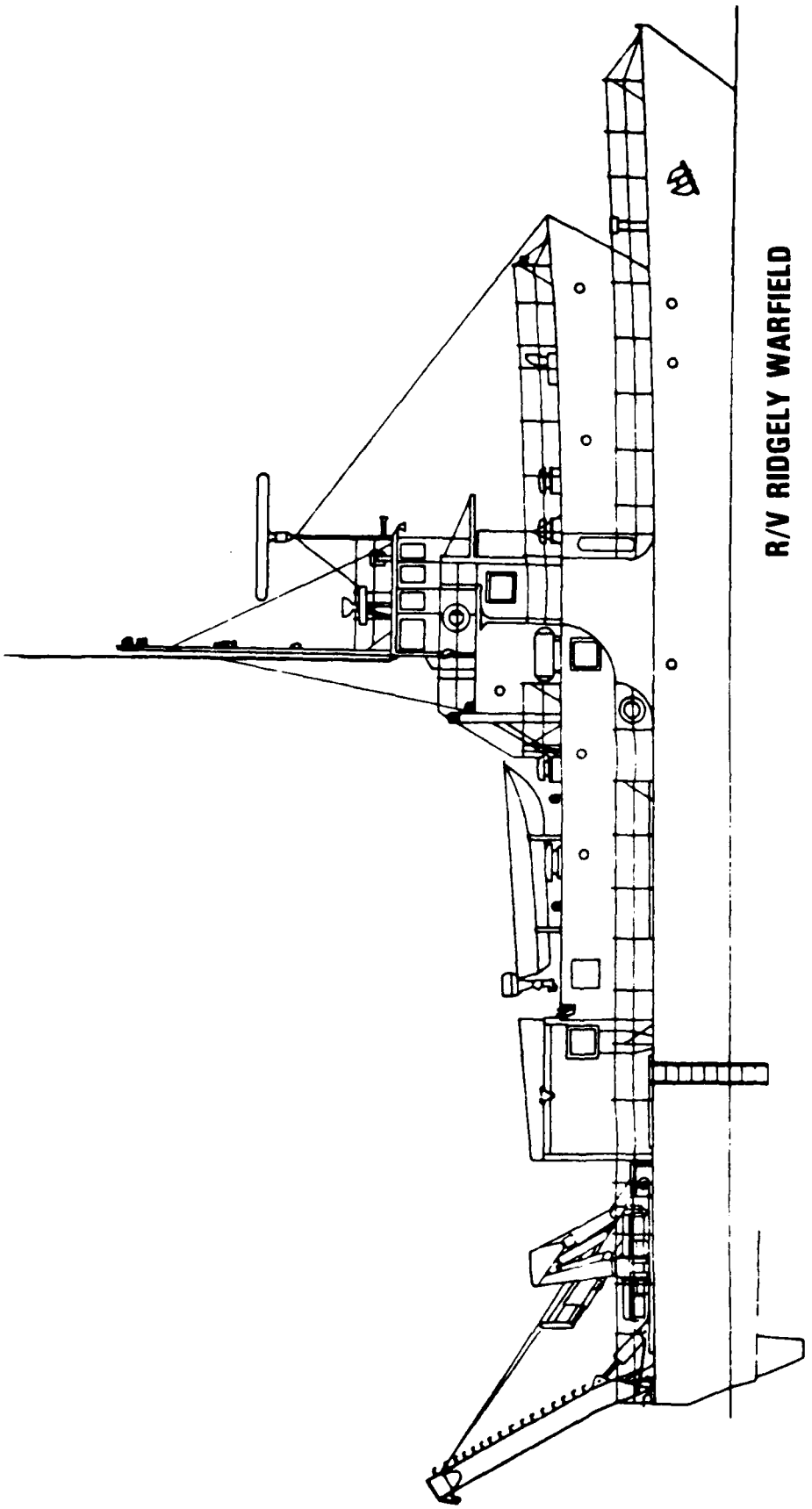
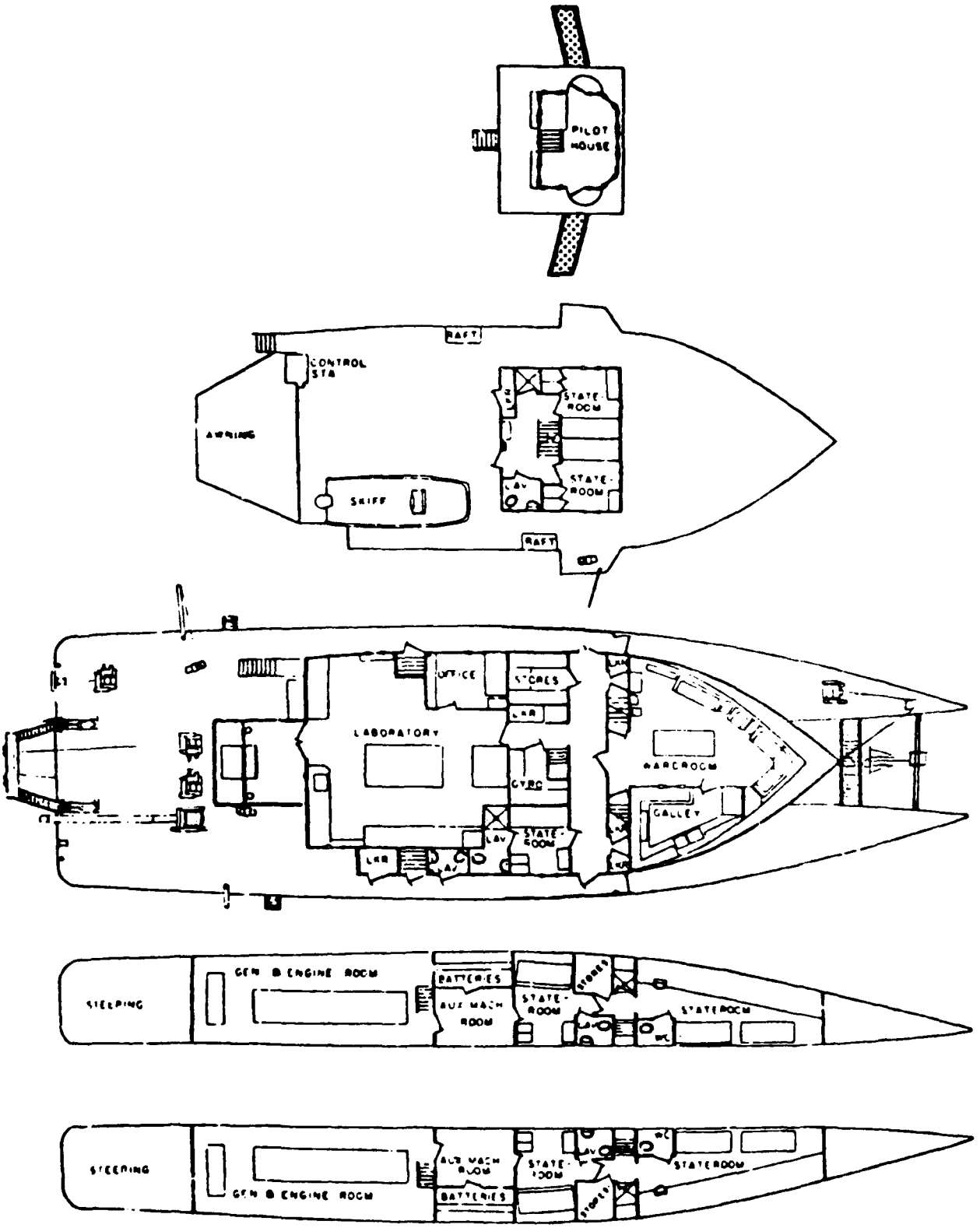

R/V RIDGELY WARFIELD



R/V RIDGELY WARFIELD

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EDWIN LINK

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. TIMOTHY ASKEW
POC OFFICE:	DIRECTOR, MARINE OPERATIONS
POC ORGANIZATION:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION, INC.
POC ADDRESS:	5600 OLD DIXIE HIGHWAY
POC CITY/STATE:	FORT PIERCE FL 34946
COMMERCIAL AREA CODE:	407
PHONE:	465-2400 EXT 262
FAX:	465-2446
TELEX:	522886

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	OFFSHORE SUPPLY VESSEL
CALL SIGN (INTERNATIONAL):	WTL4798
FLEET:	UNOLS
SHIP TYPE:	SUBMERSIBLE TENDER/OCEAN RESEARCH
SHIP OWNER:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	FT PIERCE FL
TECHNICAL SPONSOR:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
OPERATIONS CONTROL:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	7.8/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	20
NUMBER OFFICERS:	5
NUMBER IN CREW:	5
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FUEL/STORES
BUILDER:	HOUMA FABRICATORS
WHERE BUILT:	HOUMA, LA USA
INITIAL COST:	N/A MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'81
LAUNCH DATE:	'81
DELIVERY DATE:	'82
COMMISSION DATE:	'82
CONVERSION DATE:	'88
LAST OVERHAUL:	'87
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	2020
UPDATE OF INFORMATION:	03 DEC 90

SHIP DIMENSIONS

LENGTH:	168.0	FEET
MAX BEAM:	38.0	FEET
HEIGHT:	60.0	FEET
GROSS TONNAGE:	288	
DISPLACEMENT:	781	TONS
DRAUGHT:	11.0	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	6000	NAUTICAL MILES
MAX SPEED:	11.0	KNOTS
MIN SPEED:	0.1	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	2
BOW THRUSTER:	360 DEG STEERABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X20
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 17 FOOT RUBBER INFLATABLE
2. 13 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY:	36000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	10000 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01.	MAJOR TYPE/USE:	OTHER
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	300 FEET
	WIRE DIAMETER:	1.500 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	4200 FEET
	WIRE DIAMETER:	0.188 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	3000 FEET
WIRE DIAMETER:	0.188 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE

ELECTRONIC EQUIPMENT

COMPUTERS:	NEC, VARIOUS PC'S
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	Y
SOUNDING SYSTEM (SHALLOW):	FURUNO,IMPULSE 960
SOUNDING SYSTEM (DEEP):	FURUNO

FUEL DETAILS

FUEL CAPACITY:	62000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2400 GAL/24-HRS
DURING AVERAGE OPERATIONS:	900 GAL/24-HRS
DURING INPORT OPERATIONS:	192 GAL/24-HRS

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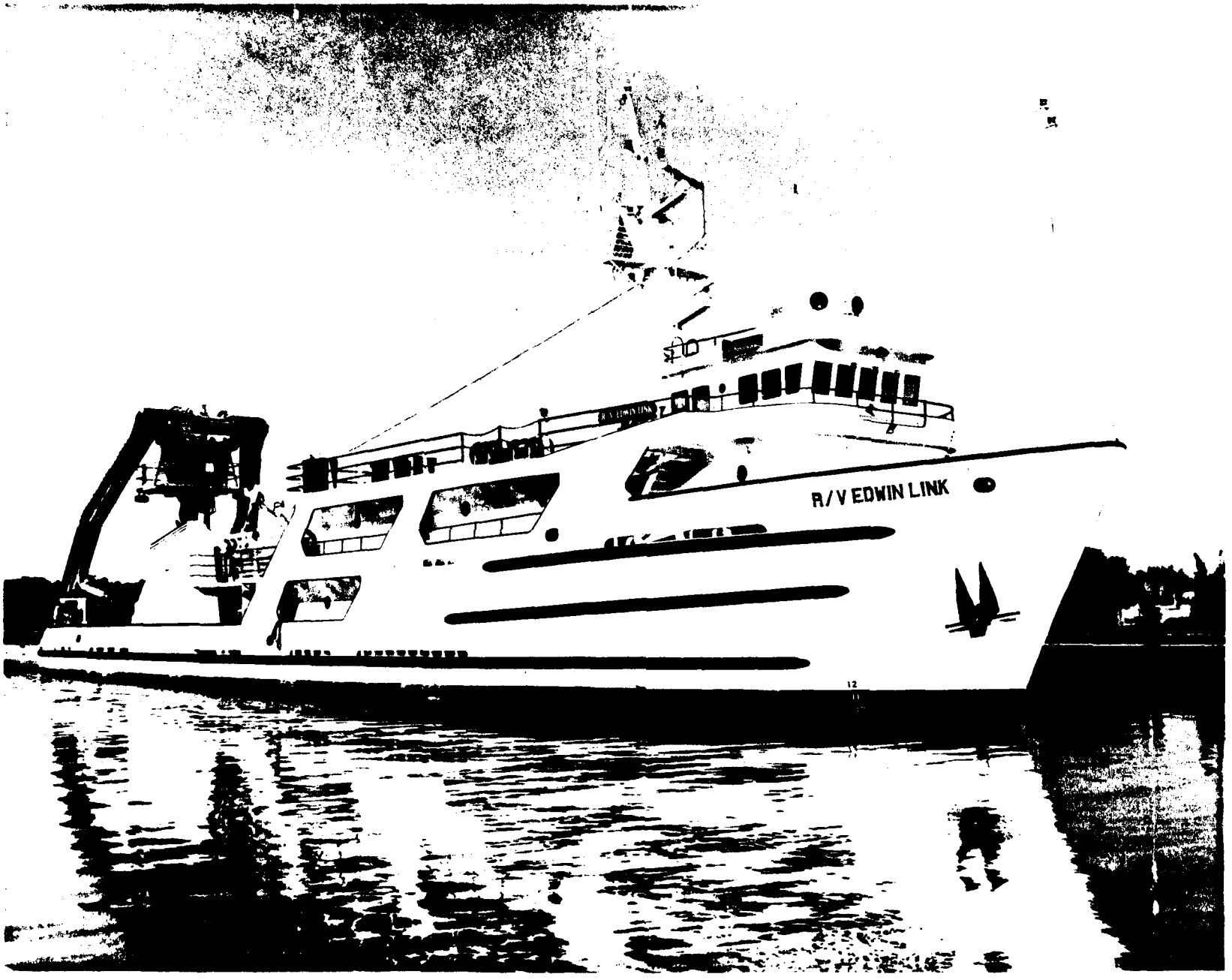
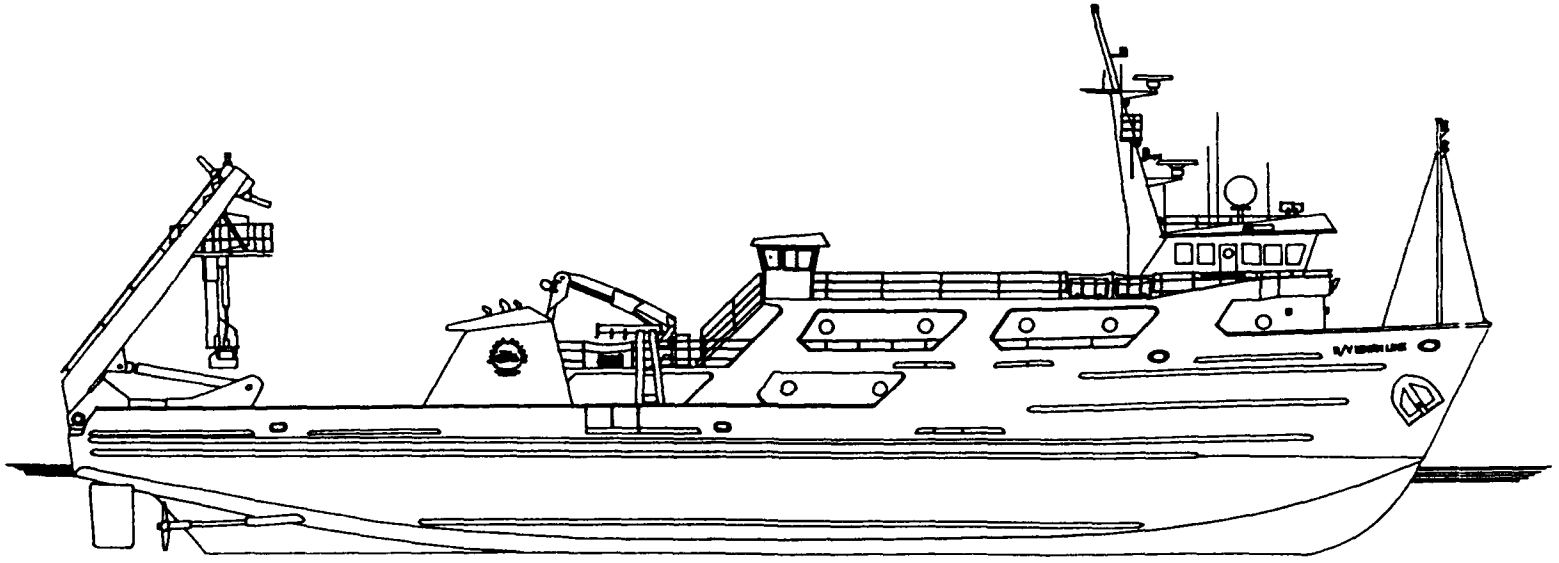


R/V EDWIN LINK



R/V EDWIN LINK

OUTBOARD PROFILE

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SEWARD JOHNSON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. TIM ASKEW
POC OFFICE:	DIRECTOR, MARINE OPERATIONS
POC ORGANIZATION:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION, INC.
POC ADDRESS:	5600 OLD DIXIE HIGHWAY
POC CITY/STATE:	FT. PIERCE, FL 34946
COMMERCIAL AREA CODE:	407
PHONE:	465-2400 EXT 262
FAX:	465-2446
TELEX:	522886

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	COLOMBUS ISELIN
CALL SIGN (INTERNATIONAL):	WST9756
FLEET:	UNOLS
SHIP TYPE:	SUBMERSIBLE TENDER/OCEAN RESEARCH
SHIP OWNER:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	FT. PIERCE, FL
TECHNICAL SPONSOR:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
OPERATIONS CONTROL:	HARBOR BRANCH OCEANOGRAPHIC INSTITUTION
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	7.8/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	20
NUMBER OFFICERS:	5
NUMBER IN CREW:	5
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FUEL/STORES
BUILDER:	ATLANTIC MARINE INC
WHERE BUILT:	FORT GEORGE ISLAND FL
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'84
LAUNCH DATE:	'84
DELIVERY DATE:	'85
COMMISSION DATE:	'85
CONVERSION DATE:	'00
LAST OVERHAUL:	'90
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	2020
UPDATE OF INFORMATION:	03 DEC 90

SHIP DIMENSIONS

LENGTH:	176.0	FEET
MAX BEAM:	36.0	FEET
HEIGHT:	60.0	FEET
GROSS TONNAGE:	299	
DISPLACEMENT:	880	TONS
DRAUGHT:	12.0	FEET
CRUISE SPEED:	12.0	KNOTS
RANGE:	8000	NAUTICAL MILES
MAX SPEED:	13.0	KNOTS
MIN SPEED:	0.1	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	2
BOW THRUSTER:	360 DEG STEERABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	Y
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X20
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 17 FOOT RUBBER INFLATABLE
2. 13 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY:	36000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	10000 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01.	MAJOR TYPE/USE:	OTHER
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	300 FEET
	WIRE DIAMETER:	1.500 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	3000 FEET
	WIRE DIAMETER:	0.188 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	3000 FEET
WIRE DIAMETER:	0.188 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	NEC, VARIOUS PC'S
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	Y
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	EDO

FUEL DETAILS

FUEL CAPACITY:	60000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2160 GAL/24-HRS
DURING AVERAGE OPERATIONS:	720 GAL/24-HRS
DURING INPORT OPERATIONS:	160 GAL/24-HRS

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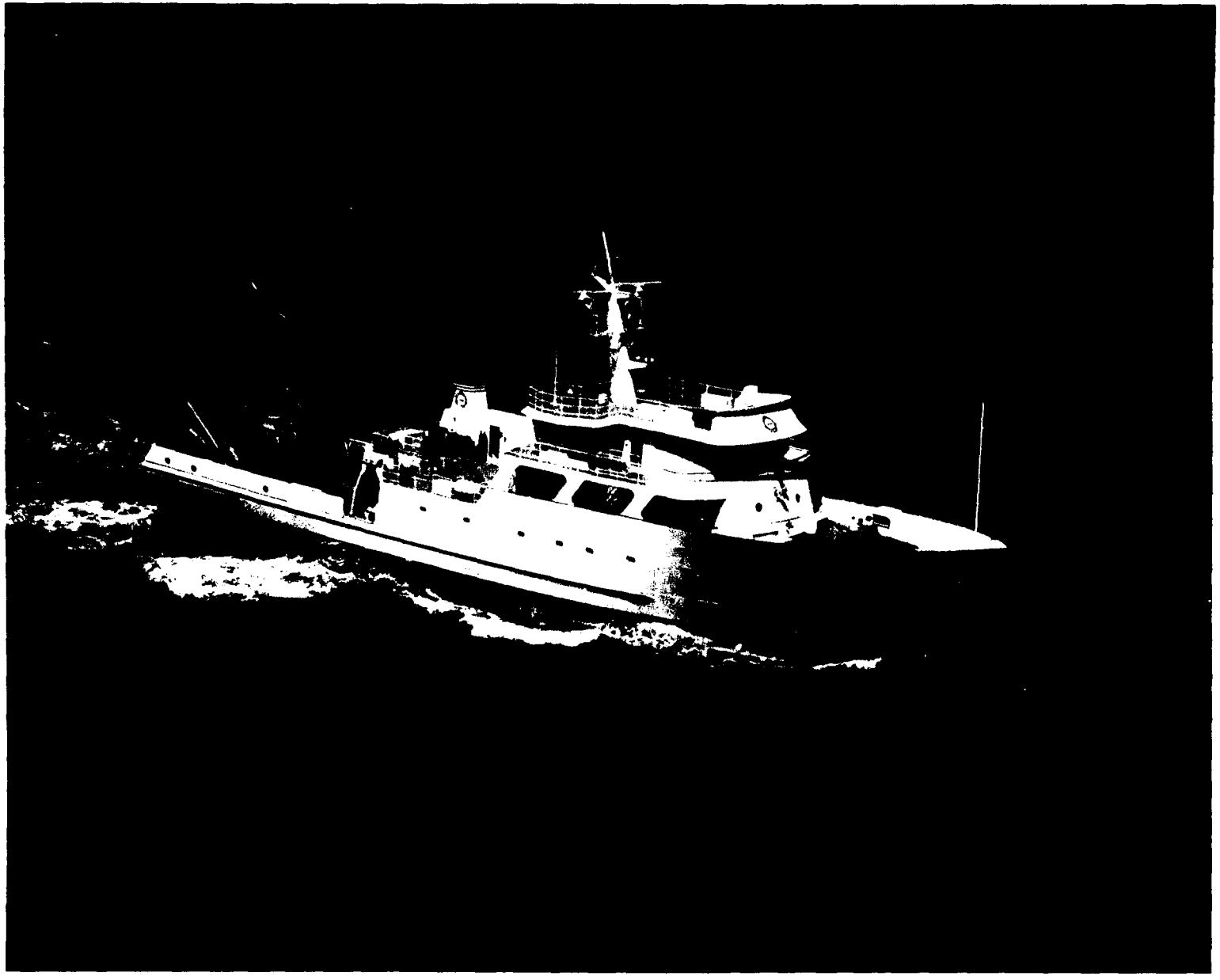
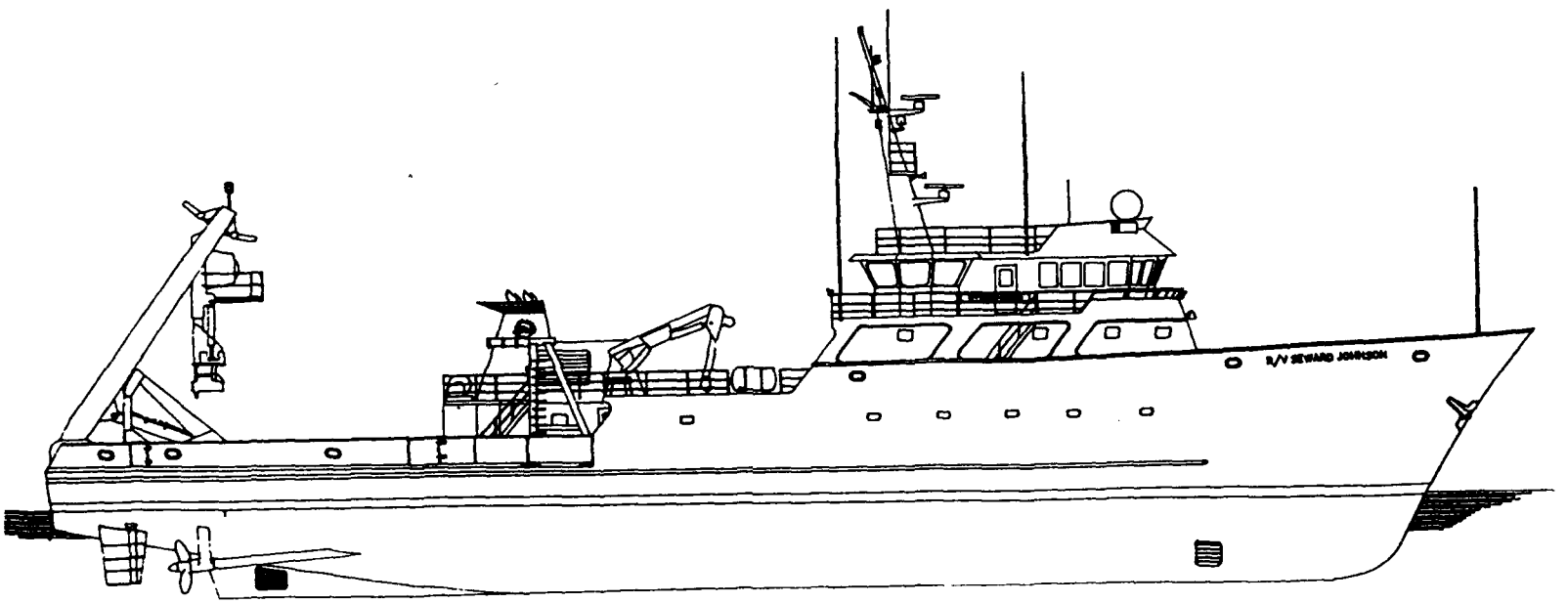


R/V SEWARD JOHNSON



R/V SEWARD JOHNSON
OUTBOARD PROFILE

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MAURICE EWING

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT. PAUL LJUNGGREN
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	OFFICE OF MARINE AFFAIRS
POC ADDRESS:	LAMONT-DOHERTY GEOLOGICAL OBSERVATORY
POC CITY/STATE:	PALISADES, NY 10964
COMMERCIAL AREA CODE:	914
PHONE:	359-2900 EXT. 367

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	SEISMIC SURVEY
CALL SIGN (INTERNATIONAL):	WLDZ
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH - GENERAL
SHIP OWNER:	COLUMBIA UNIVERSITY
CERTIFICATION AUTHORITY:	US COAST GUARD - ABS
FLAG REGISTRY:	USA
HOME PORT:	NEW YORK NY
TECHNICAL SPONSOR:	LAMONT-DOHERTY GEOLOGICAL OBSERVATORY
OPERATIONS CONTROL:	LDGO OFFICE OF MARINE AFFAIRS
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	15.1/91 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	28
NUMBER OFFICERS:	9
NUMBER IN CREW:	13
MAX SEA STATE:	8 BEAUFORT SCALE
ENDURANCE:	60 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	MARINE INDUSTRIE LIMITEE
WHERE BUILT:	SOREL P.Q. CANADA
INITIAL COST:	- MILLION $'S IN YEAR
DUE DATE:	-
KEEL DATE:	OCT 82
LAUNCH DATE:	-
DELIVERY DATE:	JUL 83
COMMISSION DATE:	-
CONVERSION DATE:	JUN 90
LAST OVERHAUL:	JUN 90
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	-
UPDATE OF INFORMATION:	10 DEC 90

SHIP DIMENSIONS

LENGTH:	239.0	FEET
MAX BEAM:	46.0	FEET
HEIGHT:	100.0	FEET
GROSS TONNAGE:	1978	
DISPLACEMENT:	2637	TONS
DRAUGHT:	18.0	FEET
CRUISE SPEED:	11.5	KNOTS
RANGE:	15000	NAUTICAL MILES
MAX SPEED:	13.4	KNOTS
MIN SPEED:	1.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL ELECTRIC SCR
AUXILIARY PROPULSION:	DIESEL ELECTRIC SCR
NUMBER OF SHAFTS:	1
BOW THRUSTER:	TUNNEL
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	N
BERTHING VAN DIMENSIONS:	N
INSTRUMENT VAN DIMENSIONS:	8X8X20 (3)
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	MINIMAL
UTILITY BOATS:	
1. 17 FOOT RIB	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	40000 POUNDS
NUMBER OF FRAMES:	2
CRANES OR BOOMS	
MAX HOIST CAPACITY:	12000 POUNDS
NUMBER OF CRANES:	3
WINCHES:	
01. MAJOR TYPE/USE:	CORING
SECONDARY TYPE/USE:	DREDGE
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.562 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	30000 FEET
SECONDARY WIRE DIAM:	0.680 INCHES

02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	CTD
	SLIP-RINGS:	3
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.320 INCHES
03.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	OTHER
	SLIP-RINGS:	3
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.250 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	HASSCOMP,VAX,SGI,IBM
FACSIMILE:	N
ELECTROMAGNETIC LOG:	DOPPLER
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ELAC
SOUNDING SYSTEM (DEEP):	12 & 3.5 KHZ, MULTIBEAM

FUEL DETAILS

FUEL CAPACITY:	160000 GALLONS
FUEL TYPE:	MARINE GAS OIL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2500 GAL/24-HRS
DURING AVERAGE OPERATIONS:	2500 GAL/24-HRS
DURING INPORT OPERATIONS:	1250 GAL/24-HRS

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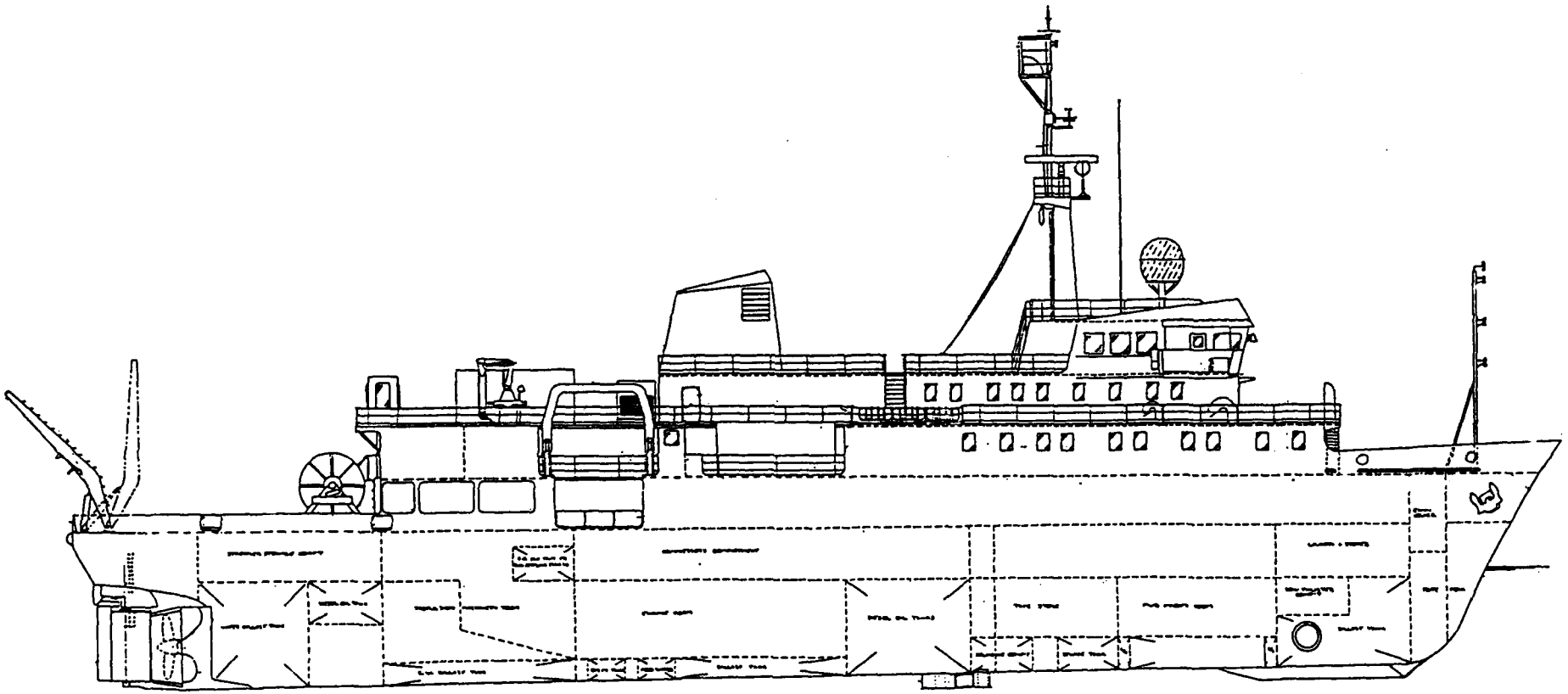

R/V MAURICE EWING
OUTBOARD PROFILE

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PELICAN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR STEVE RABALAIS
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	LOUISIANA UNIVERSITY MARINE CONSORTIUM
POC ADDRESS:	LUMCON
POC CITY/STATE:	CHAUVIN LA 70344
COMMERCIAL AREA CODE:	504
PHONE:	851-2800

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	OCEANOGRAPHIC RESEARCH
CALL SIGN (INTERNATIONAL):	WSK3051
FLEET:	UNOLS
SHIP TYPE:	GENERAL OCEAN RESEARCH
SHIP OWNER:	LOUISIANA UNIVERSITY MARINE CONSORTIUM
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	COCODRIE LA USA
TECHNICAL SPONSOR:	LOUISIANA UNIVERSITY MARINE CONSORTIUM
OPERATIONS CONTROL:	LOUISIANA UNIVERSITY MARINE CONSORTIUM
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	3.2/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	15
NUMBER OFFICERS:	3
NUMBER IN CREW:	2
MAX SEA STATE:	4 BEAUFORT SCALE
ENDURANCE:	18 DAY(S)
LIMITING FACTOR:	REFRIGERATED STORES
BUILDER:	ALLIED SHIPYARD
WHERE BUILT:	LAROSE LA USA
INITIAL COST:	1.7/85 MILLION $'S IN YEAR
DUE DATE:	15 FEB 85
KEEL DATE:	00 NOV 83
LAUNCH DATE:	'85
DELIVERY DATE:	'85
COMMISSION DATE:	'85
CONVERSION DATE:	'00
LAST OVERHAUL:	'00
MAINTENANCE CYCLE:	1.0 YEARS
END OF LIFE:	2010
UPDATE OF INFORMATION:	24 OCT 90

SHIP DIMENSIONS

LENGTH:	105.0	FEET
MAX BEAM:	26.5	FEET
HEIGHT:	48.0	FEET
GROSS TONNAGE:	291	
DISPLACEMENT:	244	TONS
DRAUGHT:	9.0	FEET
CRUISE SPEED:	9.0	KNOTS
RANGE:	3490	NAUTICAL MILES
MAX SPEED:	9.0	KNOTS
MIN SPEED:	-	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	2
BOW THRUSTER:	HYDRAULIC TUNNEL
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE
BERTHING VAN DIMENSIONS:	8X8X10
INSTRUMENT VAN DIMENSIONS:	8X8X10
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	YES
UTILITY BOATS:	
1. 13 FOOT UTILITY	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	36000 POUNDS
NUMBER OF FRAMES:	1
CRANES OR BOOMS	
MAX HOIST CAPACITY:	8000 POUNDS
NUMBER OF CRANES:	1
WINCHES:	
01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	18000 FEET
WIRE DIAMETER:	0.500 INCHES
02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	10500 FEET
WIRE DIAMETER:	0.187 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	24000 FEET
WIRE DIAMETER:	0.219 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	ZENITH 386
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	DATA SONICS

FUEL DETAILS

FUEL CAPACITY:	15724	GALLONS
FUEL TYPE:		DIESEL #2/DIESEL #1
FUEL CONSUMPTION RATES:		
AT NORMAL CRUISING SPEED:	600	GAL/24-HRS
DURING AVERAGE OPERATIONS:	400	GAL/24-HRS
DURING INPORT OPERATIONS:	150	GAL/24-HRS

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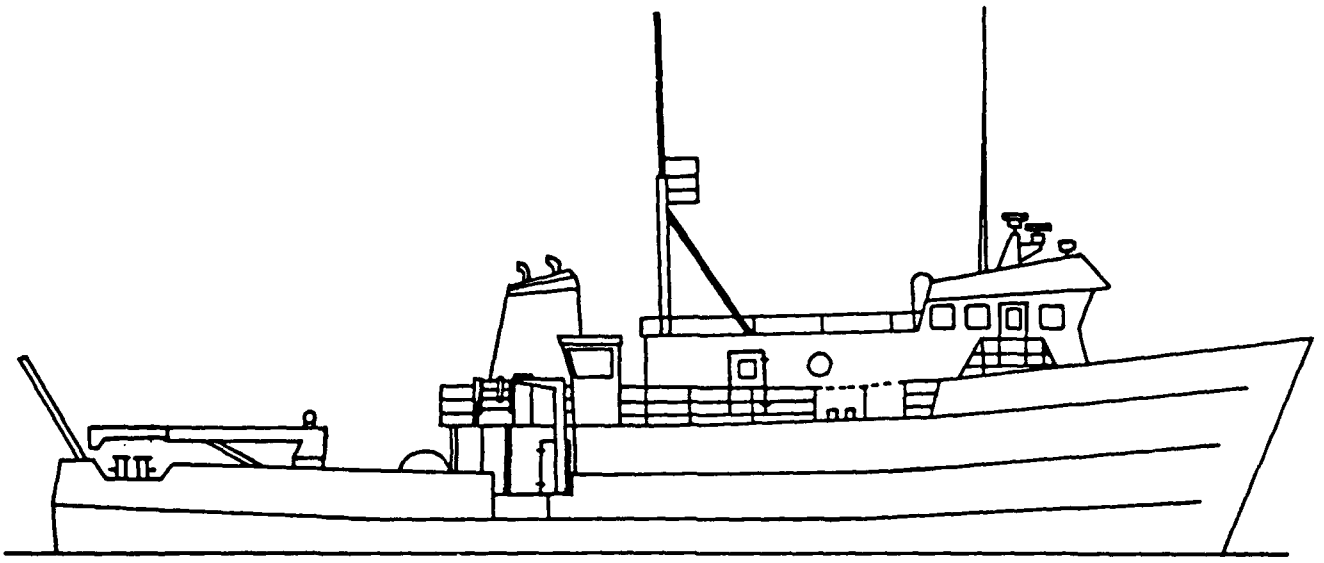
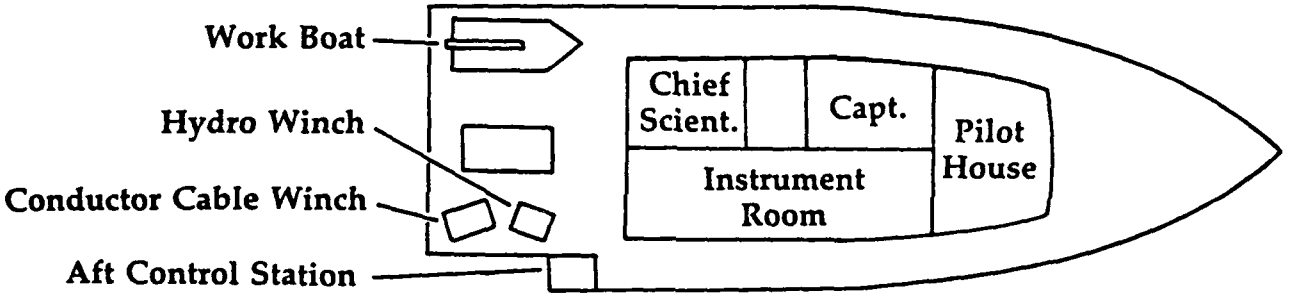
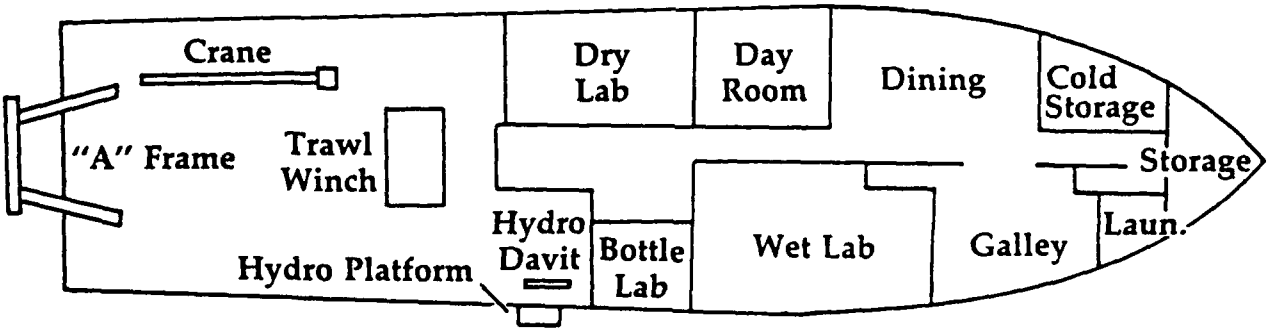
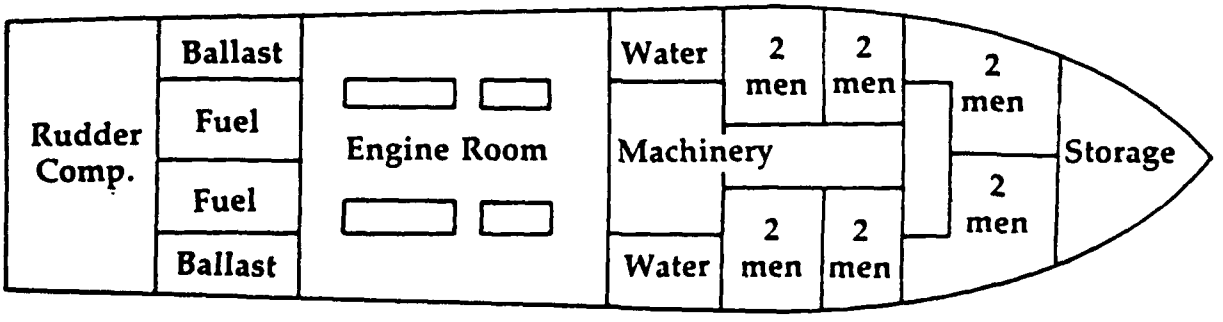
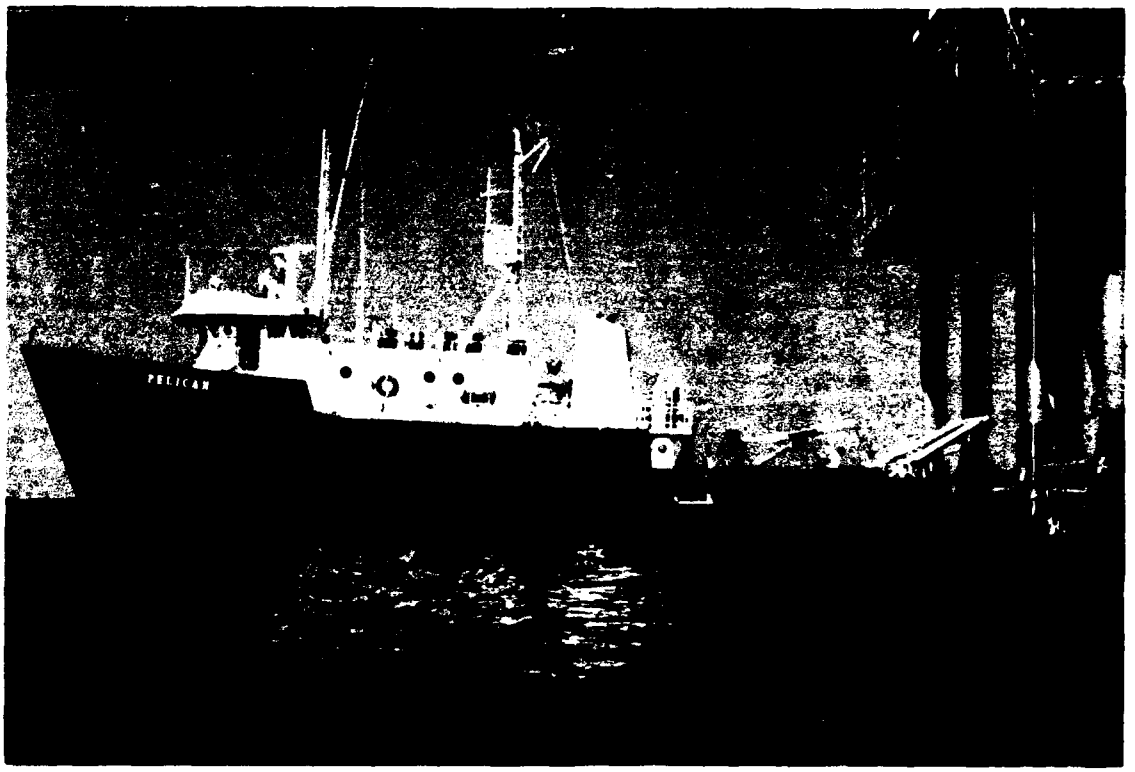



Work Boat
Hydro Winch
Conductor Cable Winch
Aft Control Station
Chief Scient.
Capt.
Pilot House
Instrument Room


Crane
"A" Frame
Trawl Winch
Hydro Platform
Hydro Davit
Dry Lab
Day Room
Dining
Cold Storage
Storage
Bottle Lab
Wet Lab
Galley
Laun.


Rudder Comp.
Ballast
Fuel
Fuel
Ballast
Engine Room
Water
2 men
2 men
2 men
Machinery
2 men
Storage
2 men
2 men
Water
2 men
2 men



R/V PELICAN

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CALANUS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. RON HUTCHINSON
POC OFFICE:	MANAGER, MARINE OPERATIONS
POC ORGANIZATION:	UNIVERSITY OF MIAMI
POC ADDRESS:	4600 RICKENBACKER CAUSEWAY
POC CITY/STATE:	MIAMI FL 33149
COMMERCIAL AREA CODE:	305
PHONE:	361-4880

ADMINISTRATIVE DETAILS

DESIGNATOR:	ORV
CLASS:	CLASS E
CALL SIGN (INTERNATIONAL):	WTR7339
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	UNIVERSITY OF MIAMI
CERTIFICATION AUTHORITY:	NONE
FLAG REGISTRY:	USA
HOME PORT:	MIAMI FL
TECHNICAL SPONSOR:	UNIVERSITY OF MIAMI
OPERATIONS CONTROL:	UNIVERSITY OF MIAMI
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	2.2/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	6
NUMBER OFFICERS:	1
NUMBER IN CREW:	1
MAX SEA STATE:	4 BEAUFORT SCALE
ENDURANCE:	15 DAY(S)
LIMITING FACTOR:	CREW
BUILDER:	ATLANTIC MARINE INC
WHERE BUILT:	JACKSONVILLE FL USA
INITIAL COST:	.089/71 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	00 MAR 71
LAUNCH DATE:	'71
DELIVERY DATE:	00 SEP 71
COMMISSION DATE:	00 OCT 71
CONVERSION DATE:	'00
LAST OVERHAUL:	'85
MAINTENANCE CYCLE:	1.0 YEARS
END OF LIFE:	1995
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	69.0	FEET
MAX BEAM:	20.0	FEET
HEIGHT:	24.0	FEET
GROSS TONNAGE:	83	
DISPLACEMENT:	88	TONS
DRAUGHT:	4.9	FEET
CRUISE SPEED:	6.5	KNOTS
RANGE:	2500	NAUTICAL MILES
MAX SPEED:	7.0	KNOTS
MIN SPEED:	-	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	NO
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X12
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	5000 POUNDS
NUMBER OF FRAMES:	1

CRANES OR BOOMS

MAX HOIST CAPACITY:	1500 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	10000 FEET
WIRE DIAMETER:	0.322 INCHES
02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	6000 FEET
WIRE DIAMETER:	0.187 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	HP 85 (2)
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	4800 GALLONS
FUEL TYPE:	MG-O/DIESEL #2/LIGHT DO
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	216 GAL/24-HRS
DURING AVERAGE OPERATIONS:	150 GAL/24-HRS
DURING INPORT OPERATIONS:	20 GAL/24-HRS

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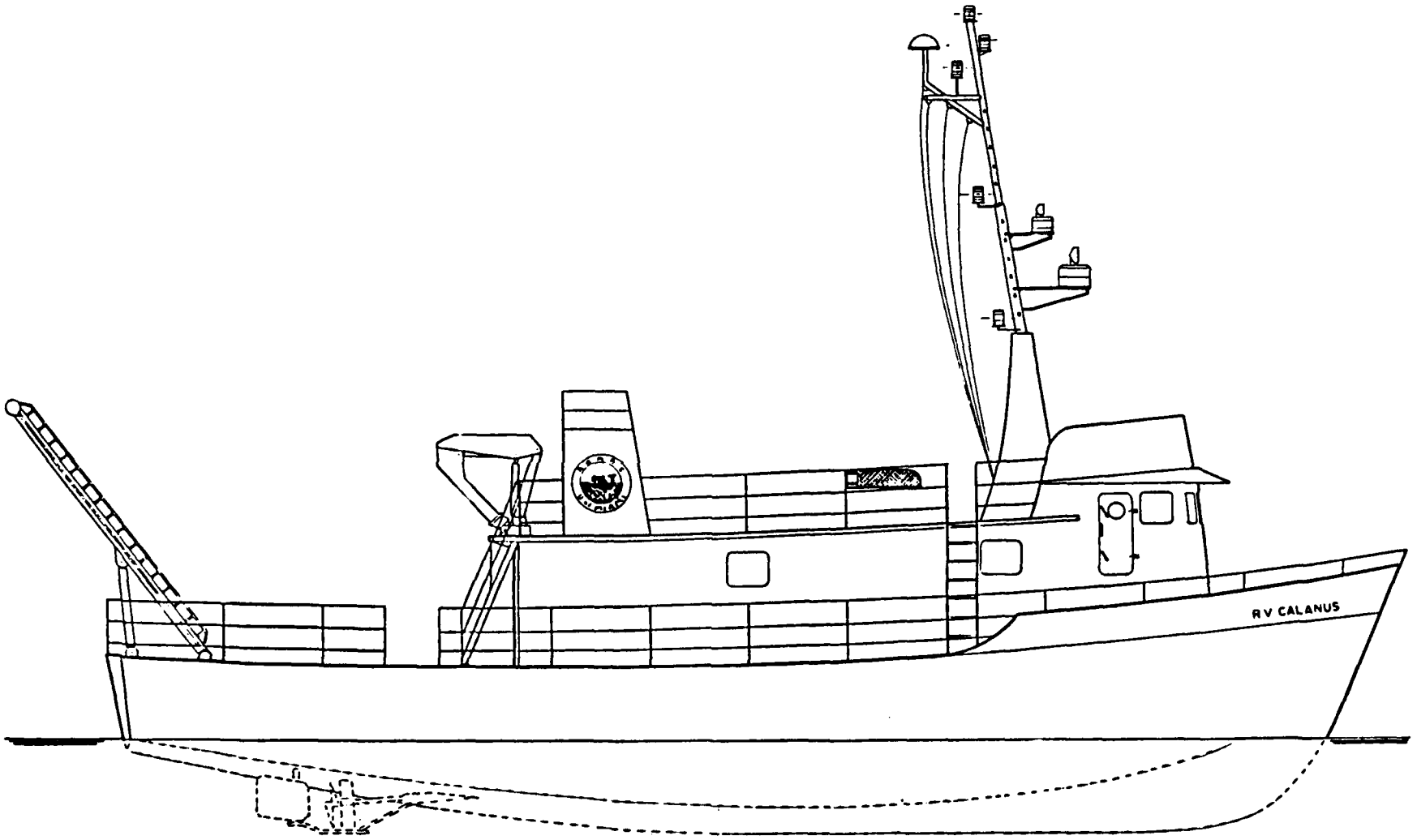
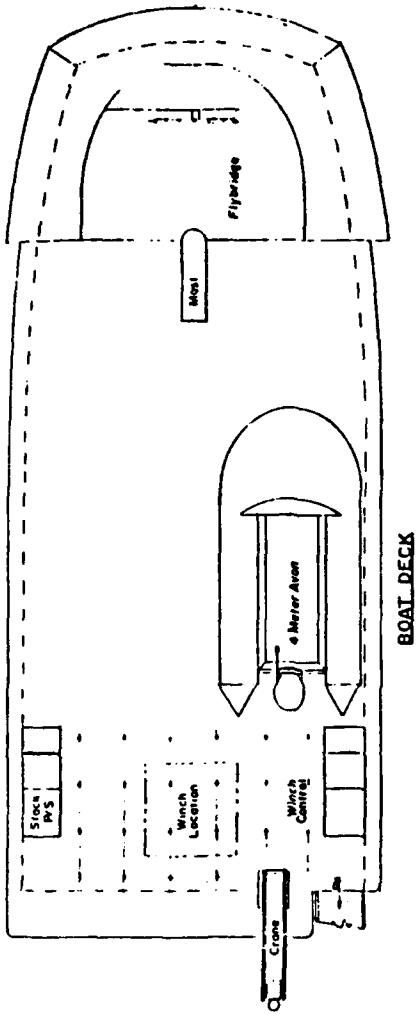
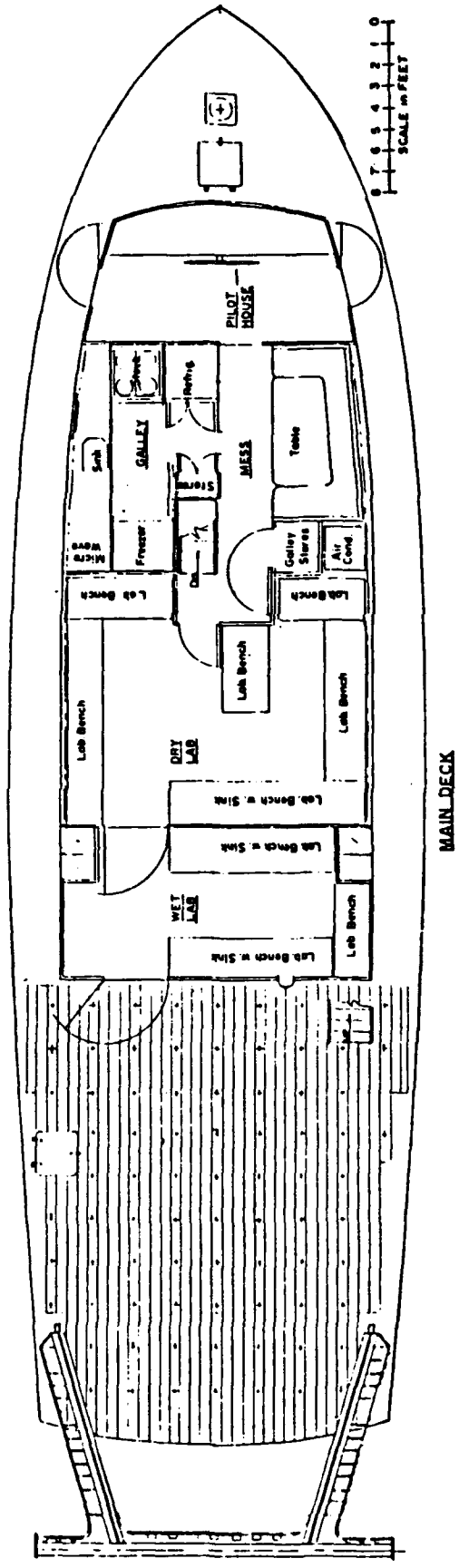


OUTBOARD PROFILE

R/V CALANUS



BOAT DECK



MAIN DECK

R/V CALANUS

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COLUMBUS ISELIN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR RON HUTCHINSON
POC OFFICE:	MANAGER, MARINE OPERATIONS
POC ORGANIZATION:	UNIVERSITY OF MIAMI
POC ADDRESS:	4600 RICKENBACKER CAUSEWAY
POC CITY/STATE:	MIAMI FL 33149
COMMERCIAL AREA CODE:	305
PHONE:	361-4080

ADMINISTRATIVE DETAILS

DESIGNATOR:	ORV
CLASS:	CLASS C
CALL SIGN (INTERNATIONAL):	WTB5807
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	UNIVERSITY OF MIAMI
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	MIAMI FL
TECHNICAL SPONSOR:	UNIVERSITY OF MIAMI
OPERATIONS CONTROL:	UNIVERSITY OF MIAMI
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	8.7/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	24
NUMBER OFFICERS:	6
NUMBER IN CREW:	6
MAX SEA STATE:	5 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	CREW
BUILDER:	J BELLINGER SHIPYARDS INC
WHERE BUILT:	JACKSONVILLE FL USA
INITIAL COST:	1.4/72 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	00 FEB 71
LAUNCH DATE:	'71
DELIVERY DATE:	15 SEP 72
COMMISSION DATE:	15 SEP 72
CONVERSION DATE:	'00
LAST OVERHAUL:	'85
MAINTENANCE CYCLE:	1.0 YEARS
END OF LIFE:	2002
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	170.0	FEET
MAX BEAM:	36.0	FEET
HEIGHT:	60.0	FEET
GROSS TONNAGE:	281	
DISPLACEMENT:	830	TONS
DRAUGHT:	10.5	FEET
CRUISE SPEED:	12.5	KNOTS
RANGE:	9700	NAUTICAL MILES
MAX SPEED:	14.5	KNOTS
MIN SPEED:	-	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	TUNNEL
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X20
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 18 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES	
MAX HOIST CAPACITY:	20000 POUNDS
NUMBER OF FRAMES:	2
CRANES OR BOOMS	
MAX HOIST CAPACITY:	10000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01.	MAJOR TYPE/USE:	TRAWL
	SECONDARY TYPE/USE:	CORING
	SLIP-RINGS:	Y
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	33000 FEET
	WIRE DIAMETER:	0.562 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	CTD
	SLIP-RINGS:	Y
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	33000 FEET
	WIRE DIAMETER:	0.322 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	33000 FEET
WIRE DIAMETER:	0.187 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	MICROVAX III,IBM PCS
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	EDO/RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	56000 GALLONS
FUEL TYPE:	DIESEL #2/MG-O/LIGHT DO
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1500 GAL/24-HRS
DURING AVERAGE OPERATIONS:	869 GAL/24-HRS
DURING INPORT OPERATIONS:	160 GAL/24-HRS

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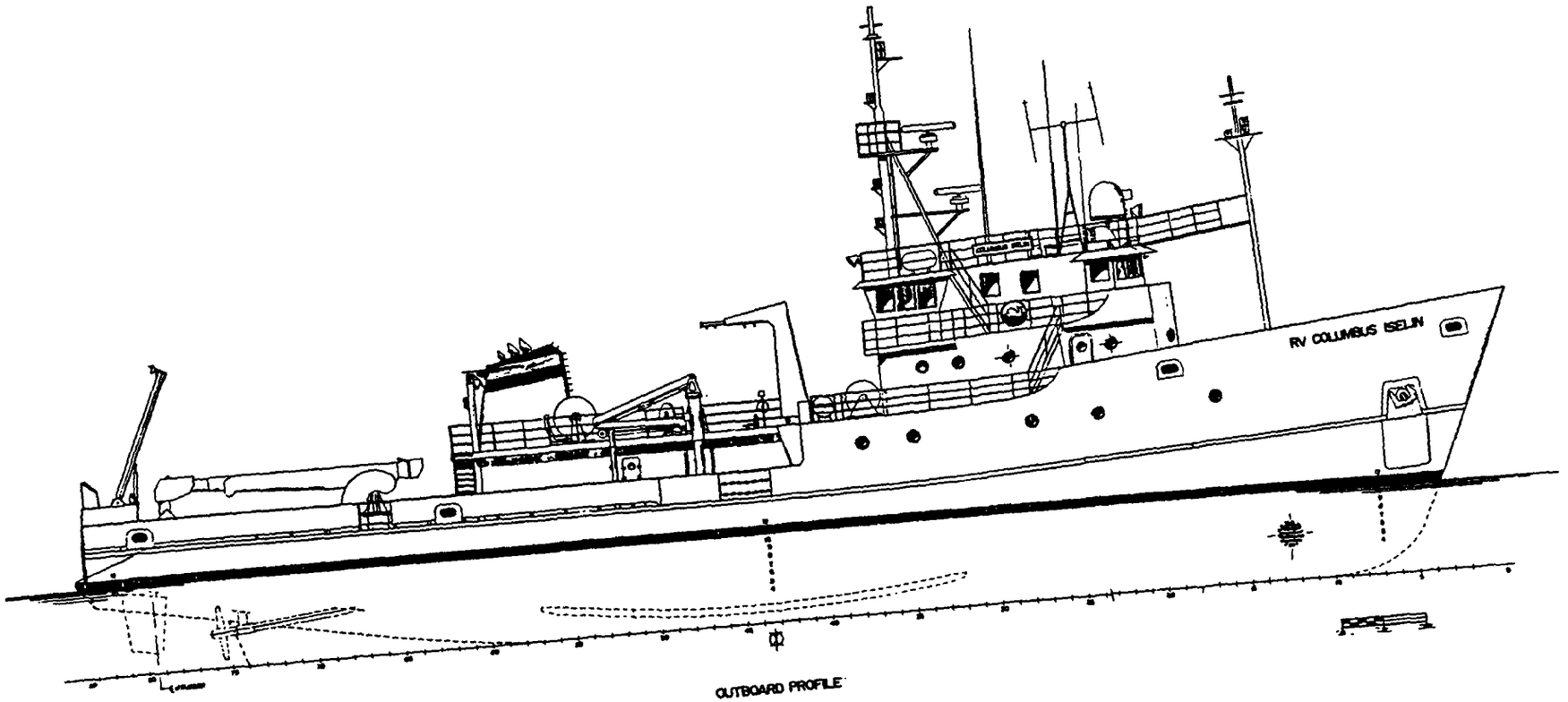

OUTBOARD PROFILE

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POINT SUR

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR MICHAEL PRINCE
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	MOSS LANDING MARINE LABORATORY
POC ADDRESS:	P.O. BOX 450
POC CITY/STATE:	MOSS LANDING CA 95039
COMMERCIAL AREA CODE:	408
PHONE:	633-3534

ADMINISTRATIVE DETAILS

DESIGNATOR:	CLASS D
CLASS:	COASTAL ZONE R/V
CALL SIGN (INTERNATIONAL):	WSC2276
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH - COASTAL ZONE
SHIP OWNER:	NATIONAL SCIENCE FOUNDATION
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	MOSS LANDING CA USA
TECHNICAL SPONSOR:	MOSS LANDING MARINE LABORATORY
OPERATIONS CONTROL:	MOSS LANDING MARINE LABORATORY
CONTRACTUAL INFORMATION:	NSF CHARTER PARTY AGREEMENT. EXPIRES 1995.
OPERATING COST/DAY:	6.0/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	5
NUMBER IN CREW:	4
MAX SEA STATE:	7 BEAUFORT SCALE
ENDURANCE:	21 DAY(S)
LIMITING FACTOR:	DRY STORES
BUILDER:	ATLANTIC MARINE INC.
WHERE BUILT:	FORT GEORGE ISLAND FL
INITIAL COST:	3.0/81 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	15 JUN 80
LAUNCH DATE:	15 FEB 81
DELIVERY DATE:	20 MAY 81
COMMISSION DATE:	24 JUN 81
CONVERSION DATE:	'00
LAST OVERHAUL:	'89
MAINTENANCE CYCLE:	1.0 YEARS
END OF LIFE:	2006
UPDATE OF INFORMATION:	30 NOV 90

SHIP DIMENSIONS

LENGTH:	135.0	FEET
MAX BEAM:	32.0	FEET
HEIGHT:	58.0	FEET
GROSS TONNAGE:	294	
DISPLACEMENT:	539	TONS
DRAUGHT:	9.0	FEET
CRUISE SPEED:	11.0	KNOTS
RANGE:	7680	NAUTICAL MILES
MAX SPEED:	11.0	KNOTS
MIN SPEED:	0.1	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	N
NUMBER OF SHAFTS:	2
BOW THRUSTER:	N
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	3000 FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X10
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	N

UTILITY BOATS:

1. 14 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	20000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	16200 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01.	MAJOR TYPE/USE:	TRAWL
	SECONDARY TYPE/USE:	DREDGE
	SLIP-RINGS:	Y
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.500 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	STD
	SLIP-RINGS:	Y
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	15000 FEET
	WIRE DIAMETER:	0.250 INCHES

03. MAJOR TYPE/USE:	STD
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	Y
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	15000 FEET
WIRE DIAMETER:	0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	Y
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	-
INERTIAL NAVIGATION:	-
RADAR (SURFACE SCAN):	Y
LORAN A:	-
LORAN C:	Y
OMEGA:	-
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	-
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	-
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	RAYTHEON/EDO

FUEL DETAILS

FUEL CAPACITY:	29400 GALLONS
FUEL TYPE:	MG-O
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1000 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

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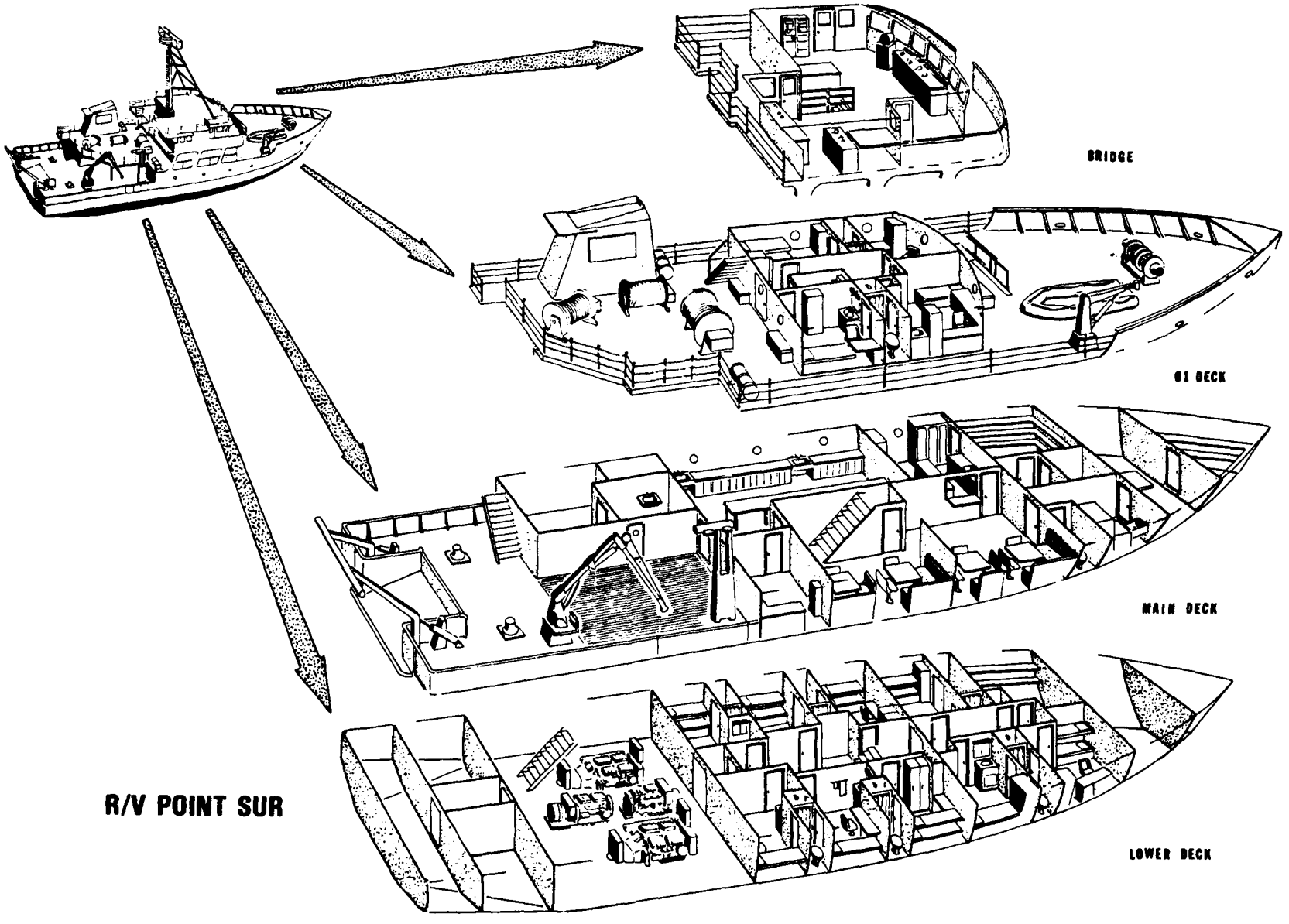
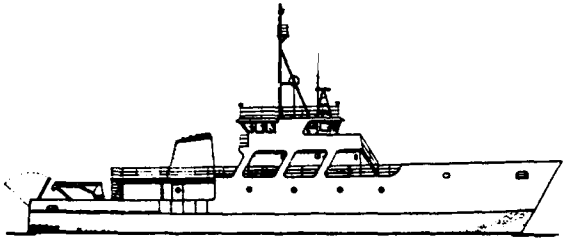
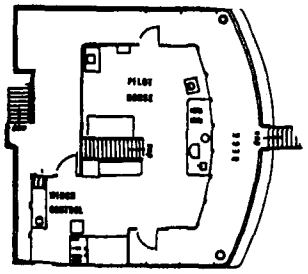
R/V POINT SUR

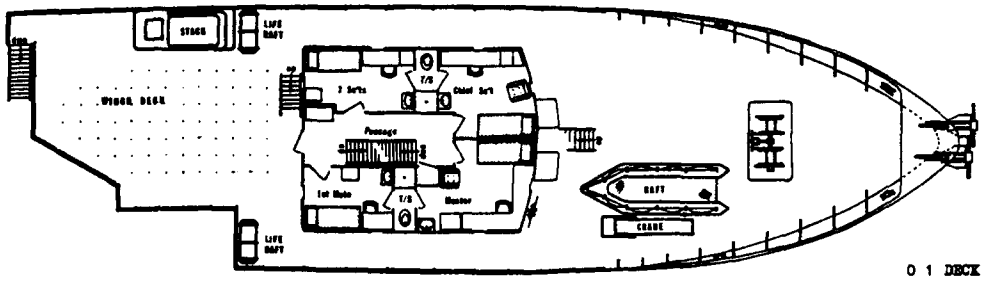


R/V POINT SUR





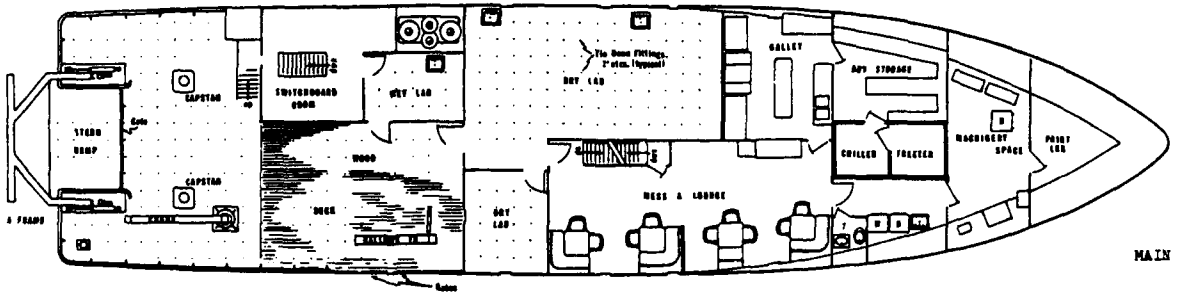
BRIDGE



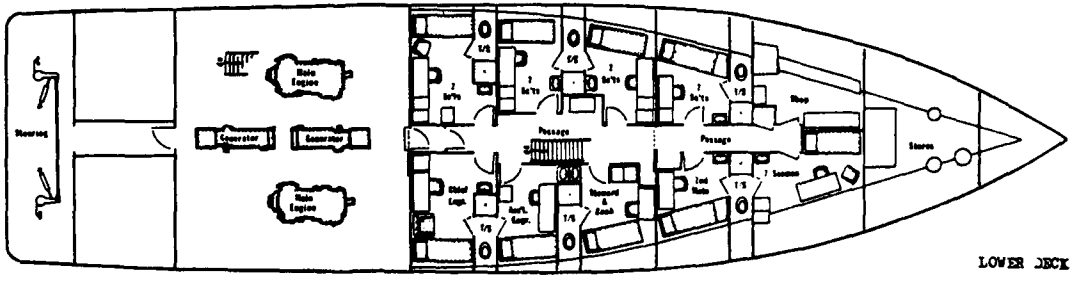
0 1 DECK

GENERAL DATA:

LENGTH OVERALL	135 feet
LENGTH BETWEEN PERPENDICULARS	124 feet
BEAM	32 feet
DRAFT (FULL LOAD)	9 feet
GROSS TONNAGE	294 tons
DISPLACEMENT (FULL LOAD)	539 light tons
MAXIMUM SUSTAINED SPEED	11.5 knots
MANEUVERING SPEED	0-10 knots
CRUISING RANGE (NORMAL)	5,600 n. miles
ENDURANCE (NORMAL)	21 days
LABORATORY AREA	DRY LAB 480 sq. ft. WET LAB 100 sq. ft.
MAIN DECK AREA	1100 sq. ft.
CREW	Nine
SCIENTIFIC BERTHING	Twelve
OWNER	National Science Foundation
OPERATOR	Moss Landing Marine Laboratories for CENCAL
BUILT	1980
HOME PORT	Moss Landing, California



MAIN DECK



LOWER DECK

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WECOMA

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT K. M. PALFREY
POC OFFICE:	MARINE SUPERINTENDENT/SHIP OPS
POC ORGANIZATION:	OREGON STATE U., COLLEGE OF OCEANOGRAPHY
POC ADDRESS:	HATFIELD MARINE SCIENCE CENTER
POC CITY/STATE:	NEWPORT OR 97365
COMMERCIAL AREA CODE:	503
PHONE:	867-0295

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	OCEANUS
CALL SIGN (INTERNATIONAL):	WSD7079
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	NATIONAL SCIENCE FOUNDATION
CERTIFICATION AUTHORITY:	-
FLAG REGISTRY:	USA
HOME PORT:	NEWPORT OR
TECHNICAL SPONSOR:	OREGON STATE UNIVERSITY
OPERATIONS CONTROL:	OREGON STATE UNIVERSITY
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	9.0/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	20
NUMBER OFFICERS:	6
NUMBER IN CREW:	7
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	PETERSON BUILDERS
WHERE BUILT:	USA
INITIAL COST:	3.1/75 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'75
DELIVERY DATE:	'75
COMMISSION DATE:	15 MAY 76
CONVERSION DATE:	'00
LAST OVERHAUL:	'90
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	2001
UPDATE OF INFORMATION:	24 OCT 90

SHIP DIMENSIONS

LENGTH:	177.0	FEET
MAX BEAM:	33.0	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	289	
DISPLACEMENT:	1059	TONS
DRAUGHT:	18.5	FEET
CRUISE SPEED:	12.0	KNOTS
RANGE:	8640	NAUTICAL MILES
MAX SPEED:	14.5	KNOTS
MIN SPEED:	1.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	1
BOW THRUSTER:	TRAINABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	BILGE KEEL
STABILIZER:	N
DEEP ANCHOR:	NONE
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X20 (2)
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 13 FOOT SKIFF 2. 14 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	7000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	30000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01.	MAJOR TYPE/USE:	CORING
	SECONDARY TYPE/USE:	TRAWL
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.500 INCHES
02.	MAJOR TYPE/USE:	TRAWL
	SECONDARY TYPE/USE:	HYDROGRAPHIC
	SLIP-RINGS:	4
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	20000 FEET
	WIRE DIAMETER:	0.375 INCHES
	SECONDARY WIRE TYPE:	CONDUCTOR CABLE
	SECONDARY WIRE LEN:	25000 FEET
	SECONDARY WIRE DIAM:	0.225 INCHES

03.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	
	SLIP-RINGS:	4
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.188 INCHES
	SECONDARY WIRE TYPE:	CONDUCTOR CABLE
	SECONDARY WIRE LEN:	25000 FEET
	SECONDARY WIRE DIAM:	0.225 INCHES
04.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	OTHER
	SLIP-RINGS:	4
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	20000 FEET
	WIRE DIAMETER:	0.320 INCHES
05.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	
	SLIP-RINGS:	4
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	24000 FEET
	WIRE DIAMETER:	0.250 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	LEADING EDGE MODEL D; TOSHIBA T3200
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	JRC
SOUNDING SYSTEM (DEEP):	EDO/RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	56000	GALLONS
FUEL TYPE:		DIESEL #2/JP-5
FUEL CONSUMPTION RATES:		
AT NORMAL CRUISING SPEED:	2000	GAL/24-HRS
DURING AVERAGE OPERATIONS:	1800	GAL/24-HRS
DURING INPORT OPERATIONS:	0	GAL/24-HRS

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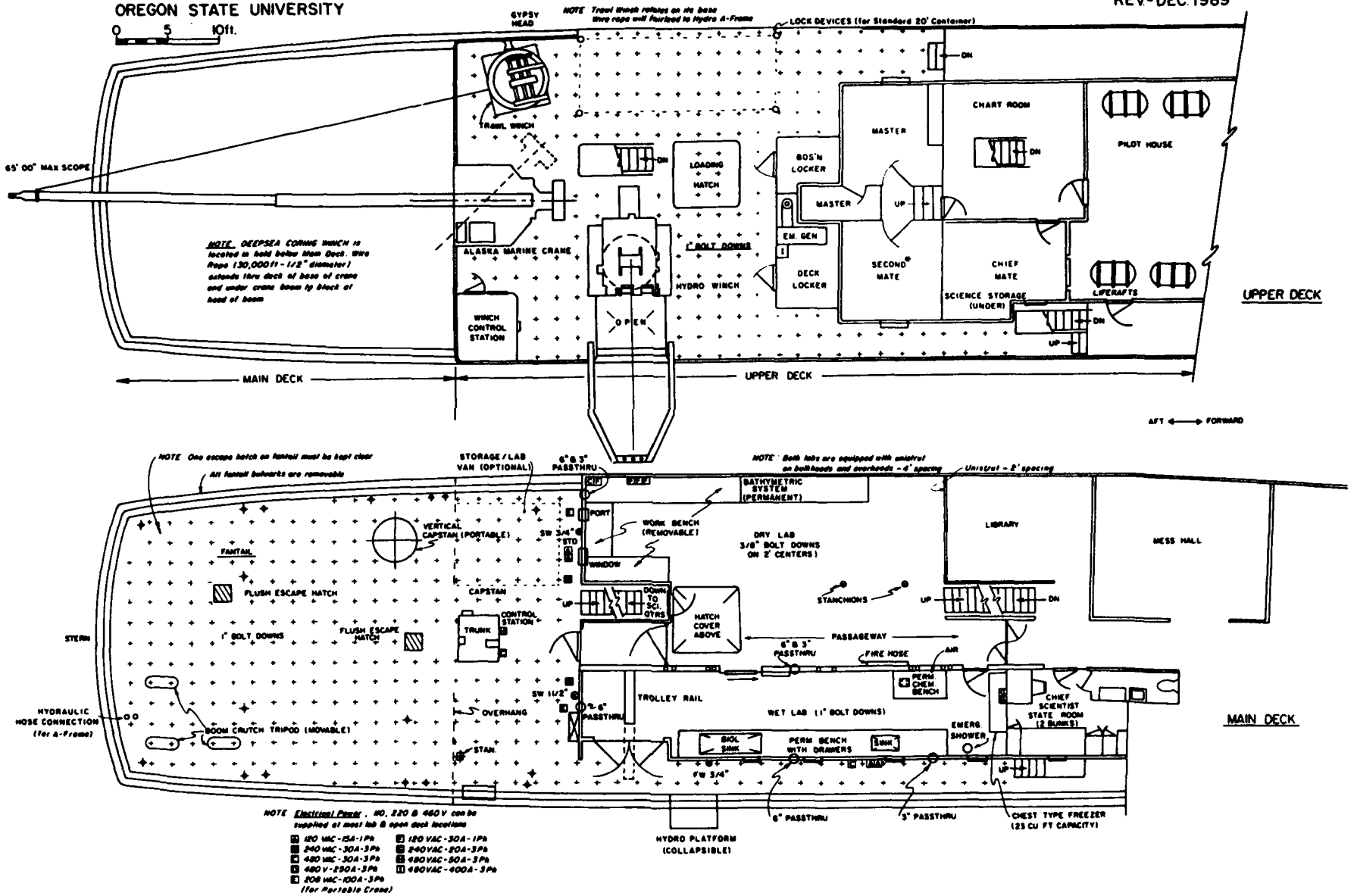
R/V WECOMA

OREGON STATE UNIVERSITY

0 5 10ft.

REV.-DEC. 1989



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ENDEAVOR

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR JOHN F BASH
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	GRADUATE SCHOOL OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF RHODE ISLAND
POC CITY/STATE:	NARRAGANSETT RI 02882
COMMERCIAL AREA CODE:	401
PHONE:	792-6203

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	OCEANUS
CALL SIGN (INTERNATIONAL):	WVFQ
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	NATIONAL SCIENCE FOUNDATION
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	NARRAGANSETT RI
TECHNICAL SPONSOR:	UNIVERSITY OF RHODE ISLAND
OPERATIONS CONTROL:	UNIVERSITY OF RHODE ISLAND
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	8.8/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	16
NUMBER OFFICERS:	6
NUMBER IN CREW:	6
MAX SEA STATE:	5 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	PETERSON BUILDERS INC
WHERE BUILT:	STURGEON BAY WI USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	23 JAN 75
LAUNCH DATE:	06 SEP 75
DELIVERY DATE:	28 OCT 76
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	00 DEC 88
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	2001
UPDATE OF INFORMATION:	27 NOV 90

SHIP DIMENSIONS

LENGTH:	177.0	FEET
MAX BEAM:	33.0	FEET
HEIGHT:	88.2	FEET
GROSS TONNAGE:	290	
DISPLACEMENT:	972	TONS
DRAUGHT:	17.6	FEET
CRUISE SPEED:	12.0	KNOTS
RANGE:	7000	NAUTICAL MILES
MAX SPEED:	15.4	KNOTS
MIN SPEED:	0.5	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	BOW THRUSTER
NUMBER OF SHAFTS:	1
BOW THRUSTER:	TRAINABLE WATER JET
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 16 FOOT RUBBER INFLATABLE
2. 17.5 FOOT RUBBER INFLATABLE RIGID HULL

A, U, OR L FRAMES

MAX HOIST CAPACITY:	26000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	30000 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	4
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.322 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	30000 FEET
SECONDARY WIRE DIAM:	0.250 INCHES

02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	CTD
	SLIP-RINGS:	4
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.250 INCHES
	SECONDARY WIRE TYPE:	CONDUCTOR CABLE
	SECONDARY WIRE LEN:	30000 FEET
	SECONDARY WIRE DIAM:	0.322 INCHES
03.	MAJOR TYPE/USE:	DEEP SEA SAMPLING
	SECONDARY TYPE/USE:	TRAWL
	SLIP-RINGS:	4
	WIRE TYPE:	KEVLAR CABLE
	WIRE LENGTH:	26247 FEET
	WIRE DIAMETER:	0.625 INCHES
	SECONDARY WIRE TYPE:	WIRE ROPE
	SECONDARY WIRE LEN:	32800 FEET
	SECONDARY WIRE DIAM:	0.5625 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	DEC MICROVAX II
FACSIMILE:	ALDEN MARINEFAX VI; WEST NAVFAX
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	SPERRY 2500C-27 RASCAR & MARK 127E
LORAN A:	N
LORAN C:	NORTHSTAR 800 & 7000
OMEGA:	MAGNAVOX 1105
SATELLITE NAVIGATION:	MAGNAVOX 1105; TRIMBLE 4000A
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	HARRIS RF-3200
VHF COMMUNICATIONS:	ICOM M100 & REGENCY POLARIS NC-7200
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ROSS DS-600C
SOUNDING SYSTEM (DEEP):	RAYTHEON
TELEX COMMUNICATIONS:	TELESYSTEMS MDC 9100 INMARSAT

FUEL DETAILS

FUEL CAPACITY:	56000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2100 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1200 GAL/24-HRS
DURING INPORT OPERATIONS:	600 GAL/24-HRS

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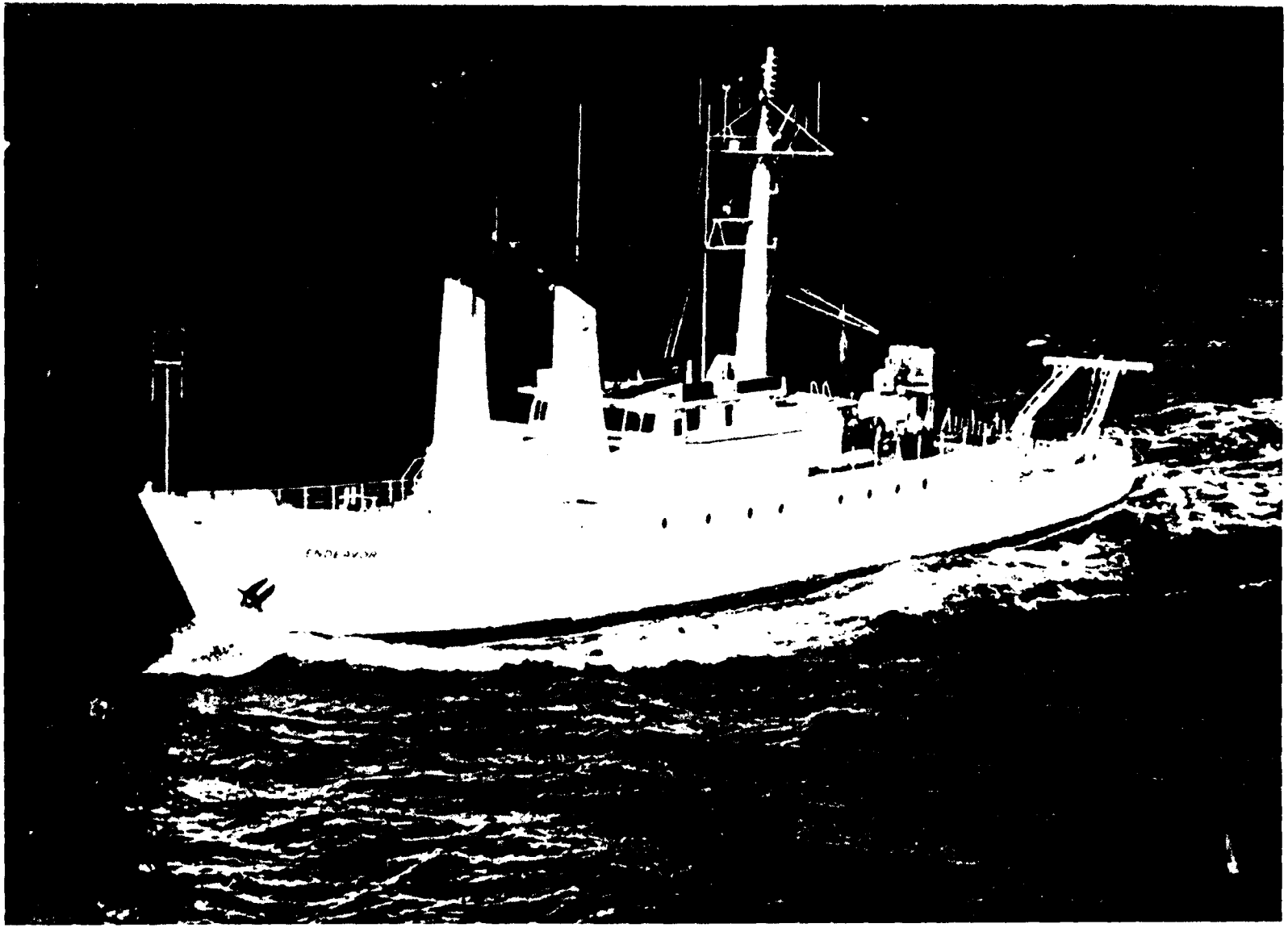

R/V ENDEAVOR

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MELVILLE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MRS. ROSE M. DUFOUR/CAPT J. WILLIAMS
POC OFFICE:	SHIP SCHEDULER/MARINE SUPERINTENDENT
POC ORGANIZATION:	SCRIPPS INSTITUTION OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF CALIFORNIA SAN DIEGO
POC CITY/STATE:	LA JOLLA CA 92093-0210
COMMERCIAL AREA CODE:	619
PHONE:	534-2841/534-1643

ADMINISTRATIVE DETAILS

DESIGNATOR:	AGOR 14
CLASS:	MELVILLE/AGOR 14
CALL SIGN (INTERNATIONAL):	WECB
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	US COAST GUARD-ABS
FLAG REGISTRY:	USA
HOME PORT:	SAN DIEGO CA
TECHNICAL SPONSOR:	UNIVERSITY OF CALIFORNIA SAN DIEGO
OPERATIONS CONTROL:	UNIVERSITY OF CALIFORNIA SAN DIEGO
CONTRACTUAL INFORMATION:	ONR CODE 611 LEASE TO EXPIRE 27 JUL 96 CON # - N00014-91-L-0049
OPERATING COST/DAY:	14.4/92 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	35
NUMBER OFFICERS:	9
NUMBER IN CREW:	14
MAX SEA STATE:	8 BEAUFORT SCALE
ENDURANCE:	40 DAY(S) @ 12 KTS
LIMITING FACTOR:	STORES
BUILDER:	DEFOE SHIPBUILDING COMPANY
WHERE BUILT:	BAY CITY MI USA
INITIAL COST:	6.0/69 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	12 JUL 67
LAUNCH DATE:	10 JUL 68
DELIVERY DATE:	01 SEP 69
COMMISSION DATE:	27 AUG 69
CONVERSION DATE:	00 FEB 92
LAST OVERHAUL:	00 FEB 92
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	2007
UPDATE OF INFORMATION:	01 DEC 91

SHIP DIMENSIONS

LENGTH:	279.0	FEET
MAX BEAM:	46.0	FEET
HEIGHT:	112.0	FEET
GROSS TONNAGE:	2200	
DISPLACEMENT:	2685	TONS
DRAUGHT:	15.5	FEET
CRUISE SPEED:	12.0	KNOTS
RANGE:	12000	NAUTICAL MILES
MAX SPEED:	14.0	KNOTS
MIN SPEED:	0.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL ELECTRIC
AUXILIARY PROPULSION:	BOW THRUSTER
NUMBER OF SHAFTS:	2 Z-DRIVES
BOW THRUSTER:	RETRACTABLE Z-DRIVE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	Y
ANTI-ROLL:	Y
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X20
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	NO

UTILITY BOATS:

1. 14 FOOT RUBBER INFLATABLE
2. 14 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY:	14000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	25000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	DEEP SEA
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	45000 FEET
WIRE DIAMETER:	0.563 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	32000 FEET
SECONDARY WIRE DIAM:	0.680 INCHES

02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	STD
	SLIP-RINGS:	1
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	25000 FEET
	WIRE DIAMETER:	0.250 INCHES
03.	MAJOR TYPE/USE:	CTD
	SECONDARY TYPE/USE:	HYDROGRAPHIC
	SLIP-RINGS:	1
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	33000 FEET
	WIRE DIAMETER:	0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	VAX - 730 (2)
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	EDO,GIFFT

ALSO: INMARSAT

FUEL DETAILS

FUEL CAPACITY:	141000 GALLONS
FUEL TYPE:	DIESEL #1/DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	3400 GAL/24-HRS
DURING AVERAGE OPERATIONS:	2000 GAL/24-HRS
DURING INPORT OPERATIONS:	350 GAL/24-HRS

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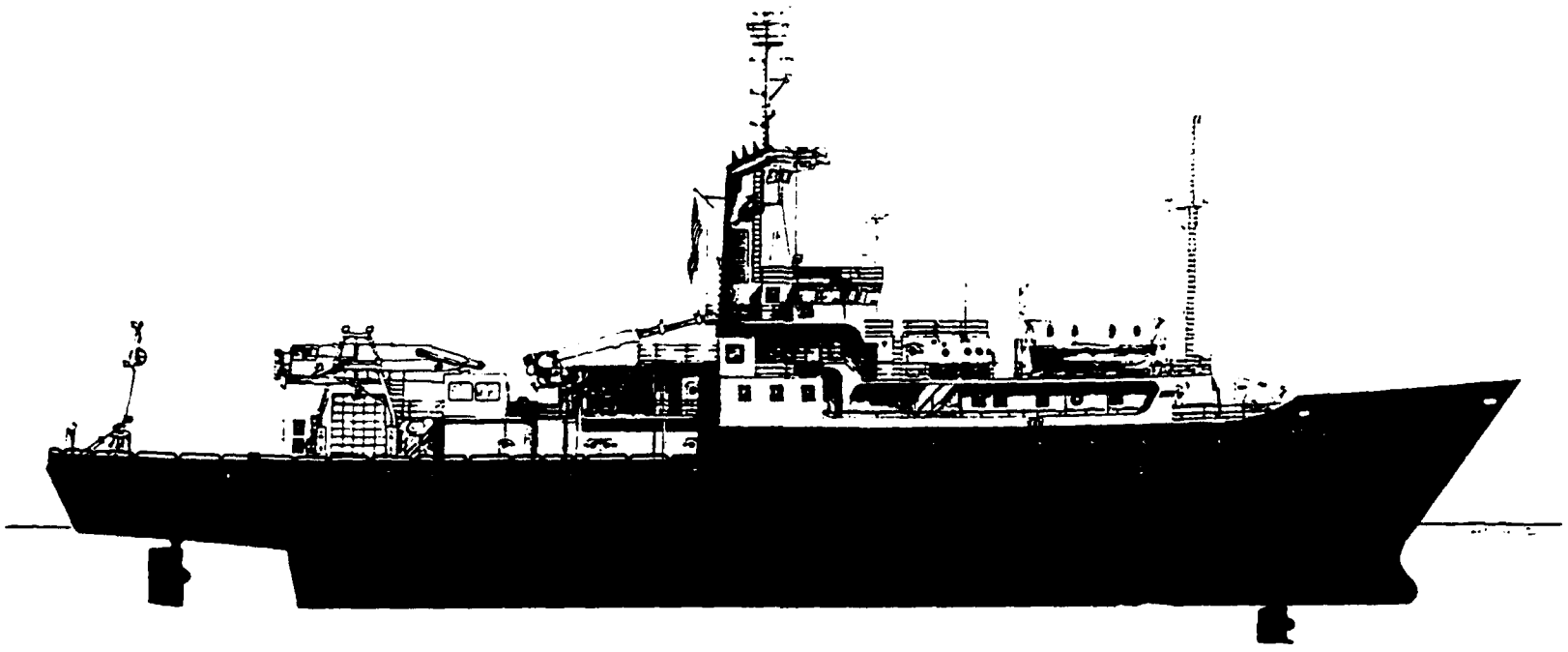

R/V MELVILLE

Scripps Institution of Oceanography

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NEW HORIZON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MRS. ROSE M. DUFOUR
POC OFFICE:	SCHEDULER
POC ORGANIZATION:	SCRIPPS INSTITUTION OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF CALIFORNIA SAN DIEGO
POC CITY/STATE:	LA JOLLA CA 92093-0210
COMMERCIAL AREA CODE:	619
PHONE:	534-2841

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	COLUMBUS ISELIN
CALL SIGN (INTERNATIONAL):	WKWB
FLEET:	UNOLS
SHIP TYPE:	OCEANOGRAPHIC RESEARCH-GENERAL
SHIP OWNER:	UNIVERSITY OF CALIFORNIA
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	SAN DIEGO CA
TECHNICAL SPONSOR:	UNIVERSITY OF CALIFORNIA SAN DIEGO
OPERATIONS CONTROL:	UNIVERSITY OF CALIFORNIA SAN DIEGO
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	9.2/92 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	17
NUMBER OFFICERS:	5
NUMBER IN CREW:	7
MAX SEA STATE:	7 BEAUFORT SCALE
ENDURANCE:	29 DAY(S)
LIMITING FACTOR:	FUEL/USCG STABILITY REQUIREMENT
BUILDER:	ATLANTIC MARINE INC
WHERE BUILT:	FORT GEORGE ISLAND FL US
INITIAL COST:	4.2/78 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	07 OCT 77
LAUNCH DATE:	04 MAR 78
DELIVERY DATE:	24 OCT 78
COMMISSION DATE:	25 JAN 79
CONVERSION DATE:	'00
LAST OVERHAUL:	00 JAN 91
MAINTENANCE CYCLE:	3.0 YEARS
END OF LIFE:	2005
UPDATE OF INFORMATION:	01 DEC 91

SHIP DIMENSIONS

LENGTH:	170.0	FEET
MAX BEAM:	36.0	FEET
HEIGHT:	72.0	FEET
GROSS TONNAGE:	295	
DISPLACEMENT:	1080	TONS
DRAUGHT:	12.8	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	7500	NAUTICAL MILES
MAX SPEED:	12.3	KNOTS
MIN SPEED:	0.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	BOW THRUSTER
NUMBER OF SHAFTS:	2
BOW THRUSTER:	SCHOTTEL TRAINABLE PROP
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X14
INSTRUMENT VAN DIMENSIONS:	8X8X14
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	YES

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE
2. 14 FOOT BOSTON WHALER

A, U, OR L FRAMES

MAX HOIST CAPACITY:	10000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	8000 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	DREDGE
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30170 FEET
WIRE DIAMETER:	0.680 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	25150 FEET
WIRE DIAMETER:	0.250 INCHES
SECONDARY WIRE TYPE:	WIRE ROPE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.225 INCHES
03. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	32810 FEET
WIRE DIAMETER:	0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	PC WITH SAILLOOP
FACSIMILE:	Y
DOPPLER LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	TRANSIT & GPS
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	EDO

ALSO: INMARSAT, ADCP, VHF DIRECTION FINDER, CELLULAR TELEPHONE

FUEL DETAILS

FUEL CAPACITY:	50000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1000 GAL/24-HRS
DURING AVERAGE OPERATIONS:	850 GAL/24-HRS
DURING INPORT OPERATIONS:	300 GAL/24-HRS

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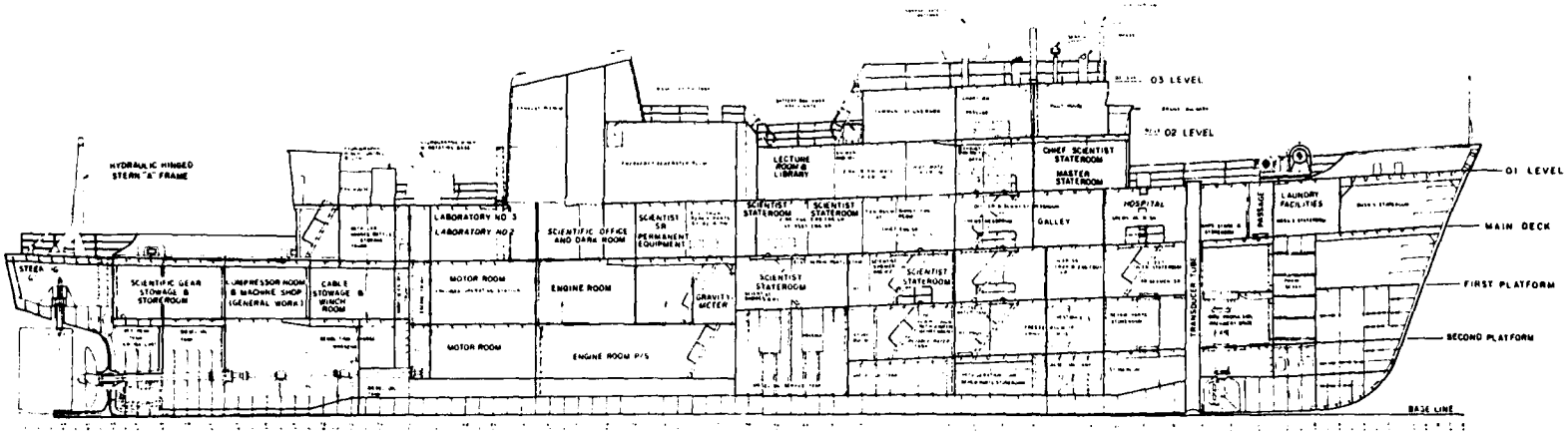
R/V NEW HORIZON

PLATE NO 4



INBOARD PROFILE

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THOMAS WASHINGTON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MRS. ROSE M. DUFOUR/CAPT J. WILLIAMS
POC OFFICE:	SHIP SCHEDULER/MARINE SUPERINTENDENT
POC ORGANIZATION:	SCRIPPS INSTITUTION OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF CALIFORNIA SAN DIEGO
POC CITY/STATE:	LA JOLLA CA 92093-0210
COMMERCIAL AREA CODE:	619
PHONE:	534-2841/534-1643

ADMINISTRATIVE DETAILS

DESIGNATOR:	AGOR 10
CLASS:	ROBERT D CONRAD/AGOR 3
CALL SIGN (INTERNATIONAL):	KGWU
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	US COAST GUARD-ABS
FLAG REGISTRY:	USA
HOME PORT:	SAN DIEGO CA
TECHNICAL SPONSOR:	UNIVERSITY OF CALIFORNIA SAN DIEGO
OPERATIONS CONTROL:	UNIVERSITY OF CALIFORNIA SAN DIEGO
CONTRACTUAL INFORMATION:	ONR CODE 611 LEASE TO EXPIRE OCT 93 CON # - N00014-85-L-0737
OPERATING COST/DAY:	11.0/92 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	22
NUMBER OFFICERS:	8
NUMBER IN CREW:	15
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	36 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	MARINETTE MARINE CORPORATION
WHERE BUILT:	MARINETTE WI USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	12 SEP 63
LAUNCH DATE:	01 AUG 64
DELIVERY DATE:	17 SEP 65
COMMISSION DATE:	'65
CONVERSION DATE:	'00
LAST OVERHAUL:	24 OCT 90
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	1992
UPDATE OF INFORMATION:	01 DEC 91

SHIP DIMENSIONS

LENGTH:	209.0	FEET
MAX BEAM:	39.5	FEET
HEIGHT:	78.0	FEET
GROSS TONNAGE:	1151	
DISPLACEMENT:	1490	TONS
DRAUGHT:	16.7	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	8200	NAUTICAL MILES
MAX SPEED:	11.5	KNOTS
MIN SPEED:	0.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL ELECTRIC
AUXILIARY PROPULSION:	DIESEL
NUMBER OF SHAFTS:	1
BOW THRUSTER:	RETRACTABLE/360 DEG TRAINABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X20
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	Y
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	YES

UTILITY BOATS:

1. 14 FOOT BOSTON WHALER
2. 35 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	10000 POUNDS
NUMBER OF FRAMES:	1

CRANES OR BOOMS

MAX HOIST CAPACITY:	16000 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01. MAJOR TYPE/USE:	DEEP SEA
SECONDARY TYPE/USE:	OCEANOGRAPHIC
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	45000 FEET
WIRE DIAMETER:	0.563 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	32800 FEET
SECONDARY WIRE DIAM:	0.680 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	1
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	25000 FEET
WIRE DIAMETER:	0.250 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.225 INCHES
03. MAJOR TYPE/USE:	STD
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	33000 FEET
WIRE DIAMETER:	0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	VAX730(2);MASSCOMP
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	Y
NARROW BEAM:	Y
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	SEABEAM,EDO

FUEL DETAILS

FUEL CAPACITY:	66000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2000 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1700 GAL/24-HRS
DURING INPORT OPERATIONS:	300 GAL/24-HRS

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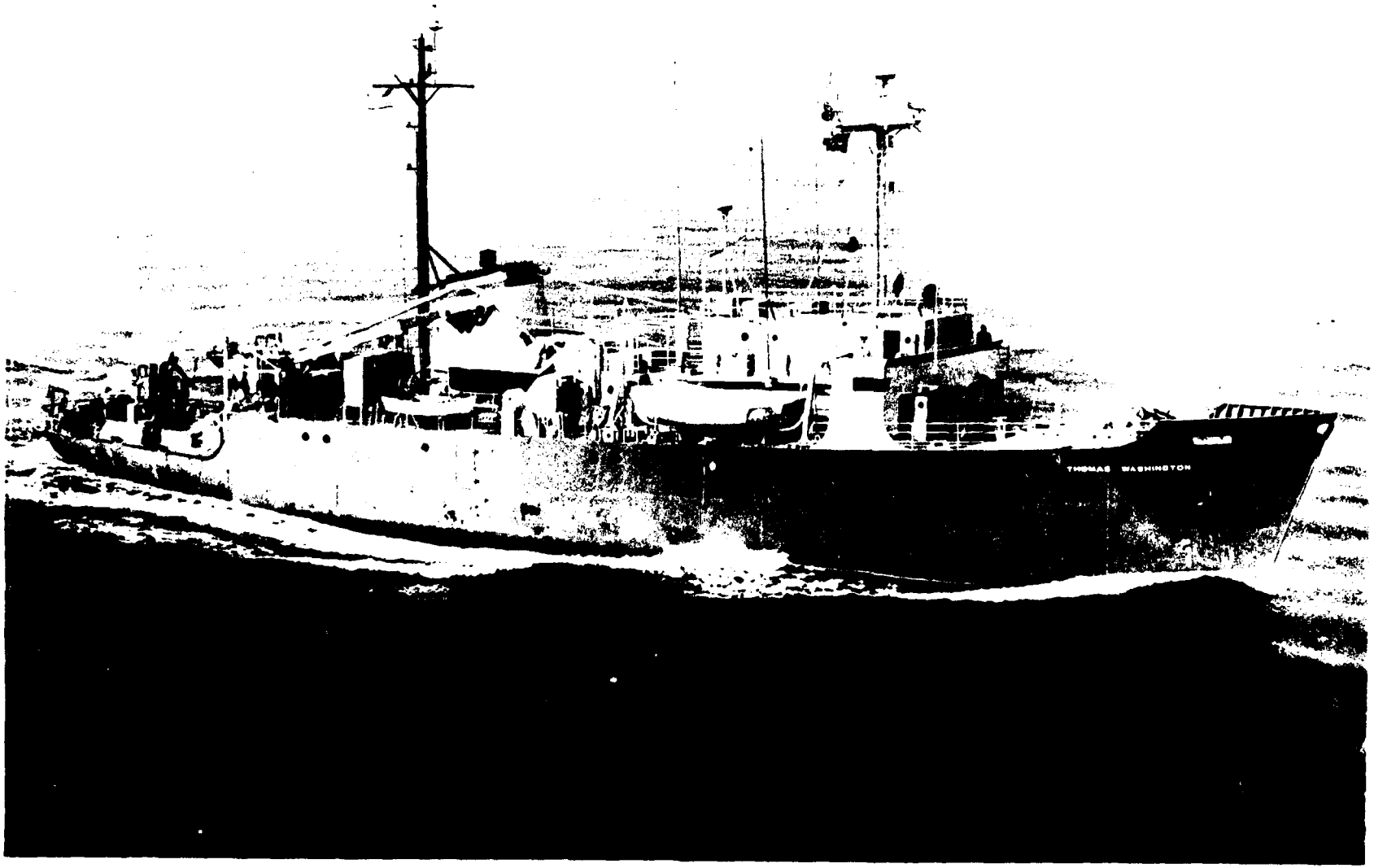

R/V THOMAS WASHINGTON

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FLIP

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	DR. FREDERICK FISHER
POC OFFICE:	ASSOCIATE DIRECTOR
POC ORGANIZATION:	MARINE PHYSICAL LABORATORY
POC ADDRESS:	SCRIPPS INSTITUTE OF OCEANOGRAPHY
POC CITY/STATE:	LA JOLLA CA 92093-0701
COMMERCIAL AREA CODE:	619
PHONE:	534-1796

ADMINISTRATIVE DETAILS

DESIGNATOR:	RP
CLASS:	RESEARCH PLATFORM
CALL SIGN (INTERNATIONAL):	WI7115
FLEET:	UNOLS
SHIP TYPE:	FLOATING INSTRUMENT PLATFORM
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	USN
FLAG REGISTRY:	USA
HOME PORT:	SAN DIEGO CA
TECHNICAL SPONSOR:	UNIVERSITY OF CALIFORNIA SAN DIEGO
OPERATIONS CONTROL:	SCRIPPS MARINE PHYSICAL LABORATORY
CONTRACTUAL INFORMATION:	ONR CODE 122
OPERATING COST/DAY:	1.5/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	11
NUMBER OFFICERS:	1
NUMBER IN CREW:	4
MAX SEA STATE:	7 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FOOD/FUEL
BUILDER:	GUNDERSON BROTHERS SHIPYARD
WHERE BUILT:	PORTLAND OR USA
INITIAL COST:	.850/62 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	22 JUN 62
DELIVERY DATE:	06 AUG 62
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	00 AUG 90
MAINTENANCE CYCLE:	1.0 YEARS
END OF LIFE:	2002
UPDATE OF INFORMATION:	01 NOV 90

SHIP DIMENSIONS

LENGTH:	358.0	FEET
MAX BEAM:	26.0	FEET
HEIGHT:	37.0	FEET
GROSS TONNAGE:	-	
DISPLACEMENT:	700	TONS
DRAUGHT:	12.5	FEET
CRUISE SPEED:	-	KNOTS
RANGE:	-	NAUTICAL MILES
MAX SPEED:	-	KNOTS
MIN SPEED:	-	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	TOWED, 5-10 KTS
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	0
BOW THRUSTER:	HYD. 60HP
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	N
DRY-LAB:	N
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	NO
UTILITY BOATS:	
1. 13 FOOT BOSTON WHALER	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	- POUNDS
NUMBER OF FRAMES:	-
CRANES OR BOOMS	
MAX HOIST CAPACITY:	- POUNDS
NUMBER OF BOOMS:	6
WINCHES:	
01. MAJOR TYPE/USE:	DEEP SEA
SECONDARY TYPE/USE:	
SLIP-RINGS:	
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	20000 FEET
WIRE DIAMETER:	0.348 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	COMPAQ PC
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	NONE
SOUNDING SYSTEM (DEEP):	UQN-1D

FUEL DETAILS

FUEL CAPACITY:	3500 GALLONS
FUEL TYPE:	DIESEL #1
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	- GAL/24-HRS
DURING AVERAGE OPERATIONS:	75 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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ORB

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	DR. FREDERICK FISHER
POC OFFICE:	ASSOCIATE DIRECTOR
POC ORGANIZATION:	MARINE PHYSICAL LABORATORY
POC ADDRESS:	SCRIPPS INSTITUTE OF OCEANOGRAPHY
POC CITY/STATE:	LA JOLLA CA 92093-0701
COMMERCIAL AREA CODE:	619
PHONE:	534-1796

ADMINISTRATIVE DETAILS

DESIGNATOR:	RP
CLASS:	RESEARCH PLATFORM
CALL SIGN (INTERNATIONAL):	WS6315
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH BUOY
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	USN
FLAG REGISTRY:	USA
HOME PORT:	SAN DIEGO CA
TECHNICAL SPONSOR:	UNIVERSITY OF CALIFORNIA SAN DIEGO
OPERATIONS CONTROL:	SCRIPPS MARINE PHYSICAL LABORATORY
CONTRACTUAL INFORMATION:	ONR CODE 122
OPERATING COST/DAY:	1.5/89 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	15
NUMBER OFFICERS:	1
NUMBER IN CREW:	4
MAX SEA STATE:	5 BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	FOOD
BUILDER:	CALIFORNIA STEEL FABRICATORS
WHERE BUILT:	SAN DIEGO CA USA
INITIAL COST:	.250/67 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	00 JUL 67
LAUNCH DATE:	01 DEC 67
DELIVERY DATE:	00 DEC 67
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	00 JUN 86
MAINTENANCE CYCLE:	4.0 YEARS
END OF LIFE:	2018
UPDATE OF INFORMATION:	01 NOV 90

SHIP DIMENSIONS

LENGTH:	69.0	FEET
MAX BEAM:	45.0	FEET
HEIGHT:	28.5	FEET
GROSS TONNAGE:	-	
DISPLACEMENT:	330	TONS
DRAUGHT:	5.0	FEET
CRUISE SPEED:	-	KNOTS
RANGE:	-	NAUTICAL MILES
MAX SPEED:	-	KNOTS
MIN SPEED:	-	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	TOWED, 3-6 KTS	
AUXILIARY PROPULSION:	NONE	
NUMBER OF SHAFTS:	0	
BOW THRUSTER:	NONE	
ACTIVE RUDDER:	N	
DYNAMIC POSITIONING:	N	
ANTI-ROLL:	N	
STABILIZER:	N	
DEEP ANCHOR:	NONE	FEET
BERTHING VAN DIMENSIONS:	NONE	
INSTRUMENT VAN DIMENSIONS:	NONE	
WET-LAB:	N	
DRY-LAB:	Y	
AMMUNITION STORAGE:	N	
HELO SUPPORT:	N	
METEOROLOGICAL OBSERVATIONS:	NO	
UTILITY BOATS:		
1. 17 FOOT BOSTON WHALER		
A, U, OR L FRAMES		
MAX HOIST CAPACITY:	-	POUNDS
NUMBER OF FRAMES:	-	
CRANES OR BOOMS		
MAX HOIST CAPACITY:	-	POUNDS
NUMBER OF CRANES:	5	
WINCHES:	N	

ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	NONE
SOUNDING SYSTEM (DEEP):	UQN-1D

FUEL DETAILS

FUEL CAPACITY:	5500	GALLONS
FUEL TYPE:		DIESEL #1
FUEL CONSUMPTION RATES:		
AT NORMAL CRUISING SPEED:	-	GAL/24-HRS
DURING AVERAGE OPERATIONS:	100	GAL/24-HRS
DURING INPORT OPERATIONS:	0	GAL/24-HRS

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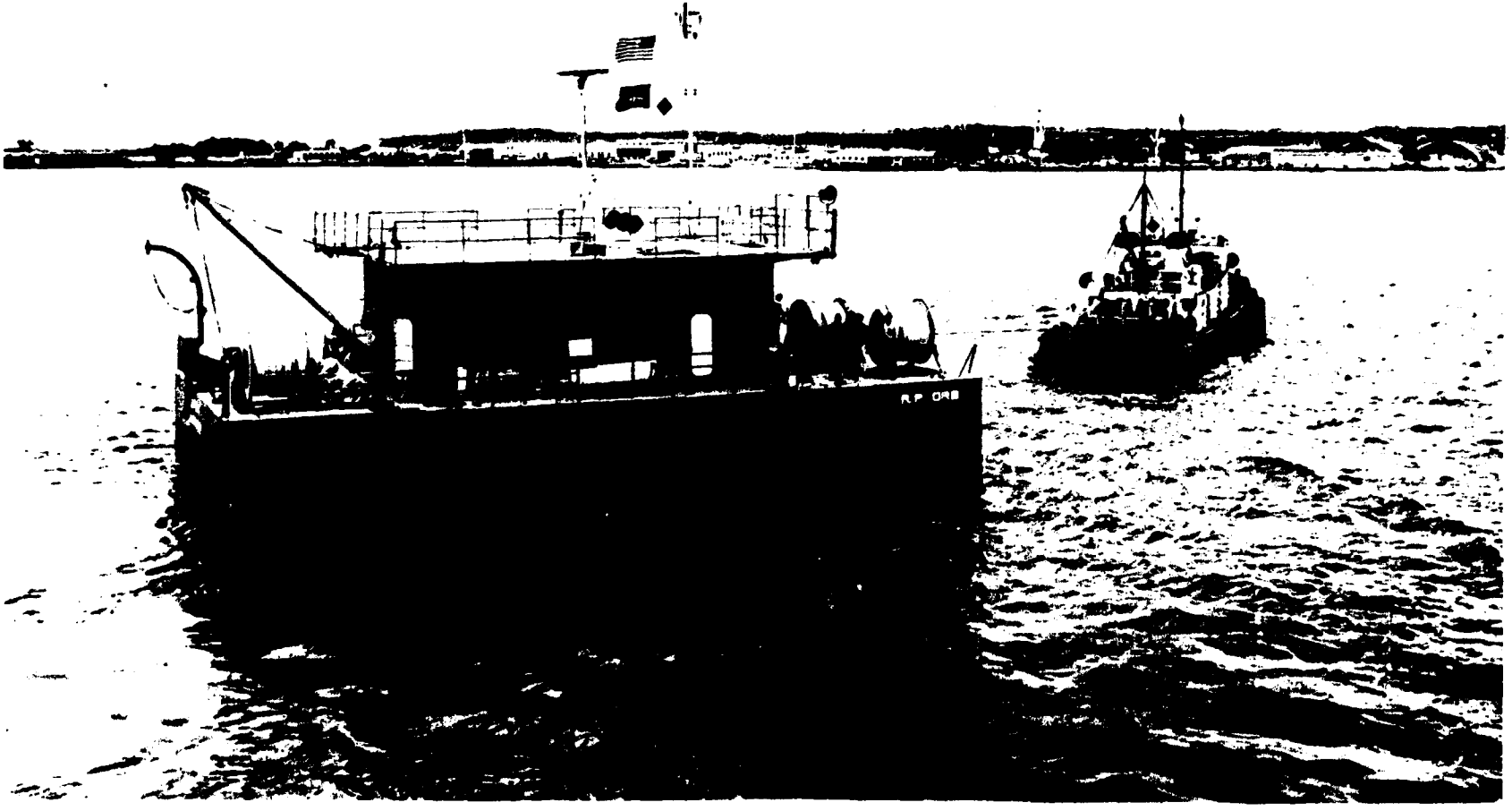

R/P ORB

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ROBERT GORDON SPROUL

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MRS. ROSE M. DUFOUR
POC OFFICE:	SCHEDULER
POC ORGANIZATION:	SCRIPPS INSTITUTION OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF CALIFORNIA SAN DIEGO
POC CITY/STATE:	LA JOLLA CA 92093-0210
COMMERCIAL AREA CODE:	619
PHONE:	534-2841

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	GULF COAST WORK BOAT
CALL SIGN (INTERNATIONAL):	WSQ2674
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH - GENERAL
SHIP OWNER:	UNIVERSITY OF CALIFORNIA
CERTIFICATION AUTHORITY:	ABS
FLAG REGISTRY:	USA
HOME PORT:	SAN DIEGO CA
TECHNICAL SPONSOR:	UNIVERSITY OF CALIFORNIA SAN DIEGO
OPERATIONS CONTROL:	UNIVERSITY OF CALIFORNIA SAN DIEGO
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	4.6/92 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	0
NUMBER IN CREW:	5
MAX SEA STATE:	7 BEAUFORT SCALE (OPS ON STATION)
ENDURANCE:	14 DAY(S)
LIMITING FACTOR:	FRESH WATER
BUILDER:	STEINER FABRICATORS INC.
WHERE BUILT:	BAYOU LA BATRE AL
INITIAL COST:	1.3/81 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'00
DELIVERY DATE:	'81
COMMISSION DATE:	'00
CONVERSION DATE:	00 AUG 84
LAST OVERHAUL:	14 JUN 90
MAINTENANCE CYCLE:	3.0 YEARS
END OF LIFE:	2001
UPDATE OF INFORMATION:	01 DEC 91

SHIP DIMENSIONS

LENGTH:	125.0	FEET
MAX BEAM:	32.0	FEET
HEIGHT:	53.0	FEET
GROSS TONNAGE:	85	
DISPLACEMENT:	524	TONS
DRAUGHT:	8.6	FEET
CRUISE SPEED:	9.5	KNOTS
RANGE:	3800	NAUTICAL MILES
MAX SPEED:	10.0	KNOTS
MIN SPEED:	2.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	2
BOW THRUSTER:	WHITEGILL
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X14
INSTRUMENT VAN DIMENSIONS:	10X8X30
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	BAROMETERS,WIND GUAGES, SLING PSYCHROMETER

UTILITY BOATS:

1. 14 FOOT BOSTON WHALER
2. 12 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	6500 POUNDS
NUMBER OF FRAMES:	1

CRANES OR BOOMS

MAX HOIST CAPACITY:	2500 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01.	MAJOR TYPE/USE:	TRAWL
	SECONDARY TYPE/USE:	UNKNOWN
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	14000 FEET
	WIRE DIAMETER:	0.375 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	UNKNOWN
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	14000 FEET
	WIRE DIAMETER:	0.250 INCHES

03.	MAJOR TYPE/USE:	CTD
	SECONDARY TYPE/USE:	UNKNOWN
	SLIP-RINGS:	1
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	18000 FEET
	WIRE DIAMETER:	0.322 INCHES
04.	MAJOR TYPE/USE:	CTD
	SECONDARY TYPE/USE:	CTD
	SLIP-RINGS:	1
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	29400 FEET
	WIRE DIAMETER:	0.225 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO - 50KHZ
SOUNDING SYSTEM (DEEP):	GDR - 12KHZ

FUEL DETAILS

FUEL CAPACITY:	24800	GALLONS
FUEL TYPE:		DIESEL #2
FUEL CONSUMPTION RATES:		
AT NORMAL CRUISING SPEED:	1200	GAL/24-HRS
DURING AVERAGE OPERATIONS:	740	GAL/24-HRS
DURING INPORT OPERATIONS:	50	GAL/24-HRS

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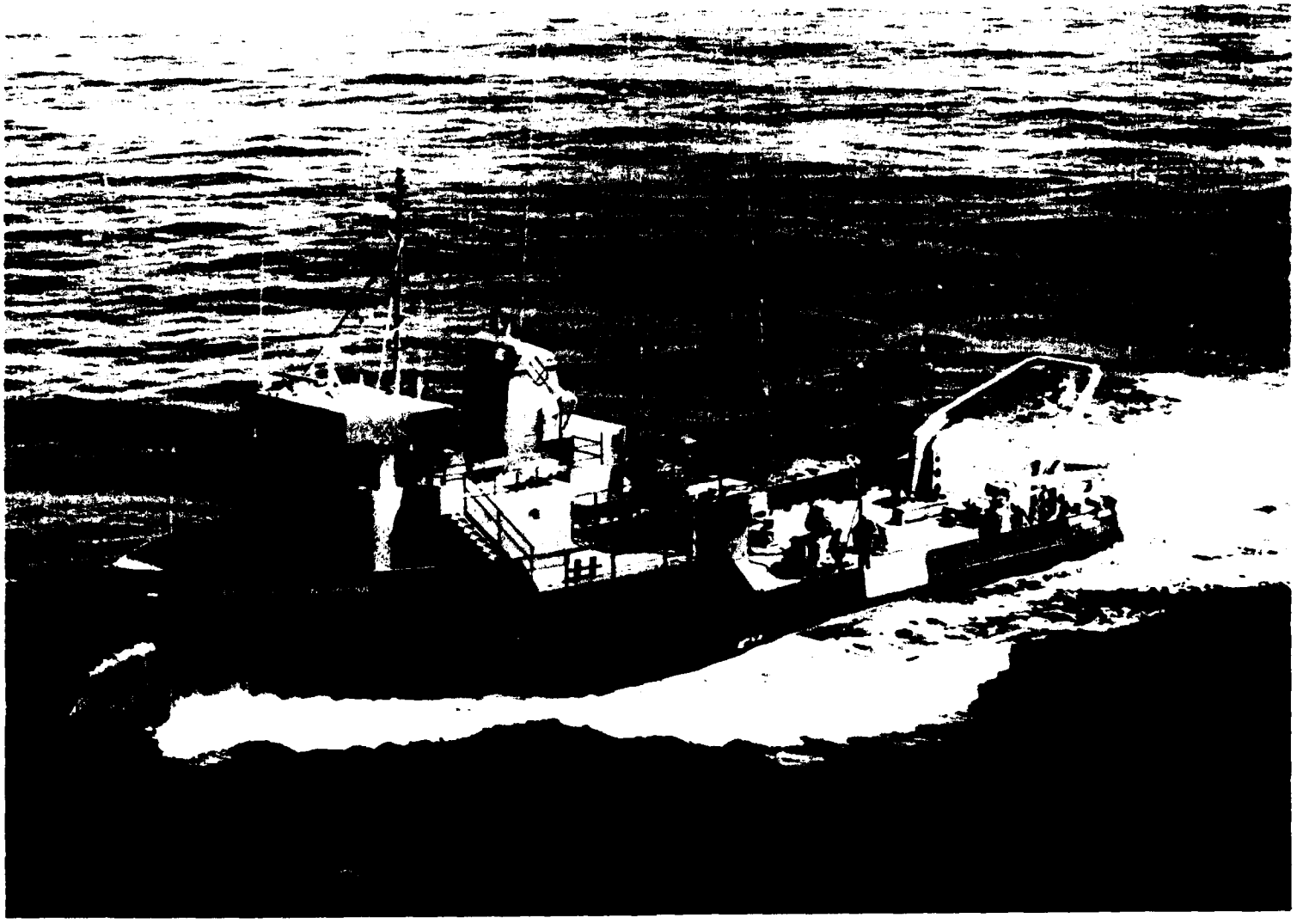
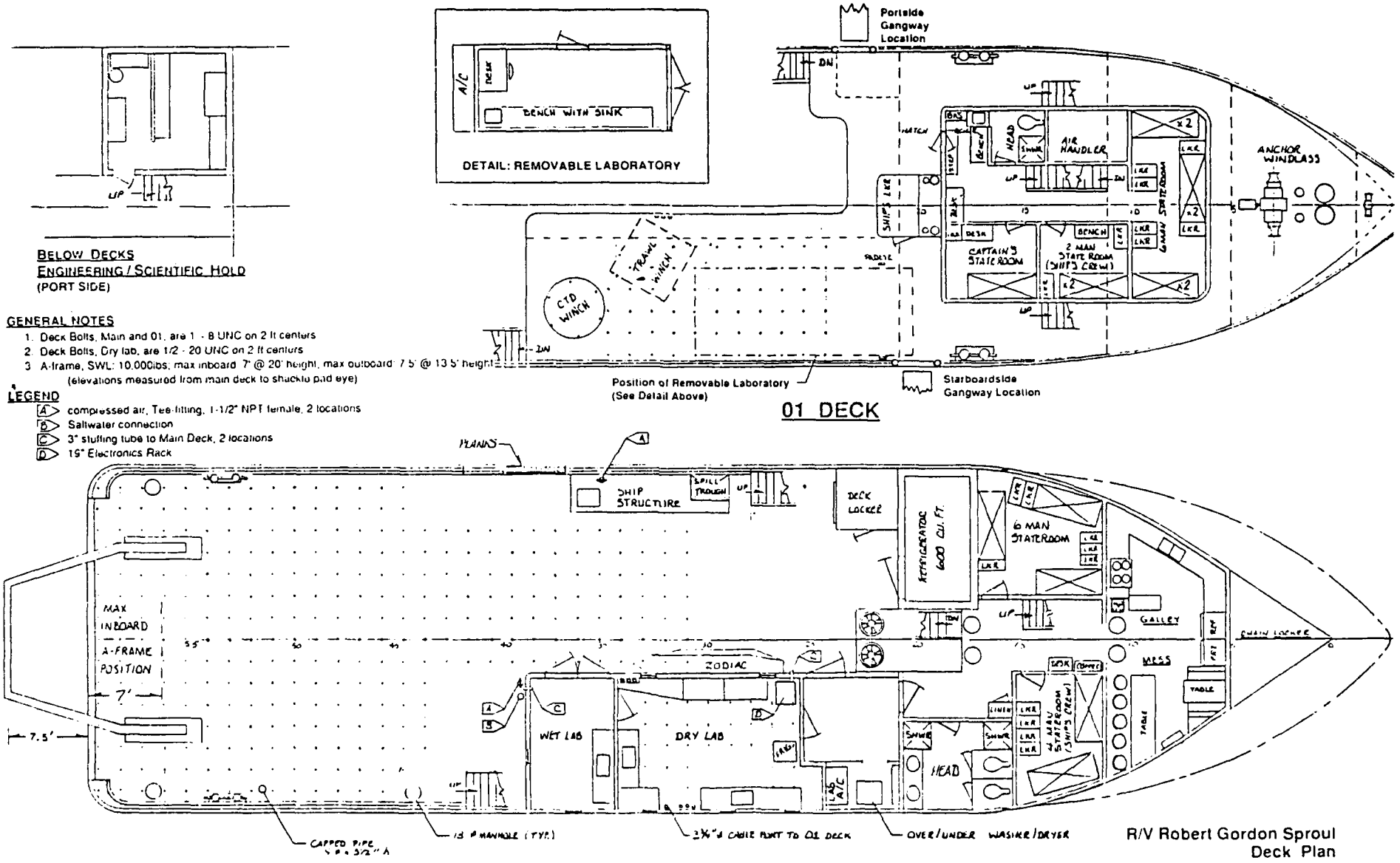


R/V ROBERT GORDON SPROUL



GENERAL NOTES

1. Deck Bolts, Main and 01, are 1 - 8 UNC on 2 ft centers
2. Deck Bolts, Dry lab, are 1/2 - 20 UNC on 2 ft centers
3. A-frame, SWL: 10,000lbs; max inboard: 7' @ 20' height, max outboard: 7.5' @ 13.5' height (elevations measured from main deck to shackle pad eye)

LEGEND

- (A) compressed air, Tee-fitting, 1-1/2" NPT female, 2 locations
- (B) Saltwater connection
- (C) 3" stuffing tube to Main Deck, 2 locations
- (D) 19" Electronics Rack

R/V Robert Gordon Sproul
Deck Plan
Scale: 1/8" = 1'
1987 Revision A
Drawing for Reference Only -- visit ship when planning a scatrip

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BLUE FIN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. LEE H. KNIGHT
POC OFFICE:	-
POC ORGANIZATION:	SKIDAWAY INSTITUTE OF OCEANOGRAPHY
POC ADDRESS:	PO BOX 13687
POC CITY/STATE:	SAVANNAH GA 31416-0687
COMMERCIAL AREA CODE:	912
PHONE:	598-2486

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	TRAWLER YACHT
CALL SIGN (INTERNATIONAL):	
FLEET:	UNOLS
SHIP TYPE:	-
SHIP OWNER:	UNIVERSITY SYSTEM OF GEORGIA
CERTIFICATION AUTHORITY:	US COAST GUARD
FLAG REGISTRY:	USA
HOME PORT:	SAVANNAH GA
TECHNICAL SPONSOR:	SKIDAWAY INSTITUTE OF OCEANOGRAPHY
OPERATIONS CONTROL:	SKIDAWAY INSTITUTE OF OCEANOGRAPHY
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	2.0/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	8
NUMBER OFFICERS:	2
NUMBER IN CREW:	2
MAX SEA STATE:	4 BEAUFORT SCALE
ENDURANCE:	7 DAY(S)
LIMITING FACTOR:	WATER-ACCOMMODATIONS
BUILDER:	XNIDIES
WHERE BUILT:	ST.AUGUSTINE FL USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'72
DELIVERY DATE:	'72
COMMISSION DATE:	'00
CONVERSION DATE:	'75
LAST OVERHAUL:	'81
MAINTENANCE CYCLE:	- YEARS
END OF LIFE:	1996
UPDATE OF INFORMATION:	26 NOV 91

SHIP DIMENSIONS

LENGTH:	72.0	FEET
MAX BEAM:	20.0	FEET
HEIGHT:	60.0	FEET
GROSS TONNAGE:	86	
DISPLACEMENT:	132	TONS
DRAUGHT:	8.5	FEET
CRUISE SPEED:	9.0	KNOTS
RANGE:	1800	NAUTICAL MILES
MAX SPEED:	9.0	KNOTS
MIN SPEED:	0.5	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL HYDRAUL.
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	1
BOW THRUSTER:	NO
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	Y
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X10
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	NO
UTILITY BOATS:	N
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	5000 POUNDS
NUMBER OF FRAMES:	1
CRANES OR BOOMS	
MAX HOIST CAPACITY:	2500 POUNDS
NUMBER OF CRANES:	1
WINCHES:	
01. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	4
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	2000 FEET
WIRE DIAMETER:	0.219 INCHES
02. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	6000 FEET
WIRE DIAMETER:	0.500 INCHES

03. MAJOR TYPE/USE:	OCEANOGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	5000 FEET
WIRE DIAMETER:	0.250 INCHES
04. MAJOR TYPE/USE:	ANCHOR
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	600 FEET
WIRE DIAMETER:	0.562 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	SIMRAD

FUEL DETAILS

FUEL CAPACITY:	5500 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	840 GAL/24-HRS
DURING AVERAGE OPERATIONS:	600 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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JOHN V. VICKERS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR DON NEWMAN
POC OFFICE:	MANAGER MARINE SUPPORT FACILITY
POC ORGANIZATION:	INSTITUTE FOR MARINE & COASTAL STUDIES, USC
POC ADDRESS:	820 SOUTH SEASIDE AVENUE
POC CITY/STATE:	TERMINAL ISLAND CA 90731
COMMERCIAL AREA CODE:	213
PHONE:	830-4570

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	TUNA SEINER
CALL SIGN (INTERNATIONAL):	WP8613
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	UNIVERSITY OF SOUTHERN CALIFORNIA
CERTIFICATION AUTHORITY:	US COAST GUARD/ABS
FLAG REGISTRY:	USA
HOME PORT:	LOS ANGELES CA
TECHNICAL SPONSOR:	UNIVERSITY OF SOUTHERN CALIFORNIA
OPERATIONS CONTROL:	UNIVERSITY OF SOUTHERN CALIFORNIA
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	10.0/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	20
NUMBER OFFICERS:	6
NUMBER IN CREW:	14
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	75 DAY(S)
LIMITING FACTOR:	STORES
BUILDER:	CAMPBELL SHIP
WHERE BUILT:	SAN DIEGO CA USA
INITIAL COST:	5.5/73 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'73
DELIVERY DATE:	'73
COMMISSION DATE:	'73
CONVERSION DATE:	'90
LAST OVERHAUL:	'90
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	2020
UPDATE OF INFORMATION:	01 DEC 91

SHIP DIMENSIONS

LENGTH:	220.0	FEET
MAX BEAM:	38.0	FEET
HEIGHT:	70.0	FEET
GROSS TONNAGE:	968	
DISPLACEMENT:	1750	TONS
DRAUGHT:	14.8	FEET
CRUISE SPEED:	13.0	KNOTS
RANGE:	18000	NAUTICAL MILES
MAX SPEED:	17.0	KNOTS
MIN SPEED:	00.1	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	550HP OMNITHRUSTER
NUMBER OF SHAFTS:	1
BOW THRUSTER:	Y
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	Y
ANTI-ROLL:	Y
STABILIZER:	N
DEEP ANCHOR:	1500 FEET
BERTHING VAN DIMENSIONS:	8X8X20
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 18 FOOT SURVEY LAUNCH
2. 14 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	30000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	36000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	20000 FEET
WIRE DIAMETER:	0.187 INCHES
02. MAJOR TYPE/USE:	CORING
SECONDARY TYPE/USE:	TRAWL
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	20000 FEET
WIRE DIAMETER:	0.500 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	Y
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	Y
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	YES
SOUNDING SYSTEM (DEEP):	YES

FUEL DETAILS

FUEL CAPACITY:	121000	GALLONS
FUEL TYPE:		DIESEL #2
FUEL CONSUMPTION RATES:		
AT NORMAL CRUISING SPEED:	2500	GAL/24-HRS
DURING AVERAGE OPERATIONS:	1500	GAL/24-HRS
DURING INPORT OPERATIONS:	300	GAL/24-HRS

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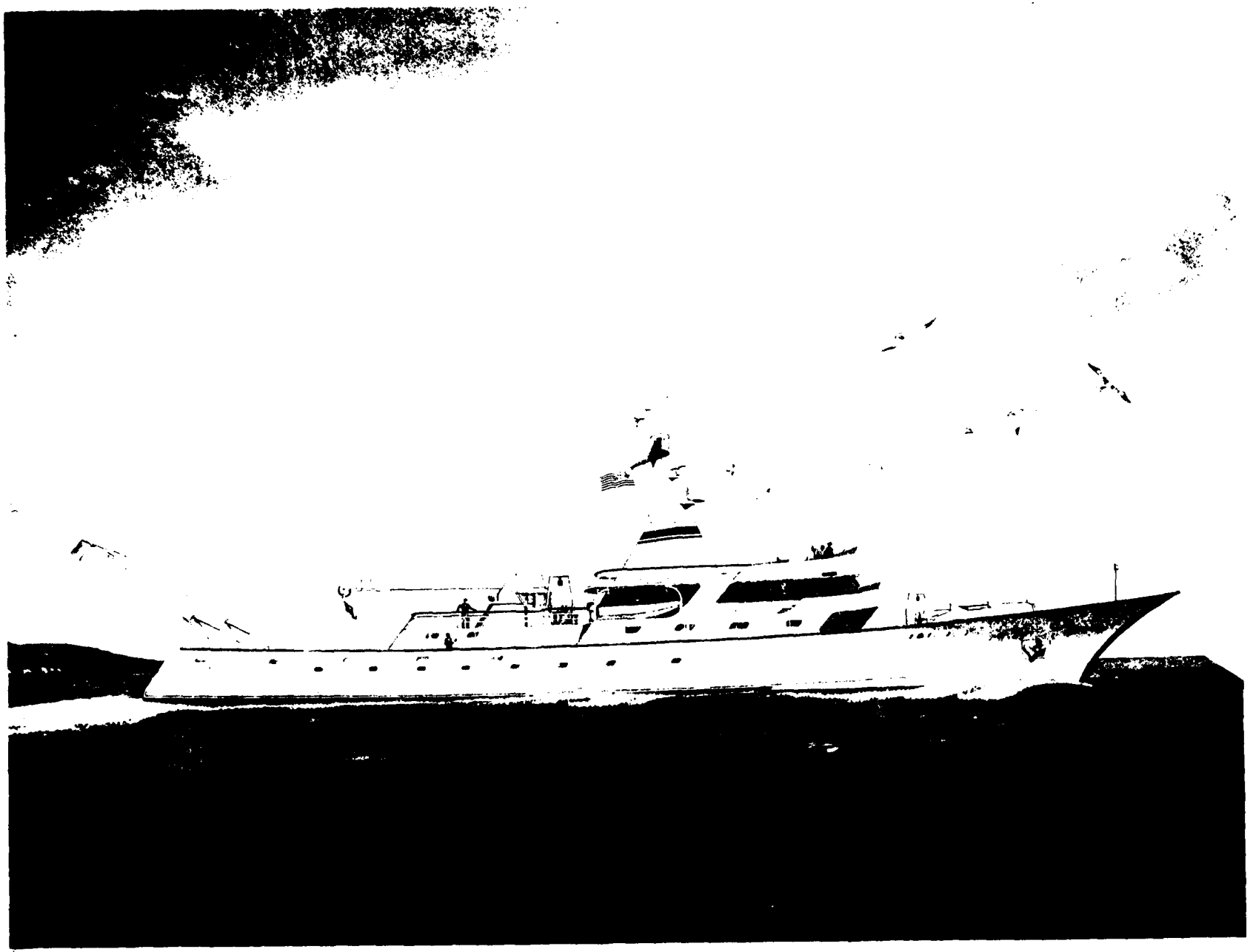

R/V JOHN V. VICKERS

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GYRE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. DEAN E. LETZRING
POC OFFICE:	MANAGER MARINE OPERATIONS
POC ORGANIZATION:	TEXAS A&M UNIVERSITY
POC ADDRESS:	P.O. BOX 1675
POC CITY/STATE:	GALVESTON, TX 77553
COMMERCIAL AREA CODE:	409
PHONE:	740-4469

ADMINISTRATIVE DETAILS

DESIGNATOR:	AGOR 21
CLASS:	AGOR 21 CLASS
CALL SIGN (INTERNATIONAL):	KJCL
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH - GENERAL
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	AMERICAN BUREAU OF SHIPPING
FLAG REGISTRY:	USA
HOME PORT:	GALVESTON TX
TECHNICAL SPONSOR:	TEXAS A&M RESEARCH FOUNDATION
OPERATIONS CONTROL:	TEXAS A&M UNIVERSITY
CONTRACTUAL INFORMATION:	AVAILABLE FOR REIMBURSABLE LEASE. CALL POC
OPERATING COST/DAY:	6.5/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	23
NUMBER OFFICERS:	5
NUMBER IN CREW:	5
MAX SEA STATE:	8 BEAUFORT SCALE
ENDURANCE:	60 DAY(S)
LIMITING FACTOR:	FOOD
BUILDER:	HALTER MARINE SERVICES INC
WHERE BUILT:	NEW ORLEANS LA USA
INITIAL COST:	3.1/73 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'73
LAUNCH DATE:	25 MAY 73
DELIVERY DATE:	14 NOV 73
COMMISSION DATE:	'00
CONVERSION DATE:	'80
LAST OVERHAUL:	00 SEP 88
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	2003
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	182.0	FEET
MAX BEAM:	36.0	FEET
HEIGHT:	42.0	FEET
GROSS TONNAGE:	292	
DISPLACEMENT:	946	TONS
DRAUGHT:	12.5	FEET
CRUISE SPEED:	9.5	KNOTS
RANGE:	8000	NAUTICAL MILES
MAX SPEED:	11.8	KNOTS
MIN SPEED:	0.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	ELECTRIC/HYDRAULIC
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	10000 FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	30000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	7000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	CTD
SLIP-RINGS:	Y
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	23000 FEET
WIRE DIAMETER:	0.322 INCHES
02. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	Y
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.322 INCHES

03. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.500 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	HP 600A SAILLOOP
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	Y
LORAN C:	Y
OMEGA:	Y
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	89000 GALLONS
FUEL TYPE:	DIESEL FUEL MARINE
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1600 GAL/24-HRS
DURING AVERAGE OPERATIONS:	1400 GAL/24-HRS
DURING INPORT OPERATIONS:	400 GAL/24-HRS

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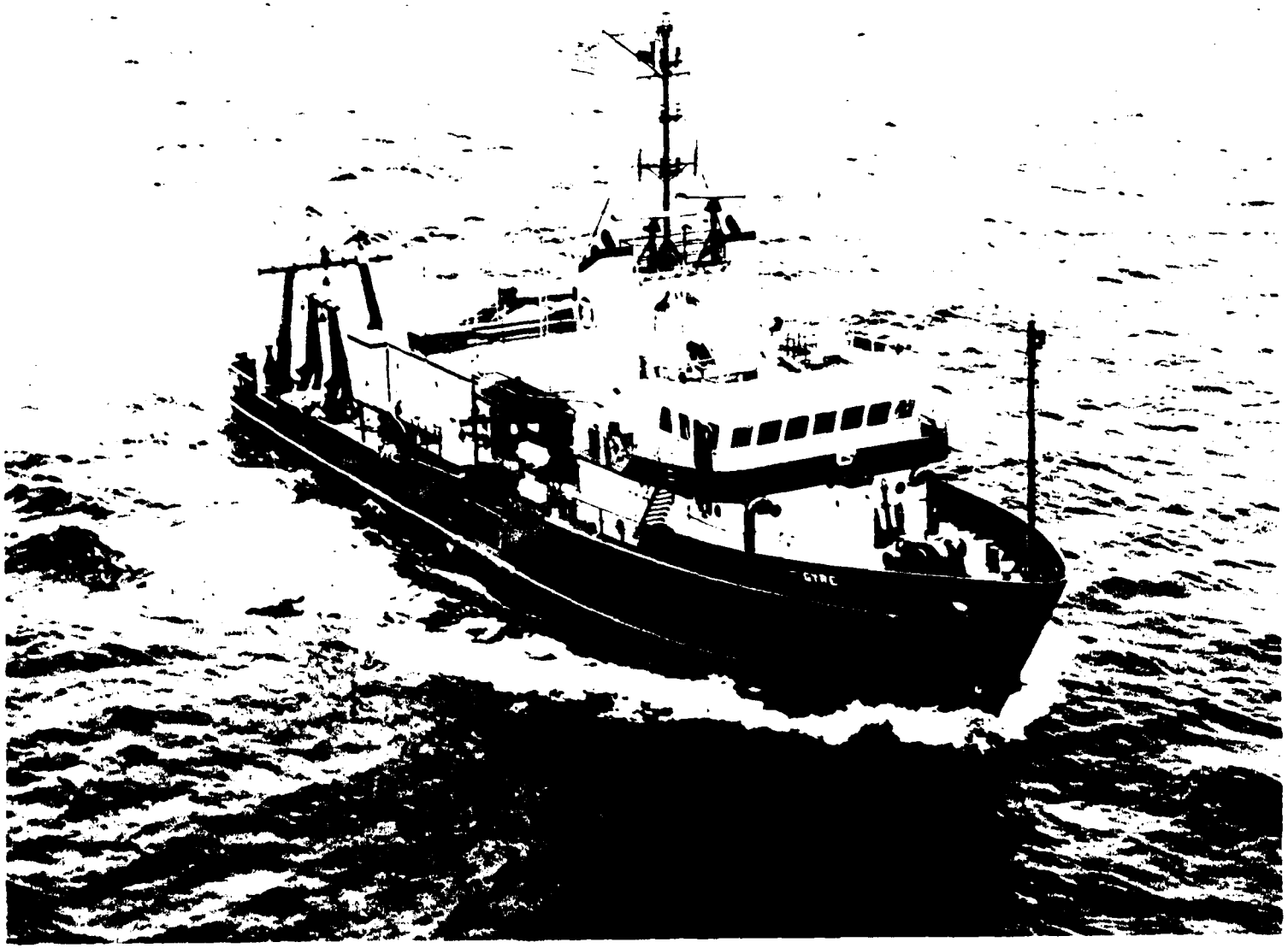
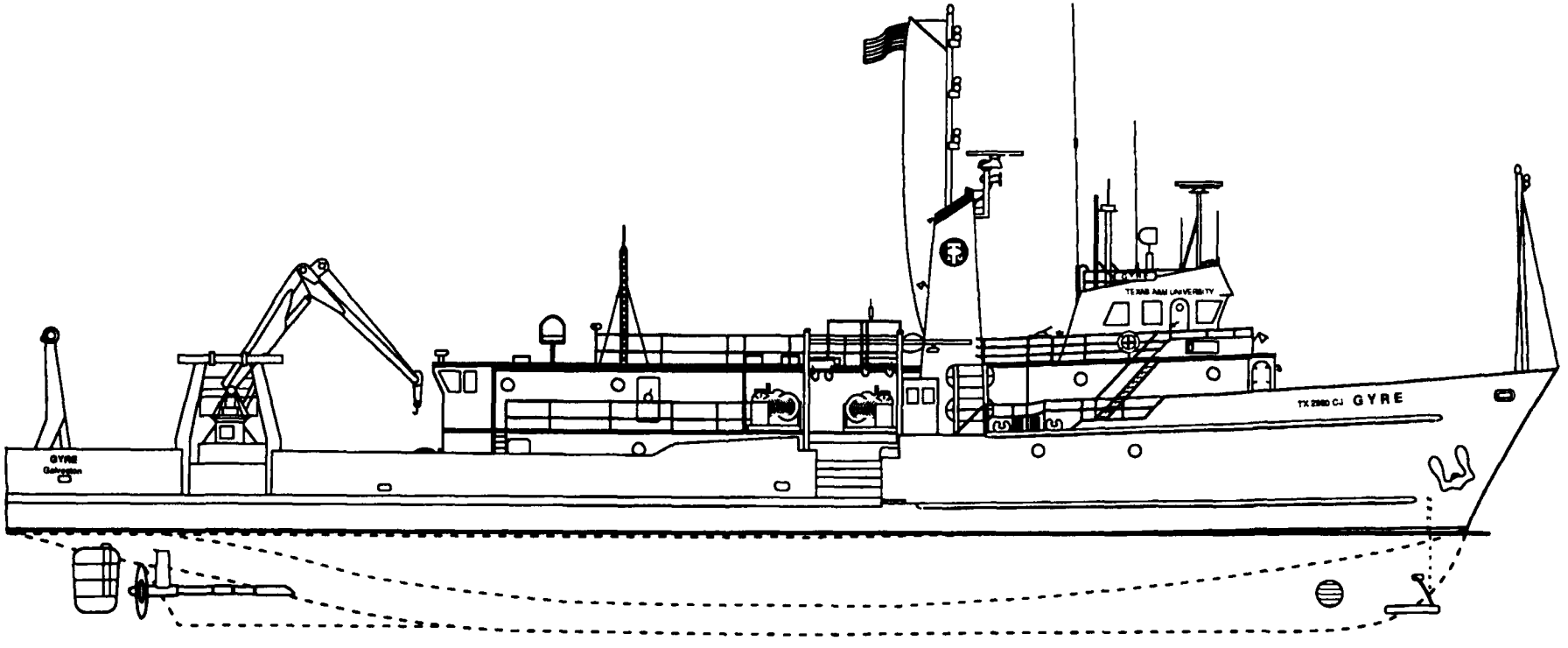
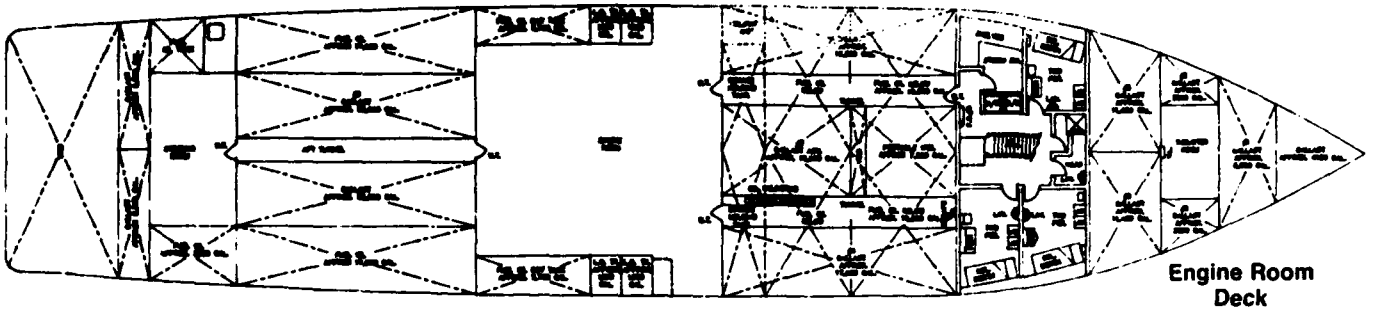


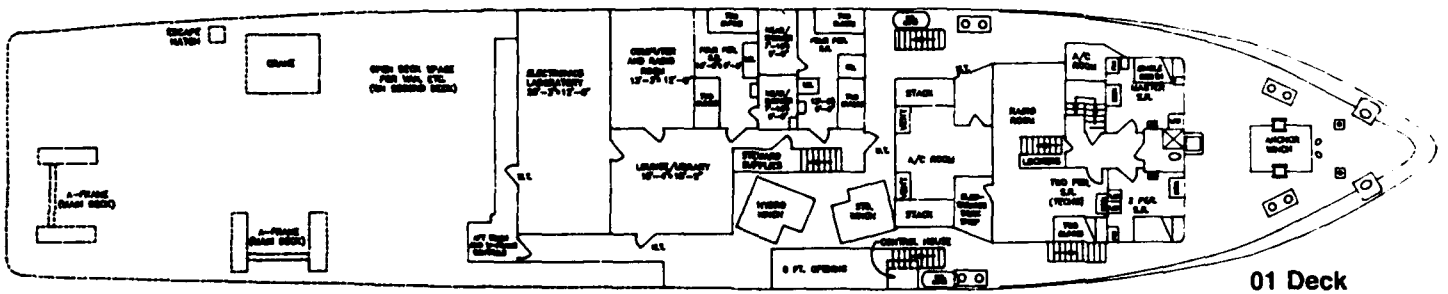
R/V GYRE

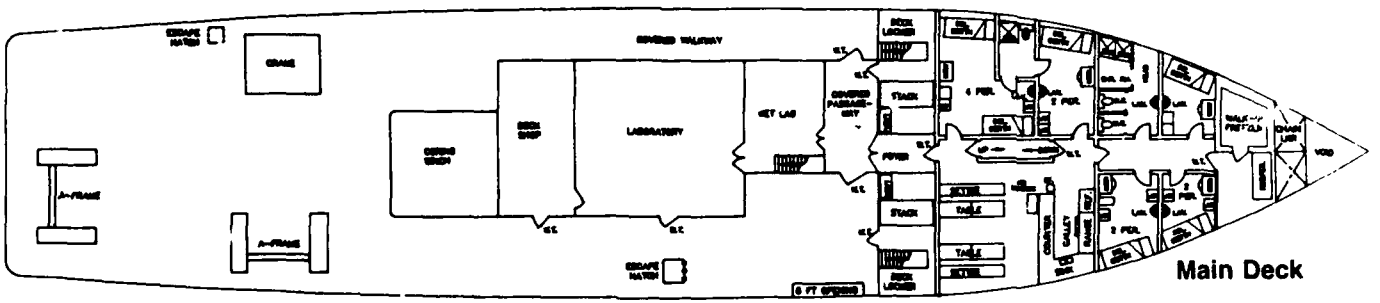


OUTBOARD PROFILE

R/V GYRE







DECK PLANS

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LONGHORN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. JOHN H. THOMPSON
POC OFFICE:	ASSOCIATE DIRECTOR FOR ADMINISTRATION
POC ORGANIZATION:	MARINE SCIENCE LABORATORY
POC ADDRESS:	UNIVERSITY OF TEXAS
POC CITY/STATE:	PORT ARANSAS TX 78373
COMMERCIAL AREA CODE:	512
PHONE:	749-6760

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	TRAWLER
CALL SIGN (INTERNATIONAL):	WZL3621
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	UNIVERSITY OF TEXAS
CERTIFICATION AUTHORITY:	TEXAS PARKS & WILDLIFE
FLAG REGISTRY:	USA
HOME PORT:	PORT ARANSAS TX
TECHNICAL SPONSOR:	UNIVERSITY OF TEXAS
OPERATIONS CONTROL:	U.TEX.-PORT ARANSAS MARINE LAB
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	2.0/87 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	10
NUMBER OFFICERS:	2
NUMBER IN CREW:	4
MAX SEA STATE:	3 BEAUFORT SCALE
ENDURANCE:	18 DAY(S)
LIMITING FACTOR:	WATER-REFRIG. STORES
BUILDER:	ALLIED SHIPYARD
WHERE BUILT:	LAROSE, LA USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'71
DELIVERY DATE:	'71
COMMISSION DATE:	'71
CONVERSION DATE:	'86
LAST OVERHAUL:	'86
MAINTENANCE CYCLE:	1.6 YEARS
END OF LIFE:	2000
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	105.0	FEET
MAX BEAM:	24.2	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	175	
DISPLACEMENT:	210	TONS
DRAUGHT:	7.3	FEET
CRUISE SPEED:	9.0	KNOTS
RANGE:	2000	NAUTICAL MILES
MAX SPEED:	9.5	KNOTS
MIN SPEED:	1.5	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	HYDRAULIC, TUNNEL
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	8X8X20
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	NO

UTILITY BOATS:

1. 15 FOOT RUBBER INFLATABLE
2. 16 FOOT UTILITY

A, U, OR L FRAMES

MAX HOIST CAPACITY:	6000 POUNDS
NUMBER OF FRAMES:	1

CRANES OR BOOMS

MAX HOIST CAPACITY:	2500 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	4000 FEET
WIRE DIAMETER:	0.500 INCHES
02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	9800 FEET
WIRE DIAMETER:	0.250 INCHES

03. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	9700 FEET
WIRE DIAMETER:	0.219 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	IBM-PC
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	MORROW
SOUNDING SYSTEM (DEEP):	FURUNO

FUEL DETAILS

FUEL CAPACITY:	11000	GALLONS
FUEL TYPE:		DIESEL #2/DIESEL #1
FUEL CONSUMPTION RATES:		
AT NORMAL CRUISING SPEED:	960	GAL/24-HRS
DURING AVERAGE OPERATIONS:	400	GAL/24-HRS
DURING INPORT OPERATIONS:	140	GAL/24-HRS

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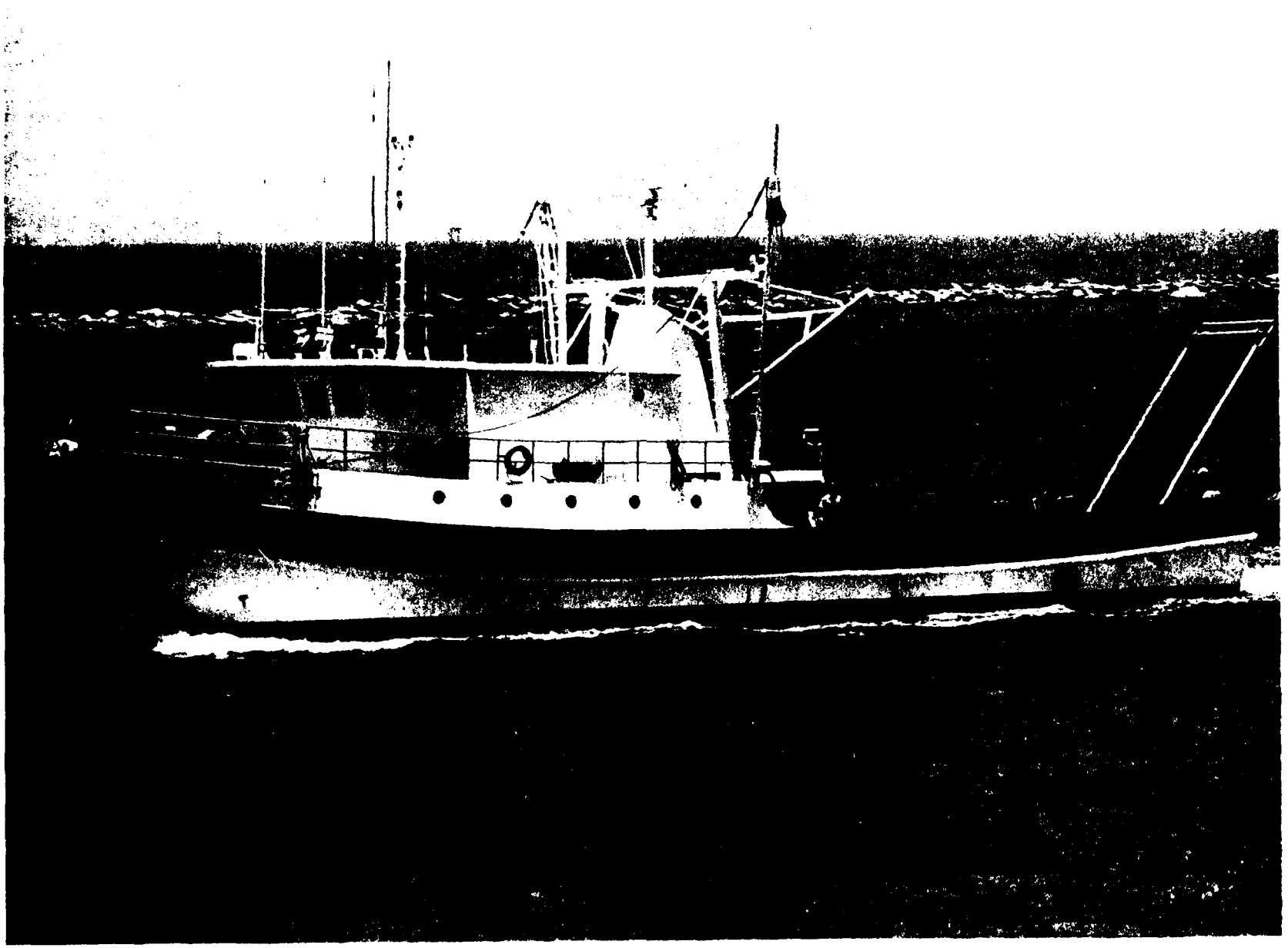

R/V LORNHORN

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CLIFFORD A BARNES

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. K. W. JEFFERS
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	SCHOOL OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF WASHINGTON WB10
POC CITY/STATE:	SEATTLE WA 98195
COMMERCIAL AREA CODE:	206
PHONE:	543-5062

ADMINISTRATIVE DETAILS

DESIGNATOR:	-
CLASS:	STEEL HULL UTILITY
CALL SIGN (INTERNATIONAL):	-
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH - GENERAL
SHIP OWNER:	NATIONAL SCIENCE FOUNDATION
CERTIFICATION AUTHORITY:	-
FLAG REGISTRY:	USA
HOME PORT:	SEATTLE WA USA
TECHNICAL SPONSOR:	UNIVERSITY OF WASHINGTON
OPERATIONS CONTROL:	UNIVERSITY OF WASHINGTON
CONTRACTUAL INFORMATION:	*NSF OCE 82-19239 EXPIRES 10/92*
OPERATING COST/DAY:	3.0/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	6
NUMBER OFFICERS:	0
NUMBER IN CREW:	2
MAX SEA STATE:	2 BEAUFORT SCALE
ENDURANCE:	7 DAY(S)
LIMITING FACTOR:	CREW
BUILDER:	WESTERN BOAT BUILDING CORP.
WHERE BUILT:	TACOMA WA USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'00
DELIVERY DATE:	'66
COMMISSION DATE:	'82
CONVERSION DATE:	'84
LAST OVERHAUL:	'90
MAINTENANCE CYCLE:	4.0 YEARS
END OF LIFE:	2004
UPDATE OF INFORMATION:	29 OCT 90

SHIP DIMENSIONS

LENGTH:	65.5	FEET
MAX BEAM:	19.6	FEET
HEIGHT:	27.0	FEET
GROSS TONNAGE:	-	
DISPLACEMENT:	86	TONS
DRAUGHT:	6.7	FEET
CRUISE SPEED:	9.0	KNOTS
RANGE:	1600	NAUTICAL MILES
MAX SPEED:	10.0	KNOTS
MIN SPEED:	1.5	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	1
BOW THRUSTER:	NO
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	N
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	NO

UTILITY BOATS:

1. 13 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	- POUNDS
NUMBER OF FRAMES:	0

CRANES OR BOOMS

MAX HOIST CAPACITY:	1600 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01.	MAJOR TYPE/USE:	CTD
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	1
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	4500 FEET
	WIRE DIAMETER:	0.322 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	5000 FEET
	WIRE DIAMETER:	0.188 INCHES

03. MAJOR TYPE/USE:	ANCHOR
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	1500 FEET
WIRE DIAMETER:	0.500 INCHES
04. MAJOR TYPE/USE:	OTHER
SECONDARY TYPE/USE:	TRAWL
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	600 FEET
WIRE DIAMETER:	0.500 INCHES
05. MAJOR TYPE/USE:	OTHER
SECONDARY TYPE/USE:	TRAWL
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	600 FEET
WIRE DIAMETER:	0.500 INCHES
06. MAJOR TYPE/USE:	CTD
SLIP-RINGS:	1
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	1000 FEET
WIRE DIAMETER:	0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	FURUNO

FUEL DETAILS

FUEL CAPACITY:	1900 GALLONS
FUEL TYPE:	DIESEL #2/DIESEL #1
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	220 GAL/24-HRS
DURING AVERAGE OPERATIONS:	105 GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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THOMAS G. THOMPSON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. K. W. JEFFERS
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	SCHOOL OF OCEANOGRAPHY
POC ADDRESS:	UNIVERSITY OF WASHINGTON WB10
POC CITY/STATE:	SEATTLE WA 98195
COMMERCIAL AREA CODE:	206
PHONE:	543-5062

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	AGOR-23
CALL SIGN (INTERNATIONAL):	KTDQ
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH - GENERAL
SHIP OWNER:	OFFICE OF NAVAL RESEARCH
CERTIFICATION AUTHORITY:	US COAST GUARD
FLAG REGISTRY:	USA
HOME PORT:	SEATTLE WA USA
TECHNICAL SPONSOR:	UNIVERSITY OF WASHINGTON
OPERATIONS CONTROL:	UNIVERSITY OF WASHINGTON
CONTRACTUAL INFORMATION:	CHARTER PARTY AGREEMENT TO BE EXECUTED
OPERATING COST/DAY:	15.0/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	27
NUMBER OFFICERS:	9
NUMBER IN CREW:	13
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	33 DAYS @ 14KT AND 29 DAYS @ 3KT
LIMITING FACTOR:	FOOD/FUEL
BUILDER:	HALTER MARINE, INC.
WHERE BUILT:	MOSS POINT MS USA
INITIAL COST:	27.0/90 MILLION $'S IN YEAR
DUE DATE:	-
KEEL DATE:	29 MAR 89
LAUNCH DATE:	27 JUL 90
DELIVERY DATE:	00 AUG 90
COMMISSION DATE:	-
CONVERSION DATE:	-
LAST OVERHAUL:	-
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	2020
UPDATE OF INFORMATION:	29 OCT 90

SHIP DIMENSIONS

LENGTH:	274.0	FEET
MAX BEAM:	52.5	FEET
HEIGHT:	92.0	FEET
GROSS TONNAGE:	2050	
DISPLACEMENT:	3250	TONS
DRAUGHT:	19.0	FEET
CRUISE SPEED:	12.5	KNOTS
RANGE:	13000	NAUTICAL MILES
MAX SPEED:	14.0	KNOTS
MIN SPEED:	1.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL ELECTRIC
AUXILIARY PROPULSION:	-
NUMBER OF SHAFTS:	2
BOW THRUSTER:	YES, WATER JET
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	ROBERTSON ROBPOS
ANTI-ROLL:	Y
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X20 (MULTIPLE)
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	Y
HELO SUPPORT:	HOVER AREA ONLY
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 26 FOOT AVON SR-8 RIB
2. 15 FOOT ALUMINUM SKIFF
3. 15 FOOT ACHILLES INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	24000 POUNDS
NUMBER OF FRAMES:	2

CRANES OR BOOMS

MAX HOIST CAPACITY:	42000 POUNDS
NUMBER OF CRANES:	4

WINCHES:

01.	MAJOR TYPE/USE:	CTD
	SECONDARY TYPE/USE:	-
	SLIP-RINGS:	-
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.322 INCHES
02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	-
	SLIP-RINGS:	-
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.250 INCHES

03. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	-
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.563 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LENH:	30000 FEET
SECONDARY WIRE DIAM:	0.680 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	DATA ACQUISITION, PCs
FACSIMILE:	Y
SPEED LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	Y
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	265000 GALLONS
FUEL TYPE:	MARINE DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	4500 GAL/24-HRS
DURING AVERAGE OPERATIONS:	3000 GAL/24-HRS
DURING INPORT OPERATIONS:	1000 GAL/24-HRS

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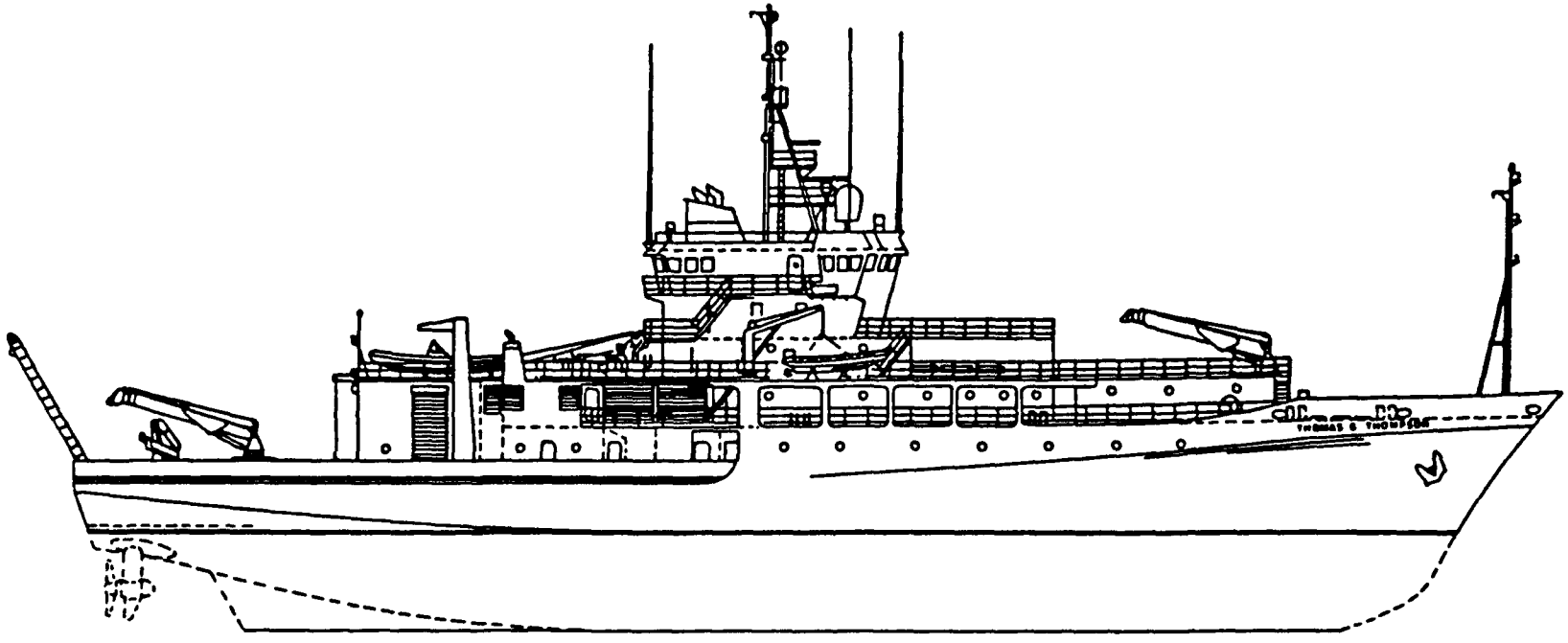
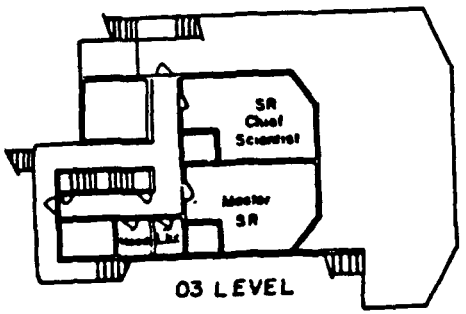
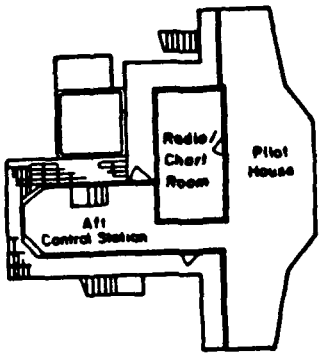


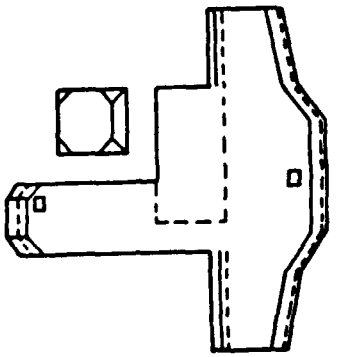
R/V THOMAS G. THOMPSON
OUTBOARD PROFILE



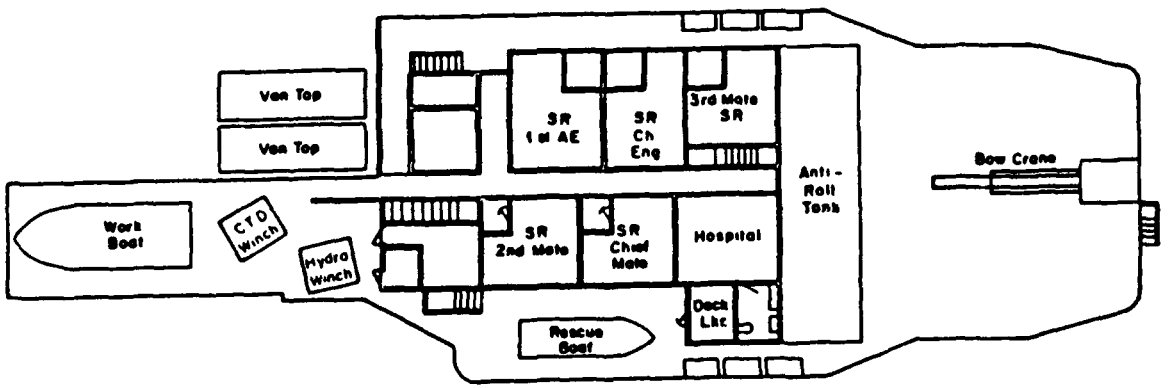
03 LEVEL



04 LEVEL

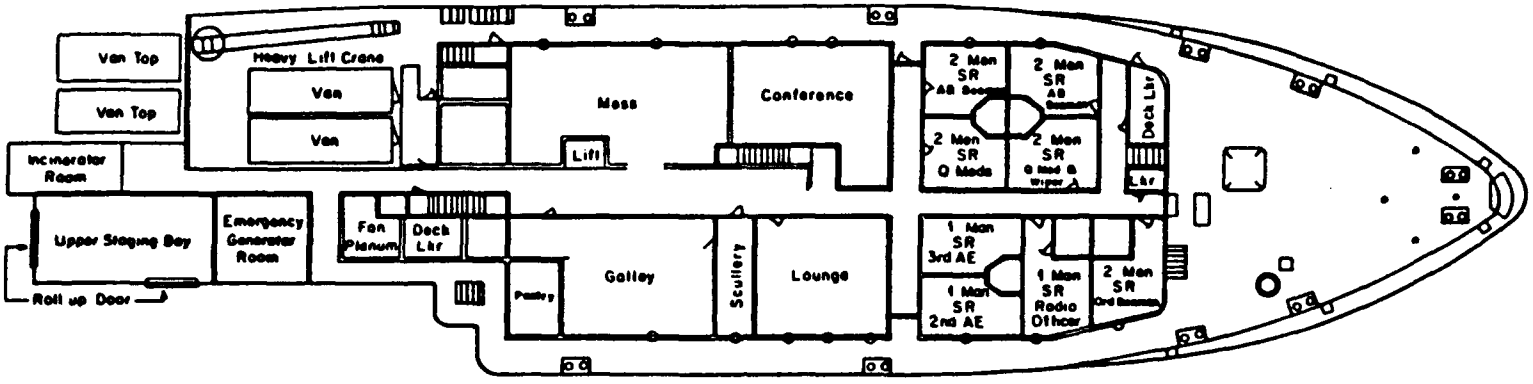


05 LEVEL

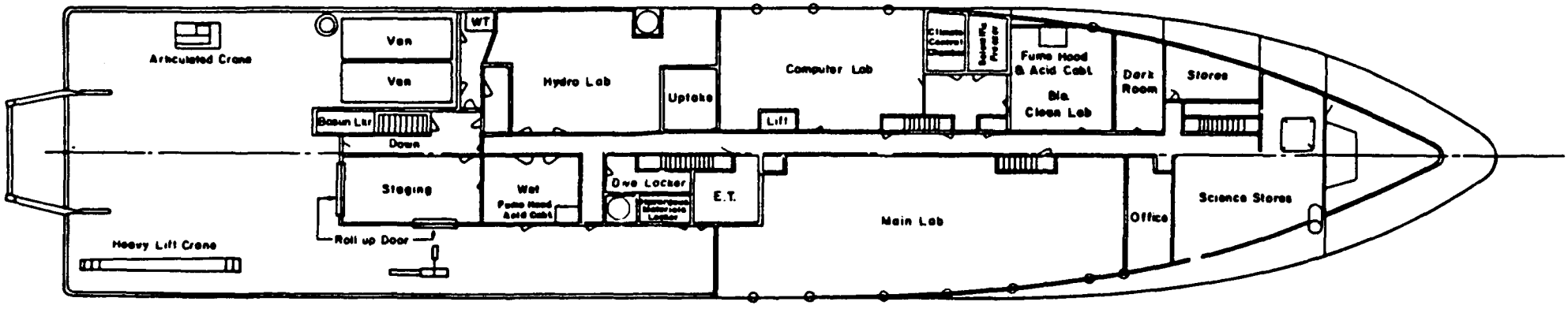


02 LEVEL

R/V THOMAS G. THOMPSON

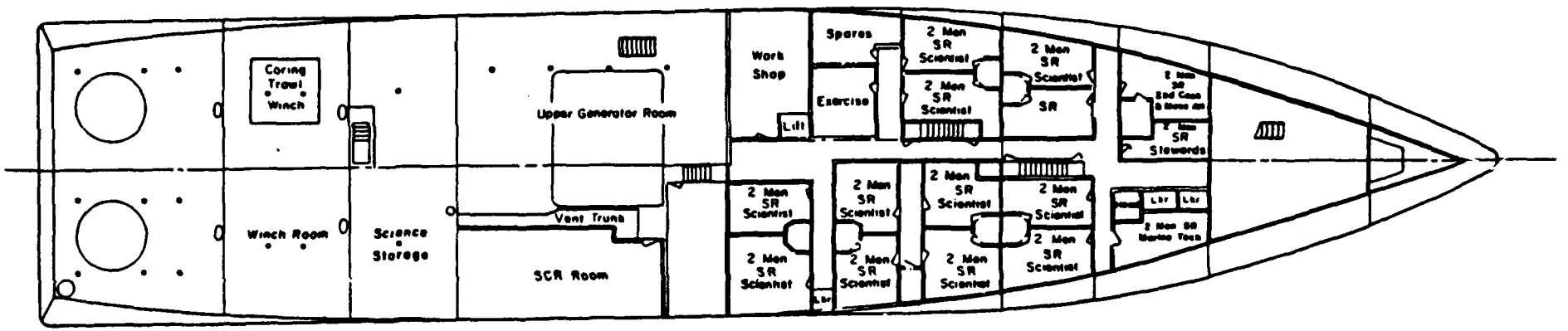


01 LEVEL

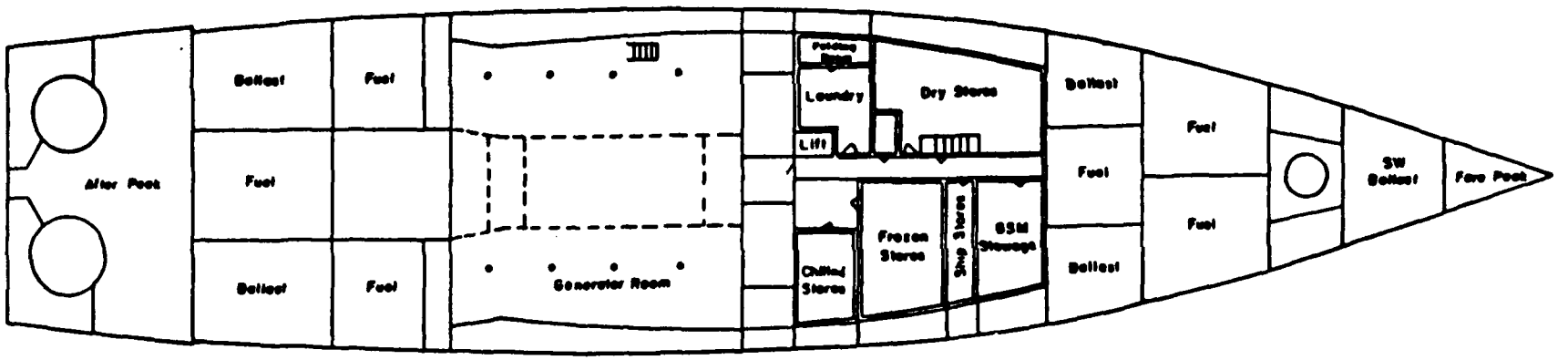


UPPER MAIN DECK

R/V THOMAS G. THOMPSON



1st PLATFORM DECK



HOLD & TANK TOP PLAN

R/V THOMAS G. THOMPSON

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ATLANTIS II

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT. J. L. COBURN, JR.
POC OFFICE:	MARINE OPERATIONS MANAGER
POC ORGANIZATION:	MARINE OPERATIONS
POC ADDRESS:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
POC CITY/STATE:	WOODS HOLE MA 02543
COMMERCIAL AREA CODE:	508
PHONE:	548-1400

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	-
CALL SIGN (INTERNATIONAL):	KADC
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-SUBMERSIBLE TENDER
SHIP OWNER:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
CERTIFICATION AUTHORITY:	USCG
FLAG REGISTRY:	USA
HOME PORT:	WOODS HOLE MA
TECHNICAL SPONSOR:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
OPERATIONS CONTROL:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	14.9/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	28
NUMBER OFFICERS:	-
NUMBER IN CREW:	25
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	30 DAY(S)
LIMITING FACTOR:	ALVIN REQUIREMENTS
BUILDER:	MARYLAND SHIPBUILDING AND DRYDOCK CO.
WHERE BUILT:	BALTIMORE MD USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'62
DELIVERY DATE:	31 JAN 63
COMMISSION DATE:	'00
CONVERSION DATE:	'83
LAST OVERHAUL:	00 JAN 88
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	1999
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	210.3	FEET
MAX BEAM:	44.0	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	1529	
DISPLACEMENT:	2300	TONS
DRAUGHT:	16.0	FEET
CRUISE SPEED:	11.5	KNOTS
RANGE:	9000	NAUTICAL MILES
MAX SPEED:	13.0	KNOTS
MIN SPEED:	-	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	DIESEL
NUMBER OF SHAFTS:	2
BOW THRUSTER:	TRAINABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	*NONE FEET*
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	N

UTILITY BOATS:

1. 16 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	56000 POUNDS
NUMBER OF FRAMES:	1

CRANES OR BOOMS

MAX HOIST CAPACITY:	40000 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01.

MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.500 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.187 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.303 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	MICROVAX, PC'S
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	FURUNO
SOUNDING SYSTEM (DEEP):	SEA BEAM

FUEL DETAILS

FUEL CAPACITY:	90000 GALLONS
FUEL TYPE:	MG-O
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	GAL/24-HRS
DURING AVERAGE OPERATIONS:	GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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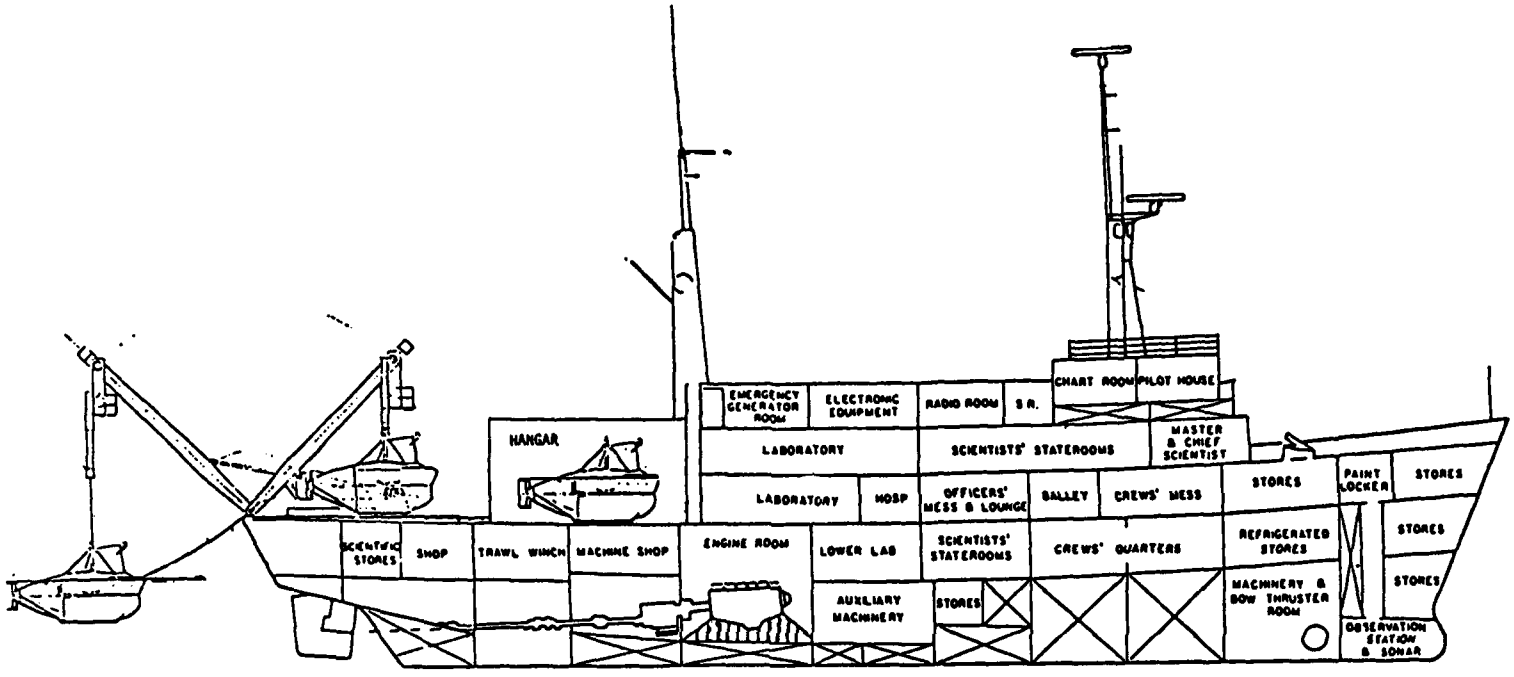

R/V ATLANTIS II

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KNORR

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT J. L. COBURN, JR.
POC OFFICE:	MARINE OPERATIONS MANAGER
POC ORGANIZATION:	MARINE OPERATIONS
POC ADDRESS:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
POC CITY/STATE:	WOODS HOLE MA 02543
COMMERCIAL AREA CODE:	508
PHONE:	548-1400

ADMINISTRATIVE DETAILS

DESIGNATOR:	AGOR 15
CLASS:	MELVILLE/AGOR 14
CALL SIGN (INTERNATIONAL):	KCEJ
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	USN
CERTIFICATION AUTHORITY:	US COAST GUARD
FLAG REGISTRY:	USA
HOME PORT:	WOODS HOLE MA
TECHNICAL SPONSOR:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
OPERATIONS CONTROL:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
CONTRACTUAL INFORMATION:	ONR CODE 611 LEASE TO EXPIRE 05 AUG 90
OPERATING COST/DAY:	17.0/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	-
NUMBER OFFICERS:	-
NUMBER IN CREW:	25
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	35 DAY(S)
LIMITING FACTOR:	-
BUILDER:	DEFOE SHIPBUILDING COMPANY
WHERE BUILT:	BAY CITY MI USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	09 AUG 67
LAUNCH DATE:	21 AUG 68
DELIVERY DATE:	'70
COMMISSION DATE:	14 JAN 70
CONVERSION DATE:	00 MAY 90
LAST OVERHAUL:	18 DEC 86
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	2010
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	278.8	FEET
MAX BEAM:	46.0	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	2200	
DISPLACEMENT:	2685	TONS
DRAUGHT:	15.5	FEET
CRUISE SPEED:	12.0	KNOTS
RANGE:	14000	NAUTICAL MILES
MAX SPEED:	14.0	KNOTS
MIN SPEED:	0.1	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL ELECTRIC
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	2
BOW THRUSTER:	RETRACTABLE,TRAINABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	Y
ANTI-ROLL:	Y
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X20
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	NO

UTILITY BOATS:

1. 19 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES	
MAX HOIST CAPACITY:	POUNDS
NUMBER OF FRAMES:	0
CRANES OR BOOMS	
MAX HOIST CAPACITY:	70000 POUNDS
NUMBER OF CRANES:	2

WINCHES:

01. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.187 INCHES
02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	
SLIP-RINGS:	Y
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	33000 FEET
WIRE DIAMETER:	0.322 INCHES

03.	MAJOR TYPE/USE:	TRAWL
	SECONDARY TYPE/USE:	
	SLIP-RINGS:	
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	30000 FEET
	WIRE DIAMETER:	0.500 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	Y, TYPE UNKNOWN
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	HYDRO PRODUCTS
SOUNDING SYSTEM (DEEP):	RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	160000 GALLONS
FUEL TYPE:	DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	2200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	2000 GAL/24-HRS
DURING INPORT OPERATIONS:	500 GAL/24-HRS

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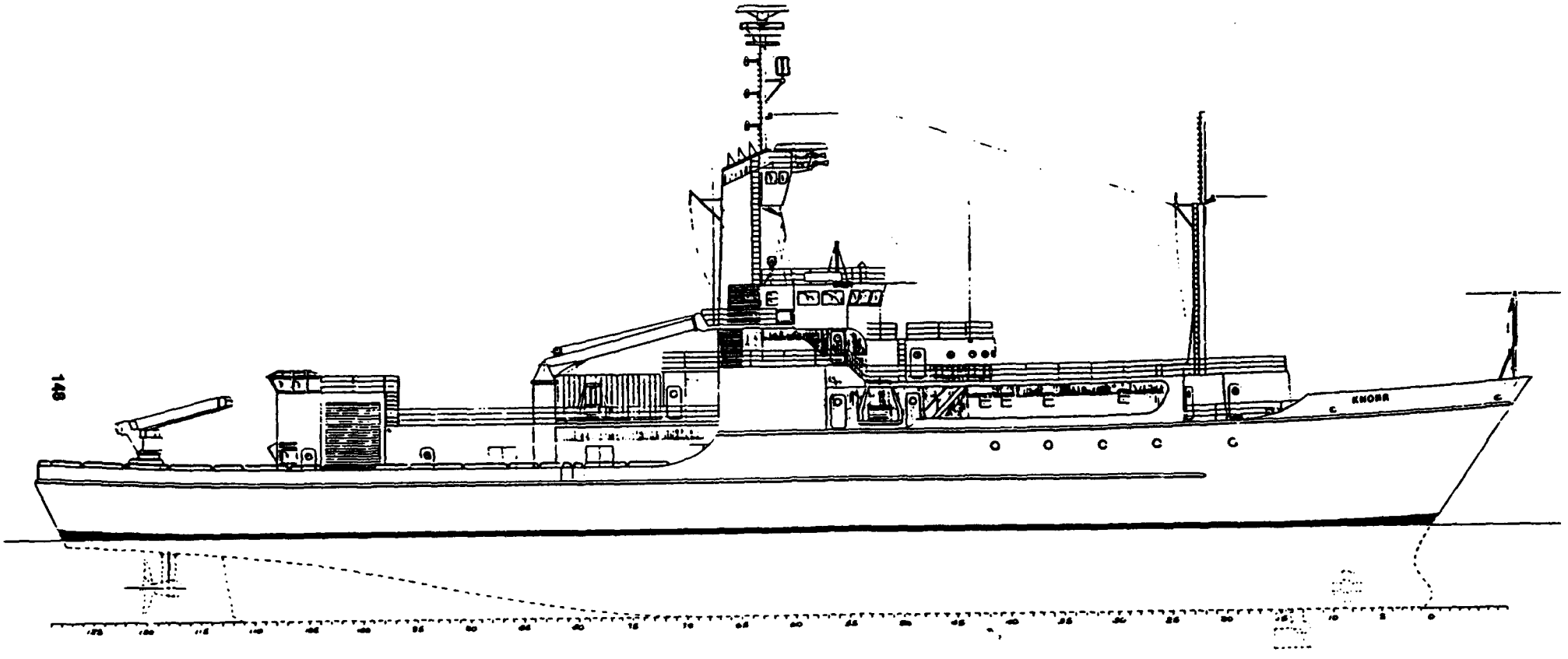
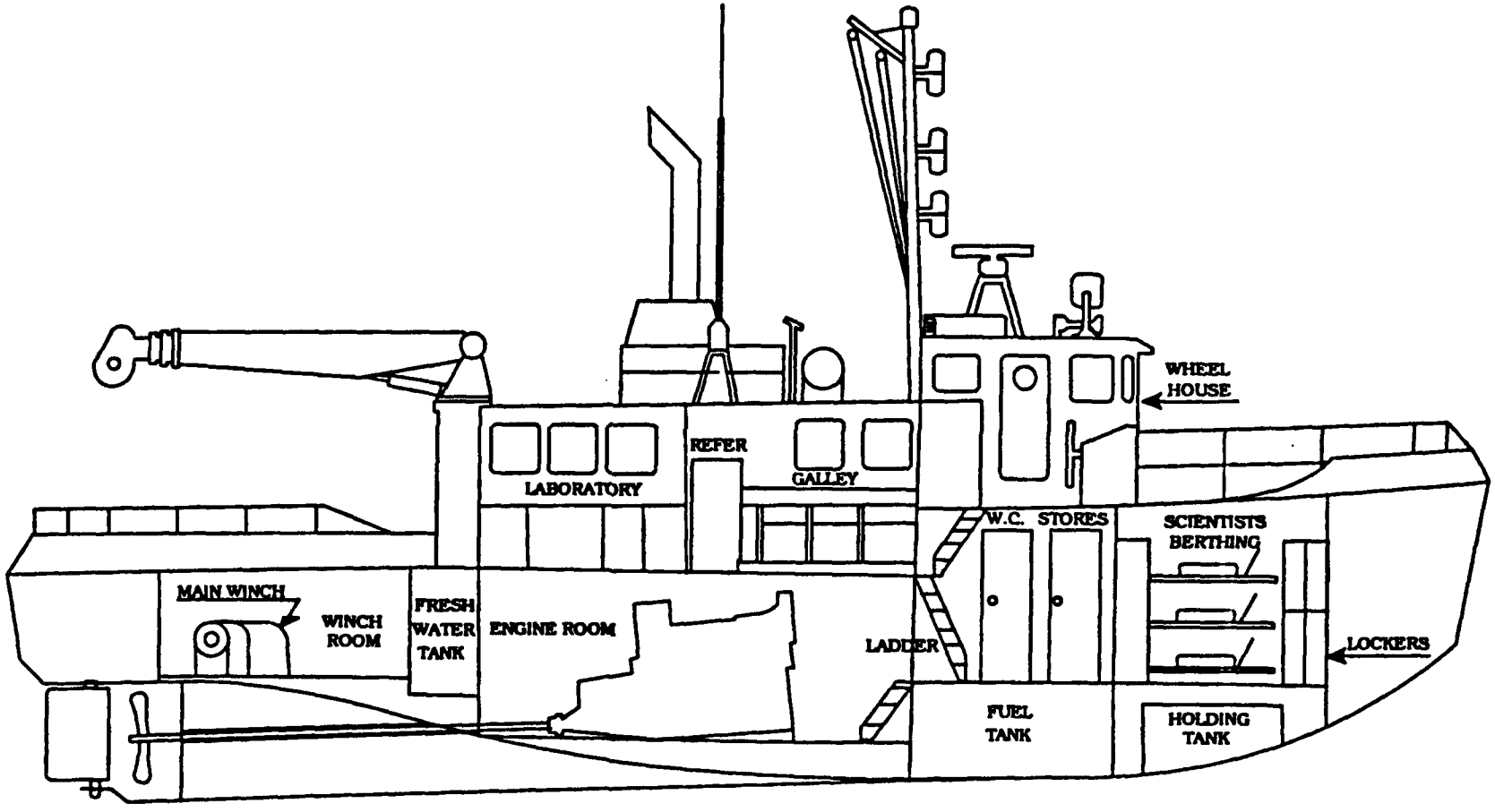


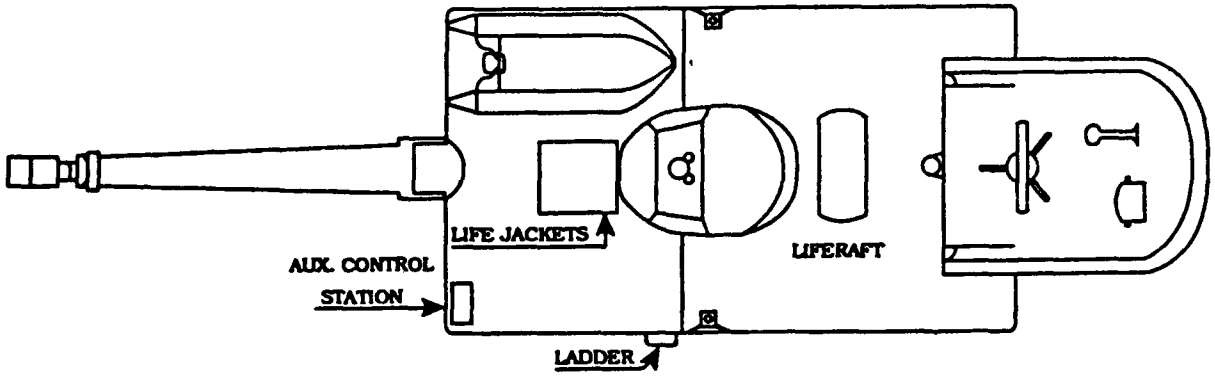
R/V KNORR

New Outboard Profile of AGOR-15 as Proposed

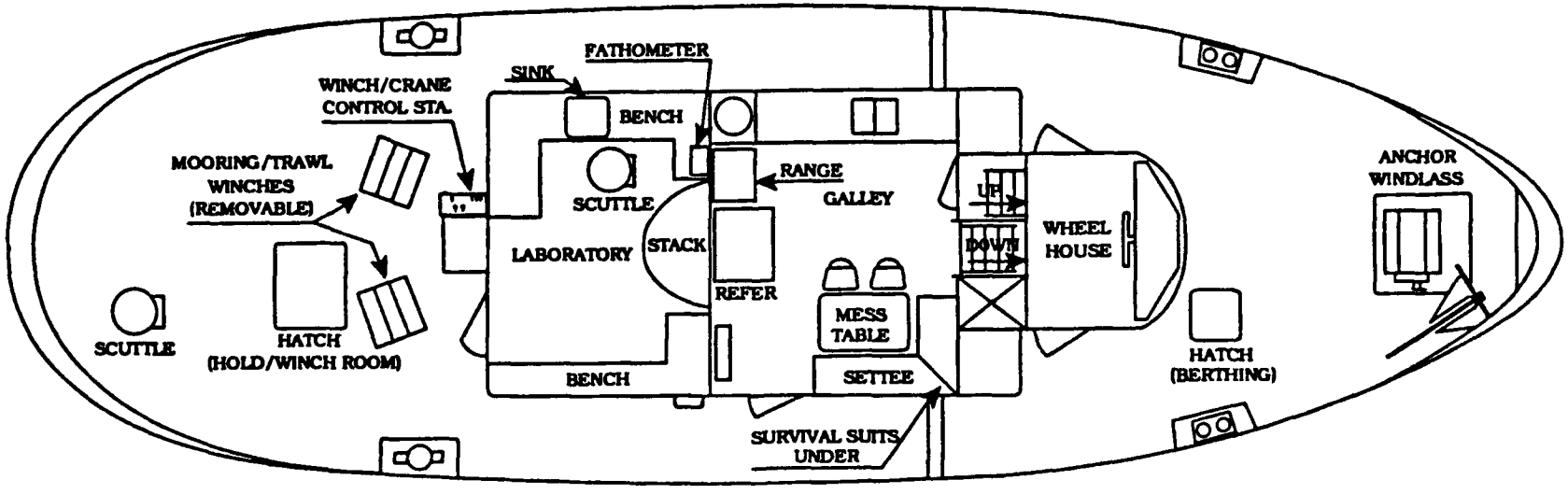


R/V KNORR

INBOARD PROFILE



UPPER DECK



R/V KNORR

MAIN DECK

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OCEANUS

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	CAPT J. L. COBURN, JR.
POC OFFICE:	MARINE OPERATIONS MANAGER
POC ORGANIZATION:	MARINE OPERATIONS
POC ADDRESS:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
POC CITY/STATE:	WOODS HOLE MA 02543
COMMERCIAL AREA CODE:	508
PHONE:	548-1400

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	OCEANUS
CALL SIGN (INTERNATIONAL):	WXAQ
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	NSF
CERTIFICATION AUTHORITY:	-
FLAG REGISTRY:	USA
HOME PORT:	WOODS HOLE MA
TECHNICAL SPONSOR:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
OPERATIONS CONTROL:	WOODS HOLE OCEANOGRAPHIC INSTITUTION
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	7.9/90 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	-
NUMBER IN CREW:	12
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	25 DAY(S)
LIMITING FACTOR:	-
BUILDER:	PETERSON BUILDERS INC
WHERE BUILT:	STURGEON BAY WI USA
INITIAL COST:	3.5/75 MILLION $'S IN YEAR
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	19 DEC 74
DELIVERY DATE:	21 NOV 75
COMMISSION DATE:	'00
CONVERSION DATE:	'91
LAST OVERHAUL:	00 AUG 89
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	2020
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	177.0	FEET
MAX BEAM:	33.0	FEET
HEIGHT:	86.0	FEET
GROSS TONNAGE:	297	
DISPLACEMENT:	960	TONS
DRAUGHT:	17.5	FEET
CRUISE SPEED:	12.5	KNOTS
RANGE:	7500	NAUTICAL MILES
MAX SPEED:	15.0	KNOTS
MIN SPEED:	1.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	1
BOW THRUSTER:	TRAINABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X8X13
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	-

UTILITY BOATS:

1. 15 FOOT RUBBER INFLATABLE
2. 12 FOOT SKIFF

A, U, OR L FRAMES

MAX HOIST CAPACITY:	30000 POUNDS
NUMBER OF FRAMES:	1

CRANES OR BOOMS

MAX HOIST CAPACITY:	30000 POUNDS
NUMBER OF CRANES:	1

WINCHES:

01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.500 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	Y
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	30000 FEET
WIRE DIAMETER:	0.187 INCHES
SECONDARY WIRE TYPE:	CONDUCTOR CABLE
SECONDARY WIRE LEN:	25000 FEET
SECONDARY WIRE DIAM:	0.303 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	PC'S
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	ROSS
SOUNDING SYSTEM (DEEP):	EDO RAYTHEON

FUEL DETAILS

FUEL CAPACITY:	56000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	GAL/24-HRS
DURING AVERAGE OPERATIONS:	GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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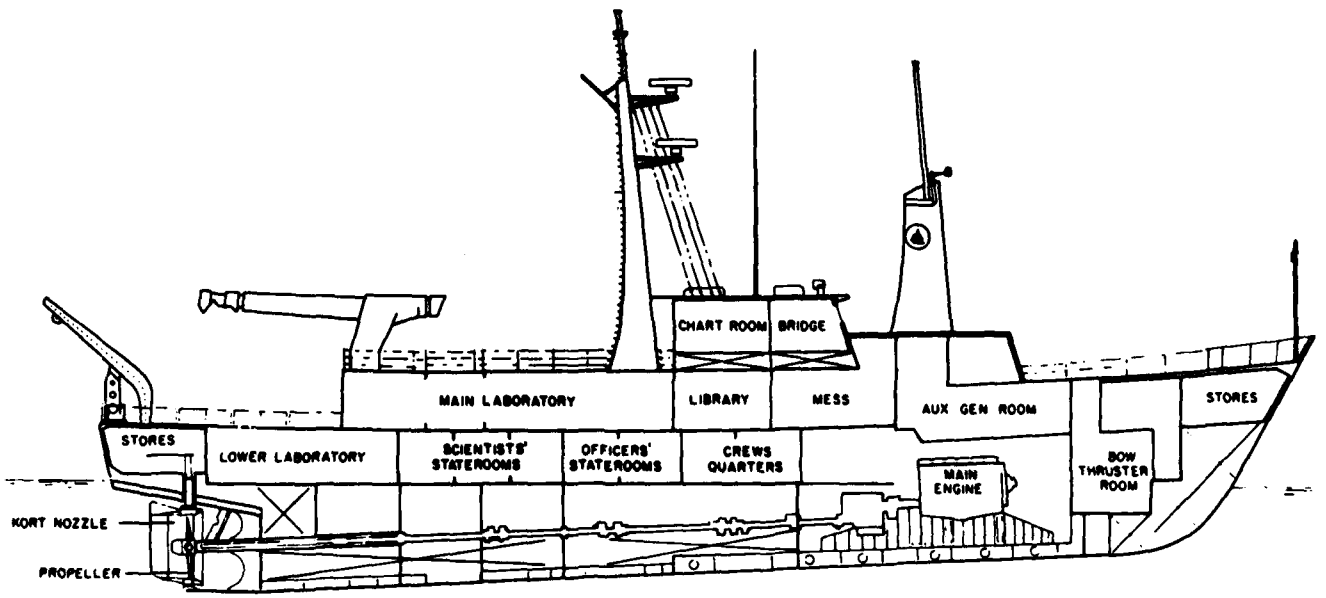
CHART ROOM
BRIDGE
MAIN LABORATORY
LIBRARY
MESS
AUX GEN ROOM
STORES
STORES
LOWER LABORATORY
SCIENTISTS' STATEROOMS
OFFICERS' STATEROOMS
CREWS QUARTERS
MAIN ENGINE
BOW THRUSTER ROOM
KORT NOZZLE
PROPELLER

R/V OCEANUS

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LAURENTIAN

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	LINDA GOAD
POC OFFICE:	CENTER FOR GREAT LAKES & AQUATIC SCIENCES
POC ORGANIZATION:	UNIVERSITY OF MICHIGAN
POC ADDRESS:	2200 BONISTEEL BLVD
POC CITY/STATE:	ANN ARBOR MI 48109-2099
COMMERCIAL AREA CODE:	313
PHONE:	763-5393
FAX:	747-2748

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	TRAWLER
CALL SIGN (INTERNATIONAL):	-
FLEET:	UNOLS
SHIP TYPE:	COASTAL ZONE RESEARCH-GENERAL
SHIP OWNER:	REGENTS, UNIVERSITY OF MICHIGAN
CERTIFICATION AUTHORITY:	-
FLAG REGISTRY:	USA
HOME PORT:	GRAND HAVEN MICHIGAN
TECHNICAL SPONSOR:	UNIVERSITY OF MICHIGAN
OPERATIONS CONTROL:	CENTER FOR GREAT LAKES & AQUATIC SCIENCES
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	3.8/91 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	8
NUMBER OFFICERS:	1
NUMBER IN CREW:	4
MAX SEA STATE:	4 BEAUFORT SCALE
ENDURANCE:	10 DAY(S)
LIMITING FACTOR:	STORES
BUILDER:	F B WALKER & SONS INC.
WHERE BUILT:	PASCAGOULA MS USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	00 APR 74
DELIVERY DATE:	00 JUN 74
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	00 APR 89
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	1998
UPDATE OF INFORMATION:	31 OCT 91

SHIP DIMENSIONS

LENGTH:	80.0	FEET
MAX BEAM:	21.5	FEET
HEIGHT:	40.0	FEET
GROSS TONNAGE:	129	
DISPLACEMENT:	180	TONS
DRAUGHT:	8.8	FEET
CRUISE SPEED:	8.5	KNOTS
RANGE:	3000	NAUTICAL MILES
MAX SPEED:	9.6	KNOTS
MIN SPEED:	0.5	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	N
NUMBER OF SHAFTS:	1
BOW THRUSTER:	N
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	600 FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	Y
UTILITY BOATS:	
1. 13 FOOT BOSTON WHALER	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	2000 POUNDS
NUMBER OF FRAMES:	1
CRANES OR BOOMS	
MAX HOIST CAPACITY:	2000 POUNDS
NUMBER OF CRANES:	1
WINCHES:	
01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	ANCHOR
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	2000 FEET
WIRE DIAMETER:	0.190 INCHES
02. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	CORING
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	2000 FEET
WIRE DIAMETER:	0.500 INCHES

03.	MAJOR TYPE/USE:	BATHYTHERMOGRAPHIC
	SECONDARY TYPE/USE:	OTHER
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	1500 FEET
	WIRE DIAMETER:	0.125 INCHES
04.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	N
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	1000 FEET
	WIRE DIAMETER:	0.125 INCHES
05.	MAJOR TYPE/USE:	CTD
	SECONDARY TYPE/USE:	
	SLIP-RINGS:	10
	WIRE TYPE:	CONDUCTOR CABLE
	WIRE LENGTH:	2300 FEET
	WIRE DIAMETER:	0.322 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	Y-ZENITH 286
FACSIMILE:	Y-ALDEN MARINE FAX 4
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	Y
SOUNDING SYSTEM (SHALLOW):	ROSS 801/250CG
SOUNDING SYSTEM (DEEP):	NONE

FUEL DETAILS

FUEL CAPACITY:	9000 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	336 GAL/24-HRS
DURING AVERAGE OPERATIONS:	300 GAL/24-HRS
DURING INPORT OPERATIONS:	95 GAL/24-HRS

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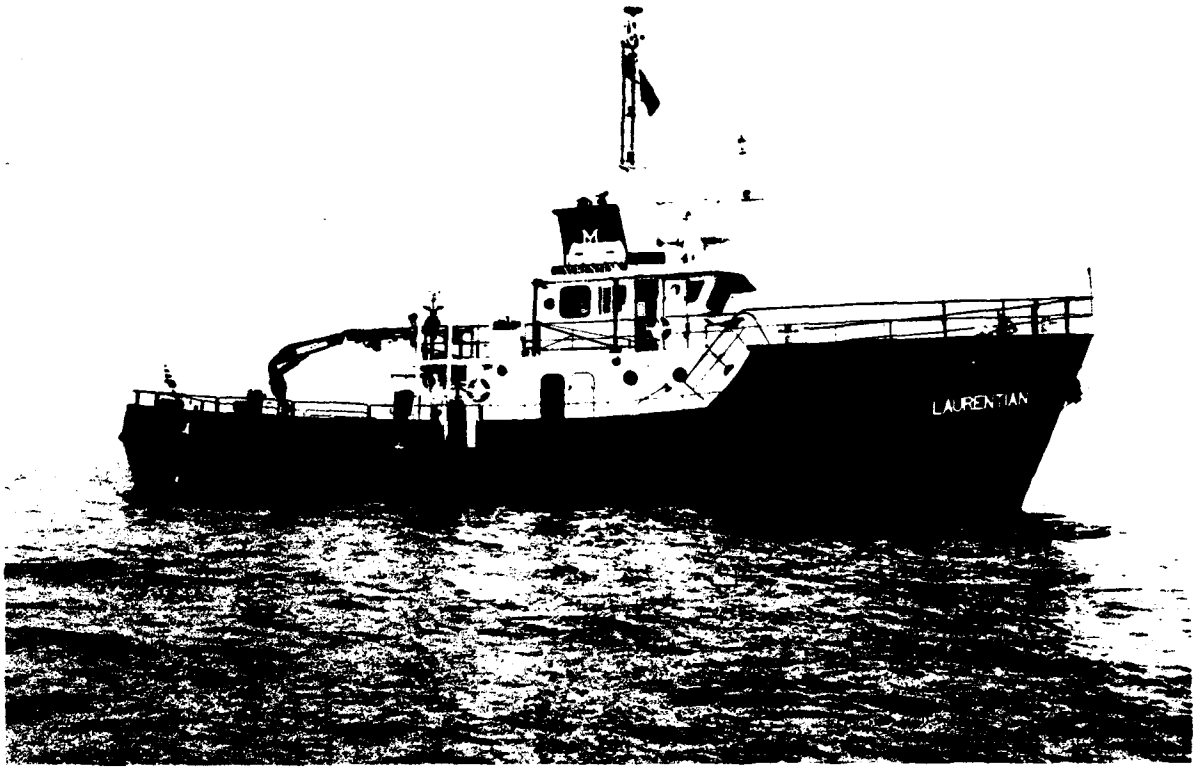
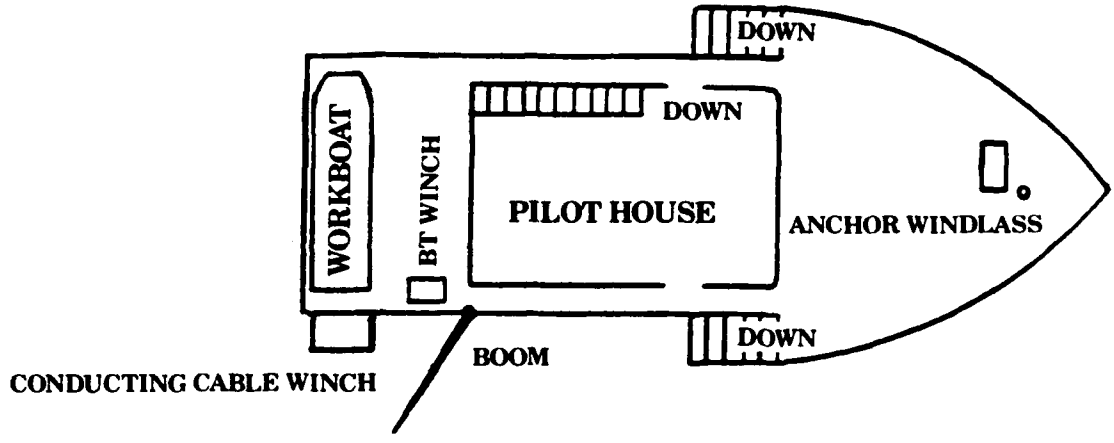
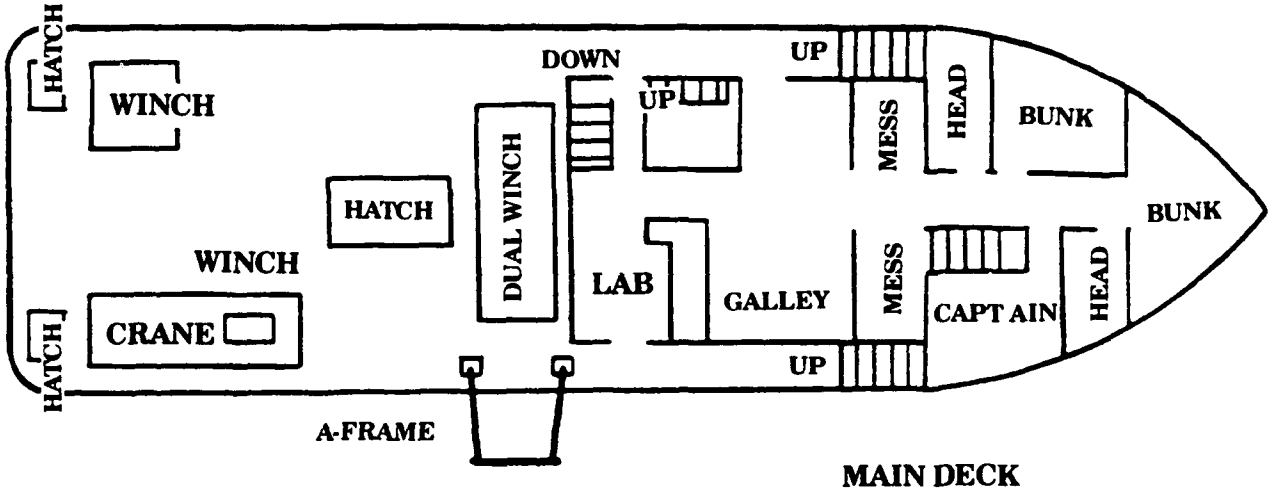


R/V LAURENTIAN

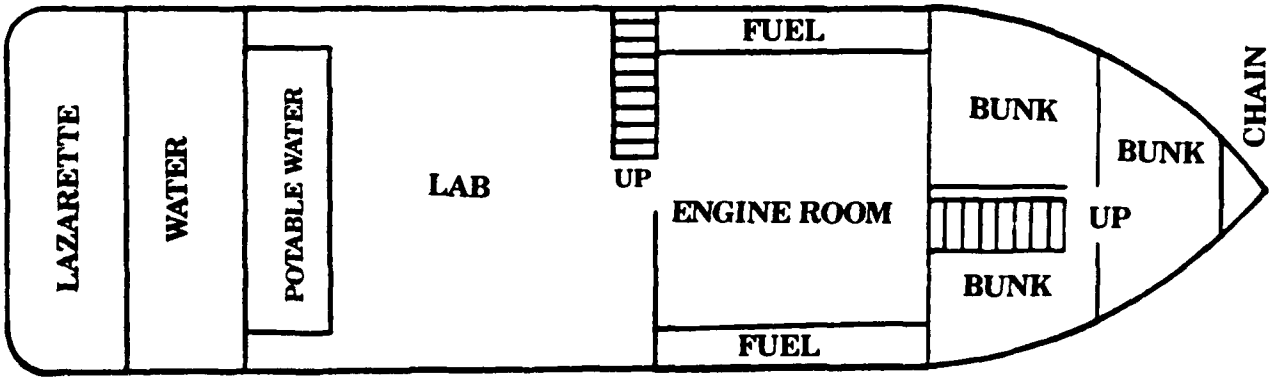
DECK PLANS



UPPER DECK



MAIN DECK



R/V LAURENTIAN

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WEATHERBIRD II

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	MR. HOWARD S. BARNES
POC OFFICE:	OPERATIONS
POC ORGANIZATION:	BERMUDA BIOLOGICAL STATION FOR RESEARCH, INC.
POC ADDRESS:	17 BIOLOGICAL STATION LANE
POC CITY/STATE:	FERRY REACH ST. GEORGE'S GE01 BERMUDA
COMMERCIAL AREA CODE:	809
PHONE:	297-1880
FAX:	297-8143

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	GENERAL PURPOSE-OCEAN RESEARCH VESSEL
CALL SIGN (INTERNATIONAL):	WAH4677
FLEET:	UNOLS
SHIP TYPE:	OCEAN RESEARCH-GENERAL
SHIP OWNER:	BBSR
CERTIFICATION AUTHORITY:	US COAST GUARD
FLAG REGISTRY:	USA
HOME PORT:	ST. GEORGE'S BERMUDA
TECHNICAL SPONSOR:	BBSR
OPERATIONS CONTROL:	BBSR
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	4.8/91 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	8-10
NUMBER OFFICERS:	-
NUMBER IN CREW:	6-8
MAX SEA STATE:	3 BEAUFORT SCALE
ENDURANCE:	14 DAY(S)
LIMITING FACTOR:	STORES
BUILDER:	BOSARGE MARINE
WHERE BUILT:	ALABAMA USA
INITIAL COST:	0.385/82 MILLION $'S IN YEAR
DUE DATE:	-
KEEL DATE:	'82
LAUNCH DATE:	'82
DELIVERY DATE:	'89
COMMISSION DATE:	'89
CONVERSION DATE:	'89
LAST OVERHAUL:	'89
MAINTENANCE CYCLE:	1.5 YEARS
END OF LIFE:	2005
UPDATE OF INFORMATION:	26 OCT 90

SHIP DIMENSIONS

LENGTH:	115.0	FEET
MAX BEAM:	28.0	FEET
HEIGHT:	44.0	FEET
GROSS TONNAGE:	105	
DISPLACEMENT:	250	TONS
DRAUGHT:	8.5	FEET
CRUISE SPEED:	9.5	KNOTS
RANGE:	7500	NAUTICAL MILES
MAX SPEED:	9.5	KNOTS
MIN SPEED:	3.0	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL HYDRAULIC
AUXILIARY PROPULSION:	NO
NUMBER OF SHAFTS:	2
BOW THRUSTER:	N
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	YES DIMENSIONS UNKNOWN
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	N
UTILITY BOATS:	
1. 10 FOOT AVON RIB	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	20000 POUNDS
NUMBER OF FRAMES:	2
CRANES OR BOOMS	
MAX HOIST CAPACITY:	20000 POUNDS
NUMBER OF CRANES:	?
WINCHES:	
01. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	NONE
SLIP-RINGS:	M
WIRE TYPE:	HYDRO CABLE
WIRE LENGTH:	24090 FEET
WIRE DIAMETER:	0.188 INCHES
02. MAJOR TYPE/USE:	MOORING
SECONDARY TYPE/USE:	HOIST
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	13200 FEET
WIRE DIAMETER:	0.500 INCHES

03. MAJOR TYPE/USE:	CTD
SECONDARY TYPE/USE:	NONE
SLIP-RINGS:	Y
WIRE TYPE:	CTD CABLE
WIRE LENGTH:	26400 FEET
WIRE DIAMETER:	0.225 INCHES
04. MAJOR TYPE/USE:	A FRAME HOIST
SECONDARY TYPE/USE:	MOORING
SLIP-RINGS:	N
WIRE TYPE:	7 X 19
WIRE LENGTH:	3300 FEET
WIRE DIAMETER:	0.625 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	HEWLETT PACKARD & IBM PC
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	FURUNO FCR-1411 & FURUNO 1930
LORAN A:	N
LORAN C:	NORTHSTAR 800-X & FURUNO LC90 MKII
OMEGA:	N
SATELLITE NAVIGATION:	RECAL-DECCA 402
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	DATA MARINE
SOUNDING SYSTEM (DEEP):	RAYTHEON DSF 600

FUEL DETAILS

FUEL CAPACITY:	35000 GALLONS
FUEL TYPE:	DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	800 GAL/24-HRS
DURING AVERAGE OPERATIONS:	400 GAL/24-HRS
DURING INPORT OPERATIONS:	100 GAL/24-HRS

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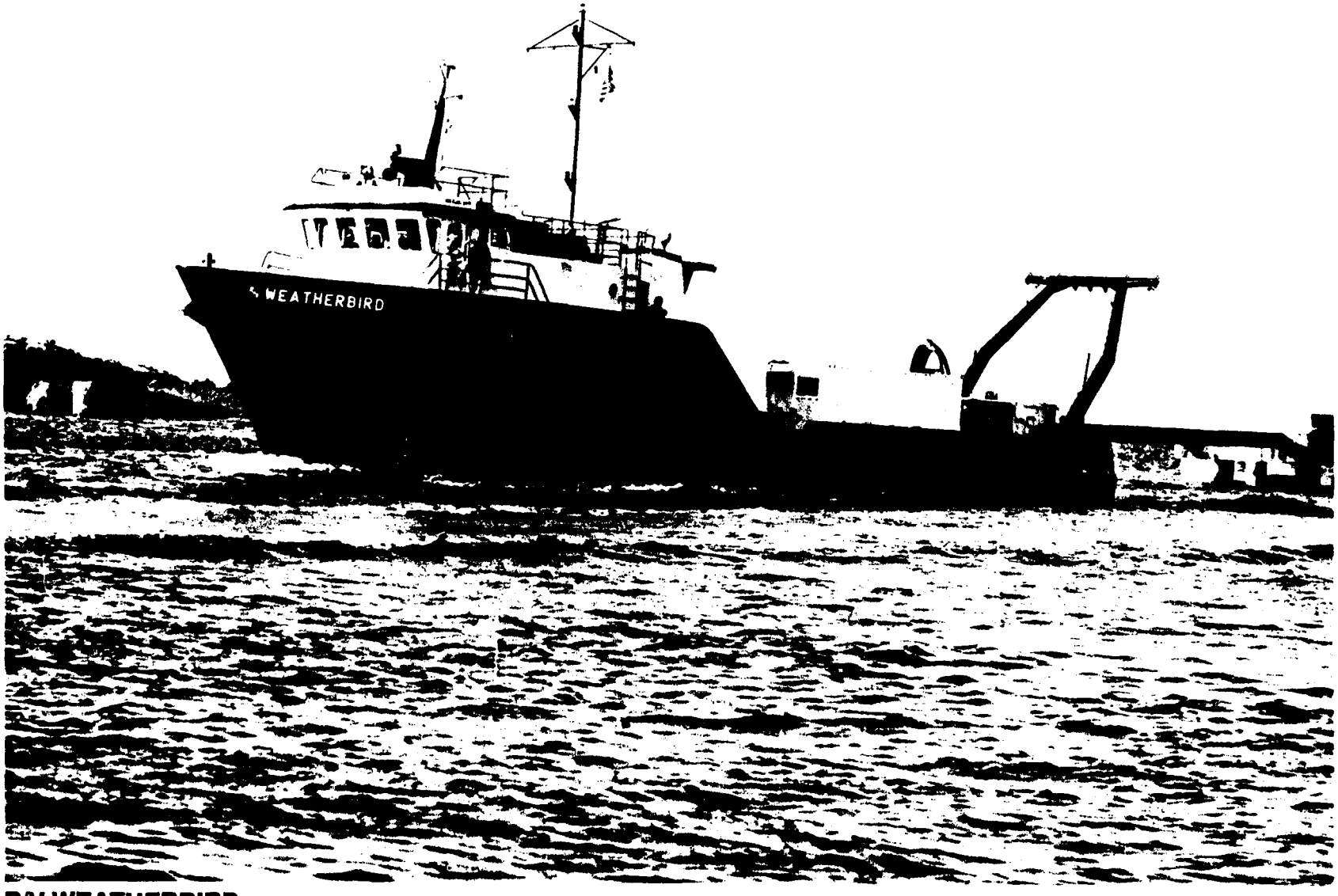
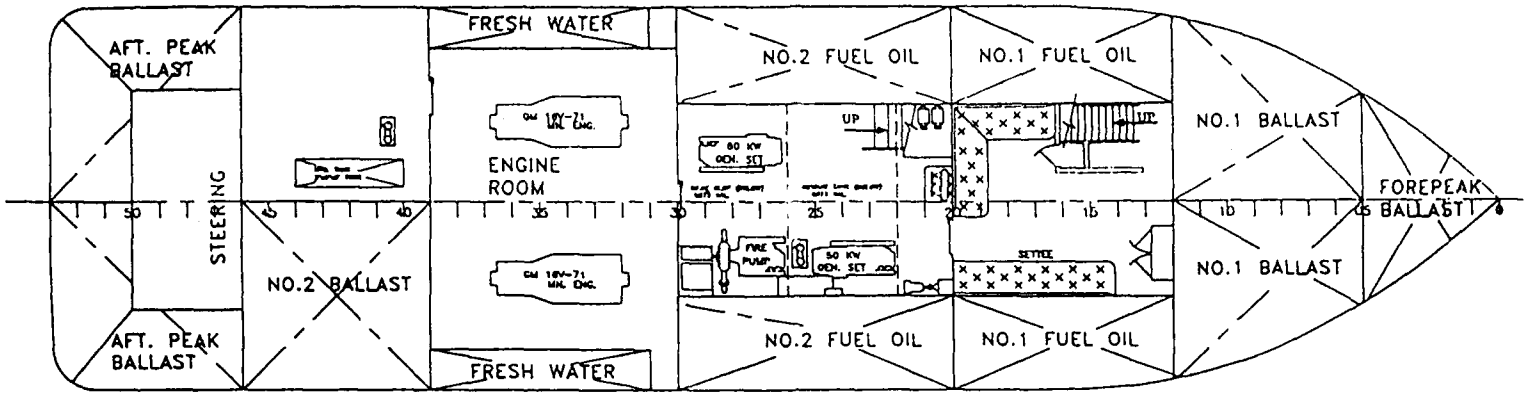
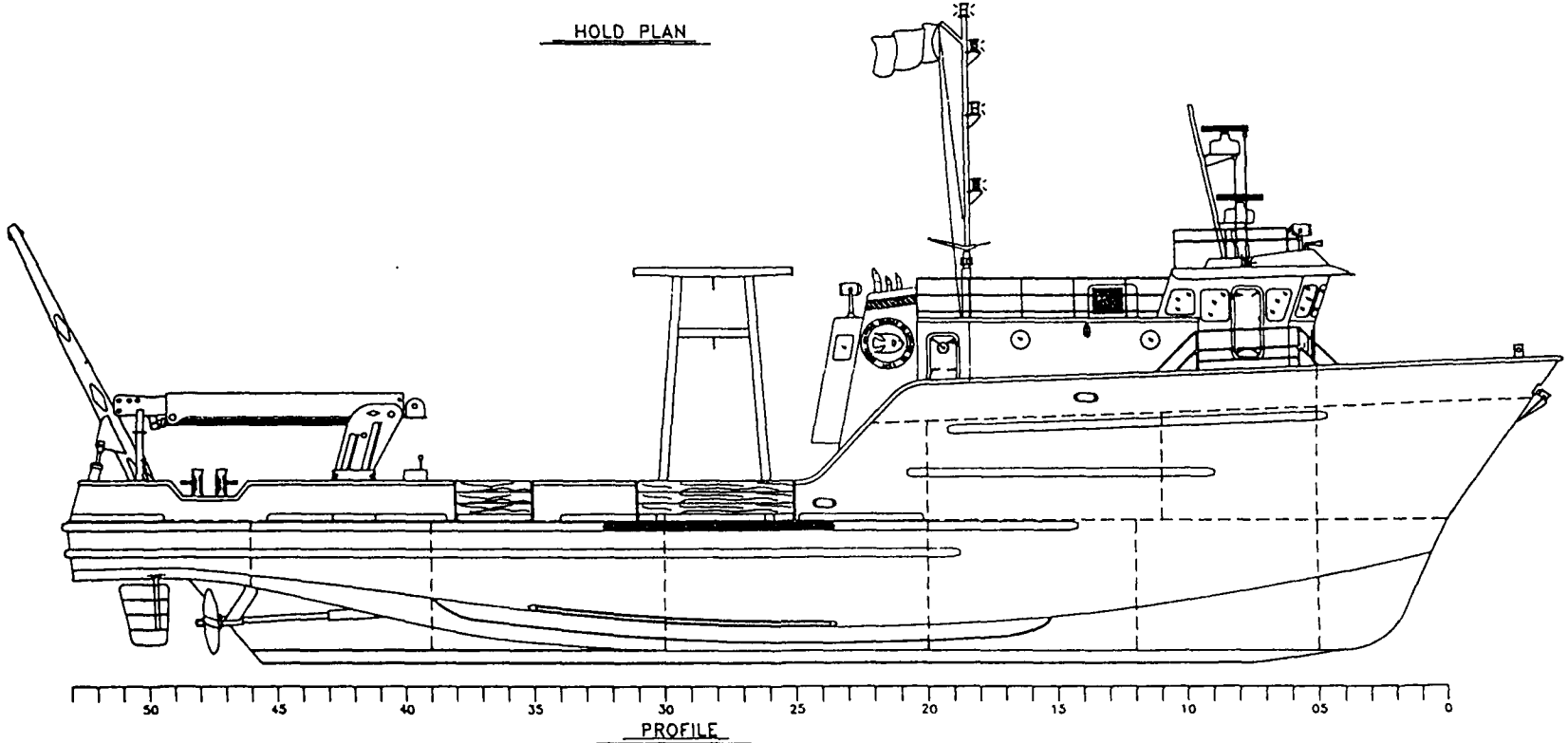


R/V WEATHERBIRD

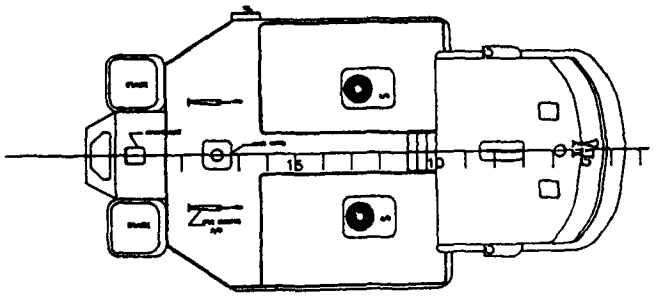


HOLD PLAN

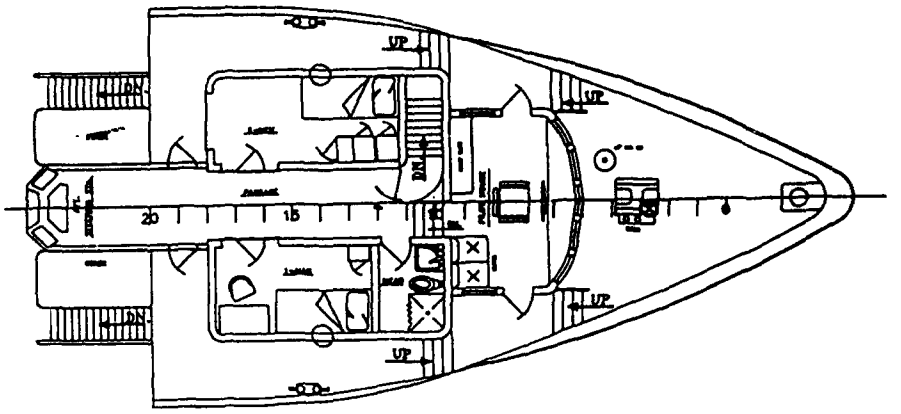


PROFILE

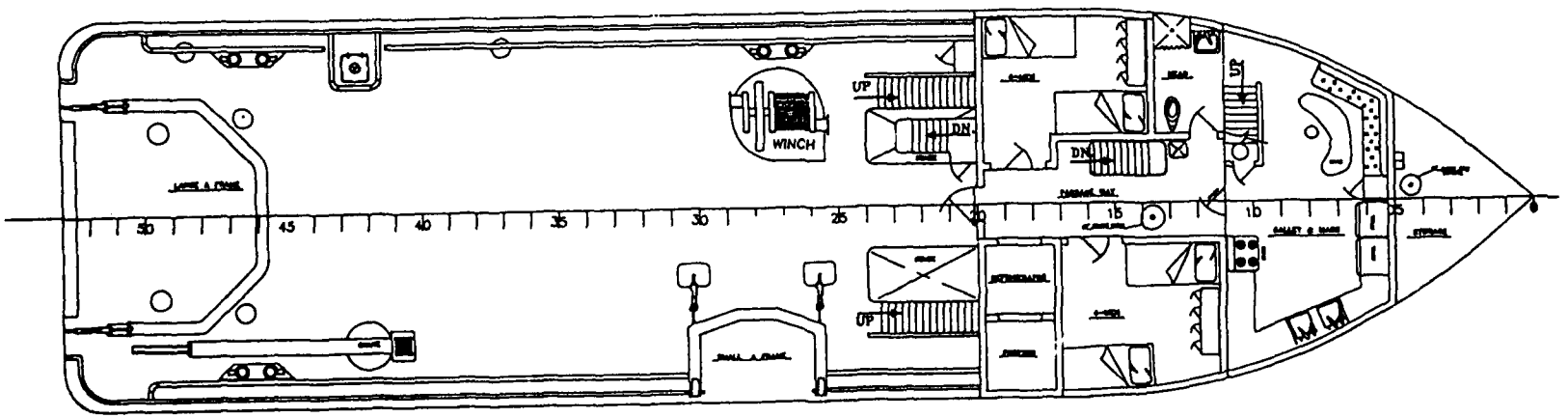
R/V WEATHERBIRD



PILOT HOUSE TOP



FOCSLE DECK



MAIN DECK

R/V WEATHERBIRD

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LINWOOD HOLTON

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	ROBERT N BRAY
POC OFFICE:	SENIOR CAPTAIN
POC ORGANIZATION:	DEPT. OF OCEANOGRAPHY, OLD DOMINION UNIV.
POC ADDRESS:	HAMPTON BLVD.
POC CITY/STATE:	NORFOLK VA 23508
COMMERCIAL AREA CODE:	804
PHONE:	440-4285

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	ARMY 'T' BOAT
CALL SIGN (INTERNATIONAL):	WZN9847
FLEET:	UNIV
SHIP TYPE:	COASTAL-BAY SURVEY-GENERAL
SHIP OWNER:	OLD DOMINION UNIVERSITY
CERTIFICATION AUTHORITY:	N/A
FLAG REGISTRY:	USA
HOME PORT:	NORFOLK VA
TECHNICAL SPONSOR:	DEPT OF OCEANOGRAPHY, OLD DOMINION UNIV.
OPERATIONS CONTROL:	DEPT OF OCEANOGRAPHY, OLD DOMINION UNIV.
CONTRACTUAL INFORMATION:	CALL POC FOR AVAILABILITY.
OPERATING COST/DAY:	1.0/83 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	20
NUMBER OFFICERS:	1
NUMBER IN CREW:	1
MAX SEA STATE:	6 BEAUFORT SCALE
ENDURANCE:	3 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	HIGGINS
WHERE BUILT:	NEW ORLEANS LA USA
INITIAL COST:	-
DUE DATE:	-
KEEL DATE:	-
LAUNCH DATE:	-
DELIVERY DATE:	-
COMMISSION DATE:	'53
CONVERSION DATE:	'70
LAST OVERHAUL:	28 FEB 81
MAINTENANCE CYCLE:	2.0 YEARS
END OF LIFE:	1990
UPDATE OF INFORMATION:	27 APR 90

SHIP DIMENSIONS

LENGTH:	65.0 FEET
MAX BEAM:	18.5 FEET
HEIGHT:	40.0 FEET
GROSS TONNAGE:	-
DISPLACEMENT:	95 TONS
DRAUGHT:	7.0 FEET
CRUISE SPEED:	10.0 KNOTS
RANGE:	850 NAUTICAL MILES
MAX SPEED:	11.5 KNOTS
MIN SPEED:	3.5 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL ELECTRIC
AUXILIARY PROPULSION:	NONE
NUMBER OF SHAFTS:	1
BOW THRUSTER:	N
ACTIVE RUDDER:	Y
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	NONE FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	Y
DRY-LAB:	N
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	SURFACE

UTILITY BOATS:

1. 11 FOOT RUBBER INFLATABLE

A, U, OR L FRAMES

MAX HOIST CAPACITY:	POUNDS
NUMBER OF FRAMES:	0

CRANES OR BOOMS

MAX HOIST CAPACITY:	1500 POUNDS
NUMBER OF CRANES:	3

WINCHES:

01.

MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	UTILITY
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	0300 FEET
WIRE DIAMETER:	0.313 INCHES
SECONDARY WIRE TYPE:	WIRE ROPE
SECONDARY WIRE LEN:	0500 FEET
SECONDARY WIRE DIAM:	0.188 INCHES

02.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	0350 FEET
	WIRE DIAMETER:	0.188 INCHES
03.	MAJOR TYPE/USE:	HYDROGRAPHIC
	SECONDARY TYPE/USE:	UTILITY
	SLIP-RINGS:	
	WIRE TYPE:	WIRE ROPE
	WIRE LENGTH:	0350 FEET
	WIRE DIAMETER:	0.188 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	NONE
FACSIMILE:	N
ELECTROMAGNETIC LOG:	N
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	N
LORAN C:	Y
OMEGA:	N
SATELLITE NAVIGATION:	N
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	N
VHF COMMUNICATIONS:	Y
STABLE TABLE:	N
NARROW BEAM:	Y
SEISMIC PROFILING:	N
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	RAYTHEON
SOUNDING SYSTEM (DEEP):	NONE

FUEL DETAILS

FUEL CAPACITY:	1150 GALLONS
FUEL TYPE:	DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	312 GAL/24-HRS
DURING AVERAGE OPERATIONS:	250 GAL/24-HRS
DURING INPORT OPERATIONS:	0 GAL/24-HRS

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TOMMY MUNRO

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	RICHARD WALLER
POC OFFICE:	SHIP OPERATIONS COMMITTEE
POC ORGANIZATION:	GULF COAST RESEARCH LABORATORY
POC ADDRESS:	P. O. BOX 7000
POC CITY/STATE:	OCEAN SPRINGS, MS 39564
COMMERCIAL AREA CODE:	601
PHONE:	872-4203

ADMINISTRATIVE DETAILS

DESIGNATOR:	R/V
CLASS:	TRAWLER
CALL SIGN (INTERNATIONAL):	WRB2908
FLEET:	UNIV
SHIP TYPE:	GENERAL OCEAN RESEARCH
SHIP OWNER:	STATE OF MISSISSIPPI
CERTIFICATION AUTHORITY:	US COAST GUARD - ABS
FLAG REGISTRY:	USA
HOME PORT:	OCEAN SPRINGS MS
TECHNICAL SPONSOR:	-
OPERATIONS CONTROL:	GULF COAST RESEARCH LABORATORY
CONTRACTUAL INFORMATION:	CALL/WRITE POINT OF CONTACT
OPERATING COST/DAY:	- THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	12
NUMBER OFFICERS:	-
NUMBER IN CREW:	5
MAX SEA STATE:	- BEAUFORT SCALE
ENDURANCE:	20 DAY(S)
LIMITING FACTOR:	FUEL
BUILDER:	-
WHERE BUILT:	-
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'00
LAUNCH DATE:	'00
DELIVERY DATE:	'81
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	-
MAINTENANCE CYCLE:	- YEARS
END OF LIFE:	-
UPDATE OF INFORMATION:	05 NOV 90

SHIP DIMENSIONS

LENGTH:	97.5	FEET
MAX BEAM:	25.0	FEET
HEIGHT:	-	FEET
GROSS TONNAGE:	159	
DISPLACEMENT:	-	TONS
DRAUGHT:	9.0	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	2500	NAUTICAL MILES
MAX SPEED:	-	KNOTS
MIN SPEED:	-	KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL
AUXILIARY PROPULSION:	-
NUMBER OF SHAFTS:	1
BOW THRUSTER:	-
ACTIVE RUDDER:	-
DYNAMIC POSITIONING:	-
ANTI-ROLL:	-
STABILIZER:	-
DEEP ANCHOR:	- FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	NONE
WET-LAB:	-
DRY-LAB:	Y
AMMUNITION STORAGE:	-
HELO SUPPORT:	-
METEOROLOGICAL OBSERVATIONS:	SURFACE
UTILITY BOATS:	
1. -- FOOT ZODIAC	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	- POUNDS
NUMBER OF FRAMES:	2
CRANES OR BOOMS	
MAX HOIST CAPACITY:	4000 POUNDS
NUMBER OF CRANES:	1
WINCHES:	
01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	-
SLIP-RINGS:	-
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	7000 FEET
WIRE DIAMETER:	0.500 INCHES

02. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	HYDROGRAPHIC
SLIP-RINGS:	12
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	13000 FEET
WIRE DIAMETER:	0.250 INCHES
03. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	-
SLIP-RINGS:	-
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	6000 FEET
WIRE DIAMETER:	0.375 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	-
FACSIMILE:	-
ELECTROMAGNETIC LOG:	-
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y
LORAN A:	-
LORAN C:	Y
OMEGA:	-
SATELLITE NAVIGATION:	-
RADIO TELETYPE COMMUNICATION:	Y
SINGLE SIDE BAND:	Y
VHF COMMUNICATIONS:	Y
STABLE TABLE:	-
NARROW BEAM:	-
SEISMIC PROFILING:	-
SIDE SCAN:	-
SOUNDING SYSTEM (SHALLOW):	ATLAS ECHOGRAPH
SOUNDING SYSTEM (DEEP):	DATAMARINE

FUEL DETAILS

FUEL CAPACITY:	10850 GALLONS
FUEL TYPE:	MARINE DIESEL
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	1200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	- GAL/24-HRS
DURING INPORT OPERATIONS:	- GAL/24-HRS

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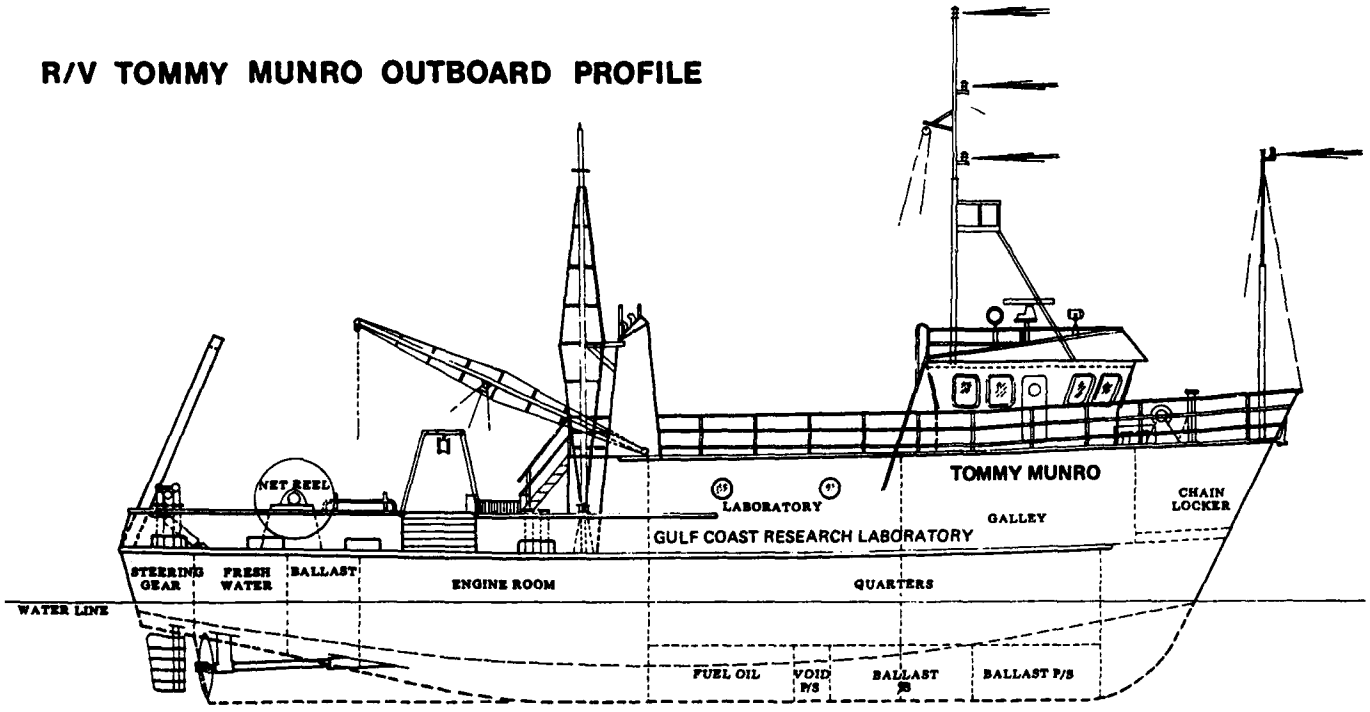
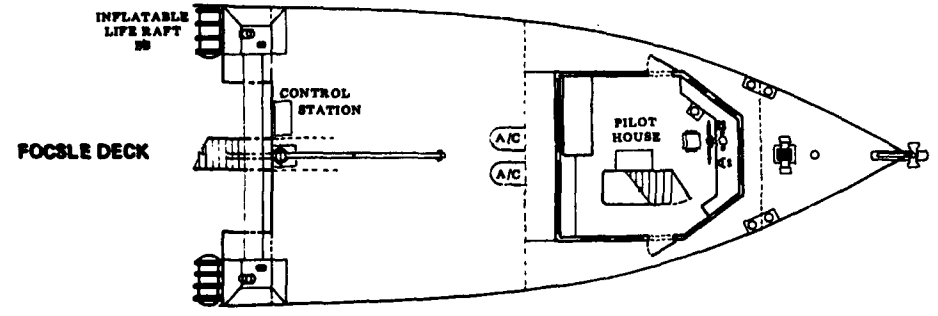
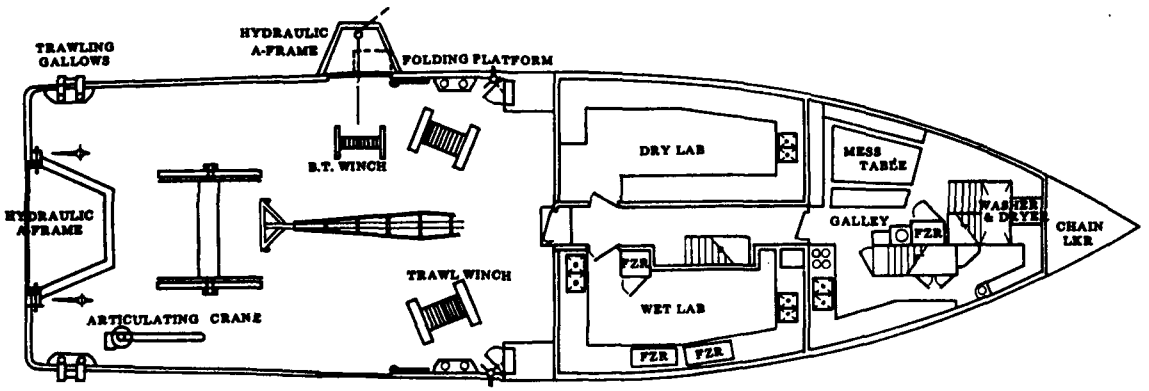
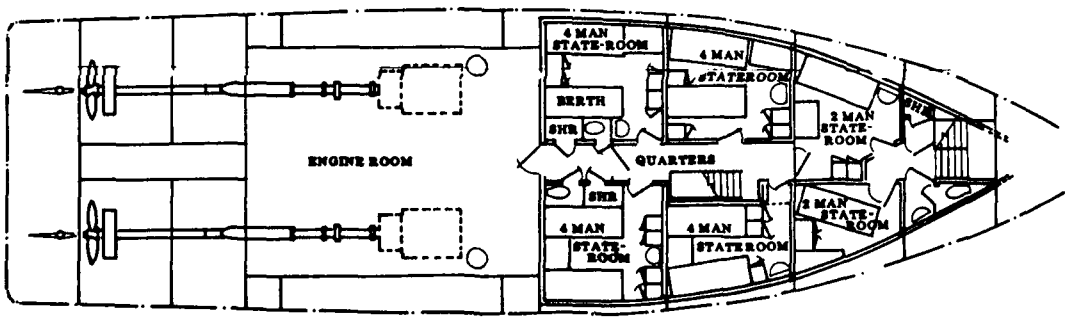
R/V TOMMY MUNRO OUTBOARD PROFILE







MAIN DECK



LOWER DECK

R/V TOMMY MUNRO OUTBOARD PROFILE

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ARGO MAINE

POINT OF CONTACT INFORMATION (CHARACTERISTICS)

POC:	PHILIP HARMON
POC OFFICE:	MARINE SUPERINTENDENT
POC ORGANIZATION:	MAINE MARITIME ACADEMY - WATERFRONT
POC ADDRESS:	P O BOX C-3
POC CITY/STATE:	CASTINE ME 04420
COMMERCIAL AREA CODE:	207
PHONE:	326-4311 EXT. 400

ADMINISTRATIVE DETAILS

DESIGNATOR:	RV
CLASS:	PURSE SEINER
CALL SIGN (INTERNATIONAL):	WTF7434
FLEET:	CIVIL
SHIP TYPE:	OCEANOGRAPHIC MOTOR VESSEL
SHIP OWNER:	MAINE MARITIME ACADEMY
CERTIFICATION AUTHORITY:	-
FLAG REGISTRY:	USA
HOME PORT:	CASTINE ME USE
TECHNICAL SPONSOR:	MAINE MARITIME ACADEMY
OPERATIONS CONTROL:	MAINE MARITIME ACADEMY
CONTRACTUAL INFORMATION:	NONE
OPERATING COST/DAY:	2.2/91 THOUSAND $'S IN YR
SCIENTIFIC COMPLEMENT:	8-10
NUMBER OFFICERS:	4
NUMBER IN CREW:	1
MAX SEA STATE:	5 BEAUFORT SCALE
ENDURANCE:	20 DAY(S)
LIMITING FACTOR:	STORES
BUILDER:	ALBINA ENGINE AND MACHINE WORKS
WHERE BUILT:	PORTLAND OR USA
INITIAL COST:	-
DUE DATE:	'00
KEEL DATE:	'68
LAUNCH DATE:	'68
DELIVERY DATE:	'68
COMMISSION DATE:	'00
CONVERSION DATE:	'00
LAST OVERHAUL:	01 JAN 84
MAINTENANCE CYCLE:	1.0 YEARS
END OF LIFE:	-
UPDATE OF INFORMATION:	07 DEC 90

SHIP DIMENSIONS

LENGTH:	80.0 FEET
MAX BEAM:	24.0 FEET
HEIGHT:	50.0 FEET
GROSS TONNAGE:	165
DISPLACEMENT:	173 TONS
DRAUGHT:	11.0 FEET
CRUISE SPEED:	9.0 KNOTS
RANGE:	4500 NAUTICAL MILES
MAX SPEED:	10.0 KNOTS
MIN SPEED:	0.5 KNOTS

ENGINEERING/DECK EQUIPMENT

MAIN PROPULSION:	DIESEL GEARED
AUXILIARY PROPULSION:	BOW THRUSTER
NUMBER OF SHAFTS:	1
BOW THRUSTER:	360 DEG. RETRACTABLE
ACTIVE RUDDER:	N
DYNAMIC POSITIONING:	N
ANTI-ROLL:	N
STABILIZER:	N
DEEP ANCHOR:	2500 FEET
BERTHING VAN DIMENSIONS:	NONE
INSTRUMENT VAN DIMENSIONS:	8X10X12
WET-LAB:	Y
DRY-LAB:	Y
AMMUNITION STORAGE:	N
HELO SUPPORT:	N
METEOROLOGICAL OBSERVATIONS:	-
UTILITY BOATS:	
1. VARIOUS AVAILABLE	
A, U, OR L FRAMES	
MAX HOIST CAPACITY:	2000 POUNDS
NUMBER OF FRAMES:	2
CRANES OR BOOMS	
MAX HOIST CAPACITY:	13230 POUNDS
NUMBER OF CRANES:	1
WINCHES:	
01. MAJOR TYPE/USE:	TRAWL
SECONDARY TYPE/USE:	
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	19800 FEET
WIRE DIAMETER:	0.375 INCHES

02. MAJOR TYPE/USE:	HYDROGRAPHIC
SECONDARY TYPE/USE:	STD
SLIP-RINGS:	4
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	6500 FEET
WIRE DIAMETER:	0.219 INCHES
SECONDARY WIRE TYPE:	WIRE ROPE
SECONDARY WIRE LEN:	9900 FEET
SECONDARY WIRE DIAM:	0.187 INCHES
03. MAJOR TYPE/USE:	SONAR
SECONDARY TYPE/USE:	-
SLIP-RINGS:	8
WIRE TYPE:	CONDUCTOR CABLE
WIRE LENGTH:	1500 FEET
WIRE DIAMETER:	0.375 INCHES
04. MAJOR TYPE/USE:	TRAWL (2)
SECONDARY TYPE/USE:	GENERAL PURPOSE
SLIP-RINGS:	N
WIRE TYPE:	WIRE ROPE
WIRE LENGTH:	2000 FEET
WIRE DIAMETER:	0.375 INCHES

ELECTRONIC EQUIPMENT

COMPUTERS:	YES (2)
FACSIMILE:	Y
ELECTROMAGNETIC LOG:	Y
INERTIAL NAVIGATION:	N
RADAR (SURFACE SCAN):	Y (2)
LORAN A:	N
LORAN C:	Y (2)
OMEGA:	N
SATELLITE NAVIGATION:	Y
RADIO TELETYPE COMMUNICATION:	N
SINGLE SIDE BAND:	Y (2)
VHF COMMUNICATIONS:	Y (2)
STABLE TABLE:	N
NARROW BEAM:	N
SEISMIC PROFILING:	Y
SIDE SCAN:	N
SOUNDING SYSTEM (SHALLOW):	JRC JFV-117 15 & 200 KZ (COLOR) SIMRAD EC-810 38, 50 ,200 KZ
SOUNDING SYSTEM (DEEP):	RAYTHEON; EDO WESTERN

FUEL DETAILS

FUEL CAPACITY:	10500 GALLONS
FUEL TYPE:	DIESEL #2
FUEL CONSUMPTION RATES:	
AT NORMAL CRUISING SPEED:	200 GAL/24-HRS
DURING AVERAGE OPERATIONS:	150 GAL/24-HRS
DURING INPORT OPERATIONS:	30 GAL/24-HRS

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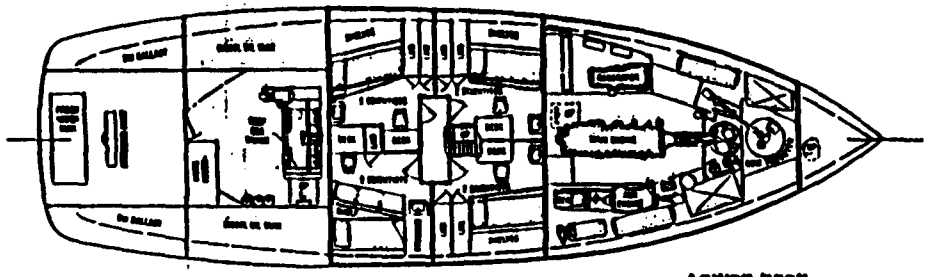
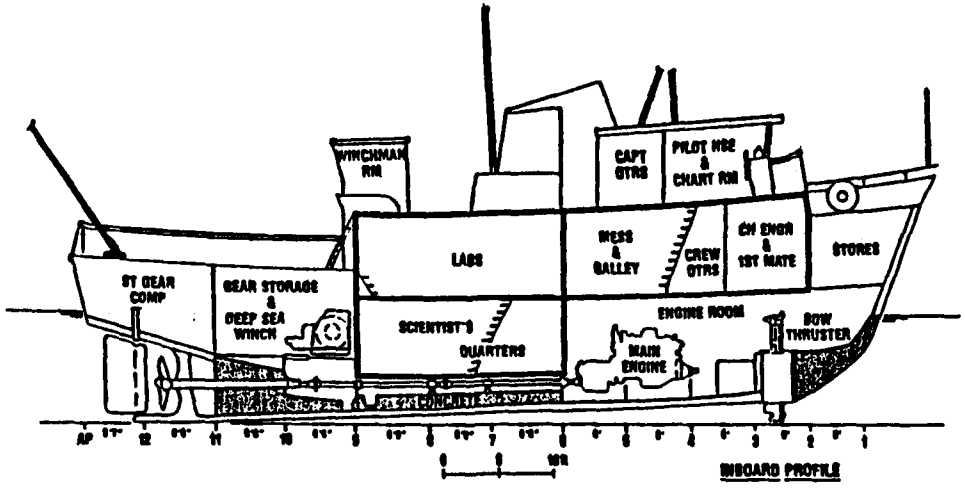
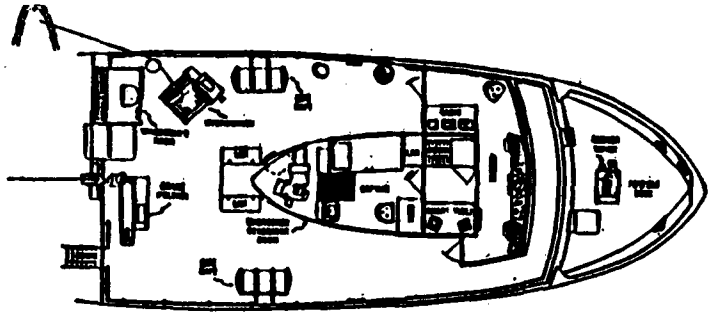


LOWER DECK

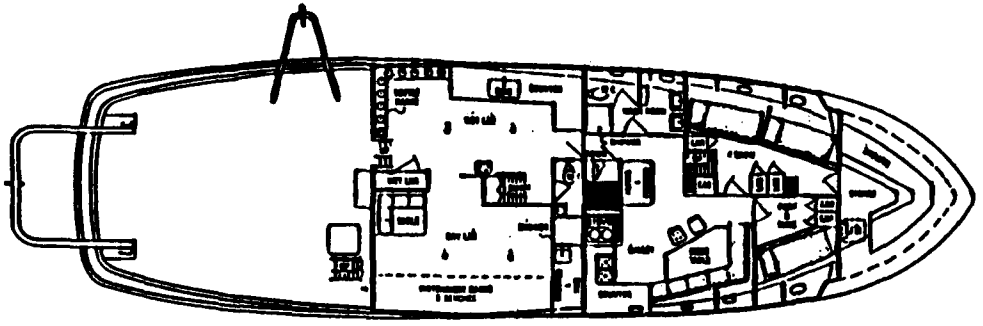


INBOARD PROFILE

R/V ARGO MAINE OUTBOARD PROFILE



UPPER DECK



MAIN DECK

R/V ARGO MAINE OUTBOARD PROFILE

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	CORWITH CRAMER
NAME:	MR. WALLACE C. STARK
OFFICE:	MARINE SUPERINTENDENT
ORGANIZATION:	SEA EDUCATION ASSOCIATION
ADDRESS:	P.O. BOX 6 (171 WOODS HOLE ROAD)
CITY-STATE:	WOODS HOLE MA 02543
COMMERCIAL AREA CODE:	508
PHONE:	540-3954

SHIP DIMENSIONS

LENGTH:	135.0	FEET
MAX BEAM:	26.0	FEET
DISPLACEMENT:	-	TONS
DRAUGHT:	13.0	FEET
CRUISE SPEED:	-	KNOTS
RANGE:	-	NAUTICAL MILES

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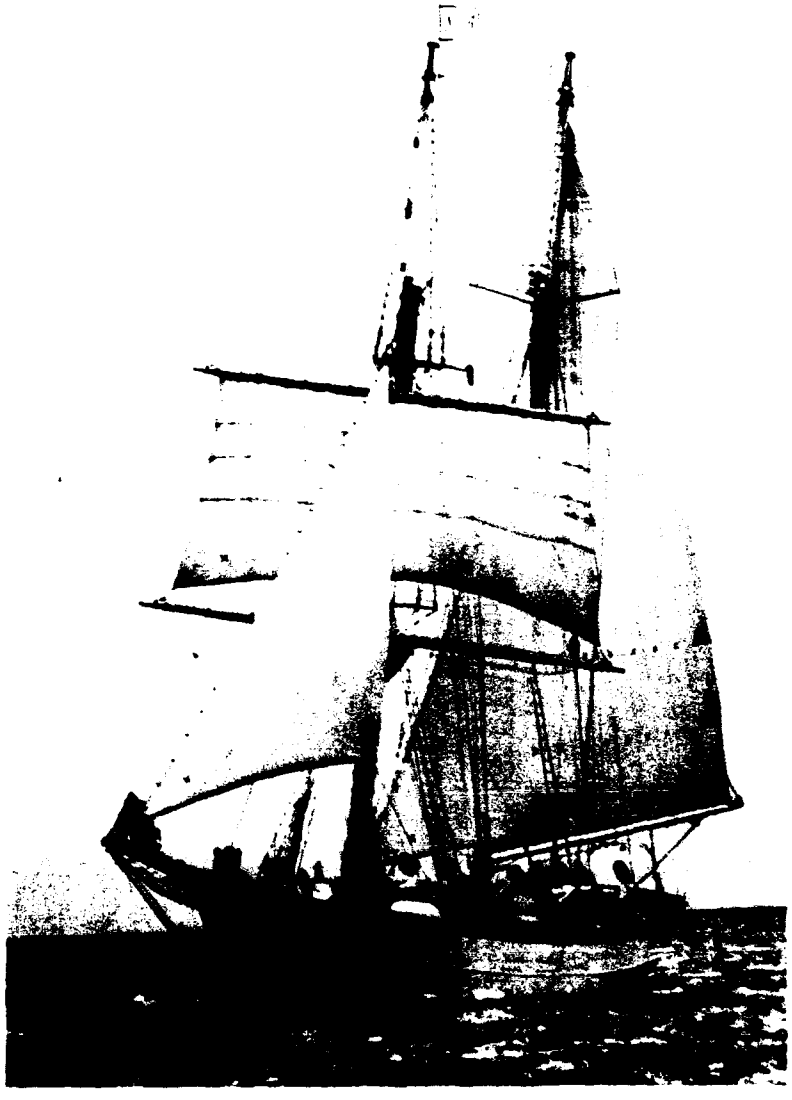

R/V CORWITH CRAMER

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	WESTWARD
NAME:	WALLACE C STARK
OFFICE:	MARINE SUPERINTENDENT
ORGANIZATION:	SEA EDUCATION ASSOCIATION
ADDRESS:	P.O. BOX 6 (171 WOODS HOLE ROAD)
CITY-STATE:	WOODS HOLE MA 02543
COMMERCIAL AREA CODE:	508
PHONE:	540-3954

SHIP DIMENSIONS

LENGTH:	125.0	FEET
MAX BEAM:	21.5	FEET
DISPLACEMENT:	250	TONS
DRAUGHT:	12.5	FEET
CRUISE SPEED:	7.0	KNOTS
RANGE:	-	NAUTICAL MILES

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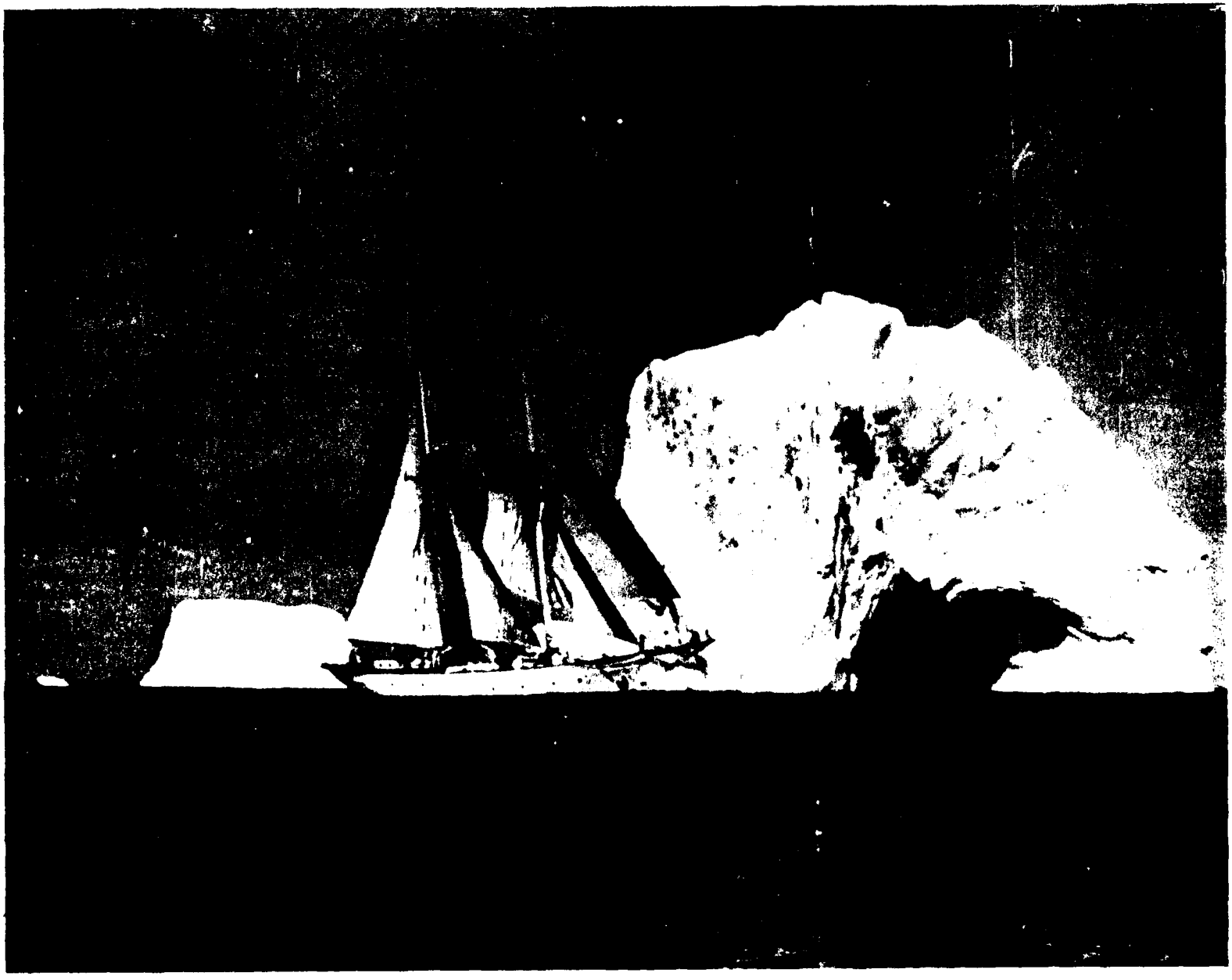
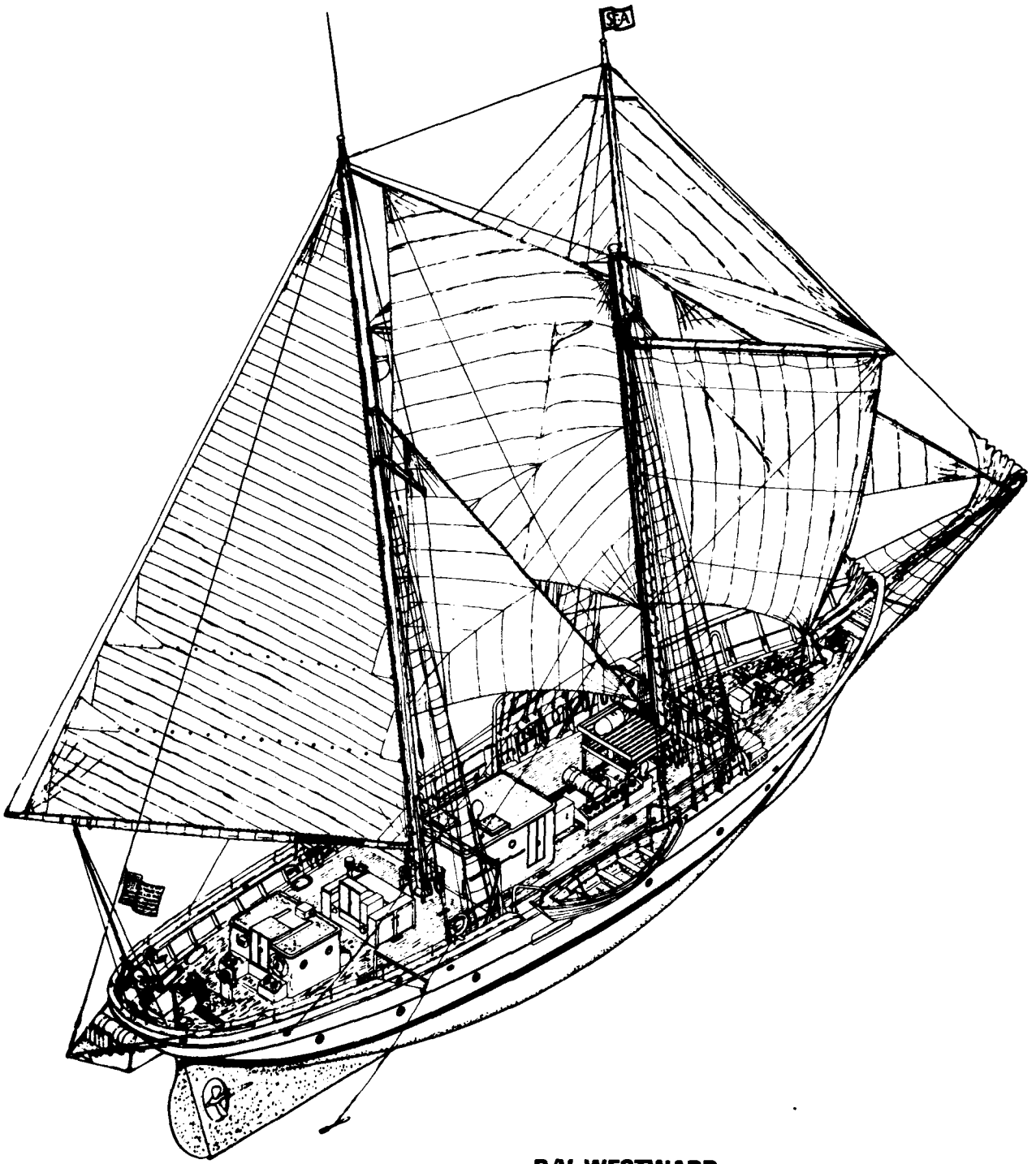
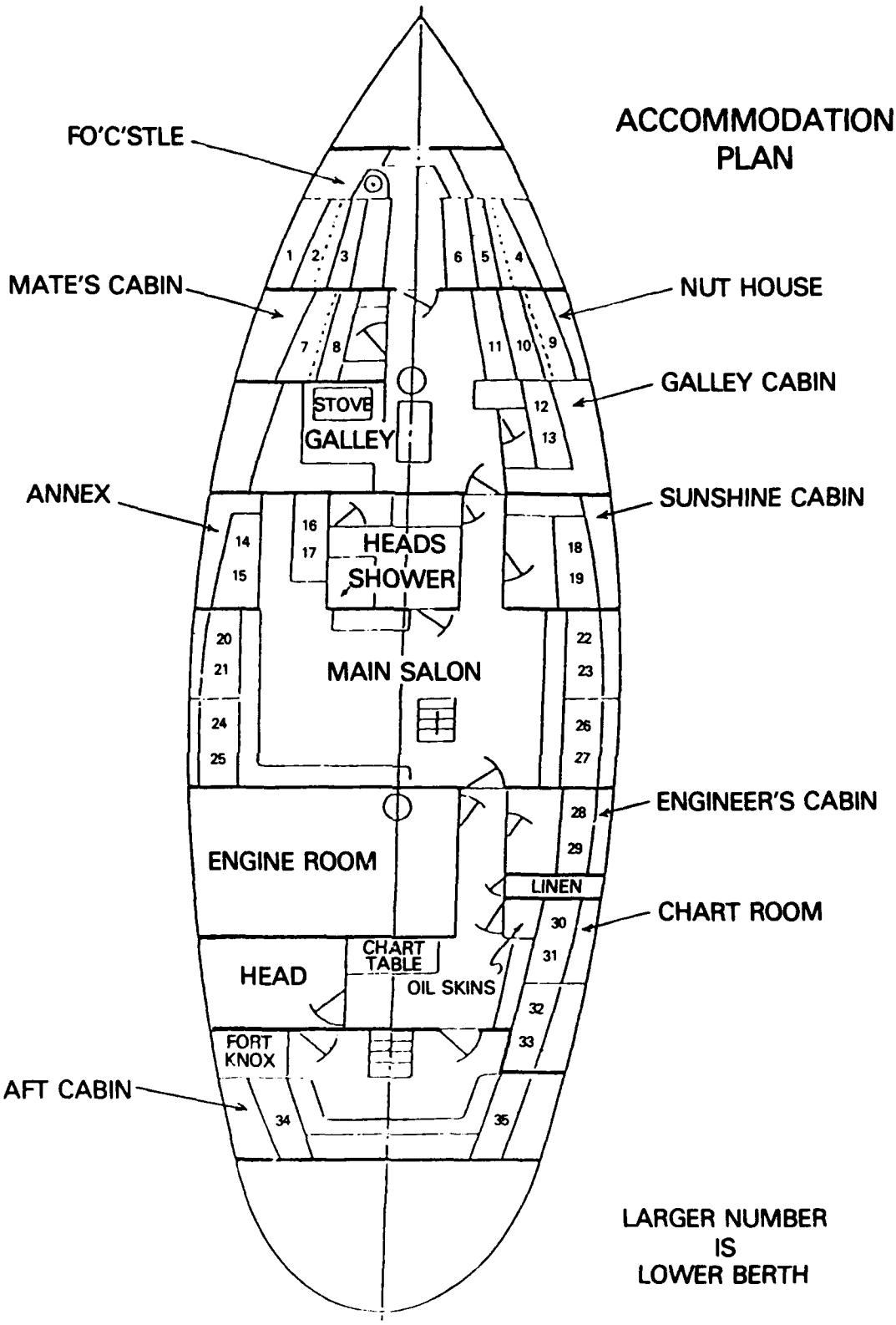


R/V WESTWARD



R/V WESTWARD


ACCOMMODATION PLAN
FO'C'STLE
MATE'S CABIN
NUT HOUSE
GALLEY CABIN
ANNEX
SUNSHINE CABIN
ENGINEER'S CABIN
CHART ROOM
AFT CABIN
STOVE
GALLEY
HEADS
SHOWER
MAIN SALON
ENGINE ROOM
LINEN
CHART TABLE
OIL SKINS
HEAD
FORT KNOX
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LARGER NUMBER IS LOWER BERTH
R/V WESTWARD

OTHER UNIVERSITY OR INSTITUTIONAL VESSELS

(OVER 50 FT. LOA)

The following is a listing of other university research vessels registered with the University - National Oceanographic Laboratory System (UNOLS) Office and for which schedules have not been received or are not routinely prepared in advance. These vessels take regular cruises in local waters and, unless otherwise indicated, the nature of the work is general oceanography, coastal research and student training.

Most of these vessels are able to accommodate cooperative projects within the capability of the vessel either on a not-to-interfere or on a reimburseble basis. Further information should be obtained from the listed contact. Corrections and additions should be submitted to the UNOLS Office.

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Southern Maine Vocational Technical Institute Department of Marine Science and Technology Fort Road South Portland, ME 04106	AQUALAB III	146	New England Coast	Brian Hathaway (207)799-7303
Massachusetts Institute of Technology Sea Grant College Program 292 Main Street Bldg. E-28, Rm. 366 Cambridge, MA 02142	EDGERTON	65	New England Coast	Arthur Clifton (617)253-7136
Southern Massachusetts University North Dartmouth, MA 02747	CORSAIR	65	Cape Cod Waters	Jefferson Turner (617)999-8229
University of Connecticut Marine Science Institute SE Branch, Avery Point Groton, CN 06340	UCONN	65	Southern New England Coast Long Island Sound	Sung Feng (203)446-1020 Ext: 211

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Cape Fear Technical Institute 411 North Front Street Wilmington, NC 28401	NORTH STAR	73	Atlantic Coast	Arthur W. Jordan (919)343-0481 Ext: 244
	DAN MOORE	85	Atlantic Coast	CAPT S. J. Beuth (919)343-0481
Florida Institute of Technology Melbourne, FL 32901	TURSIOPS DELPHINUS	65 63	Savannah Bight Florida, Bahamas	Jack Morton (305)768-8096 Ext: 302
Nova University Ocean Sciences Center 8000 North Ocean Drive Dania, FL 33004	ENDLESS SEAS	67	Florida Coast Waters	Jan Witte (305)475-8330 Ext: 288
Florida Institute for Oceanography 830 First Street, S. St. Petersburg, FL 33701	BELLOWS SUNCOASTER	65 110	Florida Coast Gulf of Mexico Caribbean	William W. Behrens (813)893-9100
Marine Environmental Sciences Consortium Dauphin Island Sea Laboratory P.O. Box 386 Dauphin Island, AL 36528	G.A. ROUNSEFELL	65	Gulf of Mexico	Fred Rees (205)861-2141
University of Puerto Rico Department of Marine Sciences Mayaguez, Puerto Rico 00708	ISLA MAGUEYES	71	South Coast of Puerto Rico & Mona Passage	Mark Reigle (809)832-3432
Gulf Coast Research Laboratory P.O. Box Drawer AG Ocean Springs, MS 39565	GULF RESEARCHER	65	Gulf of Mexico	Harold D. Howse (601)875-2244
Marine Sciences Research Center State University of New York Stony Brook, NY 11794-5000	ONRUST	60	New York Bight Long Island Sound Hudson River	William M. Wise (516)632-8656

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Hobart & William Smith Colleges Geneva, NY 14456	HOBART & WILLIAM SMITH EXPLORER	65	Finger Lakes Great Lakes	Richard Wilkens (315)789-5500 Ext: 213
State University College at Buffalo 1300 Elmwood Avenue Buffalo, NY 14222	C.A. DAMBACH	65	Great Lakes	Robert A. Sweeney (716)878-5422
University of Wisconsin-Milwaukee Center for Great Lakes Studies Milwaukee, WI 53201	NEESKAY	65	Great Lakes	Donald F. Mraz (414)224-3007
University of Maryland Chesapeake Biol. Lab Solomons, MD 20688	AQUARIUS ORION	65 62	Chesapeake Bay	Elgin A. Dunnington (301)326-4281
Virginia Institute of Marine Science Gloucester Point, VA 23062	RETRIEVER	115	Mid-Atlantic Coast Chesapeake Bay	John M. Zeigler (804)642-2111
The Marine Science Consortium Inc. P.O. Box 16 Wallops Island, VA 23337	DELAWARE BAY	50	NJ to VA coast to 50 miles offshore	Robert W. Hinds (804)824-5636
Occidental College Department of Biology 1600 Campus Road Los Angeles, CA 90041	VANTUNA	85	California Coast	John S. Stephens (213)259-2675
NOAA National Undersea Research Program University of North Carolina at Wilmington 601 South College Wilmington, NC 28403	SEAHAWK	80	Atlantic Coast New Enland to Georgia	Frank L. Chapman (919)762-7615

INSTITUTION	SHIP NAME	LOA (FT)	AREA OF OPERATION	CONTACT
Harbor Branch Oceanographic Inst. 5600 Old Dixie Highway Fort Pierce, FL 34946	SEA DIVER	98	Florida Coast	Tim Askew (407)465-2400

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	USNS BARTLETT
NAME:	MR. GEORGE MADDEN
OFFICE:	OCEANOGRAPHIC SHIP OPS, CODE FOO
ORGANIZATION:	U.S. NAVAL OCEANOGRAPHIC OFFICE
ADDRESS:	STENNIS SPACE CENTER
CITY-STATE:	MISSISSIPPI 39522-5001
COMMERCIAL AREA CODE:	601
PHONE:	688-5293

SHIP DIMENSIONS

LENGTH:	210.3 FEET
MAX BEAM:	39.5 FEET
DISPLACEMENT:	1325 TONS
DRAUGHT:	18.0 FEET
CRUISE SPEED:	9.0 KNOTS
RANGE:	9000 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	USNS DE STEIGUER
NAME:	MR. GEORGE MADDEN
OFFICE:	OCEANOGRAPHIC SHIP OPS, CODE FOO
ORGANIZATION:	U.S. NAVAL OCEANOGRAPHIC OFFICE
ADDRESS:	STENNIS SPACE CENTER
CITY-STATE:	MISSISSIPPI 39522-5001
COMMERCIAL AREA CODE:	601
PHONE:	688-5293

SHIP DIMENSIONS

LENGTH:	210.3 FEET
MAX BEAM:	39.5 FEET
DISPLACEMENT:	1325 TONS
DRAUGHT:	18.0 FEET
CRUISE SPEED:	9.0 KNOTS
RANGE:	9000 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	ERLINE
NAME:	COMMANDER
OFFICE:	
ORGANIZATION:	NAVAL UNDERWATER SYSTEMS CENTER
ADDRESS:	
CITY-STATE:	NEWPORT, RI 02841-5047
COMMERCIAL AREA CODE:	401
PHONE:	841-2311

SHIP DIMENSIONS

LENGTH:	105.0	FEET
MAX BEAM:	20.7	FEET
DISPLACEMENT:	96	TONS
DRAUGHT:	5.9	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	1200	NAUTICAL MILES

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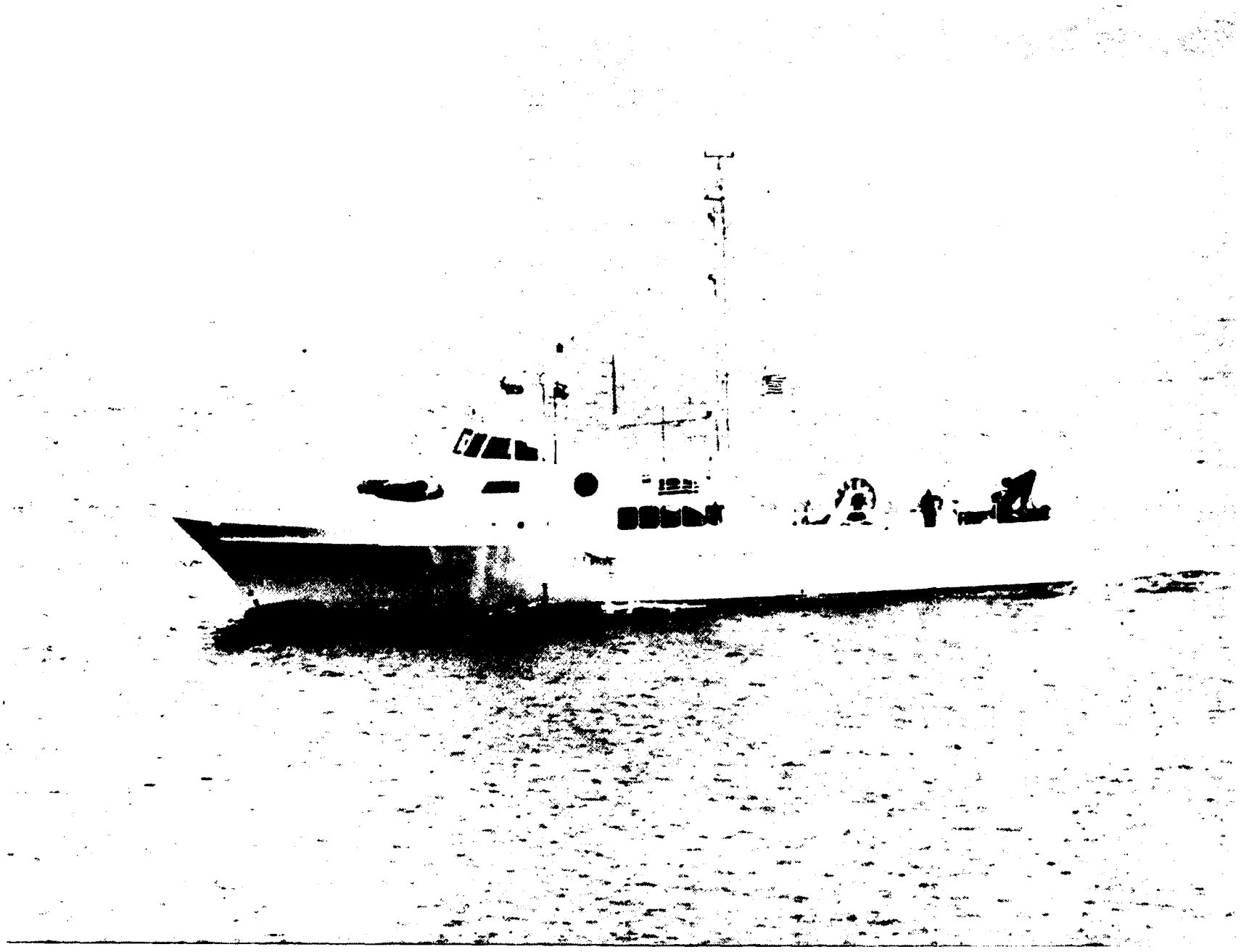
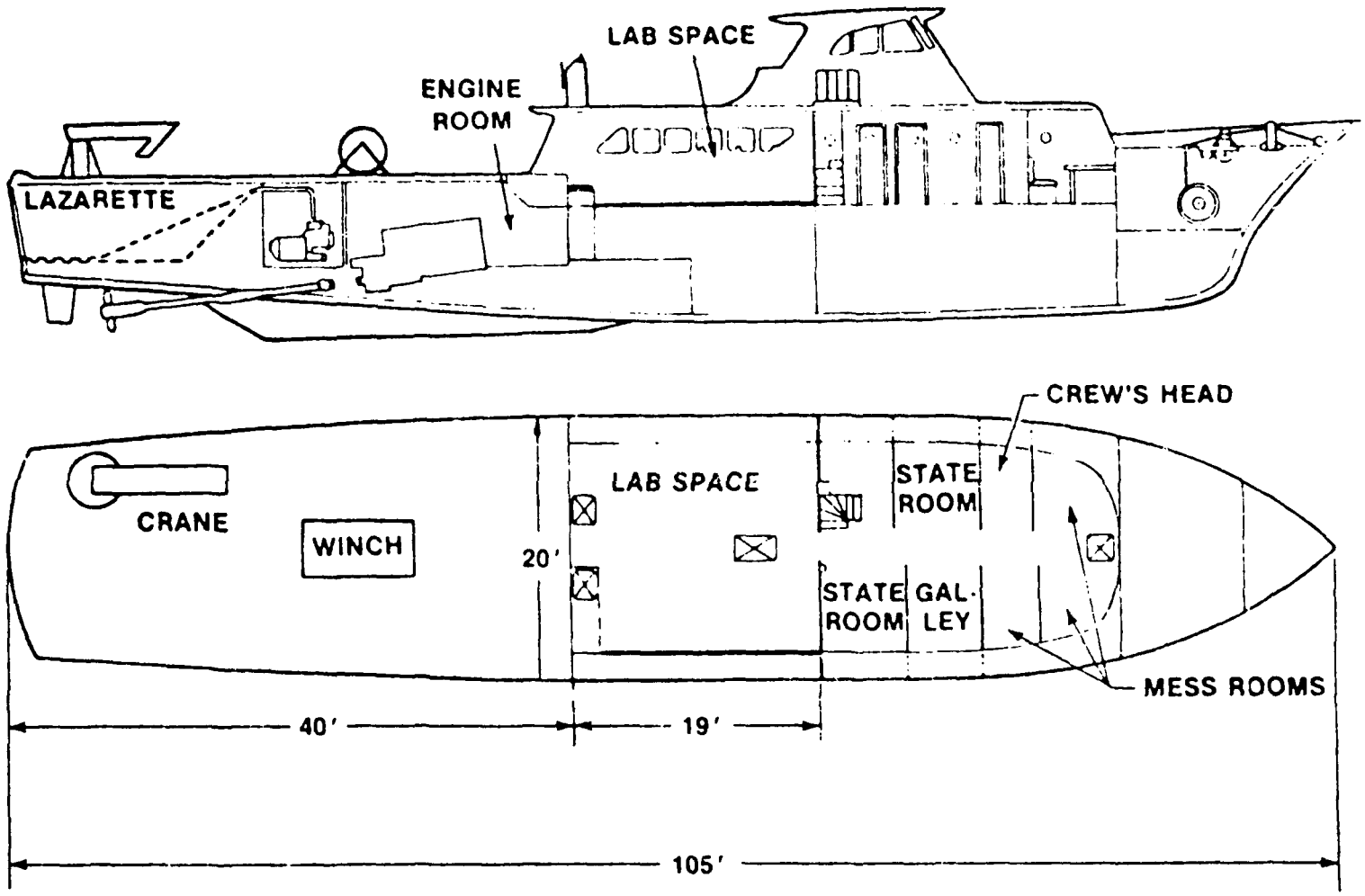


R/V ERLINE


LAB SPACE
ENGINE ROOM
LAZARETTE
CREW'S HEAD
CRANE
WINCH
LAB SPACE
STATE ROOM
20'
STATE ROOM
GAL-LEY
MESS ROOMS
40'
19'
105'

R/V ERLINE

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	USCGC POLAR SEA
NAME:	LCDR WAYNE ROBERTS
OFFICE:	COMMANDANT (G-NIO)
ORGANIZATION:	U.S. COAST GUARD
ADDRESS:	2100 SECOND STREET, SW
CITY-STATE:	WASHINGTON DC 20593-0001
COMMERCIAL AREA CODE:	202
PHONE:	267-1460

SHIP DIMENSIONS

LENGTH:	399.0 FEET
MAX BEAM:	83.5 FEET
DISPLACEMENT:	10863 TONS
DRAUGHT:	28.0 FEET
CRUISE SPEED:	13.0 KNOTS
RANGE:	28275 NAUTICAL MILES

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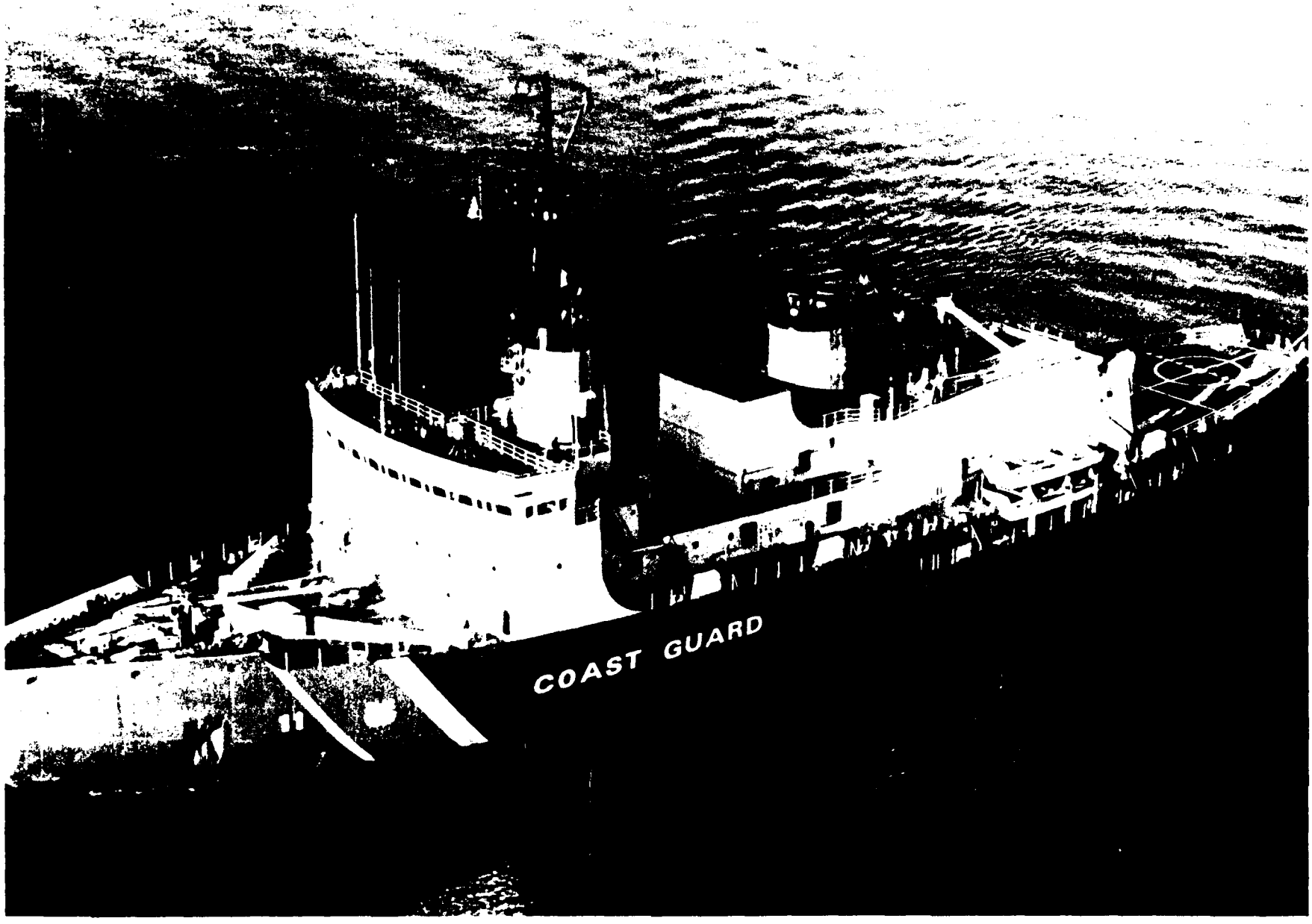

USCGC POLAR SEA

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	USCGC POLAR STAR
NAME:	LCDR WAYNE ROBERTS
OFFICE:	COMMANDANT (G-NIO)
ORGANIZATION:	U.S. COAST GUARD
ADDRESS:	2100 SECOND STREET, SW
CITY-STATE:	WASHINGTON DC 20593-0001
COMMERCIAL AREA CODE:	202
PHONE:	267-1460

SHIP DIMENSIONS

LENGTH:	399.0	FEET
MAX BEAM:	83.5	FEET
DISPLACEMENT:	10863	TONS
DRAUGHT:	28.0	FEET
CRUISE SPEED:	13.0	KNOTS
RANGE:	28275	NAUTICAL MILES

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USCGC POLAR STAR

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	POLAR DUKE
NAME:	ALEXANDER L. SUTHERLAND
OFFICE:	DIVISION OF POLAR PROGRAMS
ORGANIZATION:	NATIONAL SCIENCE FOUNDATION
ADDRESS:	1800 G ST. NW
CITY-STATE:	WASHINGTON DC 20550
COMMERCIAL AREA CODE:	202
PHONE:	357-7808

SHIP DIMENSIONS

LENGTH:	219.0	FEET
MAX BEAM:	43.0	FEET
DISPLACEMENT:	1645	TONS
DRAUGHT:	19.0	FEET
CRUISE SPEED:	12.0	KNOTS
RANGE:	29952	NAUTICAL MILES

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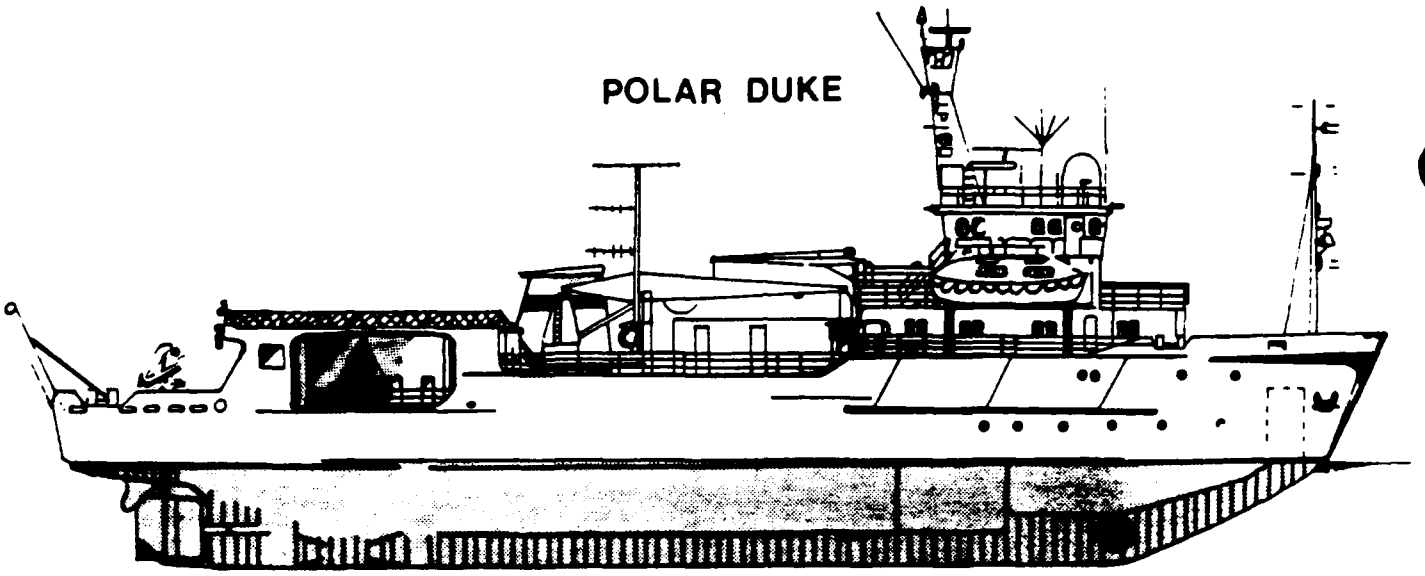
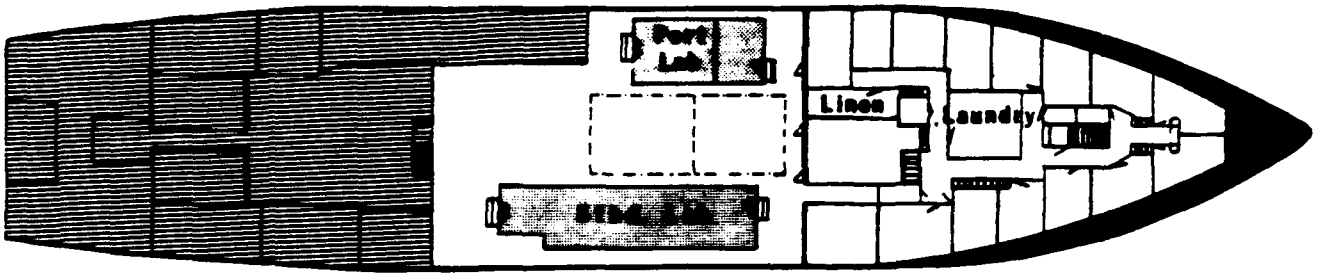
POLAR DUKE

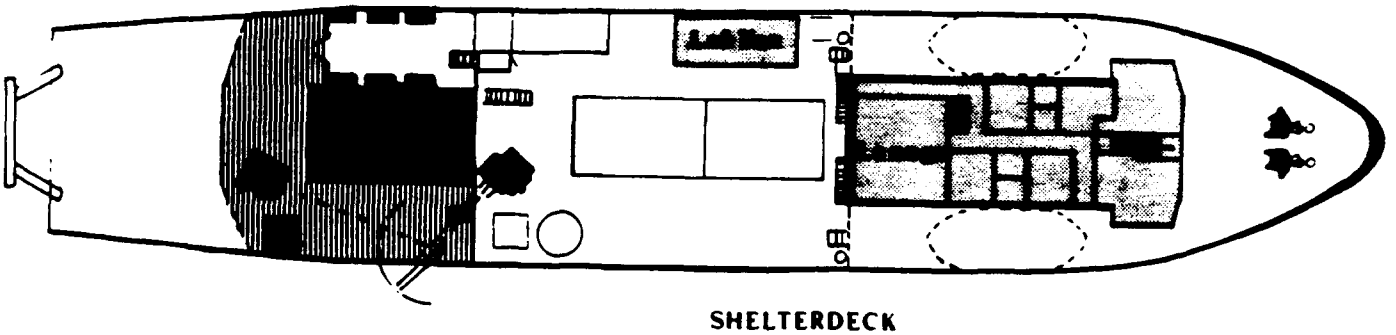




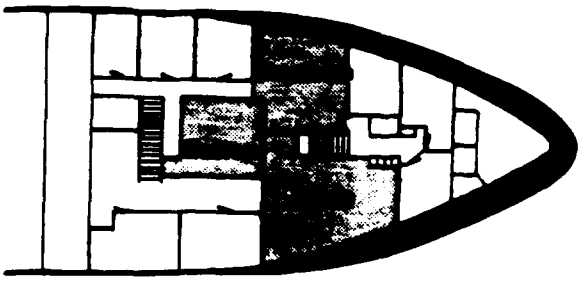
Engineering

Accommodation

MAINDECK



SHELTERDECK



TWEENDECK

R/V POLAR DUKE

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	NATHANIEL B. PALMER
NAME:	ALEXANDER L. SUTHERLAND
OFFICE:	DIVISION OF POLAR PROGRAMS
ORGANIZATION:	NATIONAL SCIENCE FOUNDATION
ADDRESS:	1800 G ST. NW
CITY-STATE:	WASHINGTON DC 20550
COMMERCIAL AREA CODE:	202
PHONE:	357-7808

SHIP DIMENSIONS

LENGTH:	308.5 FEET
MAX BEAM:	60.0 FEET
DISPLACEMENT:	6500 TONS
DRAUGHT:	21.75 FEET
CRUISE SPEED:	
RANGE:	

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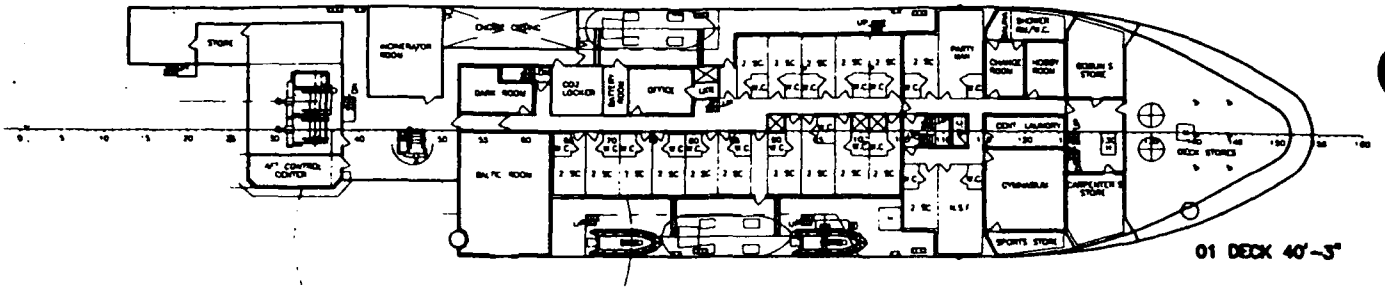

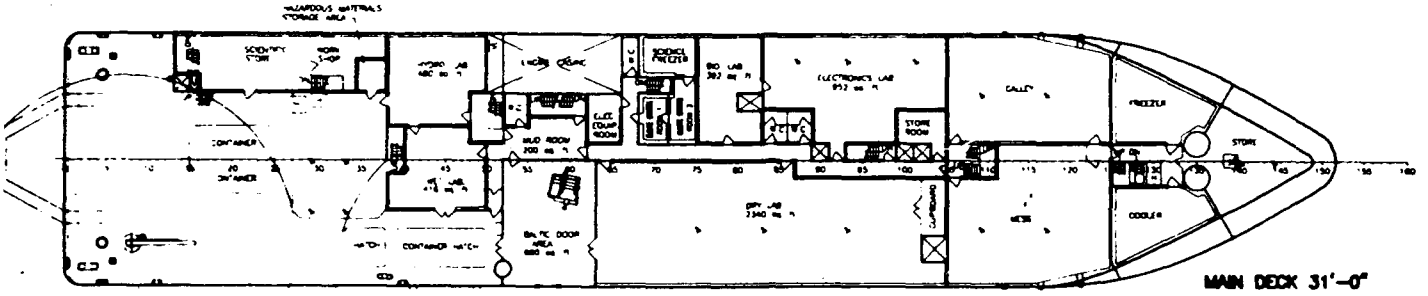

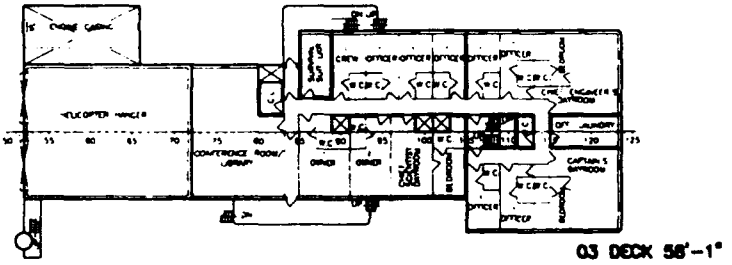

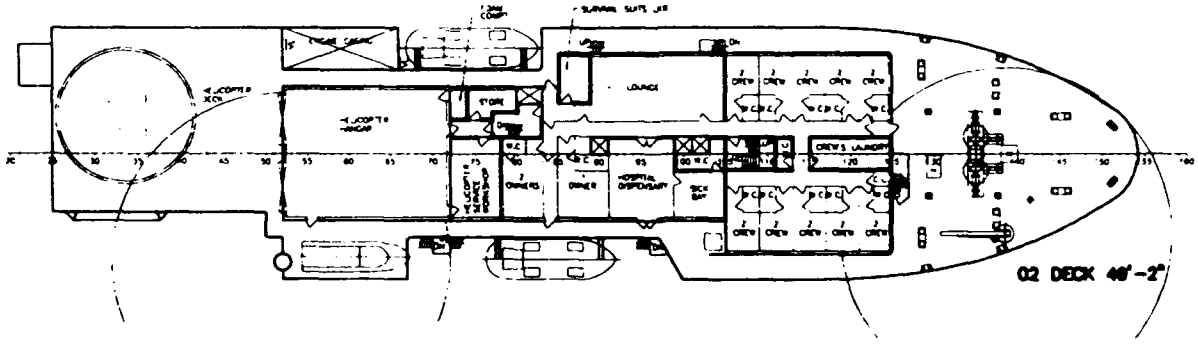

R/V NATHANIEL B. PALMER

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	ALBATROSS IV
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	187.0	FEET
MAX BEAM:	33.0	FEET
DISPLACEMENT:	1089	TONS
DRAUGHT:	16.2	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	3933	NAUTICAL MILES

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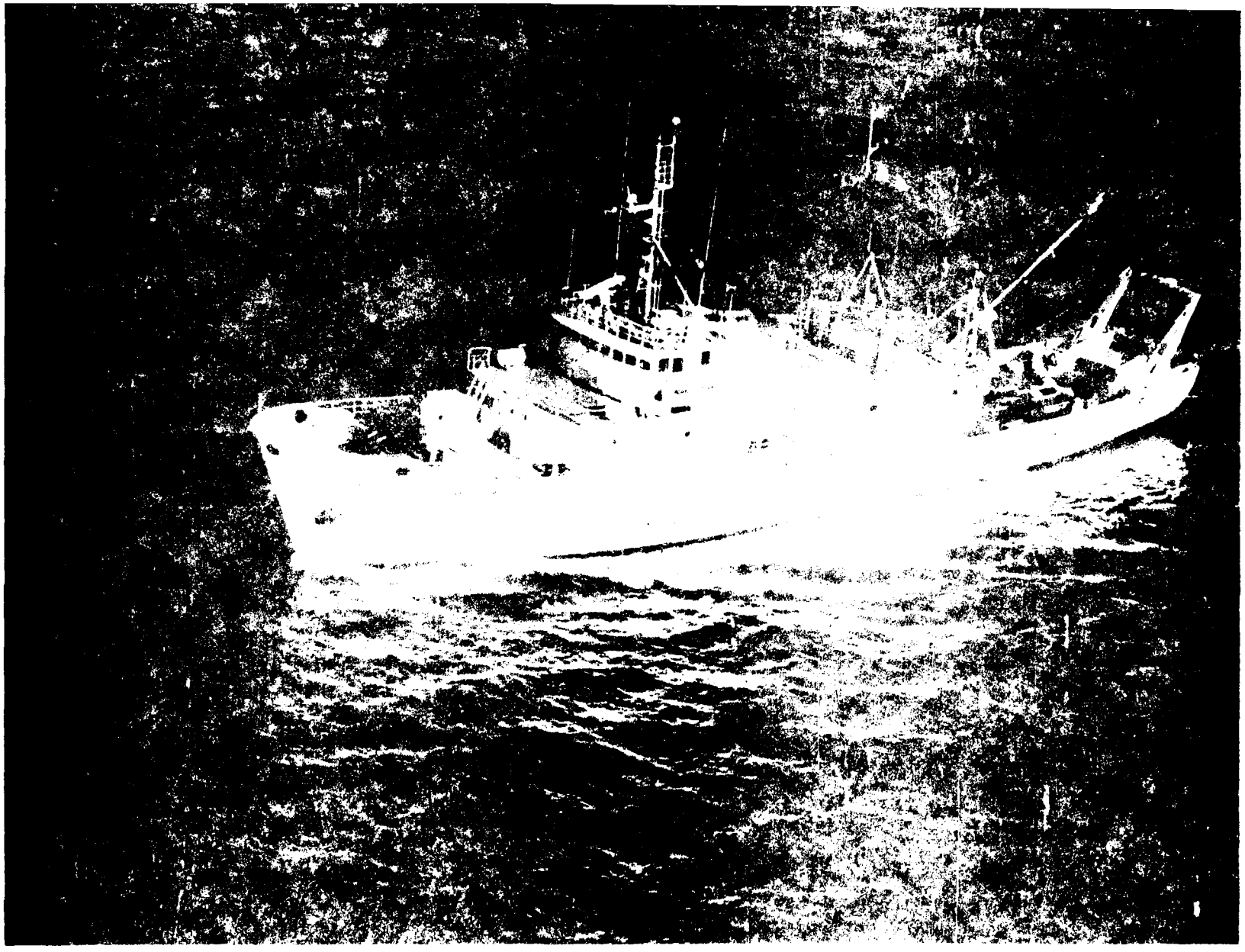

NOAA SHIP ALBATROSS IV

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	MALCOLM BALDRIDGE
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	278.3 FEET
MAX BEAM:	51.0 FEET
DISPLACEMENT:	2963 TONS
DRAUGHT:	18.3 FEET
CRUISE SPEED:	13.0 KNOTS
RANGE:	11245 NAUTICAL MILES

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	CHAPMAN
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	127.0	FEET
MAX BEAM:	29.6	FEET
DISPLACEMENT:	520	TONS
DRAUGHT:	14.0	FEET
CRUISE SPEED:	9.0	KNOTS
RANGE:	3024	NAUTICAL MILES

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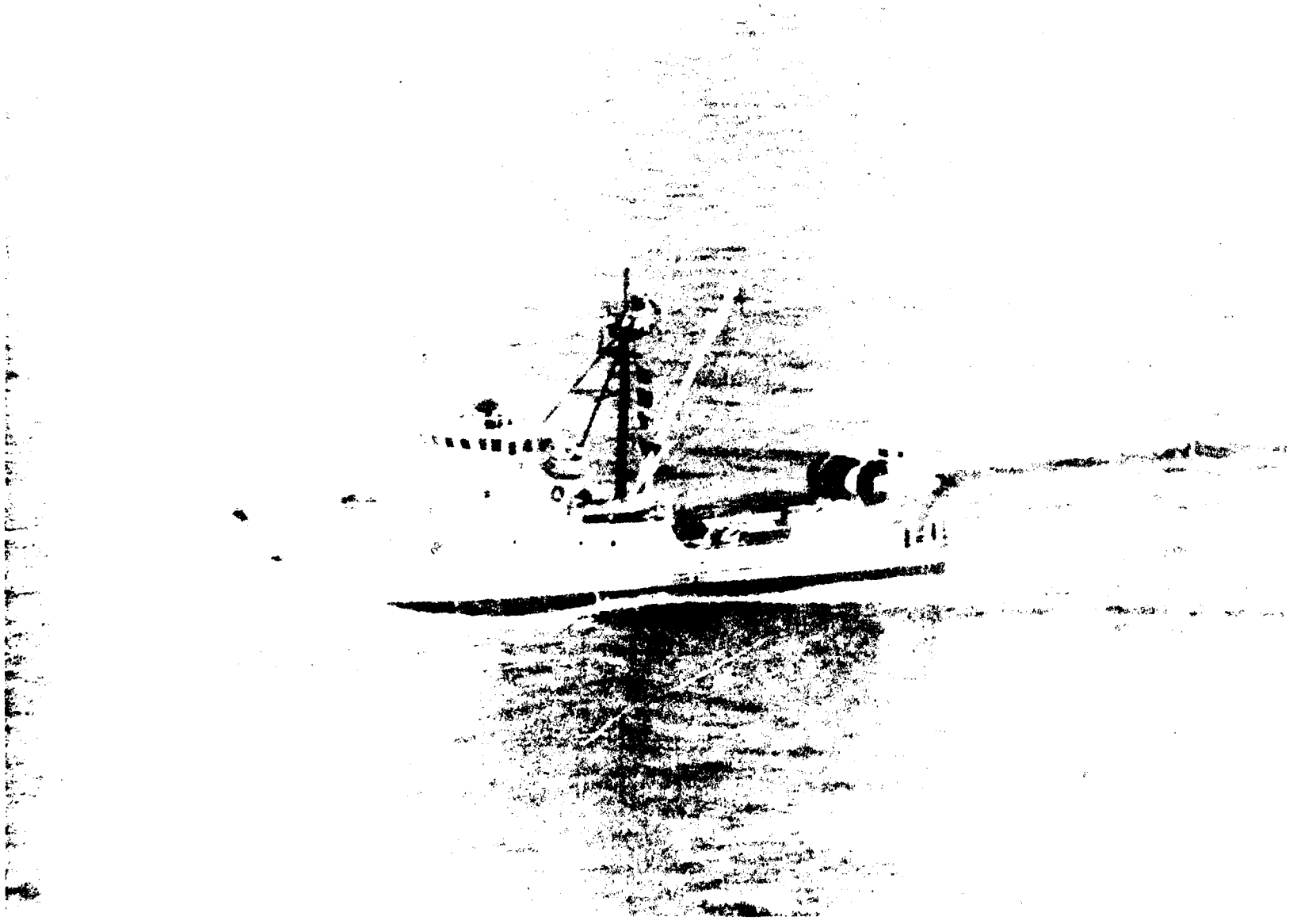

NOAA SHIP CHAPMAN

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	JOHN N COBB
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	93.0 FEET
MAX BEAM:	26.0 FEET
DISPLACEMENT:	250 TONS
DRAUGHT:	11.0 FEET
CRUISE SPEED:	9.0 KNOTS
RANGE:	3505 NAUTICAL MILES

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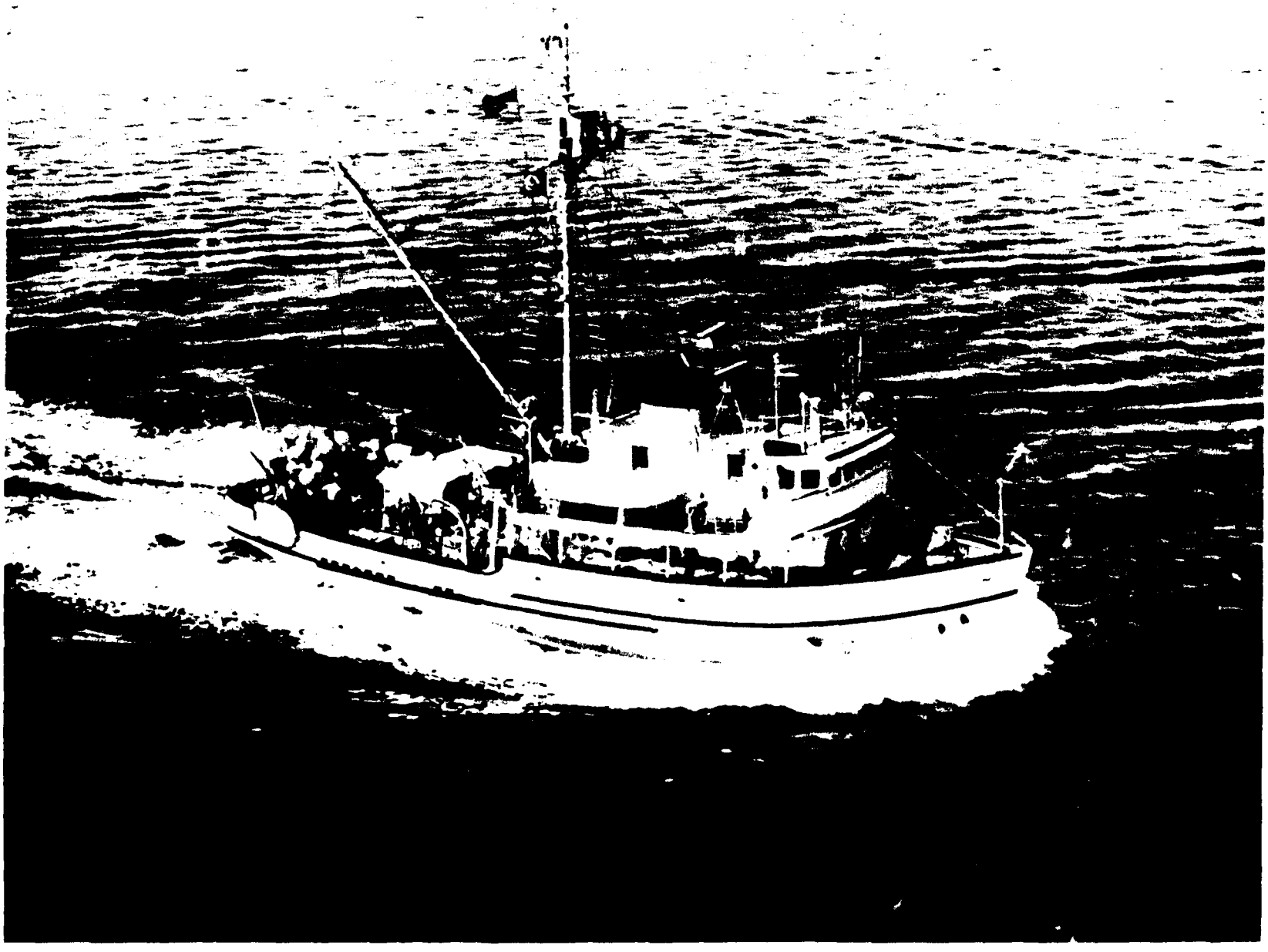

NOAA SHIP JOHN N. COBB

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	TOWNSEND CROMWELL
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	163.0 FEET
MAX BEAM:	33.0 FEET
DISPLACEMENT:	652 TONS
DRAUGHT:	12.7 FEET
CRUISE SPEED:	10.0 KNOTS
RANGE:	8160 NAUTICAL MILES

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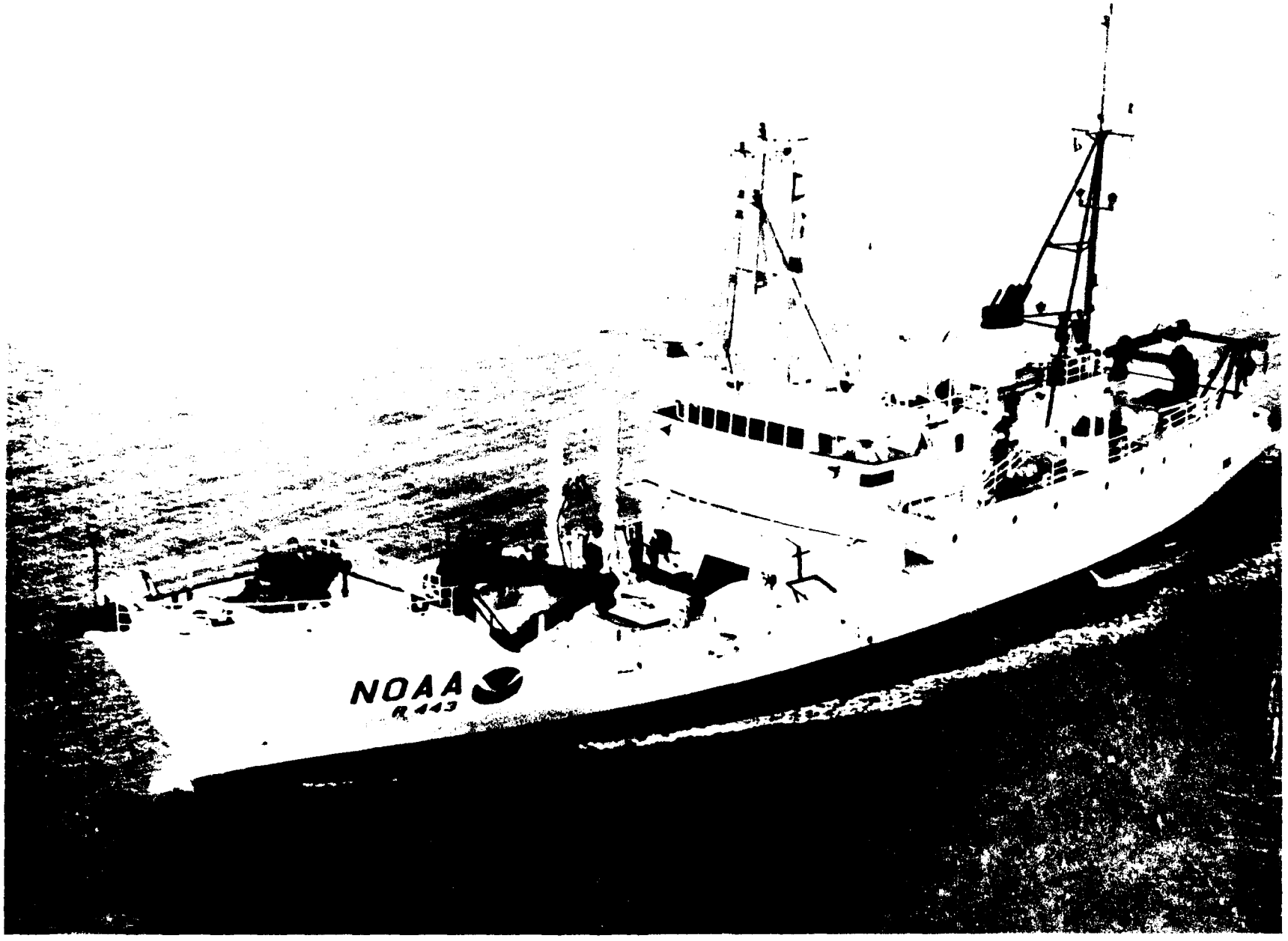

NOAA SHIP TOWNSEND CROMWELL

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	DAVIDSON
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	175.0 FEET
MAX BEAM:	38.0 FEET
DISPLACEMENT:	995 TONS
DRAUGHT:	14.0 FEET
CRUISE SPEED:	10.0 KNOTS
RANGE:	5788 NAUTICAL MILES

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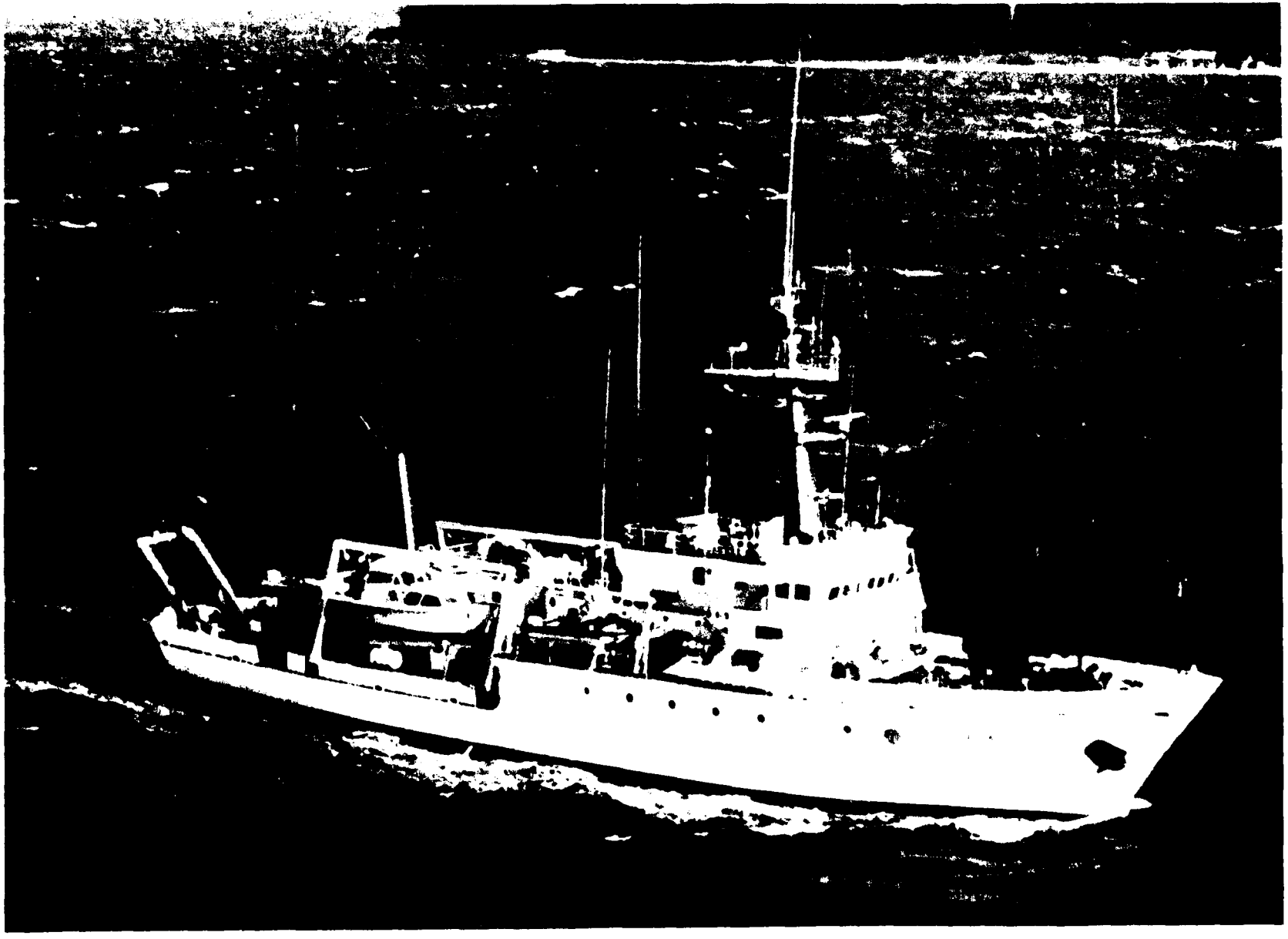

NOAA SHIP DAVIDSON

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	DELAWARE II
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	155.0	FEET
MAX BEAM:	30.1	FEET
DISPLACEMENT:	758	TONS
DRAUGHT:	14.7	FEET
CRUISE SPEED:	11.0	KNOTS
RANGE:	5318	NAUTICAL MILES

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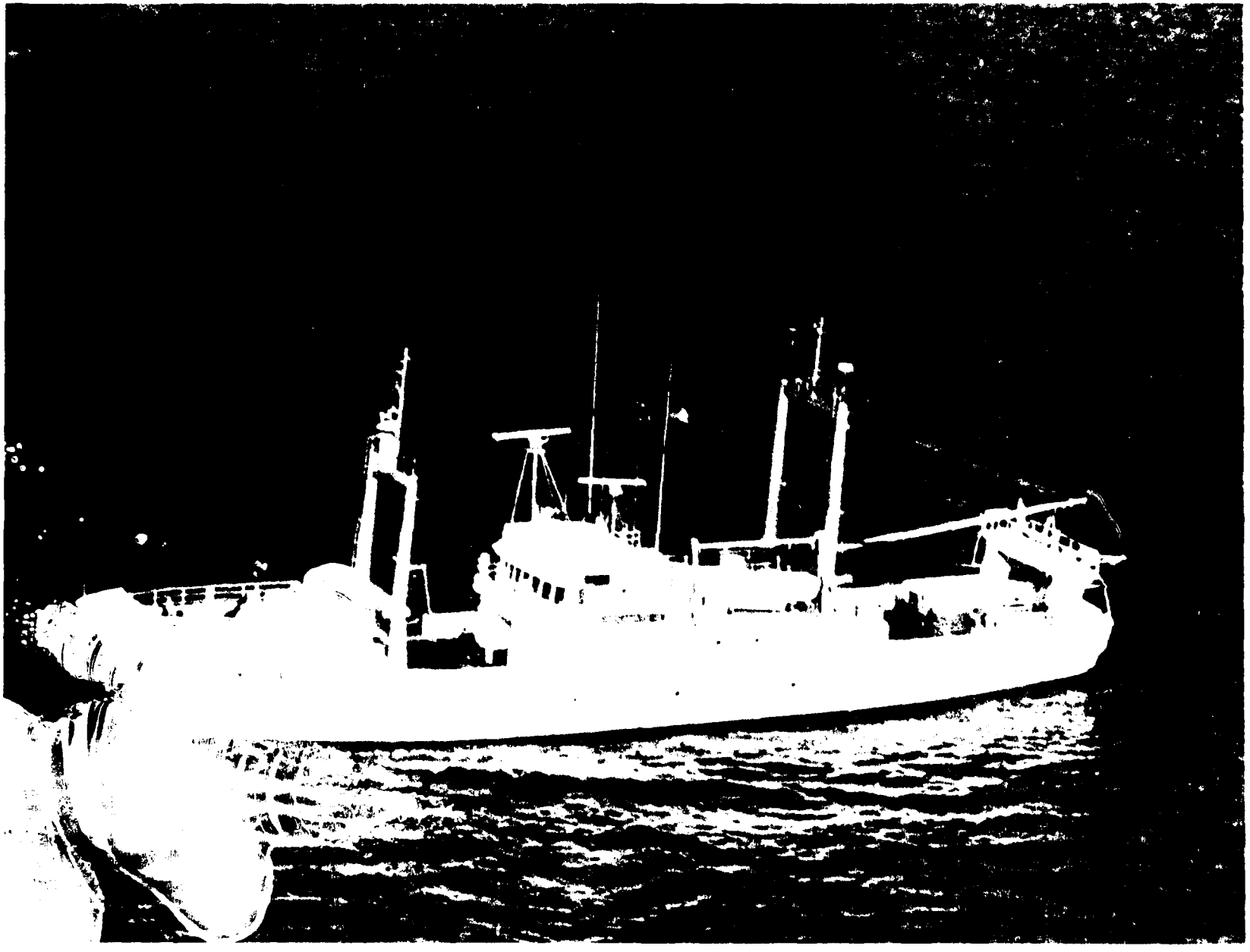

SHIP DELAWARE II

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	DISCOVERER
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	303.0 FEET
MAX BEAM:	52.0 FEET
DISPLACEMENT:	4033 TONS
DRAUGHT:	19.8 FEET
CRUISE SPEED:	11.0 KNOTS
RANGE:	9211 NAUTICAL MILES

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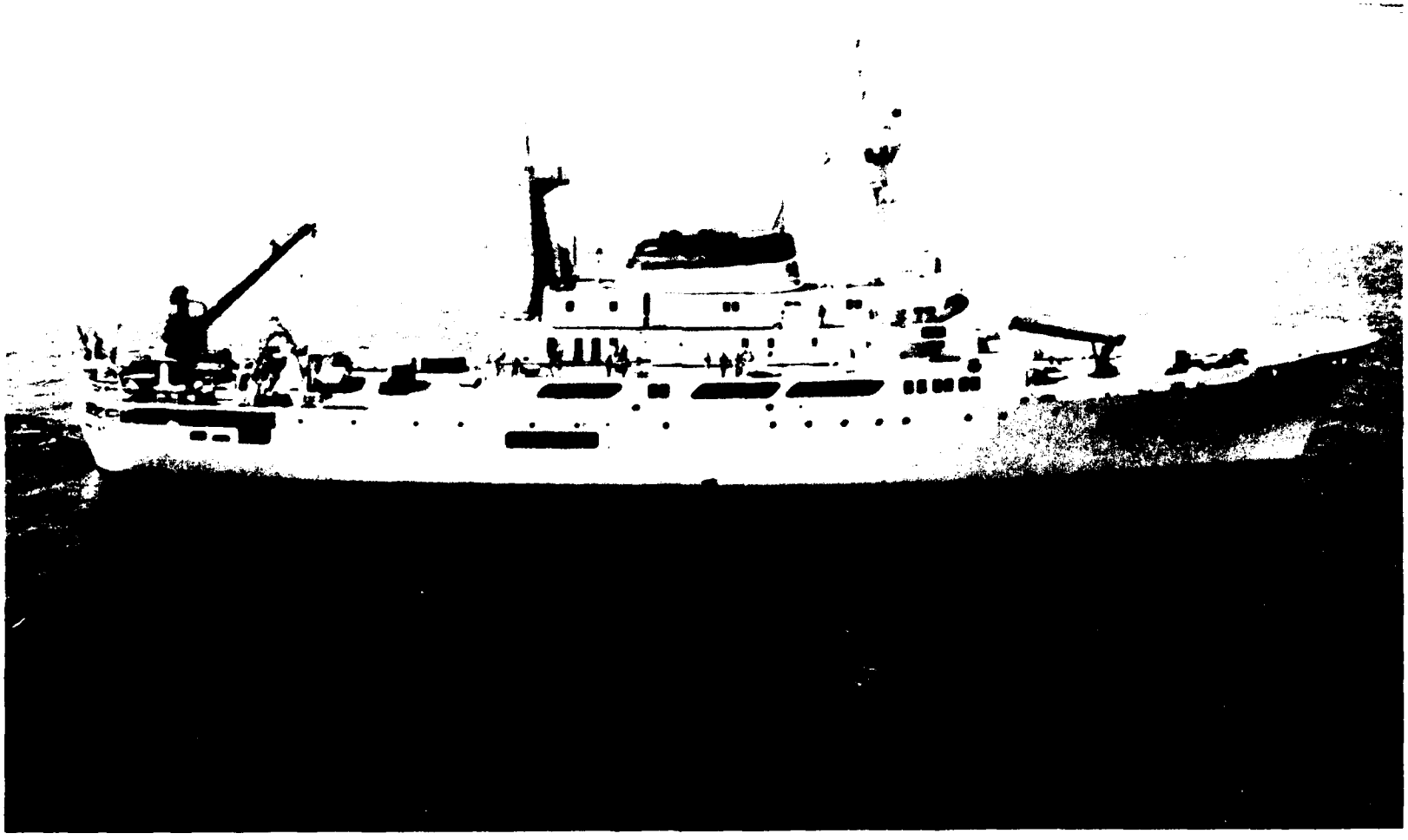

NOAA SHIP DISCOVERER

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	FAIRWEATHER
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	231.0	FEET
MAX BEAM:	42.0	FEET
DISPLACEMENT:	1800	TONS
DRAUGHT:	14.3	FEET
CRUISE SPEED:	11.0	KNOTS
RANGE:	5898	NAUTICAL MILES

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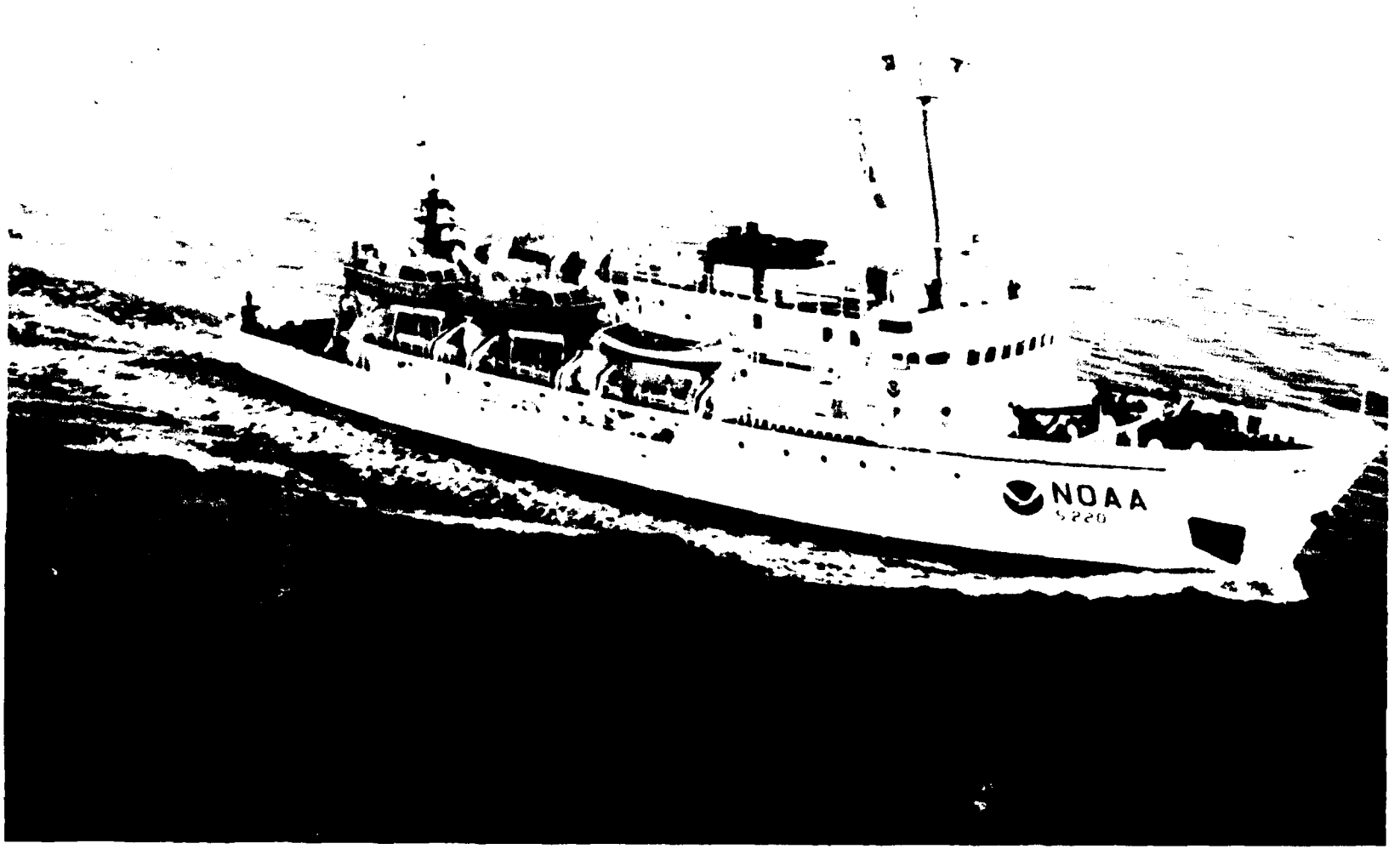

NOAA SHIP FAIRWEATHER

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	FERREL
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFORK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	133.0	FEET
MAX BEAM:	32.0	FEET
DISPLACEMENT:	360	TONS
DRAUGHT:	6.5	FEET
CRUISE SPEED:	9.0	KNOTS
RANGE:	2678	NAUTICAL MILES

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NOAA SHIP FERREL

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	MILLER FREEMAN
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	215.0 FEET
MAX BEAM:	42.0 FEET
DISPLACEMENT:	1920 TONS
DRAUGHT:	20.0 FEET
CRUISE SPEED:	12.0 KNOTS
RANGE:	12528 NAUTICAL MILES

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NOAA SHIP MILLER FREEMAN

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	HECK
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	90.0 FEET
MAX BEAM:	22.0 FEET
DISPLACEMENT:	220 TONS
DRAUGHT:	7.2 FEET
CRUISE SPEED:	10.0 KNOTS
RANGE:	770 NAUTICAL MILES

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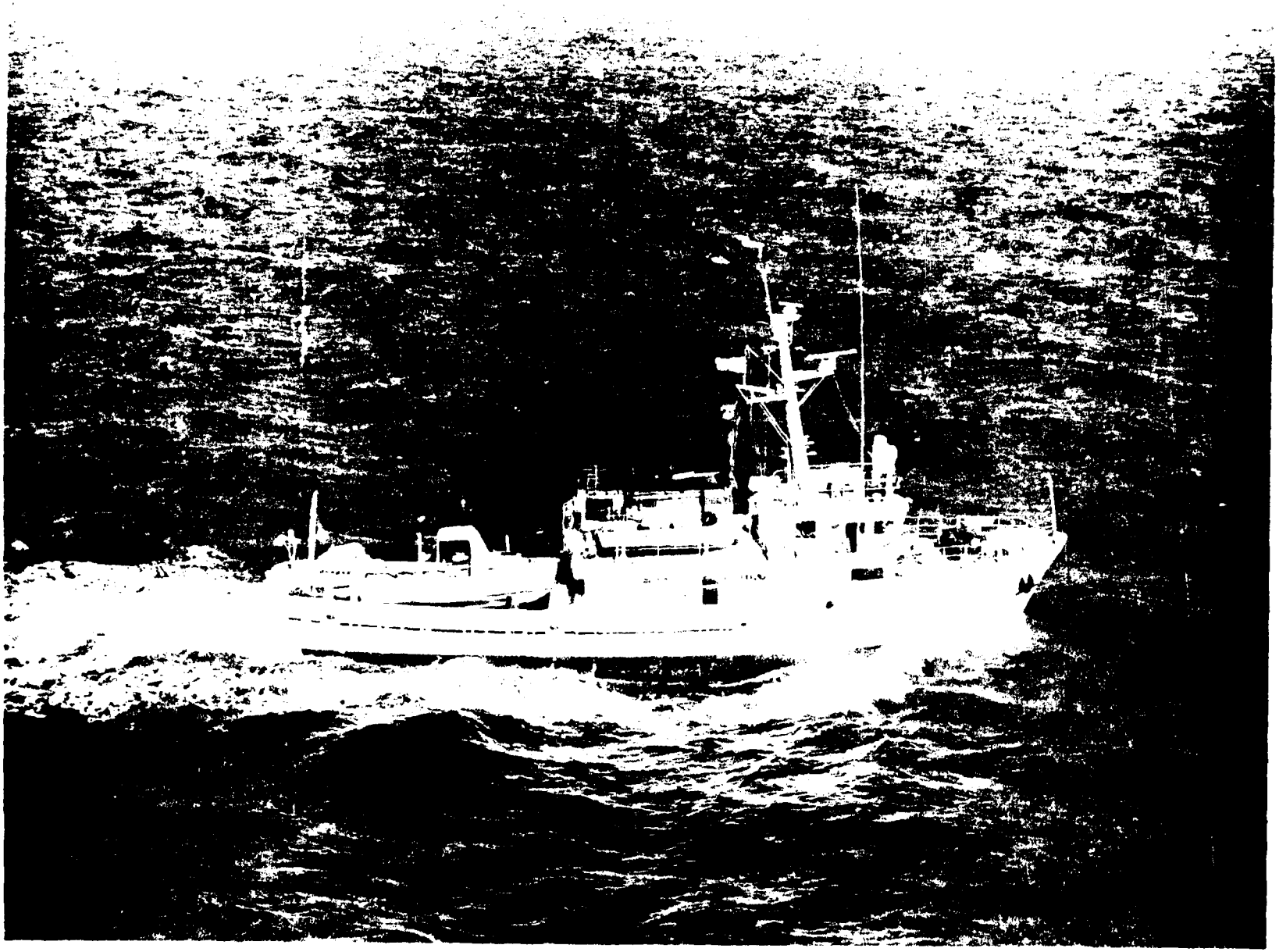

NOAA SHIP HECK

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	DAVID STARR JORDAN
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	171.0	FEET
MAX BEAM:	36.6	FEET
DISPLACEMENT:	993	TONS
DRAUGHT:	12.5	FEET
CRUISE SPEED:	10.0	KNOTS
RANGE:	8335	NAUTICAL MILES

****
****

NOAA SHIP DAVID STARR JORDAN

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	MCARTHUR
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	175.0 FEET
MAX BEAM:	38.0 FEET
DISPLACEMENT:	995 TONS
DRAUGHT:	12.1 FEET
CRUISE SPEED:	10.0 KNOTS
RANGE:	6615 NAUTICAL MILES

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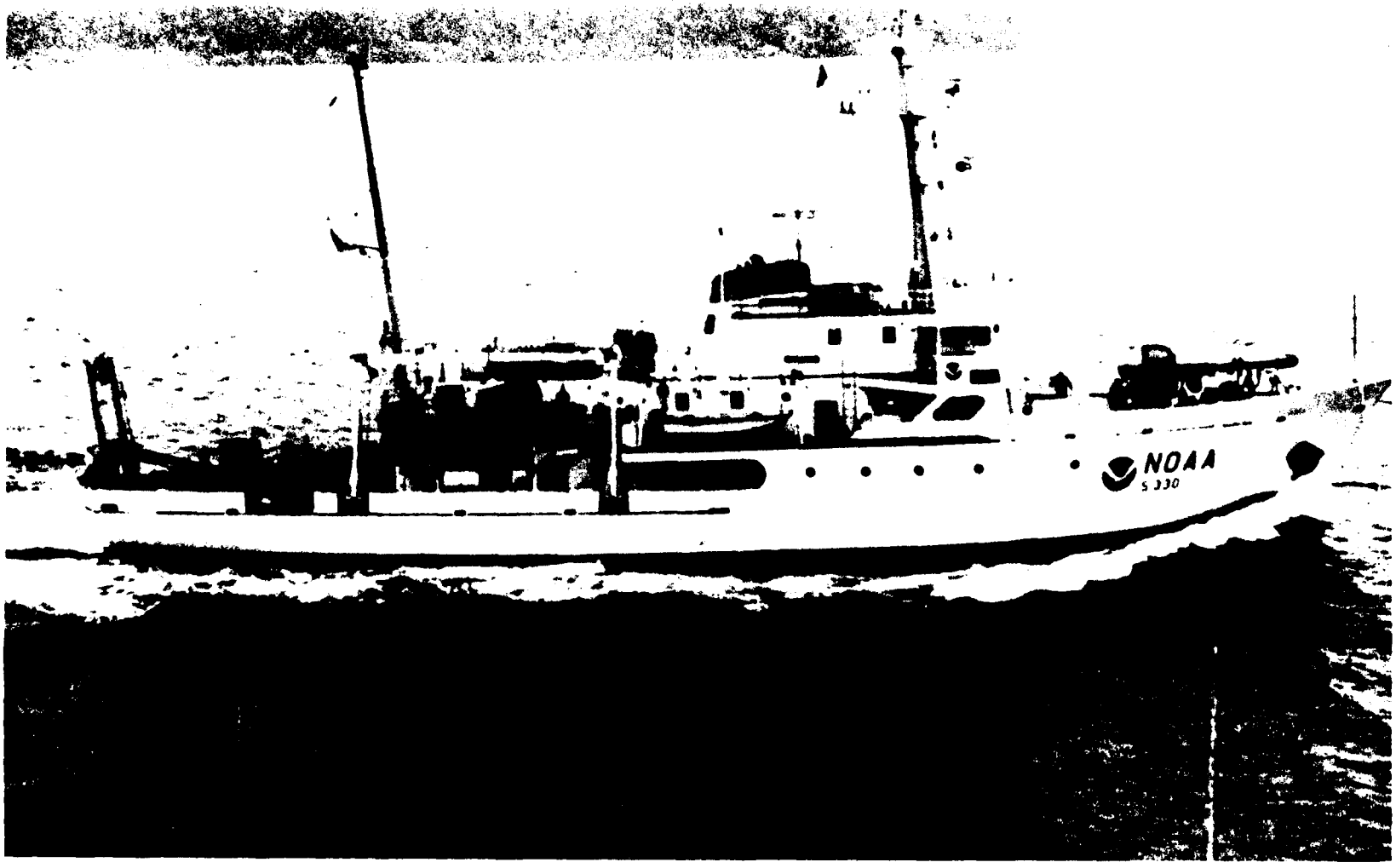

NOAA SHIP McARTHUR

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	MT. MITCHELL
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	231.0	FEET
MAX BEAM:	42.0	FEET
DISPLACEMENT:	1800	TONS
DRAUGHT:	14.3	FEET
CRUISE SPEED:	11.0	KNOTS
RANGE:	5898	NAUTICAL MILES

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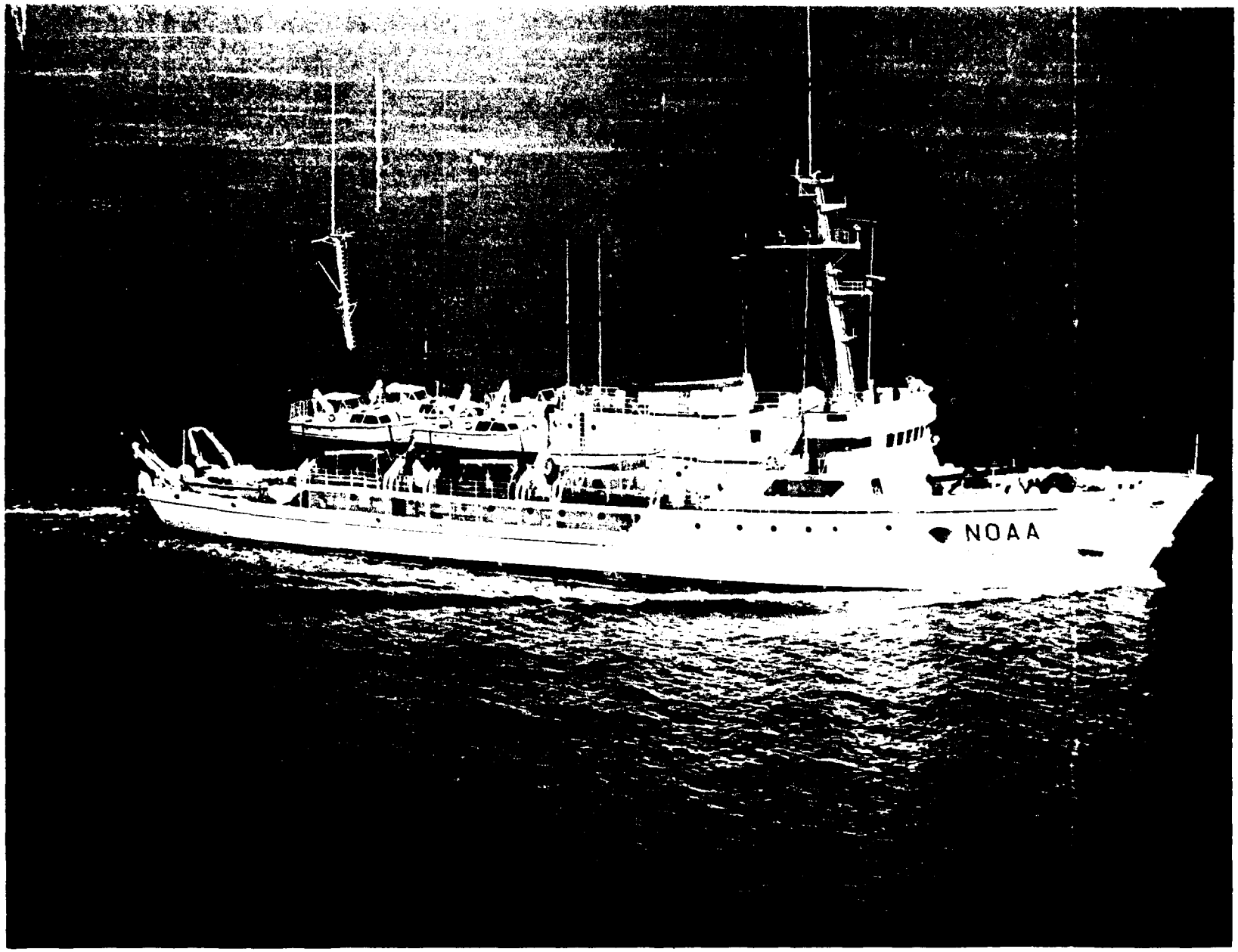

NOAA SHIP MT. MITCHELL

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	MURRE II
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	86.0 FEET
MAX BEAM:	26.8 FEET
DISPLACEMENT:	295 TONS
DRAUGHT:	7.5 FEET
CRUISE SPEED:	9.0 KNOTS
RANGE:	1620 NAUTICAL MILES

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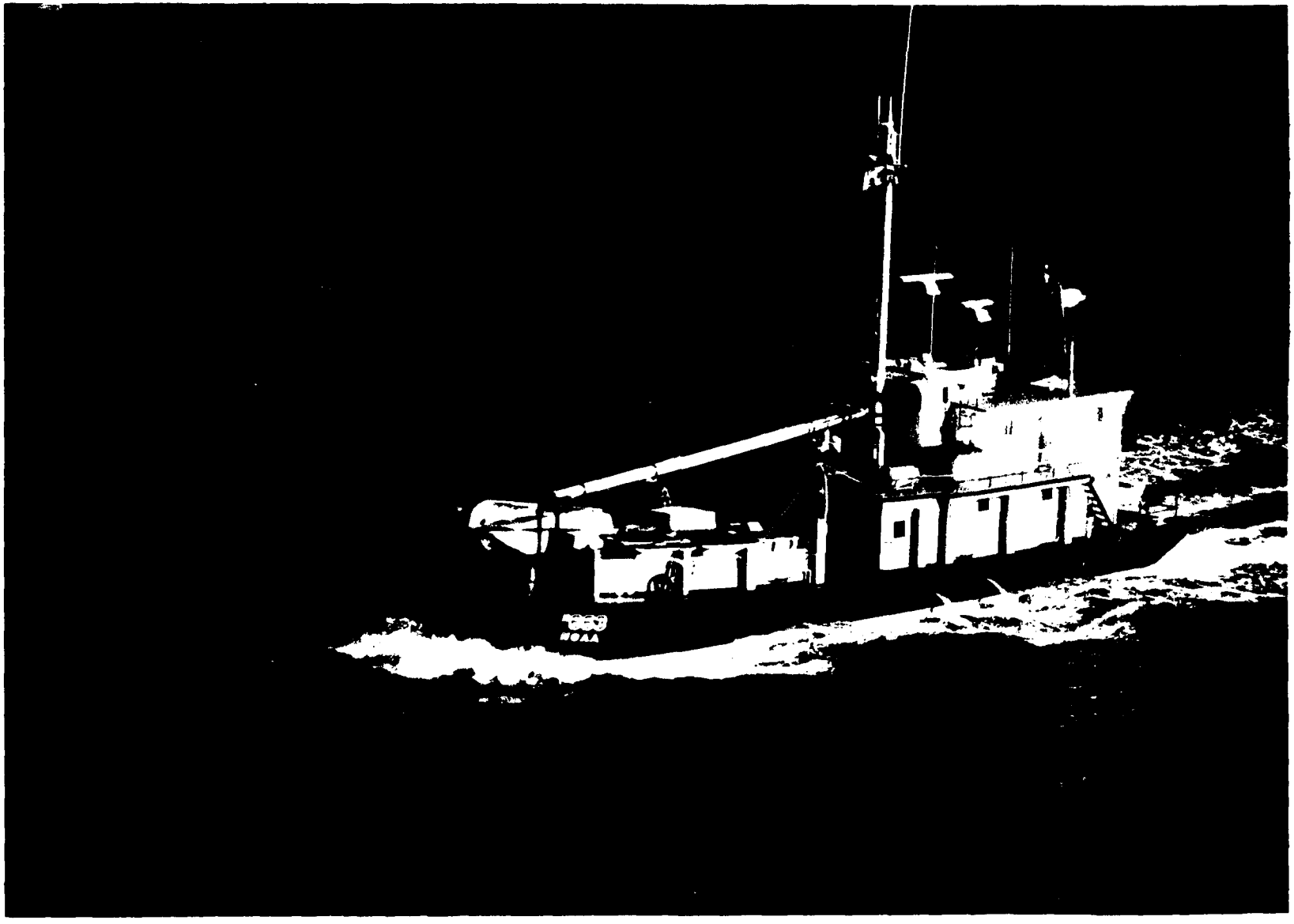

NOAA SHIP MURRE II

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	OREGON II
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	170.0 FEET
MAX BEAM:	34.0 FEET
DISPLACEMENT:	952 TONS
DRAUGHT:	14.0 FEET
CRUISE SPEED:	12.0 KNOTS
RANGE:	7810 NAUTICAL MILES

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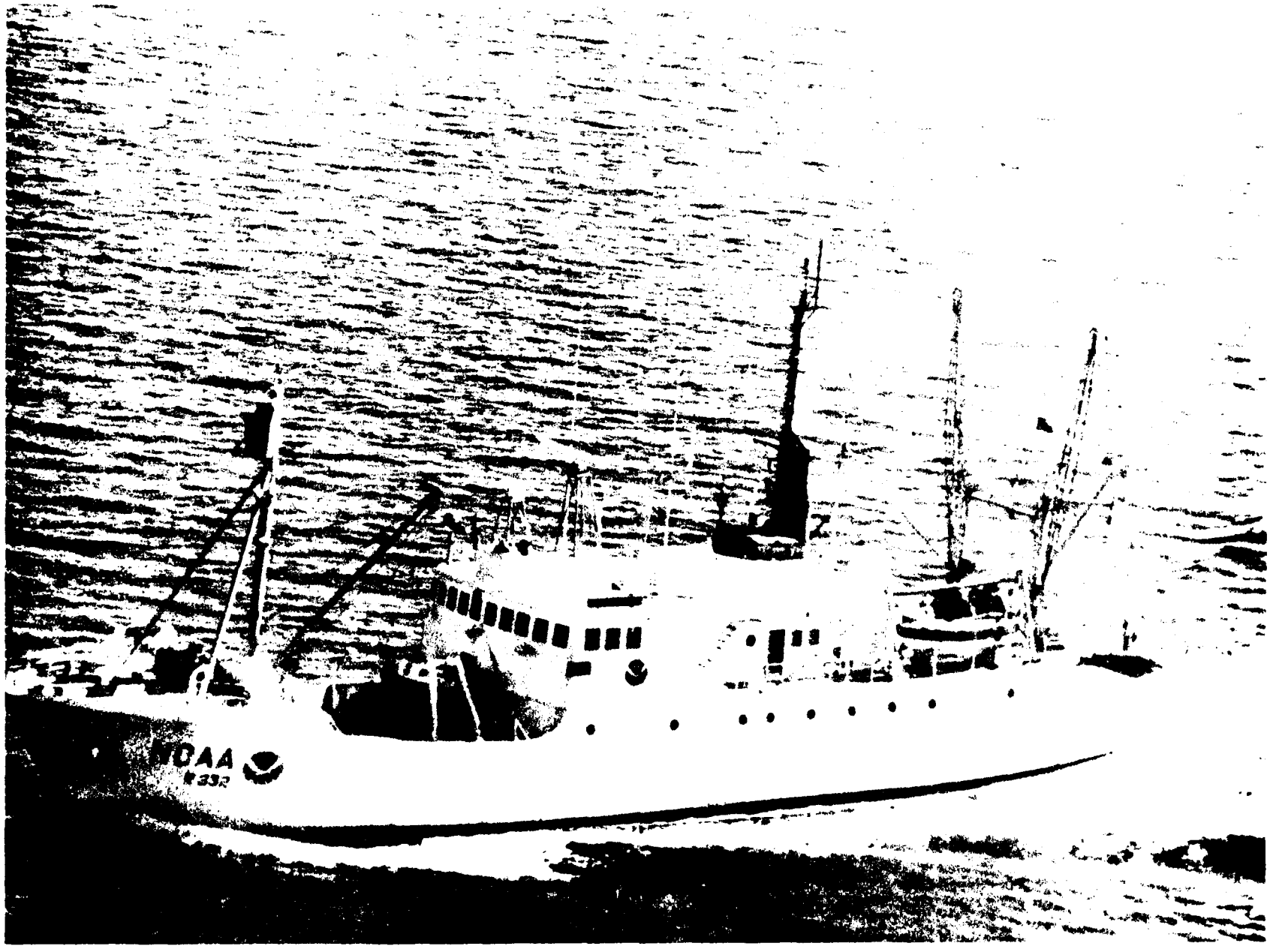

NOAA SHIP OREGON II

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POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	PEIRCE
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	163.0 FEET
MAX BEAM:	33.0 FEET
DISPLACEMENT:	907 TONS
DRAUGHT:	11.2 FEET
CRUISE SPEED:	12.0 KNOTS
RANGE:	5760 NAUTICAL MILES

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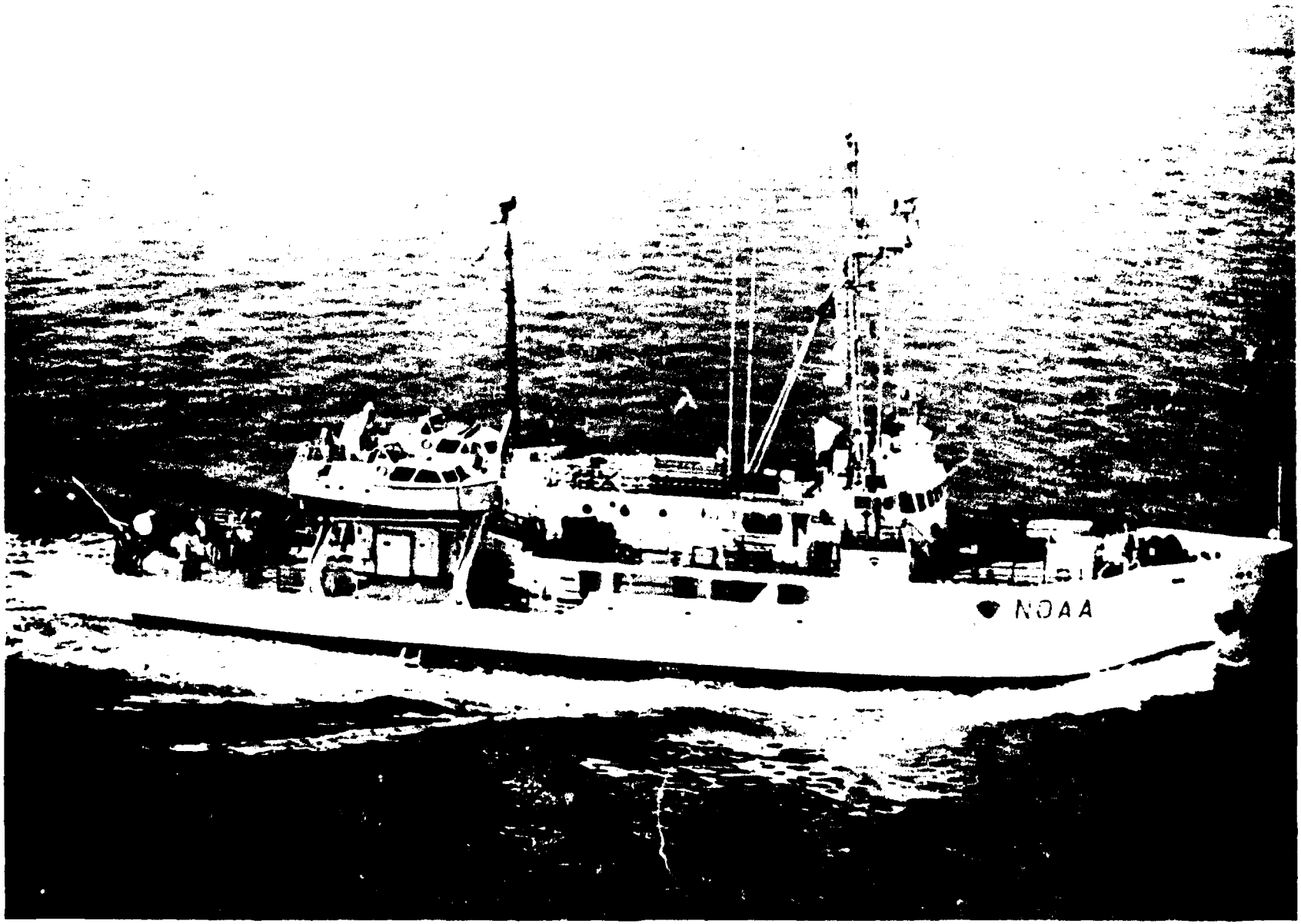

NOAA SHIP PEIRCE

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	RAINIER
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
COMMERCIAL AREA CODE:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	231.0 FEET
MAX BEAM:	42.0 FEET
DISPLACEMENT:	1800 TONS
DRAUGHT:	14.3 FEET
CRUISE SPEED:	11.0 KNOTS
RANGE:	5898 NAUTICAL MILES

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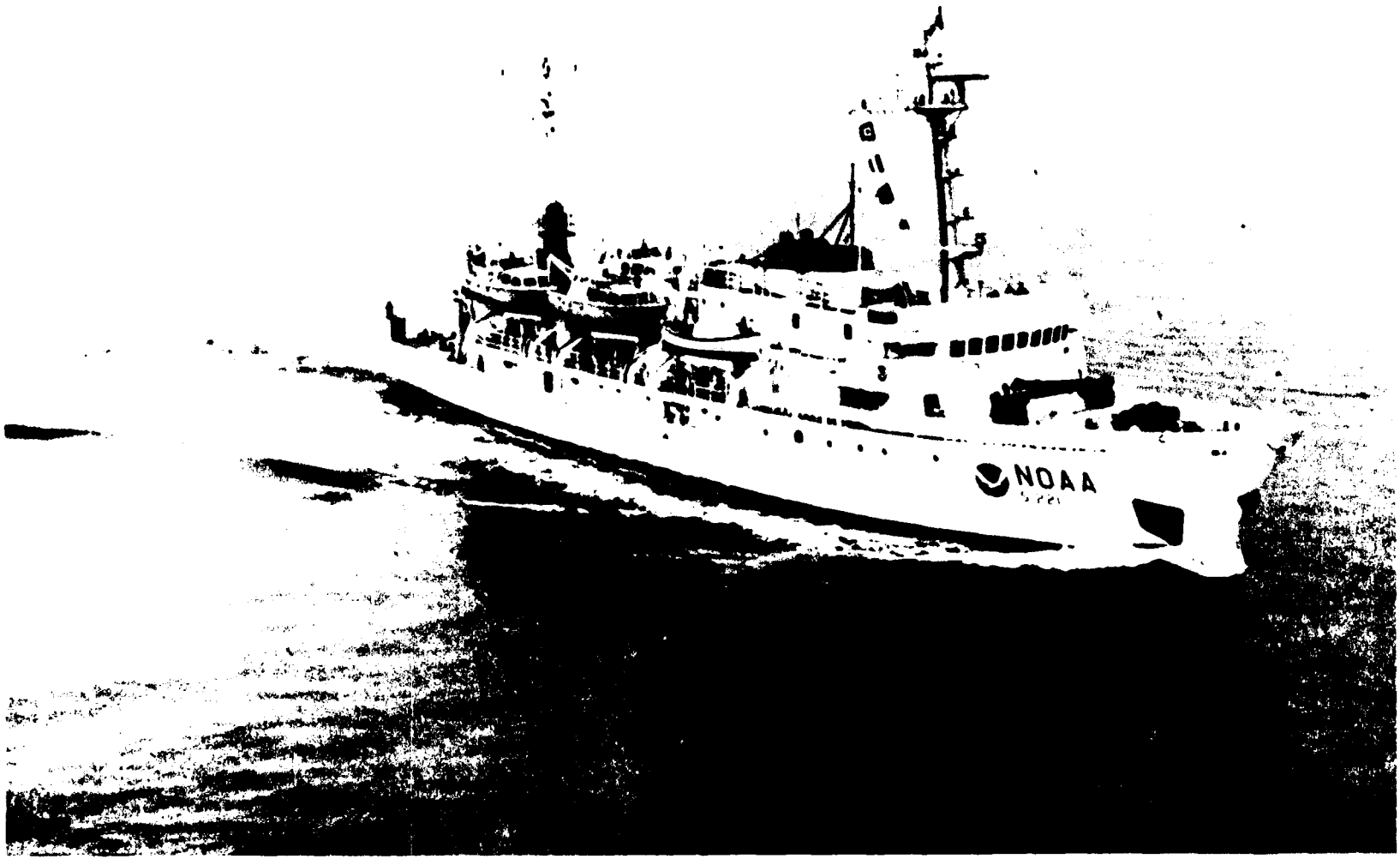

NOAA SHIP RAINIER

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	RUDE
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	90.0 FEET
MAX BEAM:	22.0 FEET
DISPLACEMENT:	220 TONS
DRAUGHT:	7.2 FEET
CRUISE SPEED:	9.0 KNOTS
RANGE:	770 NAUTICAL MILES

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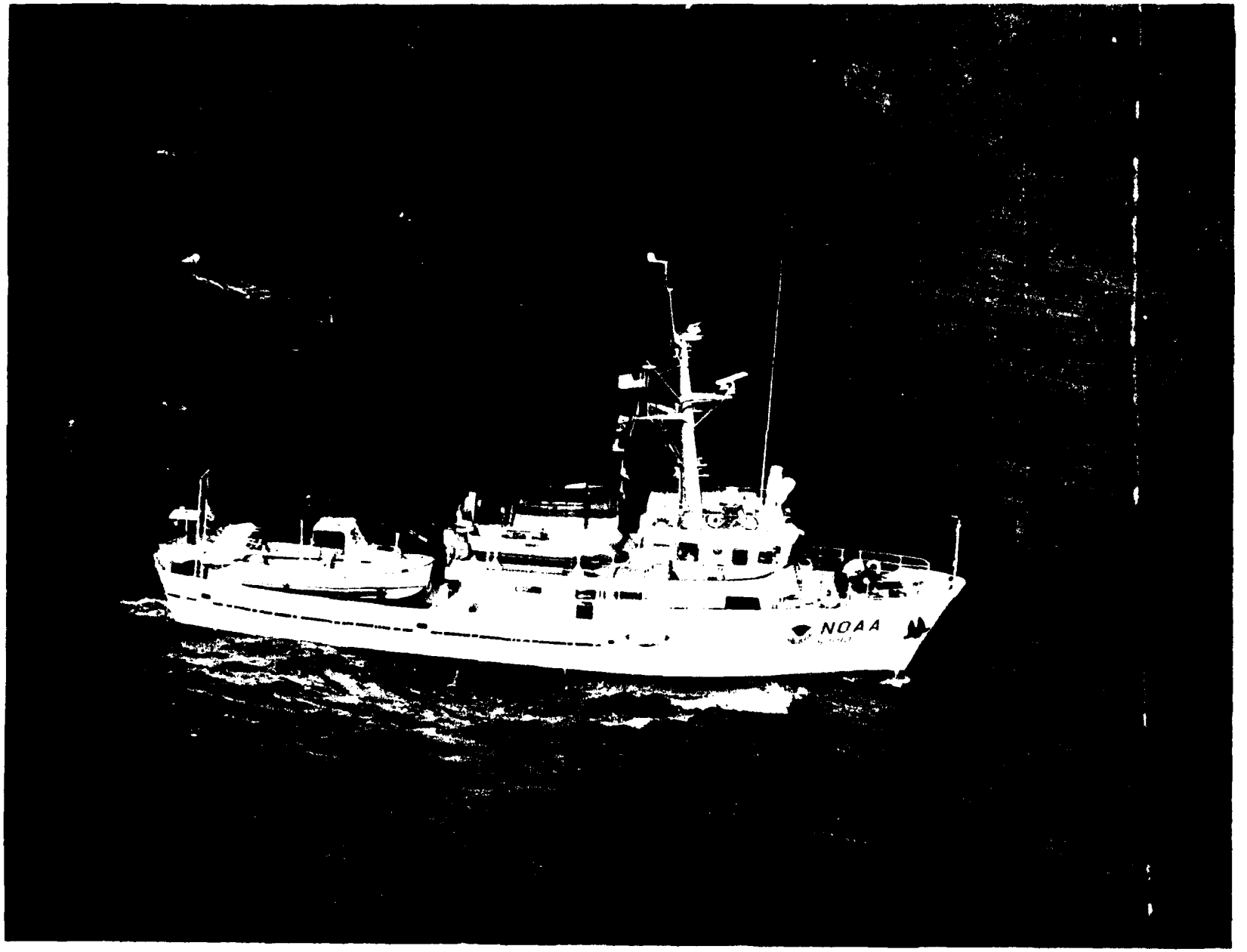

NOAA SHIP RUDE

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	SURVEYOR
NAME:	CAPT. FRED JONES
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA PACIFIC MARINE CENTER
ADDRESS:	1801 FAIRVIEW AVENUE E
CITY-STATE:	SEATTLE WA 98102
FTS PREFIX:	206
PHONE:	442-4548

SHIP DIMENSIONS

LENGTH:	292.2 FEET
MAX BEAM:	46.0 FEET
DISPLACEMENT:	3440 TONS
DRAUGHT:	19.5 FEET
CRUISE SPEED:	12.0 KNOTS
RANGE:	8033 NAUTICAL MILES

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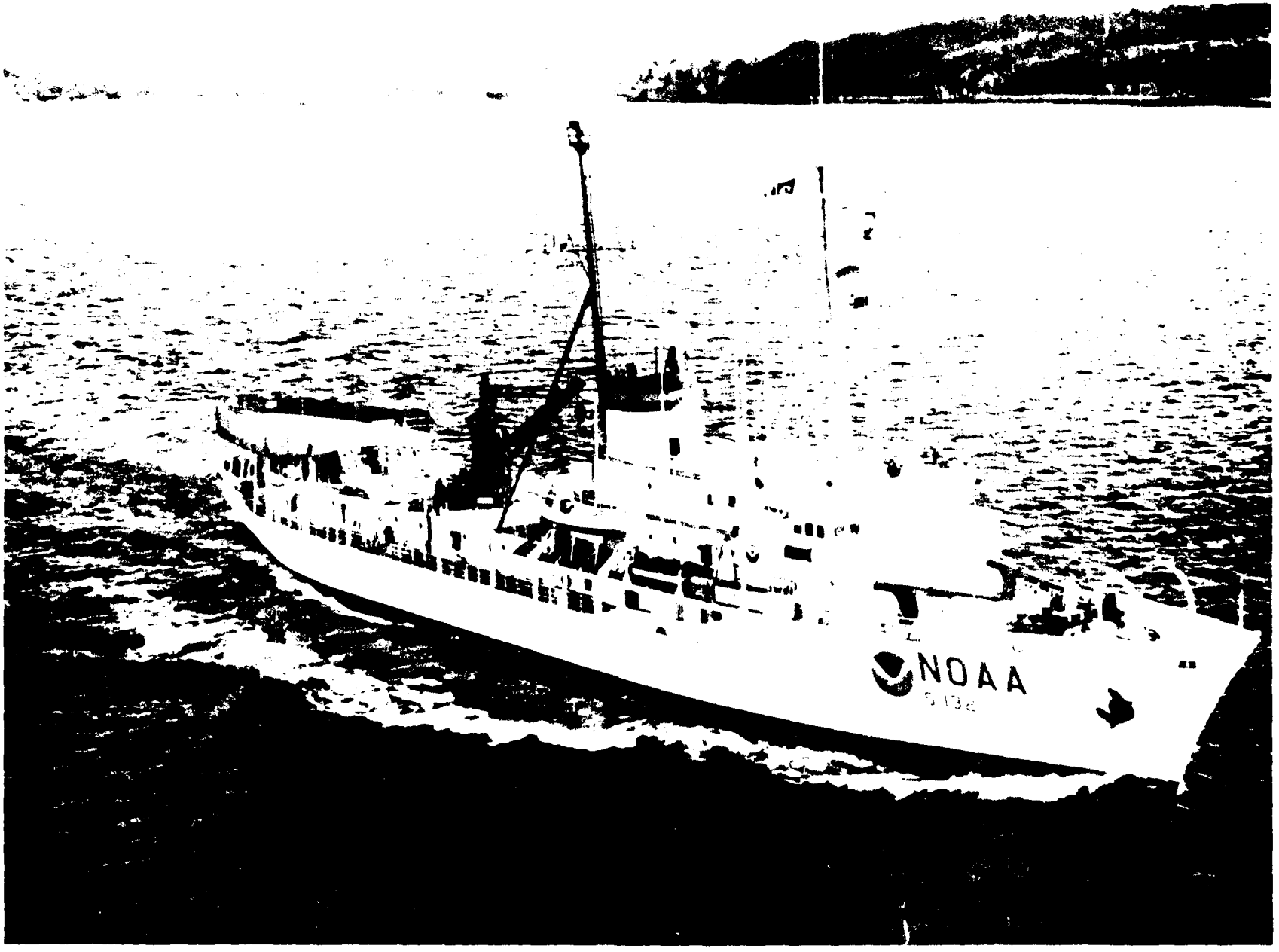

NOAA SHIP SURVEYOR

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	WHITING
NAME:	CDR. ROBERT HUNT
OFFICE:	CHIEF OPERATIONS DIVISION
ORGANIZATION:	NOAA ATLANTIC MARINE CENTER
ADDRESS:	439 WEST YORK STREET
CITY-STATE:	NORFOLK VA 23510
COMMERCIAL AREA CODE:	804
PHONE:	441-6440

SHIP DIMENSIONS

LENGTH:	163.0 FEET
MAX BEAM:	33.0 FEET
DISPLACEMENT:	907 TONS
DRAUGHT:	11.2 FEET
CRUISE SPEED:	12.0 KNOTS
RANGE:	5700 NAUTICAL MILES

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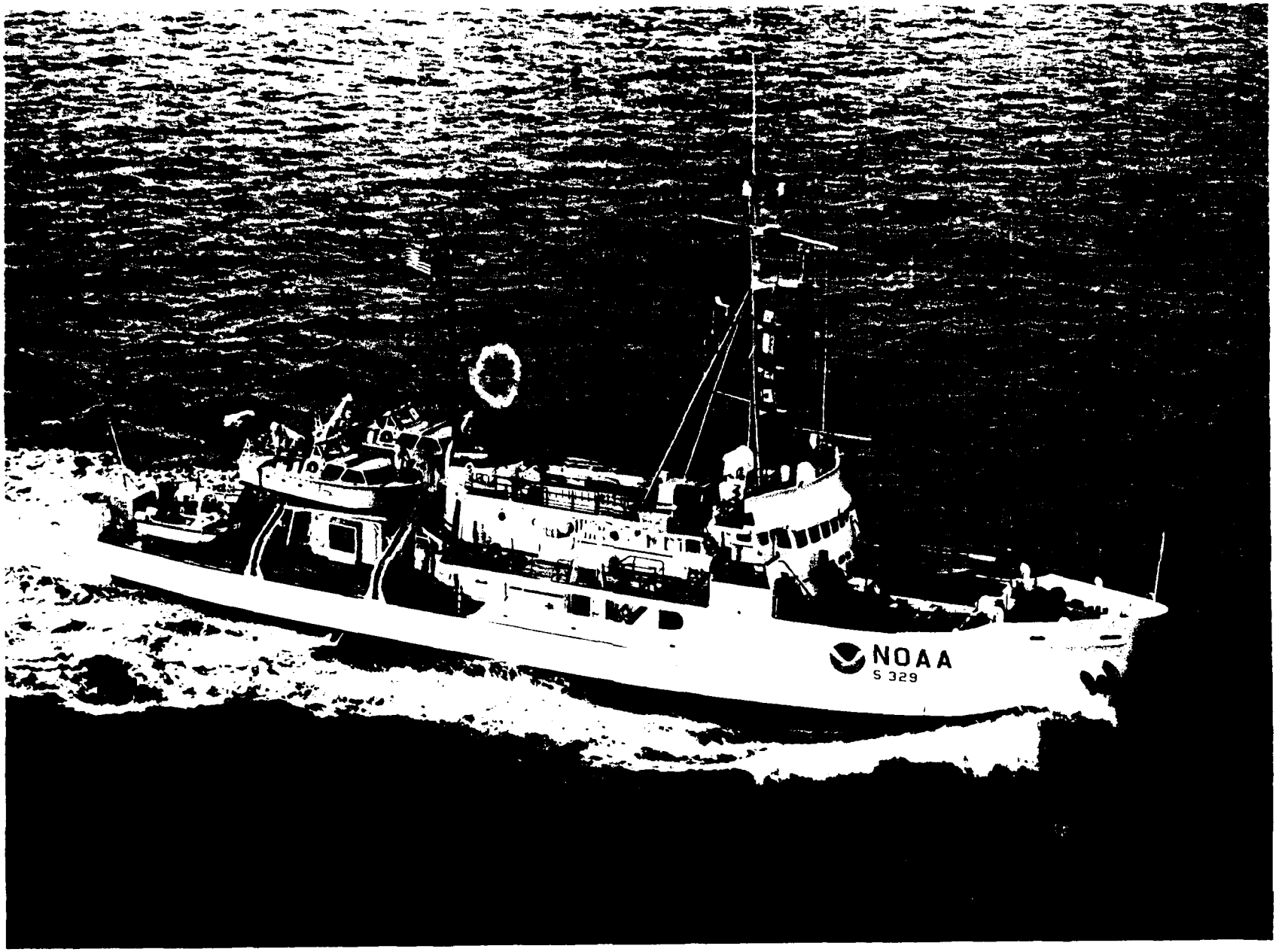

NOAA SHIP WHITING

****

POINT OF CONTACT I.. RMATION (SCHEDULES)

SHIP NAME:	USNS SAMUEL P. LEE
NAME:	MARK HOLMES
OFFICE:	PACIFIC BRANCH OFFICE OF MARINE GEOLOGY
ORGANIZATION:	U. S. GEOLOGICAL SURVEY
ADDRESS:	345 MIDDLEFIELD RD, MAILSTOP 999
CITY-STATE:	MENLO PARK CA 94025
COMMERCIAL AREA CODE:	415
PHONE:	856-7141

SHIP DIMENSIONS

LENGTH:	208.3 FEET
MAX BEAM:	39.0 FEET
DISPLACEMENT:	1338 TONS
DRAUGHT:	14.2 FEET
CRUISE SPEED:	11.6 KNOTS
RANGE:	12000 NAUTICAL MILES

****
****

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	LAKE GUARDIAN
NAME:	MR DAVID ROCKWELL
OFFICE:	EPA PROJECT OFFICER
ORGANIZATION:	GREAT LAKES NATIONAL PROGRAM OFFICE
ADDRESS:	230 SOUTH DEARBORN
CITY-STATE:	CHICAGO IL 60604
COMMERCIAL AREA CODE:	312
PHONE:	353-1373

SHIP DIMENSIONS

LENGTH:	180.0	FEET
MAX BEAM:	40.0	FEET
DISPLACEMENT:	850	TONS
DRAUGHT:	11.0	FEET
CRUISE SPEED:	12.0	KNOTS
RANGE:	6000	NAUTICAL MILES

****
****

****

POINT OF CONTACT INFORMATION (SCHEDULES)

SHIP NAME:	PETER W. ANDERSON
NAME:	EDWARD MCLEAN
OFFICE:	MARINE & ESTUARINE PROTECTION WH556M
ORGANIZATION:	ENVIRONMENTAL PROTECTION AGENCY
ADDRESS:	401 M STREET, SW
CITY-STATE:	WASHINGTON DC 20460
COMMERCIAL AREA CODE:	202
PHONE:	382-7143

SHIP DIMENSIONS

LENGTH:	165.0 FEET
MAX BEAM:	24.0 FEET
DISPLACEMENT:	250 TONS
DRAUGHT:	10.5 FEET
CRUISE SPEED:	12.0 KNOTS
RANGE:	2448 NAUTICAL MILES

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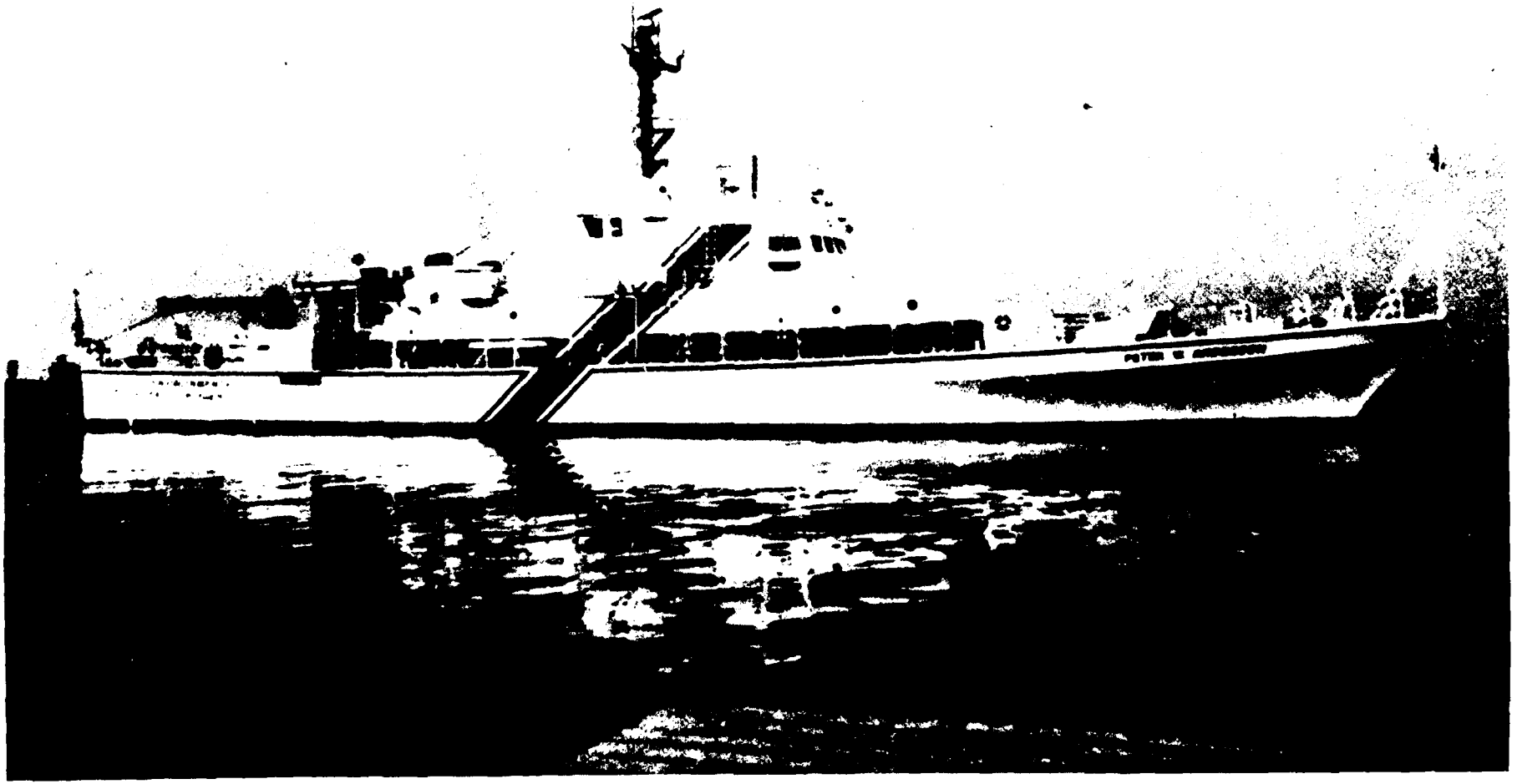
*U.S. GOVERNMENT PRINTING OFFICE: 1992-666-565 Region 4.



EPA PETER W. ANDERSON

SUPPLEMENTARY

INFORMATION

DEPARTMENT OF THE NAVY
NAVAL OCEANOGRAPHIC OFFICE
STENNIS SPACE CENTER, MS 39522-5001

IN REPLY REFER TO

19 JAN 1993

Subj: CHANGES TO RP53, "NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS"

Encl: (1) Change pages for RP53 (7 pages)

1. Make changes to RP53 as indicated below:

a. Replacement. Using enclosure (1),

(1) Remove front cover through page 2 and replace with new pages.

(2) Remove back cover and replace with new back cover.

b. Pen-and-ink changes. Annotate on page 195 "USNS DE STEIGUER no longer available. Ship has been transferred to Tunisian Navy."

2. The point of contact for this publication is Ms. Barbara Lee, DSN 446-8447 or commercial (601) 689-8447.

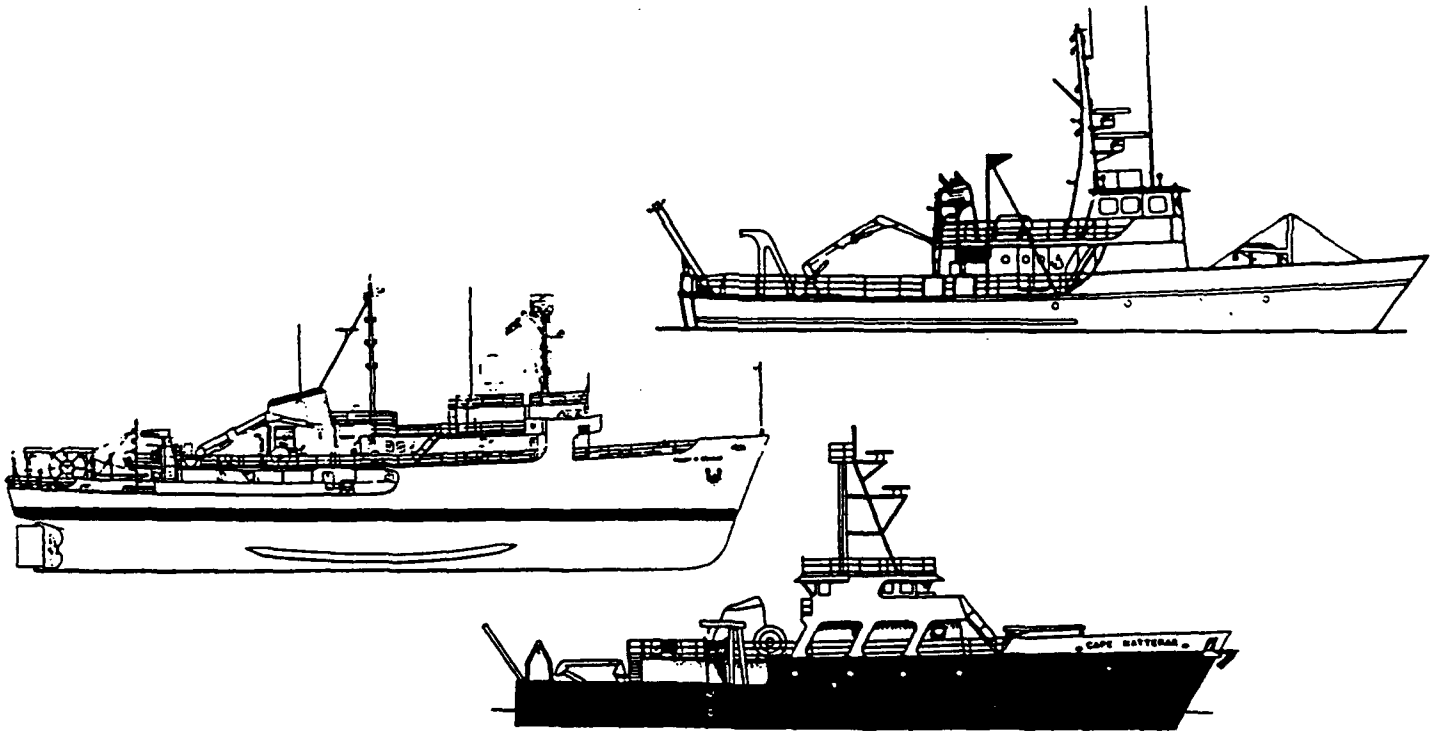
Naval Oceanographic Office
Stennis Space Center
Mississippi 39522-5001

Reference Publication
RP 53
January 1993

RP 53

NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS

NAVY·UNOLS·NOAA·UNIVERSITY·USCG·FEDERAL



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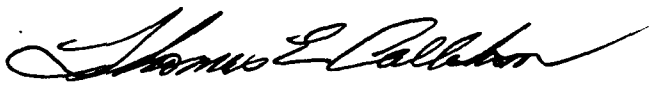
Prepared under the authority of
Commander,
Naval Oceanography Command

FOREWORD

The Naval Oceanographic Office (NAVOCEANO) is pleased to publish the second edition of the National Oceanographic Fleet Platform Characteristics. This document supersedes the RP 34 series that provided ship schedule information in addition to platform characteristics. Distribution is made to those individuals and activities involved in planning, scheduling, and coordinating U.S. oceanographic ship operations.

As ship operating expenses increase, efficiency of operations becomes a key ingredient for an effective national oceanographic program. To this end, efforts must be made to maximize the use of existing oceanographic platforms by "piggybacking" of projects, exchange of oceanographic data, and coordination of schedules. This publication serves as one means of assisting sponsoring activities and user organizations in effective management of national oceanographic assets.

In light of this effort, and recognizing that many ocean-capable vessels specifically configured for oceanographic research and hydrographic surveying exist in the private sector (representing a definite national asset), this edition includes platform characteristics of vessels operated by commercial concerns. An invitation is extended to other commercial concerns which operate specifically configured, deep-ocean-capable, oceanographic or hydrographic vessels to include their vessels in future editions.



THOMAS E. CALLAHAM
Captain, U.S. Navy
Commanding Officer

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	January 1993	Reference Publication

4. TITLE AND SUBTITLE
National Oceanographic Fleet Platform Characteristics

5. FUNDING NUMBERS

6. AUTHOR(S)

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
Naval Oceanographic Office
Stennis Space Center
MS 39522-5001

8. PERFORMING ORGANIZATION REPORT NUMBER
RP 53

9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)
Commander
Naval Oceanography Command
Stennis Space Center
MS 39529-5005

10. SPONSORING / MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES
This publication supersedes RP 34 series.

12a. DISTRIBUTION / AVAILABILITY STATEMENT
Approved for public release; distribution unlimited.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

This publication provides the national oceanographic fleet platform characteristics as of 1993. The data were derived from the latest inputs from the vessel operators.

14. SUBJECT TERMS
Oceanography, Oceanographic Ships

15. NUMBER OF PAGES
246

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UL

INTRODUCTION

This publication presents the 1993 platform characteristics for the national oceanographic fleet. Information is provided for over 90 ships which operate under various academic, governmental, or commercial organizations. Included with each ship is information on ship characteristics and engineering/deck equipment, and a point of contact.

The 1993 and future editions will not contain ship schedule information. This information will be available from an electronic bulletin board (OCEANIC) maintained at the University of Delaware and may be accessed by computer. This method will make available current schedule information which will be much more up to date than that previously published in the RP 34 series. The point of contact for the bulletin board is:

Katherine Bouton
College of Marine Studies
University of Delaware
Lewes, Delaware 19958
(302) 645-4278
FAX (302) 645-4007

Networks are available as follows:

Telemail: K. Bouton/OMNET
INTERNET: Bouton @ DELOCN.UDEC.EDU
Span: DELOCN::Bouton

Further information or assistance in accessing or inputting schedule information may be obtained from Katherine Bouton. All ship operators are highly encouraged to utilize this service.

For information on changes or modifications of vessel capabilities and related questions, please address correspondence to Commanding Officer, Naval Oceanographic Office (Attn: Operations Office), Stennis Space Center, MS 39522-5001, or call commercial (601) 688-4631/4370 or Defense Switch Network (DSN) 485-4631/4370. ADDITIONS OR CHANGES SHOULD BE FORWARDED TO THE NAVAL OCEANOGRAPHIC OFFICE BY 1 OCTOBER 1993 TO BE INCORPORATED IN NEXT YEAR'S EDITION.

PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES

The Defense Mapping Agency Hydrographic/Topographic Center (DMAHTC) is the point of contact for ship operations that use sonic emitters, towed devices, or explosive charges. Such operations present special hazards to submarine operation and navigation. DMAHTC has agreed to disseminate information concerning underwater hazards as part of the Notice to Mariners system. The intent of the reporting procedures is to eliminate mutual interference problems and equipment damage between ongoing and planned

operations by advising units at sea of surface and subsurface obstacles. The revised Notice to Mariners system relies on the cooperation of the maritime community (military, governmental, and commercial). Timely notification to DMAHTC is needed for all operations that install moored underwater instrumentation, tow or drag devices of any kind, or use sonic emitters or explosives. DMAHTC will disseminate information as follows:

a. For moored instrumentation in depths of 300 meters or less (the maximum depth where damage could result from normal fishing operations), information will be broadcast as a radio navigational warning and reprinted in Section III of the Notice to Mariners.

b. For moored instrumentation in depths greater than 300 meters, the information will not be broadcast. Documentation will be forwarded to appropriate Naval commands for their use.

c. For tow or drag devices of any kind, sonic emitters or explosives, the information will be broadcast as a radio navigational warning.

Commercial companies are not required to provide operational information to DMAHTC but are encouraged to do so. The DMAHTC point of contact for information and notification is Defense Mapping Agency Hydrographic/Topographic Center, (Attn: MCC Mail Stop D44), 4600 Sangamore Road, Bethesda, Maryland 20816-5003, commercial (301) 227-3147 or TELEX 898334, DMAHTC, Washington, DC. Military users may use Defense Switch Network (DSN) 287-3147 or AUTODIN message to DMAHTCNAVWARN WASHINGTON DC. Broadcast Watch operates 24 hours per day, seven days a week.

TABLE OF CONTENTS

PAGE

INTRODUCTION 1
PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES 1

ACADEMIC INSTITUTIONS - UNIVERSITY NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

UNIVERSITY OF ALASKA

ALPHA HELIX 3

UNIVERSITY OF DELAWARE

CAPE HENLOPEN 9

DUKE UNIVERSITY

CAPE HATTERAS 15

UNIVERSITY OF HAWAII

MOANA WAVE 21
KILA 25

JOHNS HOPKINS UNIVERSITY

RIDGELY WARFIELD 29

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION

EDWIN LINK 35
SEWARD JOHNSON 41

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

MAURICE EWING (formerly BERNIER) 47

LOUISIANA UNIVERSITIES MARINE CONSORTIUM

PELICAN 51

UNIVERSITY OF MIAMI

CALANUS 57
COLUMBUS ISELIN 63

TABLE OF CONTENTS (CONTINUED)

MOSS LANDING MARINE LABORATORIES

POINT SUR 67

OREGON STATE UNIVERSITY

WECOMA 73

UNIVERSITY OF RHODE ISLAND

ENDEAVOR 79

SCRIPPS INSTITUTE OF OCEANOGRAPHY

MELVILLE 83
NEW HORIZON 87
THOMAS WASHINGTON 93
FLIP 97
ORB 101
ROBERT GORDON SPROUL 105

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

BLUE FIN 111

UNIVERSITY OF SOUTHERN CALIFORNIA

JOHN V. VICKERS (formerly OSPREY) 115

TEXAS A&M UNIVERSITY

GYRE 119

UNIVERSITY OF TEXAS

LONGHORN 125

UNIVERSITY OF WASHINGTON

CLIFFORD A. BARNES 129
THOMAS G. THOMPSON 133

WOODS HOLE OCEANOGRAPHIC INSTITUTION

ATLANTIS II 141
KNORR 145
OCEANUS 151

UNIVERSITY OF MICHIGAN

LAURENTIAN 155

TABLE OF CONTENTS (CONTINUED)

BERMUDA BIOLOGICAL STATION FOR RESEARCH

WEATHERBIRD II 161

OLD DOMINION UNIVERSITY (ASSOCIATE UNOLS MEMBER)

LINWOOD HOLTON 167

OTHER OCEANOGRAPHIC SHIPS

GULF COAST RESEARCH LABORATORY

TOMMY MUNRO 171

MAINE MARITIME ACADEMY

ARGO MAINE 177

SEA EDUCATION ASSOCIATION

CORWITH CRAMER 183
WESTWARD 185

OTHER UNIVERSITY SHIPS 189

AQUALAB III
AQUARIUS
BELLOWS
C. A. DAMBACH
CORSAIR
DAN MOORE
DELAWARE BAY
DELPHINUS
EDGERTON
ENDLESS SEAS
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NORTH STAR
ONRUST
ORION
RETRIEVER
SEA DIVER
SEAHAWK
SUNCOASTER
TURSIOPS
UCONN
VANTUNA

TABLE OF CONTENTS (CONTINUED)

FEDERAL AGENCIES

DEPARTMENT OF DEFENSE, NAVAL OCEANOGRAPHIC OFFICE

USNS BARTLETT (T-AGOR 13) 193

DEPARTMENT OF DEFENSE, NAVAL UNDERWATER SYSTEMS CENTER

ERLINE 197

DEPARTMENT OF TRANSPORTATION, U.S. COAST GUARD

USCGC POLAR SEA 201
USCGC POLAR STAR 203

NATIONAL SCIENCE FOUNDATION

POLAR DUKE 205
NATHANIEL B. PALMER 207

DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ALBATROSS IV 209
MALCOLM BALDRIDGE 211
CHAPMAN 213
JOHN N. COBB 215
TOWNSEND CROMWELL 217
DAVIDSON 219
DELAWARE II 221
DISCOVERER 223
FAIRWEATHER 225
FERREL 227
MILLER FREEMAN 229
HECK 231
DAVID STARR JORDAN 233
MCARTHUR 235
MT. MITCHELL 237
MURRE II 239
OREGON II 241
PEIRCE 243
RAINIER 245
RUDE 247
SURVEYOR 249
WHITING 251

TABLE OF CONTENTS (CONTINUED)

DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY

USNS SAMUEL P. LEE 253

ENVIRONMENTAL PROTECTION AGENCY

LAKE GUARDIAN 255
PETER W. ANDERSON 257

This document supersedes RP 34 (91). Changes include:

- Ship schedules are available electronically and will no longer be a part of this publication.
- The 3-hole punch design is intended for addressees to retain this publication for the purpose of incorporating updates to the platform characteristics that will be distributed as required.

Please provide the following information to continue receiving the **NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS** publication. This information will be used to establish a mailing list for future editions and updates.

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Operations Office
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RP 53

NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS

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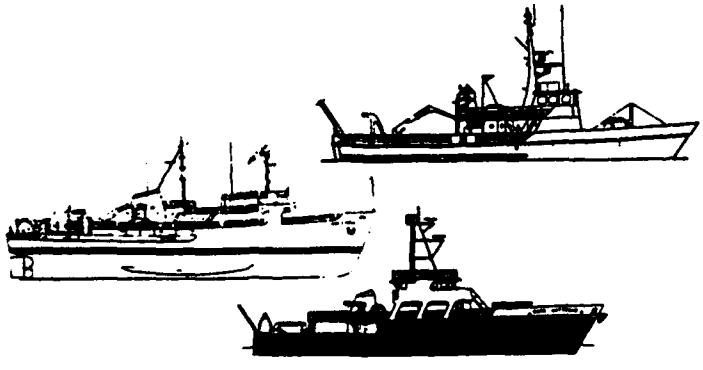

JANUARY 1993

SUPPLEMENTARY

INFORMATION

DEPARTMENT OF THE NAVY
NAVAL OCEANOGRAPHIC OFFICE
1002 BALCH BOULEVARD
STENNIS SPACE CENTER, MS 39522-5001

IN REPLY REFER TO:

Subj: CHANGES TO RP 53, "NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS"

Encl: (1) Change pages for RP 53 (7 pages)

1. Make changes to RP 53 as indicated below:

a. Replacement. Using enclosure (1),

(1) Remove front cover through page 2 and replace with new pages.

(2) Remove back cover and replace with new back cover.

b. Pen-and-ink changes. Annotate on page 193 "USNS BARTLETT no longer available. Ship has been transferred to the Royal Moroccan Navy."

2. The point of contact for this publication is Ms. Barbara Lee, DSN 446-8447 or commercial (601) 689-8447.

Naval Oceanographic Office

Stennis Space Center
MS 39522-5001

Reference Publication
RP 53
January 1994

RP 53

NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS

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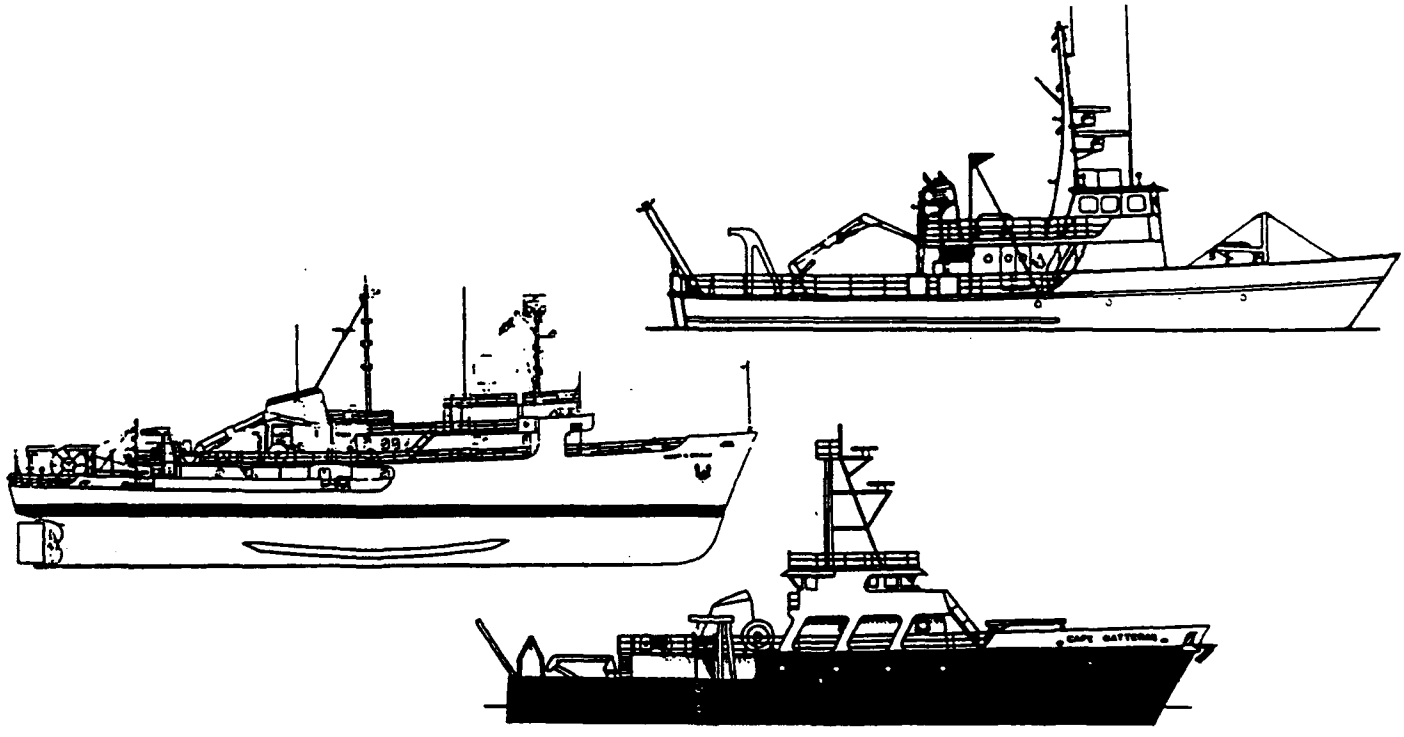

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Prepared under the authority of
**Commander
Naval Meteorology and
Oceanography Command**

FOREWORD

The Naval Oceanographic Office (NAVOCEANO) is pleased to publish the second edition of the National Oceanographic Fleet Platform Characteristics. This document supersedes the RP 34 series that provided ship schedule information in addition to platform characteristics. Distribution is made to those individuals and activities involved in planning, scheduling, and coordinating U.S. oceanographic ship operations.

As ship operating expenses increase, efficiency of operations becomes a key ingredient for an effective national oceanographic program. To this end, efforts must be made to maximize the use of existing oceanographic platforms by "piggybacking" of projects, exchange of oceanographic data, and coordination of schedules. This publication serves as one means of assisting sponsoring activities and user organizations in effective management of national oceanographic assets.

In light of this effort, and recognizing that many ocean-capable vessels specifically configured for oceanographic research and hydrographic surveying exist in the private sector (representing a definite national asset), this edition includes platform characteristics of vessels operated by commercial concerns. An invitation is extended to other commercial concerns which operate specifically configured, deep-ocean-capable, oceanographic or hydrographic vessels to include their vessels in future editions.

T. E. CALLAHAM
Captain, U.S. Navy
Commanding Officer

This document supersedes RP 34 (91). Changes include:

- Ship schedules are available electronically and will no longer be a part of this publication.
- The 3-hole punch design is intended for addressees to retain this publication for the purpose of incorporating updates to the platform characteristics that will be distributed as required.

Please provide the following information to continue receiving the **NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS** publication. This information will be used to establish a mailing list for future editions and updates.

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RP 53

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Please Fold Along Dashed Lines, Tape, and Mail

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. AGENCY USE ONLY *(Leave blank)*	2. REPORT DATE	3. REPORT TYPE AND DATES COVERED
	January 1994	Reference Publication

4. TITLE AND SUBTITLE
NATIONAL OCEANOGRAPHIC FLEET PLATFORM CHARACTERISTICS

5. FUNDING NUMBERS

6. AUTHOR(S)

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
Naval Oceanographic Office
1002 Balch Boulevard
Stennis Space Center, MS 39522-5001

8. PERFORMING ORGANIZATION REPORT NUMBER
RP 53

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)
Commander
Naval Meteorology and Oceanography Command
1020 Balch Boulevard
Stennis Space Center, MS 39529-5005

10. SPONSORING/MONITORING AGENCY REPORT NUMBER

11. SUPPLEMENTARY NOTES
This publication supersedes RP 34 series

12a. DISTRIBUTION/AVAILABILITY STATEMENT
Approved for public release; distribution unlimited.

12b. DISTRIBUTION CODE

13. ABSTRACT *(Maximum 200 words)*

This publication provides the national oceanographic fleet platform characteristics as of 1994. The data were derived from the latest inputs from the vessel operators.

14. SUBJECT TERMS
Oceanography, Oceanographic Ships

15. NUMBER OF PAGES
246

16. PRICE CODE

17. SECURITY CLASSIFICATION OF REPORT	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT
UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED	UL

TABLE OF CONTENTS

PAGE

INTRODUCTION 1
PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES 1

ACADEMIC INSTITUTIONS - UNIVERSITY NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM

UNIVERSITY OF ALASKA

ALPHA HELIX 3

UNIVERSITY OF DELAWARE

CAPE HENLOPEN 9

DUKE UNIVERSITY

CAPE HATTERAS 15

UNIVERSITY OF HAWAII

MOANA WAVE 21
KILA 25

JOHNS HOPKINS UNIVERSITY

RIDGELY WARFIELD 29

HARBOR BRANCH OCEANOGRAPHIC INSTITUTION

EDWIN LINK 35
SEWARD JOHNSON 41

LAMONT-DOHERTY GEOLOGICAL OBSERVATORY

MAURICE EWING (formerly BERNIER) 47

LOUISIANA UNIVERSITIES MARINE CONSORTIUM

PELICAN 51

UNIVERSITY OF MIAMI

CALANUS 57
COLUMBUS ISELIN 63

TABLE OF CONTENTS (CONTINUED)

MOSS LANDING MARINE LABORATORIES

POINT SUR 67

OREGON STATE UNIVERSITY

WECOMA 73

UNIVERSITY OF RHODE ISLAND

ENDEAVOR 79

SCRIPPS INSTITUTE OF OCEANOGRAPHY

MELVILLE 83
NEW HORIZON 87
THOMAS WASHINGTON 93
FLIP 97
ORB 101
ROBERT GORDON SPROUL 105

SKIDAWAY INSTITUTE OF OCEANOGRAPHY

BLUE FIN 111

UNIVERSITY OF SOUTHERN CALIFORNIA

JOHN V. VICKERS (formerly OSPREY) 115

TEXAS A&M UNIVERSITY

GYRE 119

UNIVERSITY OF TEXAS

LONGHORN 125

UNIVERSITY OF WASHINGTON

CLIFFORD A. BARNES 129
THOMAS G. THOMPSON 133

WOODS HOLE OCEANOGRAPHIC INSTITUTION

ATLANTIS II 141
KNORR 145
OCEANUS 151

UNIVERSITY OF MICHIGAN

LAURENTIAN 155

TABLE OF CONTENTS (CONTINUED)

BERMUDA BIOLOGICAL STATION FOR RESEARCH

WEATHERBIRD II 161

OLD DOMINION UNIVERSITY (ASSOCIATE UNOLS MEMBER)

LINWOOD HOLTON 167

OTHER OCEANOGRAPHIC SHIPS

GULF COAST RESEARCH LABORATORY

TOMMY MUNRO 171

MAINE MARITIME ACADEMY

ARGO MAINE 177

SEA EDUCATION ASSOCIATION

CORWITH CRAMER 183
WESTWARD 185

OTHER UNIVERSITY SHIPS 189

AQUALAB III
AQUARIUS
BELLOWS
C. A. DAMBACH
CORSAIR
DAN MOORE
DELAWARE BAY
DELPHINUS
EDGERTON
ENDLESS SEAS
G. A. ROUNSEFELL
GULF RESEARCHER
HOBART & WILLIAM SMITH EXPLORER
ISLA MAGUEYES
NEESKAY
NORTH STAR
ONRUST
ORION
RETRIEVER
SEA DIVER
SEAHAWK
SUNCOASTER
TURSIOPS
UCONN
VANTUNA

TABLE OF CONTENTS (CONTINUED)

FEDERAL AGENCIES

DEPARTMENT OF DEFENSE, NAVAL UNDERWATER SYSTEMS CENTER

ERLINE 197

DEPARTMENT OF TRANSPORTATION, U.S. COAST GUARD

USCGC POLAR SEA 201
USCGC POLAR STAR 203

NATIONAL SCIENCE FOUNDATION

POLAR DUKE 205
NATHANIEL B. PALMER 207

DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

ALBATROSS IV 209
MALCOLM BALDRIDGE 211
CHAPMAN 213
JOHN N. COBB 215
TOWNSEND CROMWELL 217
DAVIDSON 219
DELAWARE II 221
DISCOVERER 223
FAIRWEATHER 225
FERREL 227
MILLER FREEMAN 229
HECK 231
DAVID STARR JORDAN 233
MCARTHUR 235
MT. MITCHELL 237
MURRE II 239
OREGON II 241
PEIRCE 243
RAINIER 245
RUDE 247
SURVEYOR 249
WHITING 251

DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY

USNS SAMUEL P. LEE 253

ENVIRONMENTAL PROTECTION AGENCY

LAKE GUARDIAN 255
PETER W. ANDERSON 257

INTRODUCTION

This publication presents the 1994 platform characteristics for the national oceanographic fleet. Information is provided for over 90 ships which operate under various academic, governmental, or commercial organizations. Included with each ship is information on ship characteristics and engineering/deck equipment, and a point of contact.

The 1994 and future editions will not contain ship schedule information. This information will be available from an electronic bulletin board (OCEANIC) maintained at the University of Delaware and may be accessed by computer. This method will make available current schedule information which will be much more up to date than that previously published in the RP 34 series. The point of contact for the bulletin board is:

Katherine Bouton
College of Marine Studies
University of Delaware
Lewes, Delaware 19958
(302) 645-4278
FAX (302) 645-4007

Networks are available as follows:

Telemail: K. Bouton/OMNET
INTERNET: Bouton @ DELOCN.UDEC.EDU
Span: DELOCN::Bouton

Further information or assistance in accessing or inputting schedule information may be obtained from Katherine Bouton. All ship operators are highly encouraged to utilize this service.

For information on changes or modifications of vessel capabilities and related questions, please address correspondence to Commanding Officer, Naval Oceanographic Office (Attn: Operations Office), Stennis Space Center, MS 39522-5001, or call commercial (601) 688-4631/4370 or Defense Switch Network (DSN) 485-4631/4370. ADDITIONS OR CHANGES SHOULD BE FORWARDED TO THE NAVAL OCEANOGRAPHIC OFFICE BY 1 OCTOBER 1994 TO BE INCORPORATED IN NEXT YEAR'S EDITION.

PROCEDURES FOR REPORTING SURFACE AND SUBSURFACE OBSTACLES

The Defense Mapping Agency Hydrographic/Topographic Center (DMAHTC) is the point of contact for ship operations that use sonic emitters, towed devices, or explosive charges. Such operations present special hazards to submarine operation and navigation. DMAHTC has agreed to disseminate information concerning underwater hazards as part of the Notice to Mariners system. The intent of the reporting procedures is to eliminate mutual interference problems and equipment damage between ongoing and planned

operations by advising units at sea of surface and subsurface obstacles. The revised Notice to Mariners system relies on the cooperation of the maritime community (military, governmental, and commercial). Timely notification to DMAHTC is needed for all operations that install moored underwater instrumentation, tow or drag devices of any kind, or use sonic emitters or explosives. DMAHTC will disseminate information as follows:

a. For moored instrumentation in depths of 300 meters or less (the maximum depth where damage could result from normal fishing operations), information will be broadcast as a radio navigational warning and reprinted in Section III of the Notice to Mariners.

b. For moored instrumentation in depths greater than 300 meters, the information will not be broadcast. Documentation will be forwarded to appropriate Naval commands for their use.

c. For tow or drag devices of any kind, sonic emitters or explosives, the information will be broadcast as a radio navigational warning.

Commercial companies are not required to provide operational information to DMAHTC but are encouraged to do so. The DMAHTC point of contact for information and notification is Defense Mapping Agency Hydrographic/Topographic Center, (Attn: MCC Mail Stop D44), 4600 Sangamore Road, Bethesda, Maryland 20816-5003, commercial (301) 227-3147 or TELEX 898334, DMAHTC, Washington, DC. Military users may use Defense Switch Network (DSN) 287-3147 or AUTODIN message to DMAHTCNAVWARN WASHINGTON DC. Broadcast Watch operates 24 hours per day, seven days a week.