

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Chart listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions. Positions are shown as degrees, minutes, seconds and hemisphere. Data is current as of 56 days prior to the date of this publication.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact Flight Service for route dimensions and current status for those routes affecting your flight.

## BALTIMORE–WASHINGTON HELICOPTER ROUTE CHART

10th Edition, 23 Jul 2015

### OBSTRUCTIONS

20 Aug 2015 – 26 May 2016 No Major Changes.

21 Jul 2016 Add obst 824' MSL (497' AGL) UC, 38°55'35"N, 77°12'46"W.

15 Sep 2016 – 5 Jan 2017 No major changes.

### AIRPORTS

20 Aug 2015 – 15 Oct 2015 No Major Changes.

10 Dec 2015 Delete GLASCOCK arpt, 38°56'32"N, 77°32'32"W.

4 Feb 2016 – 15 Sep 2016 No Major Changes.

10 Nov 2016 Add CTAF 122.9 at FORT BELVOIR COMMUNITY HOSPITAL heliport, 38°42'24"N, 77°08'42"W

5 Jan 2017 No Major Changes.

### NAVAIDS

20 Aug 2015 – 5 Jan 2017 No Major Changes.

### AIRSPACE

20 Aug 2015 Change REAGAN NATIONAL Class B freqs from 119.85 319.1 (W) to 119.85 319.1 (W/S).

15 Oct 2015 – 5 Jan 2017 No Major Changes

### SPECIAL USE AIRSPACE

20 Aug 2015 – 5 Jan 2017 No Major Changes.

### MILITARY TRAINING ROUTES

20 Aug 2015 – 5 Jan 2017 No Major Changes.

### MISCELLANEOUS

20 Aug 2015 – 5 Jan 2017 No Major Changes.

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**BALTIMORE–WASHINGTON TERMINAL AREA CHART**  
**93rd Edition, 21 Jul 2016**

**OBSTRUCTIONS**

21 Jul 2016 – 15 Sep 2016 No Major Changes.

10 Nov 2016 Add obst 609´MSL (395´AGL), 38°12´47"N, 77°27´32"W.

5 Jan 2017 Add obst 484´MSL (373´AGL), 38°16´13"N, 76°36´21"W.

**AIRPORTS**

21 Jul 2016 – 10 Nov 2016 No Major Changes.

5 Jan 2017 Delete SMITH FIELD arpt, 39°20´16"N, 76°05´53"W.

Delete KENNERSLEY arpt, 39°08´41"N, 76°02´26"W.

Delete KRASTEL arpt, 39°18´32"N, 75°59´16"W.

**NAVAIDS**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**AIRSPACE**

21 Jul 2016 – 5 Jan 2017 No Major Changes

**SPECIAL USE AIRSPACE**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**MILITARY TRAINING ROUTES**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**MISCELLANEOUS**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

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**BOSTON HELICOPTER ROUTE CHART**  
**7th Edition, 13 Nov 2014**

**OBSTRUCTIONS**

13 Nov 2014 – 21 Jul 2016 No Major Changes.

15 Sep 2016 Add obst 463´MSL (449´AGL), 42°21´57"N, 71°03´48"W.

10 Nov 2016 – 5 Jan 2017 No Major Changes.

**AIRPORTS**

13 Nov 2014 – 5 Mar 2015 No Major Changes.

30 Apr 2015 Delete SHERMAN arpt, 42°04´30"N, 70°47´53"W.

25 Jun 2015 – 4 Feb 2016 No Major Changes.

31 Mar 2016 Delete COMPAQ PARKER STREET heliport, 42°25´06"N, 71°26´50"W.

26 May 2016 – 5 Jan 2017 No Major Changes.

**NAVAIDS**

13 Nov 2014 – 30 Apr 2015 No Major Changes.

25 Jun 2015 Shutdown LYNDY NDB, 42°27´07"N, 70°57´48"W.

20 Aug 2015 Delete LYNDY NDB, 42°27´07"N, 70°57´48"W.

15 Oct 2015 – 31 Mar 2016 No Major Changes.

26 May 2016 Delete MANSFIELD NDB, 42°00´09"N, 71°11´49"W

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**AIRSPACE**

13 Nov 2014 – 5 Jan 2017 No Major Changes.

**SPECIAL USE AIRSPACE**

13 Nov 2014 – 5 Jan 2017 No Major Changes.

**MILITARY TRAINING ROUTES**

13 Nov 2014 – 5 Jan 2017 No Major Changes.

**MISCELLANEOUS**

13 Nov 2014 – 5 Jan 2017 No Major Changes.

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**BOSTON TERMINAL AREA CHART**  
**89th Edition, 10 Nov 2016**
**OBSTRUCTIONS**

10 Nov 2016 – 5 Jan 2017 No Major Changes

**AIRPORTS**

10 Nov 2016 – 5 Jan 2017 No Major Changes

**NAVAIDs**

10 Nov 2016 – 5 Jan 2017 No Major Changes

**AIRSPACE**

10 Nov 2016 – 5 Jan 2017 No Major Changes

**SPECIAL USE AIRSPACE**

10 Nov 2016 – 5 Jan 2017 No Major Changes

**MILITARY TRAINING ROUTES**

10 Nov 2016 – 5 Jan 2017 No Major Changes

**MISCELLANEOUS**

10 Nov 2016 – 5 Jan 2017 No Major Changes

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**CINCINNATI SECTIONAL**  
**97th Edition, 8 Dec 2016**
**OBSTRUCTIONS**

5 Jan 2017 Add obst 1571' MSL (310' AGL), 36°58'22"N, 84°03'51"W.

Add obst 1466' MSL (410' AGL), 37°38'06"N, 82°44'24"W.

Add obst 1556' MSL (310' AGL), 37°29'29"N, 83°21'34"W.

Add obst 1488' MSL (310' AGL), 37°27'03"N, 83°22'18"W.

Add obst 1593' MSL (310' AGL), 37°24'05"N, 83°23'26"W.

Add obst 2316' MSL (310' AGL), 37°24'03"N, 82°40'05"W.

Add obst 1649' MSL (360' AGL), 37°38'10"N, 83°09'37"W.

Add obst 1689' MSL (306' AGL), 39°53'48"N, 80°04'28"W. Add obst 2205' MSL (406' AGL), 37°53'08"N, 81°33'19"W.

Add obst 1660' MSL (310' AGL), 36°48'33"N, 83°16'07"W.

Add obst 1525' MSL (310' AGL), 37°57'10"N, 82°59'40"W.

Add obst 1867' MSL (310' AGL), 37°24'34"N, 82°24'58"W.

Add obst 2240' MSL (207' AGL), 37°53'44"N, 81°37'18"W.

Add obst 1492' MSL (310' AGL), 37°55'08"N, 83°02'40"W.

Add obst 1554' MSL (310' AGL), 37°57'33"N, 83°02'32"W.

Add obst 3255' MSL (427' AGL), 39°17'06"N, 79°05'30"W. Add obst 1831' MSL (310' AGL), 37°20'46"N, 83°24'29"W.

Add obst 480' MSL (250' AGL), 36°09'16"N, 77°56'01"W.

**AIRPORTS**

5 Jan 2017 Change AWOS-3 freq at HARDY CONNELLSVILLE arpt from 133.32 to 133.325, 39°57'32"N, 79°39'26"W.

Delete RP \* at COLUMBUS SOUTHWEST arpt, 39°54'40"N, 83°11'19"W.

**NAVAIDs**

5 Jan 2017 No Major Changes.

**AIRSPACE**

5 Jan 2017 No Major Changes.

**SPECIAL USE AIRSPACE**

5 Jan 2017 No Major Changes.

**MILITARY TRAINING ROUTES**

5 Jan 2017 No Major Changes.

**MISCELLANEOUS**

5 Jan 2017 No Major Changes.

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**DETROIT SECTIONAL**  
**93rd Edition, 15 Sep 2016****OBSTRUCTIONS**

**15 Sep 2016 – 10 Nov 2016** No Major Changes.

**5 Jan 2017** Add obst 1188' MSL (492' AGL), 43°59'01"N, 82°54'06"W.

Add obst 1379' MSL (310' AGL), 40°52'11"N, 82°26'13"W.

Add obst 861' MSL (512' AGL), 43°38'47"N, 79°31'32"W.

Add obst 1690' MSL (480' AGL), 44°10'31"N, 78°37'50"W.

Add obst 2365' MSL (305' AGL), 42°28'27"N, 77°53'40"W.

Add obst 985' MSL (250' AGL), 43°04'09"N, 84°03'46"W.

Add obst 949' MSL (250' AGL), 43°48'28"N, 84°21'57"W.

Add obst 1243' MSL (497' AGL), 41°06'56"N, 84°45'14"W.

**AIRPORTS**

**15 Sep 2016** No Major Changes.

**10 Nov 2016** Delete AUGUST ACRES arpt, 40°09'45"N, 82°46'55"W.

Delete CIRCLE U heliport, 43°29'29"N, 82°37'25"W.

**5 Jan 2017** Change DETROIT METRO WAYNE CO ATCT freq 118.4 (EAST) to 118.4 (RYS 03R, 09R, 21L & 27R) and change ATCT freq 135.0 (WEST) to 135.0 (RYS 04L, 09L & 22R) and add ATCT freq 128.125 (RYS 04R & 22L) and add ATCT freq 128.75 (RYS 03L, 21R & 27L), 42°12'45"N, 83°21'12"W.

Delete WEIKER arpt, 41°13'45"N, 83°01'45"W. Delete PAULDING arpt, 41°10'12"N, 84°33'19"W. Delete PROVIDENCE heliport, 41°26'13"N, 82°42'45"W.

Delete MIDDLEBURY arpt, 41°50'52"N, 77°16'53"W.

Delete JAMES arpt, 40°33'54"N, 78°21'21"W.

**NAVAIDS**

**15 Sep 2016** No Major Changes.

**10 Nov 2016** Delete ALLEN CO VOR, 40°42'26"N, 83°58'05"W.

Delete HOWELL NDB, 42°38'00"N, 83°58'57"W.

Delete AVON NDB, 43°00'36"N, 77°46'09"W.

**5 Jan 2017** Shutdown LANSING VORTAC, 42°43'03"N, 84°41'51"W.

**AIRSPACE**

**15 Sep 2016** No Major Changes.

**10 Nov 2016** Revise ALMA, MI Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of Gratiot Community Airport, and within 2.0 miles either side of a 270° bearing from the airport extending from the 6.5-mile radius to 10.1 miles west of the airport, and within 1.5 miles either side of the Mount Pleasant VOR/DME 178° radial extending from the 6.5-mile radius to 10.3 miles north of the airport. Revise GLADWIN, MI Class E: That airspace extending upward from 700 feet above the surface within a 6.5-mile radius of the Charles C. Zettel Memorial Airport.

Revise INDIANA, PA Class E: That airspace extending upward from 700 feet above the surface within an 8.2-mile radius of Indiana County Airport (Jimmy Stewart Field), and within 2-miles each side of the 096° bearing of the airport, extending from the 8.2-mile radius to 13.6 miles east of the airport.

**5 Jan 2017** No Major Changes.

**SPECIAL USE AIRSPACE**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**MILITARY TRAINING ROUTES**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**MISCELLANEOUS**

**15 Sep 2016 – 10 Nov 2016** No Major Changes.

**5 Jan 2017** Change MEF 1<sup>7</sup> to 1<sup>8</sup> in quadrant 44°00'–44°30' N, 78°30'–79°00' W.

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**HALIFAX SECTIONAL**  
**95th Edition, 18 Aug 2016****OBSTRUCTIONS**

**15 Sep 2016** No Major Changes.

**10 Nov 2016** Add obst 877' MSL (300' AGL), 45°20'17"N, 67°20'03"W.

**5 Jan 2017** No Major Changes.

**AIRPORTS**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**NAVAIDS**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**AIRSPACE**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**SPECIAL USE AIRSPACE**

**15 Sep 2016** No Major Changes.

**10 Nov 2016** Revise CYR717 HALIFAX, NS: That airspace within the area bounded by a circle of 0.75 miles radius centered on 44°42'43"N, 63°38'04"W

Designated altitude: sfc to 1700'

Time of Use: Continuous

Controlling Agency: Moncton ACC

**5 Jan 2017** No Major Changes.

**MILITARY TRAINING ROUTES**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**MISCELLANEOUS**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

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## MONTREAL SECTIONAL

### 95th Edition, 18 Aug 2016

**OBSTRUCTIONS**

**15 Sep 2016** Add obst 485' MSL (300' AGL), 44°57'57"N, 74°38'31"W.  
Change wind turbine farm highest MSL from 2110' MSL to 2272' MSL, 45°09'33"N, 69°39'18"W.

**10 Nov 2016** Add obst 1066' MSL (344' AGL), 46°36'03"N, 72°43'30"W.  
Add obst 804' MSL (312' AGL), 46°19'13"N, 71°39'19"W.  
Add obst 1434' MSL (312' AGL), 45°59'21"N, 73°55'02"W.  
Add obst 1119' MSL (312' AGL), 45°37'52"N, 76°03'07"W.  
Add obst 1460' MSL (312' AGL), 46°04'54"N, 70°56'41"W.  
Add obst 927' MSL (315' AGL), 46°47'53"N, 72°17'32"W.  
Add obst 1509' MSL (312' AGL), 46°09'08"N, 70°52'50"W.  
Add obst 1339' MSL (312' AGL), 45°42'50"N, 71°28'23"W.  
Add obst 1050' MSL (312' AGL), 45°34'55"N, 71°35'22"W.  
Add obst 1224' MSL (295' AGL), 46°34'17"N, 75°30'38"W.

**5 Jan 2017** Add obst 1313' MSL (295' AGL), 46°16'04"N, 76°02'14"W.  
Add RP 15 to Joliette arpt, 46°02'41"N, 73°30'06"W.

**AIRPORTS**

**15 Sep 2016 – 10 Nov 2016** No Major Changes.  
**5 Jan 2017** Delete MASCOUCHE, QC, arpt, 45°43'07"N, 73°35'53"W.

**NAVAIDS**

**15 Sep 2016** No Major Changes.  
**10 Nov 2016**  
Delete PLATTSBURGH VORTAC, 44°41'06"N, 73°31'22"W.  
**5 Jan 2017** No Major Changes.

**AIRSPACE**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**SPECIAL USE AIRSPACE**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**MILITARY TRAINING ROUTES**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

**MISCELLANEOUS**

**15 Sep 2016 – 5 Jan 2017** No Major Changes.

## NEW YORK HELICOPTER ROUTE CHART

### 11th Edition, 28 Apr 2016

**OBSTRUCTIONS**

**26 May 2016** No Major Changes.  
**21 Jul 2016** Add obst 819' MSL (521' AGL), 40°51'09"N, 73°58'01"W.  
**15 Sep 2016 – 10 Nov 2016** No Major Changes.  
**5 Jan 2017** Add obst 842' MSL (752' AGL) UC, 40°43'56"N, 74°03'39"W.

**AIRPORTS**

**26 May 2016 – 5 Jan 2017** No Major Changes.

**NAVAIDS**

**26 May 2016 – 5 Jan 2017** No Major Changes.

**AIRSPACE**

**26 May 2016 – 5 Jan 2017** No Major Changes.

**SPECIAL USE AIRSPACE**

**26 May 2016 – 5 Jan 2017** No Major Changes.

**MILITARY TRAINING ROUTES**

**26 May 2016 – 5 Jan 2017** No Major Changes.

**MISCELLANEOUS**

**26 May 2016 – 5 Jan 2017** No Major Changes.

**NEW YORK SECTIONAL**  
**94th Edition, 10 Nov 2016****OBSTRUCTIONS****10 Nov 2016** No Major Changes**5 Jan 2017** Add obst 842' MSL (752' AGL)UC, 40°43'56"N, 74°03'39"W.**AIRPORTS****10 Nov 2016** No Major Changes**5 Jan 2017** Delete PERL ACRES arpt, 40°09'10"N, 74°27'18"W.

WESTERLO arpt abandoned, 42°31'12"N, 74°01'44"W.

**NAVAIDS****10 Nov 2016 – 5 Jan 2017** No Major Changes**AIRSPACE****10 Nov 2016 – 5 Jan 2017** No Major Changes**SPECIAL USE AIRSPACE****10 Nov 2016 – 5 Jan 2017** No Major Changes**MILITARY TRAINING ROUTES****10 Nov 2016 – 5 Jan 2017** No Major Changes**MISCELLANEOUS****10 Nov 2016 – 5 Jan 2017** No Major Changes

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**NEW YORK TERMINAL AREA CHART**  
**92nd Edition, 10 Nov 2016****OBSTRUCTIONS****10 Nov 2016** No Major Changes**5 Jan 2017** Add obst 842' MSL (752' AGL)UC, 40°43'56"N, 74°03'39"W.**AIRPORTS****10 Nov 2016 – 5 Jan 2017** No Major Changes**NAVAIDS****10 Nov 2016 – 5 Jan 2017** No Major Changes**AIRSPACE****10 Nov 2016 – 5 Jan 2017** No Major Changes**SPECIAL USE AIRSPACE****10 Nov 2016 – 5 Jan 2017** No Major Changes**MILITARY TRAINING ROUTES****10 Nov 2016 – 5 Jan 2017** No Major Changes**MISCELLANEOUS****10 Nov 2016 – 5 Jan 2017** No Major Changes

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**PHILADELPHIA TERMINAL AREA CHART**  
**84th Edition, 21 Jul 2016**

**OBSTRUCTIONS**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**AIRPORTS**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**NAVAIDS**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**AIRSPACE**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**SPECIAL USE AIRSPACE**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**MILITARY TRAINING ROUTES**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

**MISCELLANEOUS**

21 Jul 2016 – 5 Jan 2017 No Major Changes.

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**PITTSBURGH TERMINAL AREA CHART**  
**86th Edition, 15 Sep 2016**

**OBSTRUCTIONS**

15 Sep 2016 – 5 Jan 2017 No Major Changes.

**AIRPORTS**

15 Sep 2016 – 5 Jan 2017 No Major Changes.

**NAVAIDS**

15 Sep 2016 – 5 Jan 2017 No Major Changes.

**AIRSPACE**

15 Sep 2016 – 5 Jan 2017 No Major Changes.

**SPECIAL USE AIRSPACE**

15 Sep 2016 – 5 Jan 2017 No Major Changes.

**MILITARY TRAINING ROUTES**

15 Sep 2016 – 5 Jan 2017 No Major Changes.

**MISCELLANEOUS**

15 Sep 2016 – 5 Jan 2017 No Major Changes.

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**WASHINGTON SECTIONAL**  
**100th Edition, 21 Jul 2016**

**OBSTRUCTIONS****21 Jul 2016** No Major Changes.**15 Sep 2016** Add obst 606' MSL (270' AGL), 38°09'08"N, 77°52'02"W  
Add obst 803' MSL (310' AGL), 36°52'52"N, 78°23'14"W.**10 Nov 2016** Add obst 510' MSL (499' AGL), 36°20'02"N, 76°20'46"W.  
Add obst 609' MSL (395' AGL), 38°12'47"N, 77°27'32"W.**5 Jan 2017** Add obst 484' MSL (373' AGL), 38°16'13"N, 76°36'21"W.  
Add wind turbine farm. 513' is highest MSL, 36°20'31"N, 76°21'20"W.  
Add wind turbine farm. 513' is highest MSL, 36°17'20"N, 76°25'47"W.**AIRPORTS****21 Jul 2016** No Major Changes.**15 Sep 2016** Change CTAF 122.975 to 122.725 at HAMPTON ROADS EXEC arpt, 36°46'51"N, 76°27'05"W.**10 Nov 2016** No Major changes.**5 Jan 2017** Delete PERL ACRES arpt, 40°09'10"N, 74°27'18"W.

COFFMAN FIELD arpt abandoned, 37°41'39"N, 77°39'42"W.

Delete KENNERSLEY arpt, 39°08'41"N, 76°02'26"W.

Delete KRASTEL arpt, 39°18'32"N, 75°59'16"W.

**NAVAIDS****21 Jul 2016 – 5 Jan 2017** No Major Changes.**AIRSPACE****21 Jul 2016 – 5 Jan 2017** No Major Changes.**SPECIAL USE AIRSPACE****21 Jul 2016 – 10 Nov 2016** No Major Changes.**5 Jan 2017** Add CHINCOTEAGUE INLET, VA Restricted area R-6604C. Beginning at 37°56'57"N, 75°28'37"W; to 37°56'54"N, 75°26'56"W; to 37°56'23"N, 75°26'46"W; to 37°56'45"N, 75°27'29"W; to 37°55'15"N, 75°28'23"W; to 37°55'15"N, 75°28'39"W; to 37°56'32"N, 75°29'18"W; to the point of beginning. Designated altitudes. Surface to 3,500 feet MSL. Time of designation. By NOTAM at least 12 hours in advance. Controlling agency. FAA, Washinton ARTCC.

Add CHINCOTEAGUE INLET, VA Restricted area R-6604D. Beginning at 38°01'42"N, 75°29'28"W; to 38°07'12"N, 75°14'48"W; to 38°04'36"N, 75°08'07"W; thence along a line 3-NM from and parallel to the shoreline to 37°51'31"N, 75°17'16"W; to 37°56'45"N, 75°27'29"W; to 37°53'55"N, 75°29'11"W; to 37°55'40"N, 75°33'27"W; to the point of beginning; excluding R-6604C. Designated altitudes. 100 feet AGL to 3,500 feet MSL. Time of designation. By NOTAM at least 12 hours in advance. Controlling agency. FAA, Washinton ARTCC.

Add CHINCOTEAGUE INLET, VA Restricted area R-6604E. Beginning at 37°55'40"N, 75°33'27"W; to 37°53'55"N, 75°29'11"W; to 37°50'24"N, 75°31'19"W; to 37°39'20"N, 75°31'19"W; to 37°38'57"N, 75°31'31"W; to 37°46'55"N, 75°39'13"W; to the point of beginning. Designated altitudes. 700 feet AGL to 3,500 feet MSL. Time of designation. By NOTAM at least 12 hours in advance. Controlling agency. FAA, Washinton ARTCC.

**MILITARY TRAINING ROUTES****21 Jul 2016 – 5 Jan 2017** No Major Changes.**MISCELLANEOUS****21 Jul 2016 – 5 Jan 2017** No Major Changes.

## 2017 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2017, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of Aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2017 aerial demonstration locations, subject to change without notice are:

DATE		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
February	26	Daytona Beach, FL			
March	5	Las Vegas, NV			
	11		NAF El Centro, CA		
	11-12	Titusville, FL			
	18-19	Waco, TX	NAWS China Lake, CA		
	25-26	Lancaster, CA			
April	1-2	Melbourne, FL	NAS Corpus Christi, TX		
	8	Maxwell AFB, AL			
	8-9		Lakeland, FL		
	22-23	Tyndall AFB, FL	NAS New Orleans, LA		
	29-30	Lake Charles, LA	MCAS Beaufort, SC		
May	6-7	Travis AFB, CA	Barksdale, LA		
	13-14	Pittsburgh, PA	Millington, TN		
	20-21	Tinker AFB, OK	Seymour Johnson AFB, NC		
	24		US Naval Academy, MD		
	26		US Naval Academy, MD		
	27-28	Wentagh (Jones Beach), NY	Millville, NJ		
June	1	USAF Academy, CO			
	3-4	Grand Junction, CO	Duluth, MN		
	10-11	Rockford, IL			
	17-18	Youngstown ARB, OH	Ocean City, MD		
	24-25	Dayton, OH	Latrobe, PA		
July	1-2	Traverse City, MI	Offutt AFB, NE		
	8		Pensacola Beach, FL		
	8-9	Gary, IN			
	15-16		Milwaukee, WI		
	22-23	Great Falls, MT	Idaho Falls, ID		
	26	Cheyenne, WY			
	29-30	Fairchild, WA	Oshkosh, WI		
August	5-6		Seattle, WA		
	12-13	Westfield, MA			
	19-20	Selfridge ANG, MI	Chicago, IL		
	23	Atlantic City, NJ			
	26-27	Dover AFB, DE	Brunswick, ME		
September	2-4	Cleveland, OH	Ypsilanti, MI		
	9-10	Altus AFB, OK	NAS Oceana, VA		
	16-17	JB Andrews, MD	Lincoln, AL		
	23-24	Colorado Springs, CO	MCAS Miramar, CA		
	30		Durango, CO		
October	1		Durango, CO		
	7-8	Minden, NV	San Francisco, CA		
	14-15	Phoenix (Speedway), AZ	MCB Hawaii, HI		
	21-22	Houston, TX	Rome, GA		
	28-29	Moody AFB, GA	Fort Worth, TX		
November	4-5	JB San Antonio Lackland Kelly, TX	NAS Jacksonville, FL		
	11-12	Nellis AFB, NV	NAS Pensacola, FL		

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding any airspace restrictions.

### SPACE LAUNCH ACTIVITY AREAS

The following tabulation lists all of the space launch activity areas where federally licensed or permitted commercial space transportation operations occur. A space launch activity area is an area where hazardous operations might occur and are depicted on the appropriate visual charts for pilot awareness. The exact location and size of the hazard area and effective time of operation vary—NOTAMS are issued for the space launch activity area prior to every federally licensed or permitted launch or reentry activity. Note that in the description section, some space launch activity areas do not have any licensed or permitted operations, while others only have vertical launches from launch pads and some have horizontal launches from runways. In order to remain clear of the hazard area when the area is operational, it is necessary to check NOTAMS for the specific space launch activity area prior to flight to determine the exact location and size of the hazard area and time of the activity. The appropriate facilities for obtaining NOTAMS for each space launch activity area are listed in the table.

Please note that only space launch activity areas where 14 CFR Part 400 commercial space transportation operations occur are denoted in this list. Although Part 101 amateur rocket operations may occur at the space launch activity areas noted in this list, Part 101 amateur rocket launches may also occur elsewhere in the United States and are not indicated below.

State	Name	Co-located Airport	Nearest Airport (if not co-located)	Distance from Nearest Airport	Direction from Nearest Airport	Latitude	Longitude	Description	Check for NOTAMS
AK	Pacific Spaceport Complex Alaska		PADQ	20	S	57°26'6.49"N	152°20'21.66"W	Space launch and reentry operations are conducted at various times within area. Vertical launch and reentry activities are conducted from launch pads approximately 20nm south of PADQ.	ZAN or PAZA
CA	California Spaceport at Vandenberg AFB	VBG				34°38'26.29"N	120°35'23.34"W	Space launch and reentry operations are conducted at various times within area. Vertical launch and reentry activities are conducted from launch pads located as far south as 12 nm from KVBG airport.	KZLA, KVBG, KHRH
CA	Mojave Air & Spaceport	MHV				35°03'32.19"N	118°09'02.19"W	Space launch and reentry operations are conducted at various times within area. Vertical launch and reentry activities are conducted from launch pads located north of runways. Horizontal launch and reentry activity are conducted from runways.	KMHV, KEDW, KZLA
FL	Cape Canaveral Area (Space Florida, Cape Canaveral Air Force Station, Shuttle Landing Facility, Kennedy Space Center)	XMR, TTS				28°28'2.42"N	80°33'58.94"W	Space launch and reentry operations are conducted at various times within the area. Vertical launch and reentry activities are conducted from launch pads located throughout the Cape Canaveral Area. Horizontal launch and reentry activities are not currently being conducted at the Shuttle Landing Facility (SLF).	KZMA
FL	Cecil Field Spaceport	VQQ				30°13'07.6"N	81°52'37.8"W	Space launch and reentry operations are not currently being conducted in the SLA. The site does not have a licensed operator authorized to conduct any space launch or reentry activities in the area.	KZJX, KVQQ, KZMA

## SPECIAL NOTICES

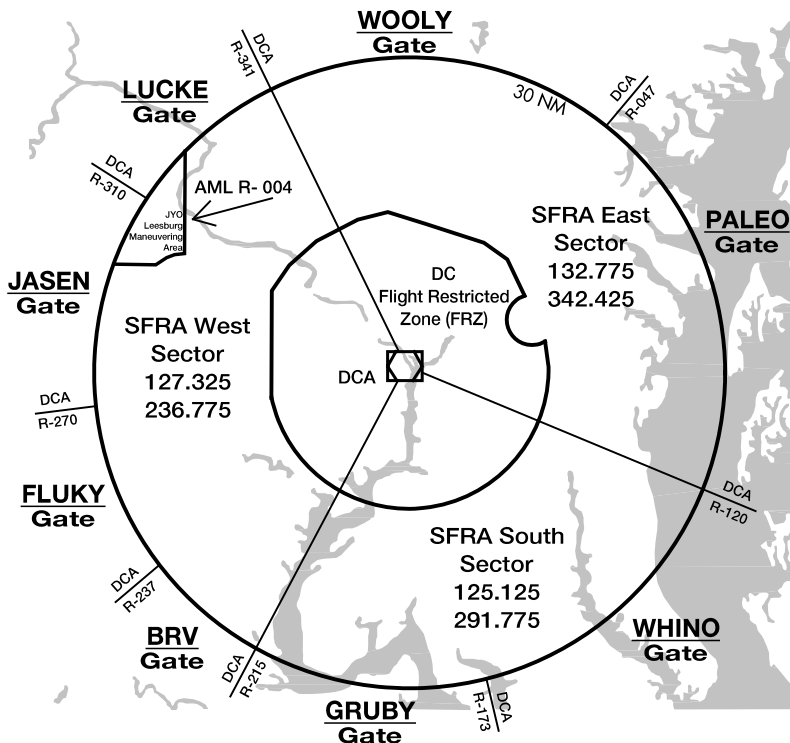
403

State	Name	Co- Located Airport	Nearest Airport (if not co- located)	Distance from Nearest Airport	Direction from Nearest Airport	Latitude	Longitude	Description	Check for NOTAMS
NM	Spaceport America	9NM9				32°59'22.7"N	106°58'10.1"W	Space launch and reentry operations are conducted at various times within the area. Vertical launch and reentry activities are conducted from launch pads southeast of runway. Although horizontal launch and reentry activities are not currently being conducted at Spaceport America, a launch operator has approached the FAA with the intent to begin horizontal launch and reentry operations at Spaceport America in the future.	KZAB
OK	Oklahoma Spaceport	CSM				35°20'23.42"N	99°12'01.8"W	Space launch and reentry operations are not currently being conducted in the SLA. The site does not have a licensed operator authorized to conduct any space launch or reentry activities in the area.	KZFW, KCSM, KZKC
TX	Houston Spaceport	EFD				29°36'26"N	95°9'32"W	Space launch and reentry operations are not currently being conducted in the SLA. The site does not have a licensed operator authorized to conduct any space launch or reentry activities in the area.	KZHU, KEFD
TX	Midland Spaceport	MAF				31°56'33.1"N	102°12'06.9"W	Space launch and reentry operations are not currently being conducted in the SLA. The site does not have a licensed operator authorized to conduct any space launch or reentry activities in the area.	KMAF, KZFW
TX	SpaceX Rocket Development Facility		PWG	9	SW	31°23'33.66"N	97°27'46.25"W	Sub-orbital launch operations are conducted from the facility at various times.	KTPL, KZHU, KPWG, KZFW
TX	West Texas Launch Site		VHN	22	N	31°24'24.26"N	104°45'8.74"W	Sub-orbital space launch operations are conducted from the site at various times.	KZAB
VA	Mid-Atlantic Regional Spaceport at Wallops Flight Facility		WAL	5	S	37°51'2.13"N	75°28'15.93"W	Space launch and reentry operations are conducted at various times within area. Vertical launch and reentry activities are conducted from launch pads located about 5 nm south of KWAL airport.	KZDC





# Washington DC SFRA Special Terms and Procedures



**Entry/Exit Filing Gates for DC SFRA Flight Plans**

Gate (Freq)	Defining Radials (DCA)		Visual Checkpoints	
WOOLY (132.775)	R-341	R-044	I-270	I-95
PALEO (132.775)	R-045	R-119	I-95	Abeam Chesapeake Beach
WHINO (125.125)	R-120	R-172	Abeam Chesapeake Beach	Northern boundary Wicomico River
GRUBY (125.125)	R-173	R-214	Northern boundary Wicomico River	Western boundary Potomac River / Widewater Beach
BRV (127.325)	R-215	R-236	Western boundary Potomac River / Widewater Beach	West side of Lunga Reservoir
FLUKY (127.325)	R-237	R-269	West side of Lunga Reservoir	VA Route 29
JASEN (127.325)	R-270	R-309	VA Route 29	VA Route 7
LUCKE (127.325)	R-310	R-339	VA Route 7	I-270

**General Information:**

The DC SFRA is defined by a circle with a 30 NM radius off of the DCA VOR/DME. This airspace also includes the DC Flight Restricted Zone (DC FRZ) and the Leesburg Maneuvering Area (LMA). For additional airspace information check the NOTAMs for the latest information.

Gates are defined by existing intersections in the National Airspace System. It is not a requirement to fly to an intersection prior to entering, departing, or transitioning the DC SFRA. Prior to turning on course pilots should ensure they are well clear of the DC SFRA to avoid a pilot deviation.

**ATC Terms Specific to the DC SFRA:**

**DC SFRA Flight Plan:** A flight plan filed for the sole purpose of complying with the requirements for VFR operations into, out of, and through the DC SFRA. This flight plan is separate and distinct from a standard VFR flight plan, and does not include search and rescue services.

**Fringe Airports:** The following airports located near the outer boundary of the DC SFRA are identified as Fringe Airports: Barnes (MD47), Flying M Farms (MD77), Mountain Road (MD43), Robinson (MD14), and Skyview (51VA).

**Security Services:** Identification, communications and security tracking provided by an ATC facility in support of DOD, or other security elements. *NOTE: Security services do not include basic radar services or any other ATC services.*

**Remain on the assigned code until you land:** Used when Potomac hands an inbound VFR flight off to the tower or authorizes change to advisory frequency for non towered airports. It reminds pilots to remain on the assigned discrete transponder code until after landing. ***NEVER squawk 1200 inside the DC SFRA.***

**Transponder observed:** Used to inform a pilot that the aircraft's assigned beacon code and position has been observed. This transmission does *not* imply ATC services. It conveys only that the transponder reply has been observed and its position correlated for movement through security airspace.

**Procedures for Traffic Pattern Work:**

**Towered Airport:** Request pattern work from tower; squawk 1234, remain in two-way communication with tower.

**Non-Towered Airport:** File DC SFRA flight plan; obtain and squawk discrete transponder code from Potomac, communicate pattern position via published CTAF, and if able monitor VHF guard on 121.5 or UHF guard on 243.0

**Emergency Procedures:**

**Transponder failure:** An aircraft unable to transmit the ATC-assigned transponder code must contact ATC and comply with all instructions. If unable to contact ATC, the

aircraft must exit the DC SFRA by the most direct lateral route unless: the departure point is within the SFRA and the departure point is closer than the SFRA boundary, the pilot may return to the departure point by the most direct route.

**Communications failure:** An aircraft unable to communicate with ATC should squawk 7600 and exit the DC SFRA/FRZ by the most direct lateral route unless; 1: The departure point is within the SFRA and the departure point is closer than the SFRA boundary, the pilot may return to the departure point by the most direct route. 2: If the departure point is within the FRZ and the aircraft is within 5nm of the departure point, the pilot may return to the departure point by the most direct route. Otherwise, the pilot must exit the FRZ via the most direct route.

**Intercepts:** Review interception procedures in the AIM. If you are intercepted, follow all instructions given by the intercepting aircraft. Monitor 121.5, provide call sign /position, and squawk 7700 unless otherwise directed.

## Washington DC SFRA Standard Requirements

### *Requirements to operate to/from, or within the DC SFRA*

1. Complete the training requirements at <http://www.faaafety.gov> for VFR aircraft operations.

- Training is noted by a completion certificate generated at the end of the training course. It is recommended that pilots carry a copy of this certificate with them.
- This training is mandatory for pilots within a 60NM radius of the DCA VOR/DME and recommended for pilots within a 100NM radius of the DCA VOR/DME.

2. Two-way radio

3. Operating transponder with altitude reporting (Mode C)

4. Flight plan appropriate for the intended operations:

IFR: IFR flight plan

VFR: DC SFRA flight plan for all operations, *except:*

- Fringe airport egress (*no flight plan required*)
- Leesburg Entry and Egress (*no flight plan required*)
- Towered airport pattern work (*make request to tower*)

5. Discrete transponder code for all operations, *except:*

- Leesburg (1226)
- Fringe airport egress (1205)
- Towered airport pattern work (1234)

6. VFR speed restriction ( $\leq 180$  KIAS in DC SFRA, &  $\leq 230$  KIAS from 30 NM - 60 NM from the DCA VOR/DME unless otherwise authorized.)
7. Communication with ATC for all operations, *except*:
  - Leesburg (JYO) egress/ingress: make CTAF calls
  - Fringe airport egress: monitor guard if able
  - Towered airport pattern work: talk to tower
  - Non-towered airport pattern work:
    - Make CTAF calls and monitor Guard if able.
8. To enter or exit the DC SFRA under IFR, pilots must:
  - File and activate their IFR flight plan before entering the DC SFRA.
  - Pilots may **not** depart VFR and pick up an IFR clearance and transponder code in the air.

**Activate:** A DC SFRA flight plan to enter/exit the DC SFRA under VFR activates when the pilot obtains a discrete transponder code *except*:

- Leesburg (JYO) ingress/egress: with CTAF calls
- Fringe airport egress: when pilot squawks 1205
- Towered airport pattern: with squawk & talk
- Non-towered airport pattern: with CTAF calls

**Closing:** The DC SFRA flight plan closes when the aircraft exits or lands at an airport inside the DC SFRA.

### Potomac TRACON Telephone Numbers

Area Name	Nearest major airport)	Telephone
Shenandoah	Dulles (IAD)	1-866-709-4993 1-540-349-4097
Mount Vernon	Reagan National (DCA) Andrews AFB (ADW)	1-866-599-3874 1-540-349-0493
Chesapeake	Baltimore (BWI)	1-866-429-5882 1-540-349-8478
James River	Richmond (RIC) Charlottesville (CHO)	1-866-640-4124 1-540-349-9697

## Washington DC SFRA VFR Outbound Procedures

### Step 1: Preflight – File a DC SFRA Flight Plan

- ALWAYS review NOTAMs for current TFR information.
- File a DC SFRA flight plan.  
**Suggested language:** “I would like to file a DC SFRA flight plan for VFR flight from (departure airport) to (appropriate exit gate)”.
- If desired, file separate a VFR flight plan (search and rescue), to be activated after departing the DC SFRA.

### Step 2: Pre-Takeoff – Activate DC SFRA Flight Plan

- Call ATC (tower, RCO, phone) for frequency & transponder code.  
**Suggested language:** “Potomac Clearance, (call sign) at Tipton, VFR Departure.”
- Set assigned departure frequency and transponder code. **NEVER squawk 1200 inside the DC SFRA.**
- Verify that Mode C (ALT) is ON.

#### **Aircraft operating at Leesburg (JYO):**

Egress with transponder code of 1226 and CTAF calls.  
See separate NOTAM for Leesburg.

#### **Fringe airport egress:**

Monitor VHF frequency 121.5 or UHF frequency 243.0

### Step 3: After Takeoff – Communicate with ATC

- Establish radio contact with Potomac TRACON  
**Suggested language:** “Potomac Departure, (call sign), off Tipton”
- Monitor the assigned frequency
- Remain out of Class B airspace unless explicitly cleared to enter.

### Step 4: Exiting – Close DC SFRA Flight Plan

- Remain on the assigned frequency / transponder code until ATC authorizes change. NOTE: Verify that you are clear of the DC SFRA prior to changing frequency or transponder code. **NEVER squawk 1200 inside the DC SFRA.** A DC SFRA flight plan closes automatically upon exiting the DC SFRA.

## Washington DC SFRA VFR Inbound Procedures

### Step 1: Preflight – File a DC SFRA Flight Plan

- ALWAYS review NOTAMs for current TFR information
- File a DC SFRA flight plan.

**Suggested language:** “I would like to file a DC SFRA flight plan for VFR flight from (appropriate entry gate) to (destination airport).”

### Step 2: Before Entry – Activate DC SFRA Flight Plan

- Before entry, contact Potomac Approach on the appropriate sector frequency to request a discrete transponder code. The appropriate frequencies are located on the Washington Terminal Area Chart and in the Chart Supplement Northeast.

**Suggested language:** “Potomac Approach, (call sign) at (arrival gate), VFR, requesting SFRA transponder code to (destination airport).”

#### ***Aircraft operating at Leesburg (JYO):***

Enter with transponder code of 1226 and CTAF calls.  
See separate NOTAM for Leesburg.

- Set assigned transponder code. **NEVER squawk 1200 inside the DC SFRA.**
- Verify that Mode C (ALT) is ON.
- Continue inbound unless otherwise instructed.
- Remain out of Class B airspace unless explicitly cleared to enter.

### Step 3: After Entry – Maintain Communication with ATC

- Monitor Potomac Approach
- Remain out of Class B airspace unless explicitly cleared to enter.

### Step 4: Arriving – Close DC SFRA Flight Plan

- Change to tower / advisory frequency when so instructed.
- Remain on assigned transponder code until you land. **NEVER squawk 1200 in the DC SFRA.**
- DC SFRA flight plan closes upon landing.

# Washington DC SFRA VFR Transitioning Procedures

## Step 1: Preflight - File a DC SFRA Flight Plan.

- Always review NOTAMS for current TFR information. TFRs can pop-up at any time in this area.
- File a DC SFRA flight plan listing the entry and departure gate information.
- Put the approximate time you expect to arrive at the entry gate.

**Suggested language:** “I would like to file a DC SFRA flight plan for a VFR flight from (Entry gate) to (Departure gate).”

## Step 2: Before Entry: Activate DC SFRA Flight Plan

- Before entry, contact Potomac Approach on the appropriate sector frequency to request a discrete transponder code. The appropriate frequencies are located on the Washington Terminal Area Chart and in the Chart Supplement Northeast.

**Suggested language:** “Potomac Approach, (Call Sign), (state location), 10 west of the LUCKE gate requesting a discrete transponder code for transiting the DC SFRA.”

- Set the assigned transponder code and verify MODE C/ALT is ON. **NEVER squawk 1200 inside the DC SFRA.**
- Potomac Approach will notify you when the transponder has been observed and when you are able to proceed on course into the DC SFRA.
- Remain clear of the Class B airspace unless explicitly cleared to enter.

## Step 3: After Entry: Communicate with ATC

- Maintain communication with Potomac Approach on the assigned frequency.
- Remain clear of the Class B airspace unless explicitly cleared to enter.
- Remain clear of the DC Flight Restricted Zone (FRZ) unless you comply with the requirements for DC FRZ entry.
- Monitor 121.5/243.0 if equipped and able.

## Step 4: Exiting the DC SFRA

- Remain on your assigned frequency and transponder code until ATC authorizes you to change.
- DC SFRA flight plans close automatically upon exiting the airspace.
- **NEVER squawk 1200 inside of the DC SFRA.** Ensure you are well clear of the boundaries prior to squawking VFR.

## Washington DC Flight Restricted Zone (FRZ) Standard Requirements

Unless specifically authorized by a waiver, flight operations under 14 CFR parts 91, 101, 103, 105, 125, 133, & 137 are prohibited in the DC FRZ.

### **VFR pilots should think of the DC FRZ as a “no-fly” area.**

1. Before departing from an airport within the DC FRZ, or before entering the DC FRZ, all pilots must:
  - File a DC FRZ flight plan with Flight Service at 866-225-7410. The initiator/pilot must identify themselves and use the confidential; pilot identification code or their waiver number. Pilots may **not** file a DC FRZ flight plan while airborne.
  - Obtain and continuously transmit the discrete transponder code assigned by an ATC facility.
2. A DC FRZ flight plan will meet the requirements for a DC SFRA flight plan, but the reverse is not true. A DC SFRA flight plan will not fulfill the requirements for VFR operations in the DC FRZ.
3. When operating an aircraft in the DC FRZ, pilots must continuously monitor VHF frequency 121.5 or UHF frequency 243.0.
4. Operations into or out of College Park Airport (CGS), Potomac Airfield (VKX), or Washington Executive / Hyde Airfield (W32) must meet the requirements of §93.343 and any applicable NOTAMS.



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**EASTON, MARYLAND NOISE ABATEMENT PROCEDURE**

When Easton Airport Traffic Control Tower is closed:

Departure RWY 22: Right turn and avoid overflight of Town of Easton. Departure RWY 04: Left turn at end of RWY to parallel HWY 50 until past mobile home park.

No intersection take offs. VFR Arrivals: Report the Miles River bridge, 2.7 miles southwest of the airport at 2000' MSL for sequence to all RWYS. Contact 410-770-8055.

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**WEST ATLANTIC ROUTE SYSTEM (WATRS)**

Effective immediately, all operators entering New York Center's West Atlantic Route System (WATRS) southbound on ATS Routes L453, L454, L455, L456, L457, L459, L461, and L462, shall file and plan the following routing.

**SOUTHBOUND**
**SOUTHBOUND WATRS PLUS ROUTE STRUCTURE ACCESS FROM  
NEW YORK METROPOLITAN AREA**

All operators entering New York Center's West Atlantic Route System (WATRS) southbound on ATS routes: L453, L454, L455, L456, L457, L459, L461 AND L462 shall file and plan the following routes:

ATS ROUTE	WATRS ACCESS ROUTING (SOUTHBOUND ONLY)
For L453;	...LINND-AZEZU-L453...
For L453 VIA B24;	...B24-AZEZU-L453...
For L454;	...LINND-ROLLE-ATUGI-L454...
For L454 VIA B24;	...B24-WEBBB-ROLLE-ATUGI-L454...
For L455;	...LINND-RESQU-UMEDA-L455...
For L455 VIA B24;	...B24-WEBBB-RESQU-UMEDA-L455...
For L456;	...LINND-SQUAD-DARUX-L456...
For L456 VIA B24;	...B24-WEBBB-RESQU-DARUX-L456...
For L457;	...LINND-RESQU-UMEDA-L457...
For L457 VIA B24;	...B24-WEBBB-RESQU-UMEDA-L457...
For L459;	...LINND-SQUAD-DARUX-L459...
For L459 VIA B24;	...B24-WEBBB-RESQU-DARUX-L459...
For L461;	...LINND-KINGG-KINER-L461...
For L462;	...LINND-KAYYT-L462...
For L462 VIA ACK;	...ACK-J97-LACKS-KAYYT-L462...

**EASTBOUND**
**TRANSITION TO NEW YORK OCEANIC CTA/FIR**
**VIA: ORF AR9 ZIBUT**

All operators transitioning the New York Center West Atlantic Route System (WATRS) via ZIBUT intersection, en route to the New York Center North Atlantic MNPS airspace, are encouraged to flight plan via:

**ZIBUT** direct **LARGE** direct SLATN or JOBOC or DOVEY

Operators opting to flight plan via any other fix or latitude/longitude coordinates east of ZIBUT intersection shall expect no higher than FL290 and may be rerouted to accommodate WATRS non-radar traffic.

**NOTE—This route may be filed bi-directionally**

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**NORTH SHORE HELICOPTER ROUTE**
**Long Island, New York**

Effective August 6, 2012 UFN, civil helicopter pilots operating VFR along Long Island, New York's northern shoreline between the VPLYD waypoint and Orient Point, must utilize the North Shore Helicopter route and altitude, as published. Deviations are permitted for safety, weather conditions, or transitioning to or from a destination or point of landing. For a detailed explanation of the requirement, see 14 CFR part 93, subpart H.

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**NORTHBOUND  
NORTHBOUND WATRS PLUS ROUTE STRUCTURE ACCESS TO  
NEW YORK METROPOLITAN AREA**

All northbound operators exiting New York Center's West Atlantic Route System (WATRS) on routes L453, L454, L455, L456, L457, L459, L461 AND L462 shall flight plan and file the following transition routes to join domestic routing:

ATS ROUTE	WATRS EXIT ROUTING (NORTHBOUND ONLY)
From L453;	...AZEZU-BERGH...
From L454;	...OKONU-L454-BERGH...
From L454 TO B24;	...OKONU-L454-WEBBB-B24...
From L455;	...SAVIK-L455-BERGH...
From L455 TO B24;	...SAVIK-AZEZU-B24...
From L456;	...MARIG-BERGH...
From L457;	...OKONU-L457-BERGH...
From L457 TO B24;	...OKONU-L457-WEBBB-B24...
From L459;	...SAVIK-L459-BERGH...
From L459 TO B24;	...SAVIK-AZEZU-B24...
From L461;	...MARIG-BERGH...
From L462;	...KAYYT-BERGH... or KAYYT-LACKS-ACK...

**WAKE TURBULENCE FOR INTERSECTION DEPARTURES**

**Teterboro Airport (TEB)**

**Teterboro, New Jersey**

Teterboro Airport Traffic Control Tower has been granted a waiver to the guidelines that require a 3-minute interval for a small aircraft departing from an intersection behind a preceding departing large aircraft. This waiver authorizes the tower to depart small aircraft from the intersection of RWY 01 and Twy Kilo without requiring a 3-minute interval behind a preceding large aircraft that departs from the end of the runway.

**AEROBATIC PRACTICE AREA**

**Roxbury, Connecticut**

Aerobatic practice area will be conducted between the altitudes of 2500 ft and 4500 ft MSL and performed within an approximate 2 mile radius of a point defined from the CARMEL VOR/DME (CMK) as the 052 degree radial/21.9 GPS-DME fix. It is 8 NM NW of the Oxford, CT airport (OXG).

**SEARCH LIGHT DEMONSTRATION**

**Baltimore, Maryland**

**Downtown, at the Inner Harbor**

**Each evening, seven days per week**

A vertical search light beam demonstration will be conducted at the Pier V Hotel, at Baltimore Inner Harbor, Baltimore, Maryland, BAL 028/7. Lat N39°17'24", Long W76°36'27". Search light beams are being radiated from the SFC upward. Flashblindness or cockpit illumination may occur at several miles distance. The Leesburg Automated Flight Service Station, 1-703-771-3696 is the FAA coordination facility.

**Laser Light Activity**

**Canobie Lake Water Park, Salem, New Hampshire**

Laser light shows are being conducted at the Canobie Lake Water Park in Salem, NH. Show orientation and laserbeam projections will be directed in all 360° directions. Laser light beams may be injurious to pilot's/passenger's eyes within 3,000 feet laterally of the light source and surface to 1,650 feet AMSL. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. The laser will be stationed at N42°47'32"/W071°14'44" (LWM 310/7.4 DME). Manchester ATCT 1-603-666-7591 will be the coordination facility.

**LASER LIGHT DEMONSTRATION**

**Atlantic City, New Jersey**

Laser light demonstrations are being conducted at the Atlantic Park, downtown Atlantic City, New Jersey, 0001-0700 UTC, ACY VORTAC 145/8.5. Approximately: 39°21'31"N/74°26'15"W. Laser light beam may be injurious to pilots/passengers eyes within 100 feet above ground, 100 feet AMSL, 900 feet laterally of the light source. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. The Atlantic City ATCT, 609-641-3940, is the coordination facility.

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**LASER LIGHT DEMONSTRATION**  
**Darien Lake Theme Park, Darien Center, New York**

Laser light demonstrations are being conducted at the Darien Lake Theme Park, Darien Center, NY. The show orientation and laser beam projection are directed to the southern half of a circle from this site. Buffalo VOR/DME 100R/12NM. (42°56'04"N/78°23'30"W). Laser light beams may be injurious to pilot's/passenger's eyes within 2,800 feet of the light source, 1,600 feet above ground level. The secondary effect of flash blindness or cockpit illumination may occur beyond these distances. The Buffalo ATCT, 716-633-0664 is the FAA coordination facility.

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**LASER LIGHT DEMONSTRATIONS**  
**DORNEY THEME PARK, DORNEYVILLE, PENNSYLVANIA**

Laser light demonstrations are being conducted at the Dorney Theme Park, northwest of Dorneyville, PA. Show orientation and laserbeam projections directed to the southern quadrant from FJC 210D/10DME (N40°34'47"W/75°32'06"). Laser light beams may be injurious to pilot's/passenger's eyes within 2000 ft laterally of the light source, 500 ft AGL, 1100 ft AMSL. The secondary effects of flash blindness or cockpit illumination may occur beyond these distances. Allentown ATCT, 1-610-264-4539 is the FAA coordination facility.

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**MODEL AIRCRAFT ACTIVITY, HARFORD COUNTY MARYLAND**

Radio controlled model aircraft operating to 800 feet AGL vicinity of N39°37'30" W76°18'35" in Harford County, Maryland.

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**UNMANNED AIRCRAFT SYSTEMS (UAS) ACTIVITY**  
**OVER CRITICAL INFRASTRUCTURE**

Unmanned Aircraft Systems (UAS), also referred to as "drones," are exhibiting a greatly increased operational presence in the NAS. While the military typically conducts UAS operations within restricted or other special use airspace, or at very high altitudes, civil UAS may be encountered by manned aircraft at any altitude, although they will primarily be operating below 400 feet AGL.

Pilots should be especially vigilant for UAS when flying at lower altitudes near critical infrastructure areas, to include railroads, high-voltage power transmission lines, pipelines, stacks, and towers. UAS may be approved to conduct inspection flights in and around these areas, and may be operating at altitudes within controlled airspace. As is the case with other UAS operations, specific UAS infrastructure flight operating hours and areas may or may not be annotated on VFR aeronautical charts or in other publications. Pilots planning to fly at low altitudes or in uncontrolled airspace should consult Flight Service for current information on UAS operations.

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**UNMANNED AIRCRAFT SYSTEMS (UAS) OPERATIONS**  
**IN QUEEN ANNE'S COUNTY MARYLAND**

Unmanned Aircraft Systems activity within Queen Anne's County Maryland. Pilots flying within Queen Anne's County should be alert for unmanned aircraft systems operating at or below 400 feet Above the Ground (AGL) inclusive.

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**INTERSECTION DEPARTURES DURING PERIODS OF DARKNESS**  
**GENERAL EDWARD LAWRENCE LOGAN INTERNATIONAL AIRPORT (KBOS)**  
**BOSTON, MASSACHUSETTS**

Boston Logan International Airport Traffic Control Tower has been granted approval for the use of Line Up and Wait (LUAW) at a specific intersection, between sunset and sunrise. The authorization is valid only for the following intersection:

**Runway 04R at Taxiway C.**  
**Runway 15R at Taxiway N.**  
**Runway 22L at Taxiway C.**

Aircraft will not be allowed to "Line Up and Wait" (LUAW) when this intersection is not visible from the control tower. When the provisions of this authorization are being utilized, the associated runway will be utilized for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise, however, the aircraft cannot be instructed to LUAW prior to takeoff clearance.

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**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS**  
**NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR)**  
**NEWARK, NEW JERSEY**

Newark International Airport Traffic Control Tower has been granted a waiver to the guidelines that prohibits the control tower from taxiing an aircraft into "Line Up and Wait" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi aircraft into "Line Up and Wait" during period of darkness, at the intersections listed below.

**Runway 22R at Taxiway Whiskey**  
**Runway 22L at Taxiway Whiskey**  
**Runway 29 at Taxiway Romeo**  
**Runway 22R at Taxiway Yankee** (when Runway 29 is the arrival runway)

Aircraft shall not "Line Up and Wait" under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxiied into "Line Up and Wait" prior to takeoff clearance.

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**WAKE TURBULENCE RE-CATERGORIZATION  
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR)  
NEWARK, NEW JERSEY**

Newark Tower is authorized to utilize Wake Turbulence Re-Categorization for air traffic control services.

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**MULTIPLE RUNWAY CROSSINGS  
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR)  
NEWARK, NEW JERSEY**

Newark International Airport (EWR) Traffic Control Tower (ATCT) has been authorized to issue multiple runway crossings at the following locations:

- (1) Taxiway "K" crossing RWY 4L/22R and RWY 4R/22L.
  - (2) Taxiway "M" crossing RWY 4L/22R and RWY 4R/22L.
  - (3) Taxiway "Z" crossing RWY 4L/22R and RWY 4R/22L.
  - (4) Taxiway "P" crossing RWY 11/29 to join taxiway "Z" crossing RWY 4L/22R.
  - (5) Taxiway "R" crossing RWY 11/29 to join taxiway "Z" crossing RWY 4L/22R.
- 

**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS  
JOHN F KENNEDY INTERNATIONAL AIRPORT (JFK)  
NEW YORK, NEW YORK**

Kennedy Airport Traffic Control Tower has been granted a waiver to the guidelines that prohibits the control tower from taxiing an aircraft into "position and hold" at an intersection, between sunset and sunrise.

This waiver allows the tower to taxi aircraft into "position and hold" during period of darkness, at the intersections listed below.

Runway 13R at Taxiway Papa Delta  
Runway 13R at Taxiway Papa Echo  
Runway 22R at Taxiway Charlie  
Runway 22R at Taxiway Foxtrot  
Runway 22R at Taxiway Yankee Alpha  
Runway 31L at Taxiway Kilo Echo  
Runway 31R at Taxiway Zulu Alpha

Aircraft shall not taxi into position and hold under the provisions of this waiver when the subject intersection is not visible from the tower. When the provisions of this waiver are being exercised, the affected runways shall be used for departures only. Intersection departures will continue to be utilized at other locations between sunset and sunrise. However, aircraft cannot be taxied into "position and hold" prior to takeoff clearance.

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**INTERSECTION DEPARTURES DURING PERIOD OF DARKNESS  
PITTSBURGH INTERNATIONAL AIRPORT (PIT)  
PITTSBURGH, PENNSYLVANIA**

Pittsburgh Tower is authorized to taxi aircraft to line up and wait (LUAW) on Runway 28L at the intersection of Taxiway P during the hours of darkness. While conducting the LUAW operation, Runway 28L must be used only for departures and the intersection must be visible from the tower.

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**INTERSECTING RUNWAY OPERATIONS  
NEWARK LIBERTY INTERNATIONAL AIRPORT (EWR)  
NEWARK, NEW JERSEY**

Newark Liberty International (EWR) Airport Traffic Control Tower (ATCT) has been authorized to conduct intersecting runway operations to Runway 29 and Runway 04R whereby an aircraft arriving Runway 29 shall be through the intersection of Runway 04R prior to the arriving aircraft on Runway 04R reaching a point no closer than 5,000 feet from the intersection of both runways.

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**INTERSECTING RUNWAY OPERATIONS  
PHILADELPHIA INTERNATIONAL AIRPORT (PHL)  
PHILADELPHIA, PENNSYLVANIA**

Philadelphia International Airport Control Tower has been granted a waiver that authorizes air traffic personnel to conduct simultaneous ILS approaches to Runway 26 while aircraft simultaneously depart Runway 27R.

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**LAND AND HOLD SHORT LIGHTS (for LAHSO)  
BOSTON—LOGAN AIRPORT, MASSACHUSETTS**

Land and Hold Short lights have been installed on four runways at Boston—Logan Airport (BOS). These in-pavement lighting systems will remain on/flashing whenever LAHSO is expected to be conducted to that particular runway. Flight crews should also expect to see these lights on/flashing even when authorized the full length of the runway for landing, or when utilizing that runway for departure.

Land and Hold Short lights have been installed at the following locations:

**Runway 22L (Short of Runway 27/09)**  
**Runway 4L (Short of Runway 33R/15L)**  
**Runway 27 (Short of Runway 22L/04R)**  
**Runway 15R (Short of Runway 09/27)**

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**LAND AND HOLD SHORT LIGHTS (LAHSO)  
BRADLEY INTERNATIONAL AIRPORT, WINDSOR LOCKS, CONNECTICUT**

Land and Hold Short lights have been installed on two runways at Bradley International Airport (BDL).

These in-pavement lighting systems will remain on/flashing whenever LAHSO is expected to be conducted to that particular runway. Flight crews should also expect to see these lights on/flashing even when authorized the full length of the runway for landing, or when utilizing that runway for departure.

Land and Hold Short lights have been installed at the following locations:

**Runway 24 (Short of Runway 15/33)**  
**Runway 33 (Short of Runway 6/24)**

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**CHARLESTON, WEST VIRGINIA**

Mine blasting approximately 25 NM south and southeast of Charleston, West Virginia as follows:

Mine Blasting HVQ VORTAC 110° 25 DME to 400' AGL  
 Mine Blasting HVQ VORTAC 189° 26 DME to 300' AGL

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**CAUTION—FISH SPOTTING ACTIVITY—CHESAPEAKE BAY AND COASTAL WATERS**

Caution is advised for extensive fish spotter aircraft activity between May 1 and December 1 upwards from 1500 feet above the surface over the Chesapeake Bay and adjacent coastal waters. Pilots should be alert for this activity. For further information contact FAA/Norfolk ATCT on 1-757-460-5142.

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**BOSTON, MASSACHUSETTS**

To avoid the concentration of aircraft arriving and departing Boston, pilots requesting IFR flight at and below altitudes 14,000 feet MSL should file for airways beyond 40 NM from Boston VORTAC between the hours of 0800-2100 local. Traffic to/from Maine and Cape may file V167.

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**BOURNE, MASSACHUSETTS**

Aircraft operation below 2000 ft and within 3 miles of Pave Paws radar site located in Restricted Area 4101 may experience momentary erratic operation of cockpit instruments or navigational equipment. Pilots are encouraged to submit reports of such occurrences to nearest FAA Air Traffic Facility.

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**SPECIAL NORTH ATLANTIC, CARIBBEAN AND  
PACIFIC AREA COMMUNICATIONS**

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

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**MILITARY TRAINING ROUTES**

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

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**CIVIL USE OF MILITARY FIELDS:**

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

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**AIRCRAFT LANDING RESTRICTIONS**

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

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### CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ).....	08	Milwaukee, WI (MKE) .....	01L
Anchorage, AK (ANC).....	07R	Minneapolis, MN (MSP) .....	30L
Andrews AFB, MD (ADW) .....	01L	Nashville, TN (BNA).....	02L
Atlanta, GA (ATL) .....	09R	New Orleans, LA (MSY) .....	11
Baltimore, MD (BWI) .....	10	New York, NY (JFK) .....	04R
Bismarck, ND (BIS) .....	31	New York, NY (LGA).....	22
Boise, ID (BOI).....	10R	Newark, NJ (EWR) .....	04R
Boston, MA (BOS) .....	04R	Oklahoma City, OK (OKC) .....	35R
Charlotte, NC (CLT).....	36L	Omaha, NE (OMA).....	14R
Chicago, IL (ORD).....	28R	Ontario, CA (ONT).....	26L
Cincinnati, OH (CVG).....	36C	Philadelphia, PA (PHL).....	09R
Cleveland, OH (CLE) .....	06R	Phoenix, AZ (PHX).....	08
Dallas-Fort Worth, TX (DFW) .....	17C	Pittsburgh, PA (PIT) .....	10L
Denver, CO (DEN).....	35L	Reno, NV (RNO).....	16R
Des Moines, IA (DSM).....	31	Salt Lake City, UT (SLC) .....	34R
Detroit, MI (DTW).....	03R	San Antonio, TX (SAT) .....	12R
El Paso, TX (ELP) .....	22	San Diego, CA (SAN) .....	09
Fairbanks, AK (FAI) .....	02L	San Francisco, CA (SFO).....	28R
Great Falls, MT (GTF).....	03	San Juan, PR (SJU) .....	08
Honolulu, HI (HNL) .....	08L	Seattle, WA (SEA) .....	16C
Houston, TX (IAH) .....	26L	St. Louis, MO (STL) .....	30R
Indianapolis, IN (IND) .....	05L	Tampa, FL (TPA) .....	01L
Jacksonville, FL (JAX) .....	08	Tulsa, OK (TUL).....	36R
Kansas City, MO (MCI) .....	19R	Washington, DC (DCA) .....	01
Los Angeles, CA (LAX).....	24R	Washington, DC (IAD) .....	01R
Memphis, TN (MEM) .....	36L	Wichita, KS (ICT).....	01L
Miami, FL (MIA).....	08R		

**NOTE**—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

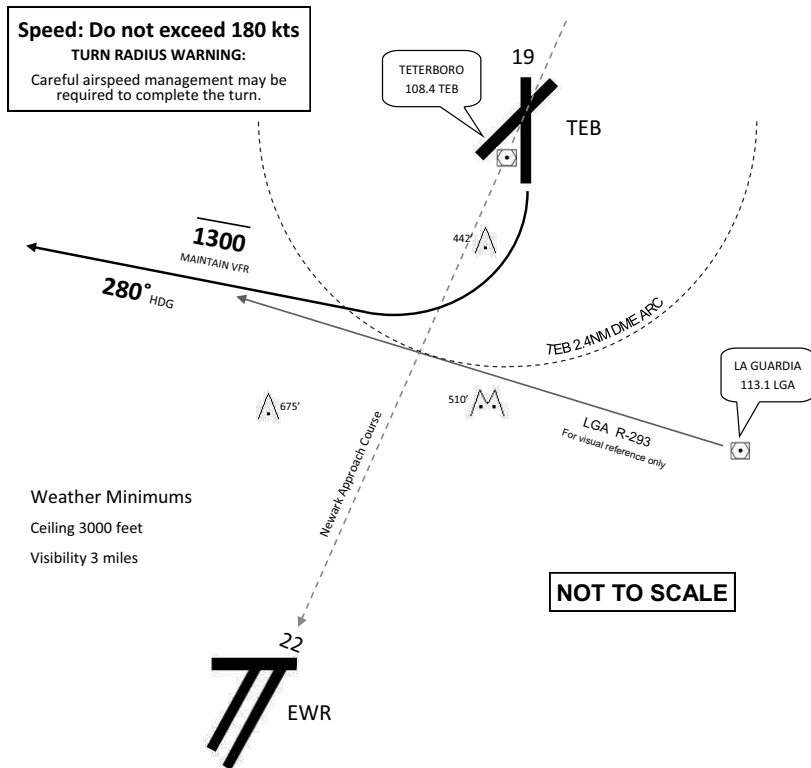
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Teterboro (TEB) Airport Runway 19 Visual Departure Procedure with transition to an IFR clearance when Newark is landing Runway 22 and Teterboro is departing runway 19.

“DALTON 2 DEPARTURE PROCEDURE”

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



Weather Minimums  
 Ceiling 3000 feet  
 Visibility 3 miles

**NOT TO SCALE**

Procedure Instructions

After departure turn right heading **280°**. Maintain at or below **1300'**. Do not exceed **180 kts**. Complete the turn within **TEB 2.4 NM DME**. Maintain VFR, if unable advise. Careful airspeed management may be required to complete the turn, depending on takeoff weight and/or aircraft performance.

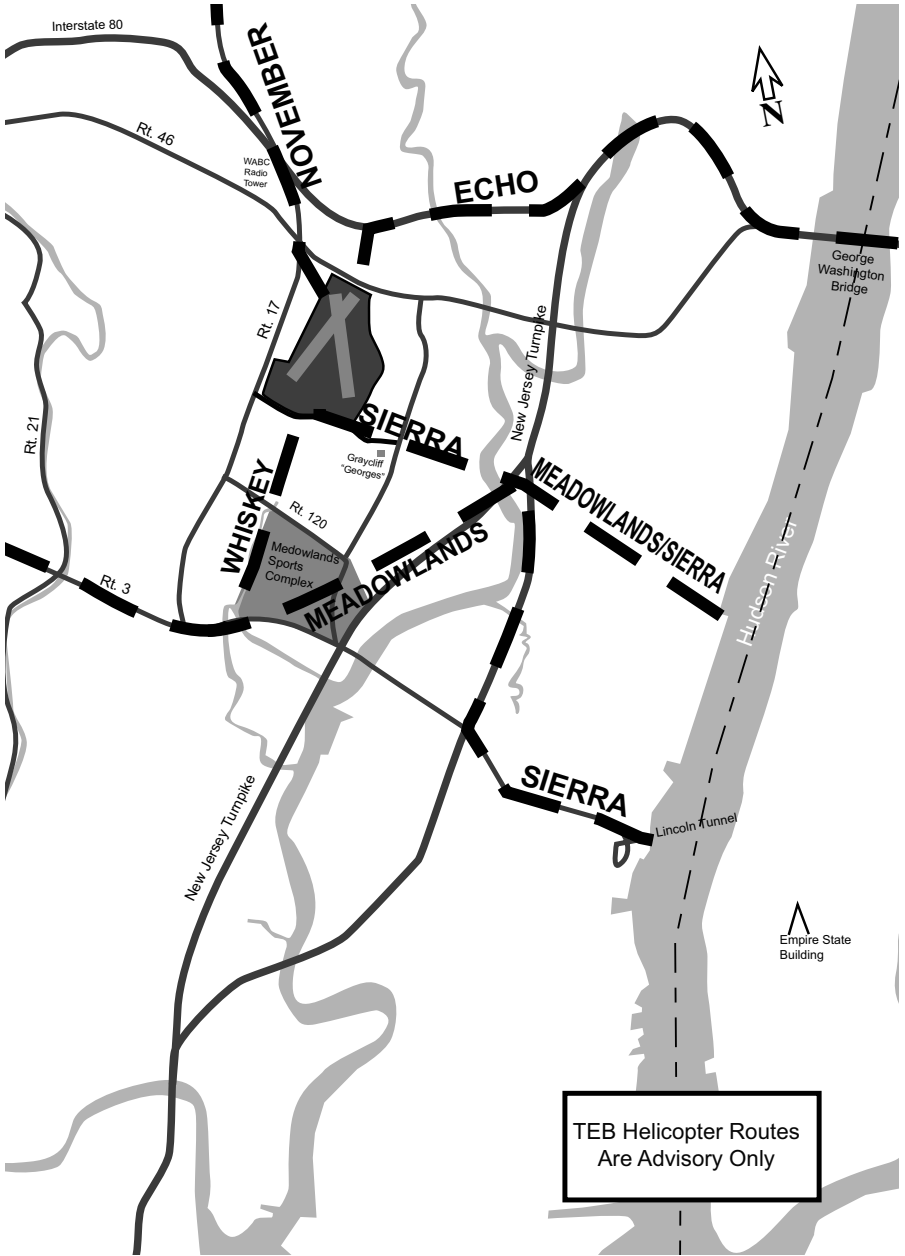
Expect a climb clearance west of the EWR ILS RWY 22 final approach course. The climb clearance constitutes IFR activation and pilots are expected to resume normal airspeed. Expect control instruction to a departure fix as described in the published TEB standard instrument departure.

In the event of lost communication prior to IFR activation, squawk 7600 and maintain VFR.

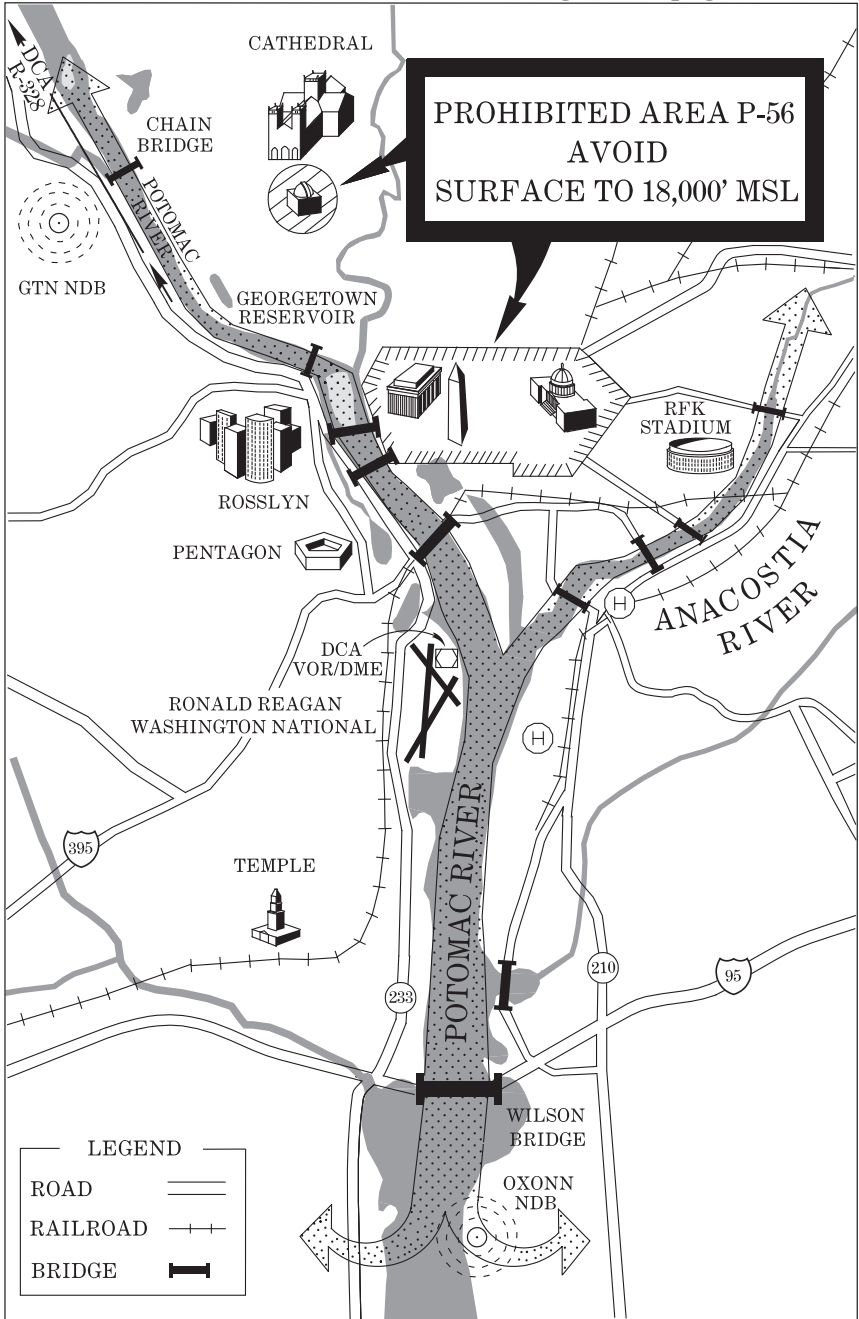
**Aircraft unable to comply with the restrictions in this chart must advise tower prior to taxi and request the published standard instrument departure.**



SPECIAL NOTICES  
TETERBORO HELICOPTER ROUTES



RONALD REAGAN WASHINGTON NATIONAL AIRPORT  
NOISE ABATEMENT & PROHIBITED AREA (P-56)  
AVOIDANCE PROCEDURES (Page 1 of 2 pages)



**RONALD REAGAN WASHINGTON NATIONAL AIRPORT  
NOISE ABATEMENT & PROHIBITED AREA (P-56) AVOIDANCE PROCEDURES  
(Page 2 of 2 pages)**

**P-56 BEGINS APPROXIMATELY 1.5 NM NORTH OF THE DEPARTURE END OF RUNWAY  
01-SURFACE TO 18,000' MSL  
REMAIN CLEAR OF P-56 AT ALL TIMES**

**EXPECT THE PUBLISHED RNAV DEPARTURE PROCEDURE OR ATC INSTRUCTIONS FOR THE FOLLOWING NON-RNAV PROCEDURES**

**NORTHWEST:** Follow the Potomac River until abeam the Georgetown reservoir or the DCA 4 DME, then join the DCA 328 radial, expect radar vectors at 10 DME. A left turn as soon as practicable, especially with a west wind, is required to maintain a ground track over the Potomac River and **remain clear of P-56**. If unable to maintain visual reference to the Potomac River, join the DCA 328 radial.

**NORTHEAST:** Follow the Anacostia River to 5 DME. A right turn as soon as practicable, especially with an east wind, is required to maintain a ground track over the Anacostia River and **remain clear of P-56**. Expect Radar Vectors at 5 DME. If unable to maintain visual reference to the Anacostia River, then join the DCA 070 radial.

**SOUTH:** Follow the Potomac River to 5 DME, then expect radar vectors. If unable to maintain visual reference to the Potomac river, then join the DCA 185 radial.

**ARRIVAL PROCEDURES**

**LANDING NORTH:** Weather conditions 3000/4 or better, expect the Mount Vernon visual approach. Lower weather conditions, expect the advertised instrument approach.

**LANDING SOUTH:** Weather conditions 3500/3 or better, expect the River Visual Approach. Lower weather conditions, expect the advertised instrument approach.

**NIGHTTIME NOISE LEVELS**

From 2200 to 0700 local time, operation of aircraft type and model which exceed the following noise levels violate Metropolitan Washington Airport Authority Regulation (MWAR) 3.11:

DEPARTURES – 72 dBA as generated on takeoff.

ARRIVALS – 85 dBA as generated on approach, except that aircraft scheduled to arrive before 2200 will be permitted to land if they have received an approach clearance before 2230. Ref. MWAR 3.11 and Advisory Circular 36-3.

## NIAGARA FALLS FLIGHT RESTRICTION AREA

## Part 93—Special Air Traffic Rules; Subpart E—Flight Restrictions in the Vicinity of Niagara Falls, New York

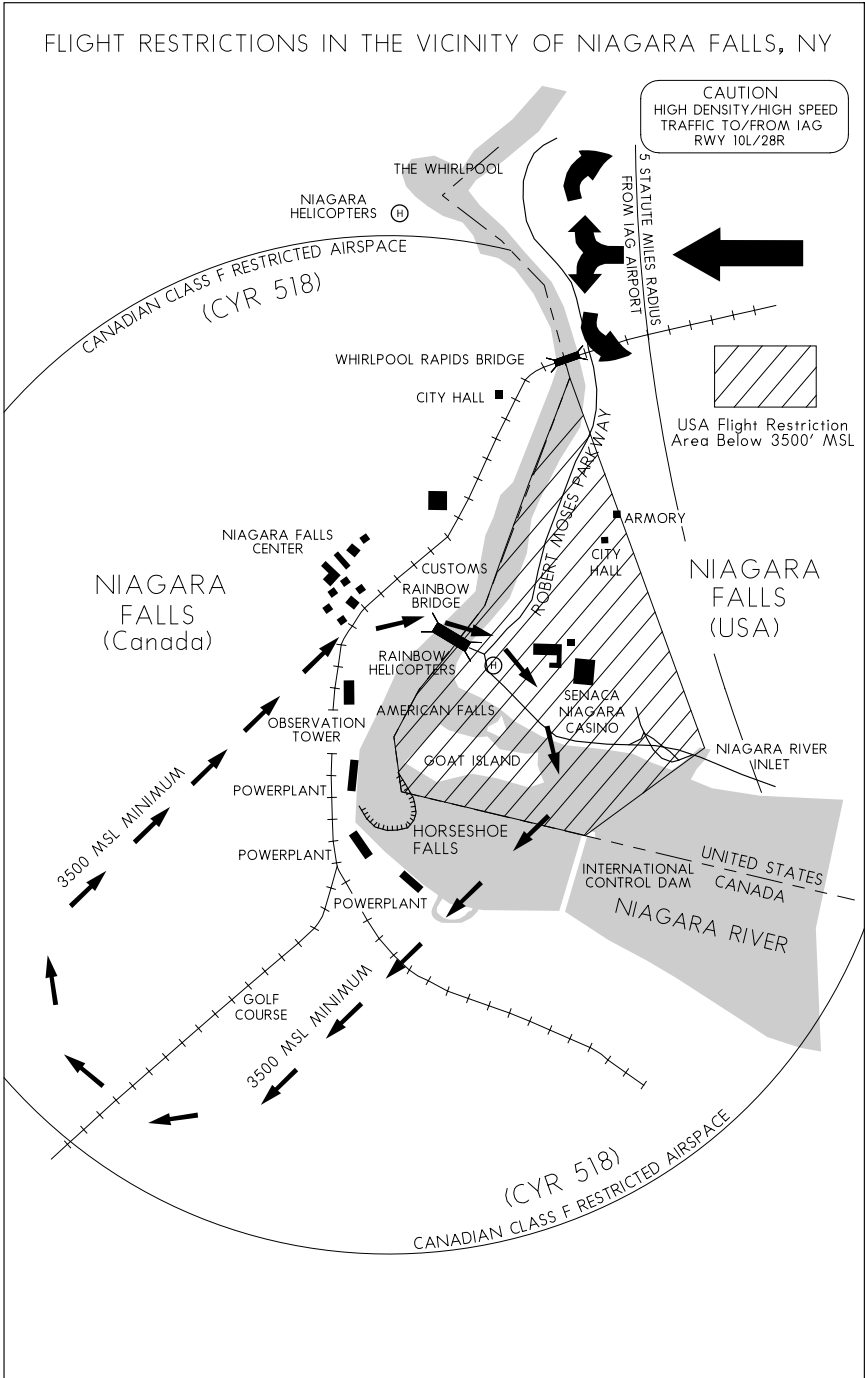
## §93.71 General operating procedures

- (a) Flight restrictions are in effect below 3,500 feet MSL in the airspace above Niagara Falls, New York, west of a line from latitude 43°06'33"N., longitude 78°03'30"W. (the Whirlpool Rapids Bridge) to latitude 43°04'47"N., longitude 79°02'44"W. (the Niagara River Inlet) to latitude 43°04'29"N., longitude 79°03'30"W. (the International Control Dam) to the United States/Canadian Border and thence along the border to the point of origin.
- (b) No flight is authorized below 3,500 feet MSL in the area described in paragraph (a) of this section, except for aircraft operations conducted directly to or from an airport/heliport within the area, aircraft operating on an ATC-approved IFR flight plan, aircraft operating the Scenic Falls Route pursuant to approval of Transport Canada, aircraft carrying law enforcement officials, or aircraft carrying properly accredited news representatives for which a flight plan has been filed with Buffalo NY (BUF) Automated Flight Service Station (AFSS).
- (c) Check with Transport Canada for flight restrictions in Canadian airspace. Commercial air tour operations approved by Transport Canada will be conducting a north/south orbit of the Niagara Falls area below 3,500 feet MSL over the Niagara River.
- (d) The minimum altitude for VFR flight over the Scenic Falls area is 3,500 feet MSL.
- (e) Comply with the following procedures when conducting flight over the area described in paragraph (a) of this section:
  - (1) Fly a clockwise pattern;
  - (2) Do not proceed north of the Rainbow Bridge;
  - (3) Prior to joining the pattern, broadcast flight intentions on frequency 122.05 Mhz, giving altitude and position, and monitor the frequency while in the pattern;
  - (4) Use the Niagara Falls airport altimeter setting. Contact Niagara Falls Airport Traffic Control Tower to obtain the current altimeter setting, to facilitate the exchange of traffic advisories/restrictions, and to reduce the risk of midair collisions between aircraft operating in the vicinity of the Falls. If the Control Tower is closed, use the appropriate Automatic Terminal Information Service (ATIS) Frequency;
  - (5) Do not exceed 130 knots;
  - (6) Anticipate heavy congestion of VFR traffic at or above 3,500 feet MSL; and
  - (7) Use caution to avoid high-speed civil and military aircraft transiting the area to or from Niagara Falls Airport.
- (f) These procedures do not relieve pilots from the requirements of Sec. 91.113 of this chapter to see and avoid other aircraft.
- (g) Flight following, to and from the area, is available through Buffalo Approach.

CONTINUED ON NEXT PAGE

**SPECIAL NOTICES**  
CONTINUED FROM PRECEDING PAGE

FLIGHT RESTRICTIONS IN THE VICINITY OF NIAGARA FALLS, NY



TERMINAL AREA GRAPHIC NOTICE  
(NOT TO BE USED FOR NAVIGATION)

**White Plains, New York**  
**WESTCHESTER COUNTY AIRPORT NOISE ABATEMENT PROCEDURES**

Noise abatement procedures in effect at all times, contact 914-995-4861.

Airport located in noise sensitive area. Noise monitoring and positive aircraft and helicopter event identification in effect at all times.

High Range Noise Event program: Operators that cause noise levels at or above 93 dBA will be contacted.

Voluntary restraint from flying time period is from midnight to 6:30 am local time. Limit use of reverse thrust.

Run-ups: Must receive prior approval from airport operations. No aircraft with certificated maximum gross weight in excess of 120,000 lbs shall land or take off at the airport without prior permission of the Airport Manager.

For all aircraft above 12,500 lbs: Use SIDs and STARs for noise abatement, conditions permitting; utilize Sound Visual Approach to Runway 34; turn final for Runway 16 outside outer marker.

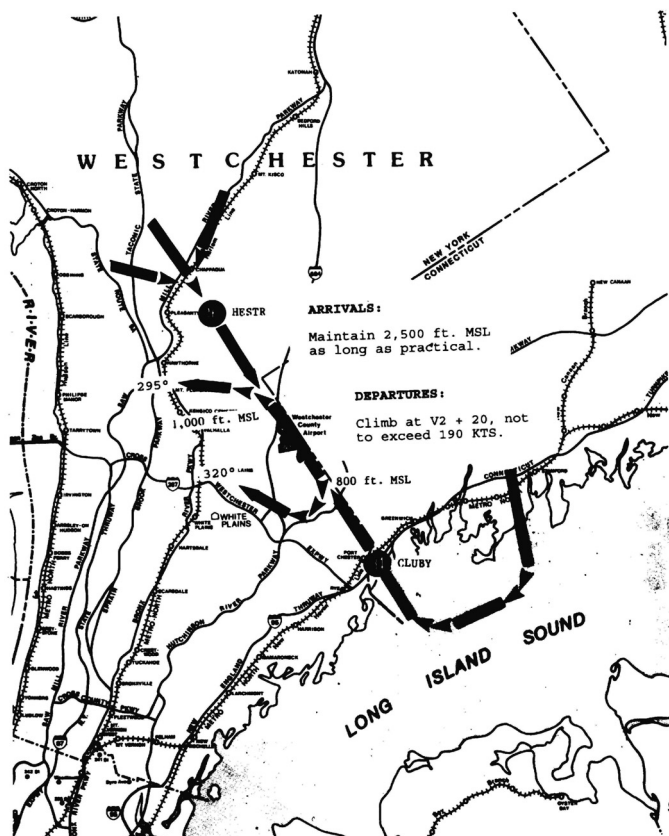
All runways: Utilize NBAA "standard" departure procedures, or AC91-53A "distant" noise abatement departure procedure.

Light aircraft: Runway 34 departures north and eastbound, fly over interstate until reaching 1,500 feet MSL, then on course.

Touch-and-go's: Runway 29 recommended traffic pattern in effect.

Helicopters: Use New York Helicopter Route Chart for noise abatement, fly routes at or above 2,000 ft MSL.

Copies of noise abatement procedures are available.

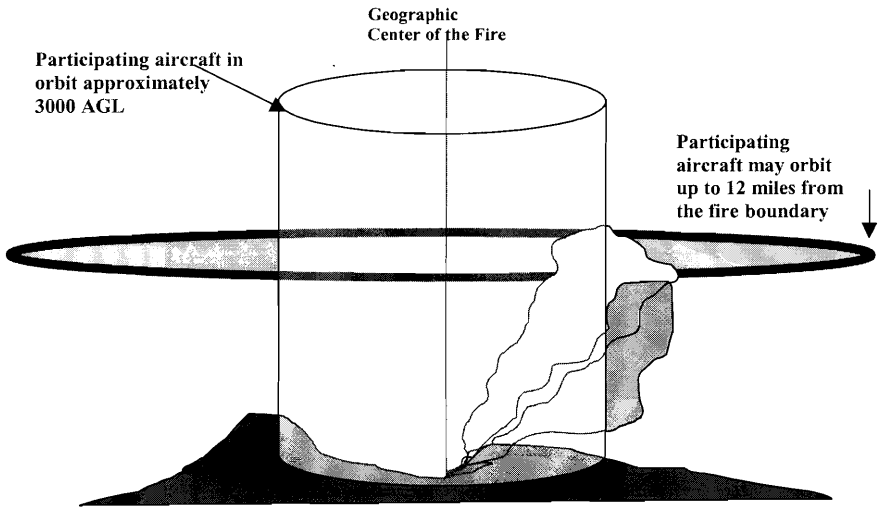




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**FIREFIGHTING TRAFFIC AREAS**


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Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.



The following narratives summarize the FAR Part 93 Special Air Traffic Rules, and Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

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### **OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL**

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

**NOTE:** Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

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**FSS  
TELEPHONE NUMBERS**

**Flight Service Station (FSS)** facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large FSS facilities and a few select remote facilities some of which operate part-time. Because of the interconnectivity between the facilities, all FSS services including radio frequencies are available continuously using published data.

**Telephone Information Briefing Service (TIBS)** is a FSS service that provides continuous recordings of meteorological and/or aeronautical information. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

**NATIONAL FSS TELEPHONE NUMBER**

Pilot Weather Briefings..... 1-800-WX-BRIEF (1-800-992-7433)

**OTHER FSS TELEPHONE NUMBERS (except in Alaska)**

TIBS (see description above) ..... 1-877-4TIBS-WX (1-877-484-2799)  
 Clearance Delivery Only ..... 1-888-766-8267  
 Lifeguard Flights Only ..... 1-877-LIF-GRD3 (1-877-543-4733)  
 Flights within DC SFRA & FRZ \* ..... 1-866-225-7410

\* District of Columbia Special Flight Rules Area & Flight Restricted Zone

**FAA TELEPHONE NUMBERS AND NWS  
KEY AIR TRAFFIC FACILITIES**

**Air Traffic Control System Command Center**

Main Number..... 540-422-4100

**RGNL AIR TRAFFIC DIVISIONS**

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	404-305-6200
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

**AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)**

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	404-305-5156	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	817-222-5006	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	817-222-5006	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	817-222-5006	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	817-222-5006	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	817-222-5006	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	631-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

**MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)**

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	817-222-5006	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas-Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Potomac	718-995-5426	8:00 a.m.-4:30 p.m.	540-349-7500
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

**FAA TELEPHONE NUMBERS AND NWS  
KEY AIR TRAFFIC FACILITIES**

**431**

**DAILY NAS REPORTABLE AIRPORTS**

<b>AIRPORT NAME</b>	<b>*24 HR RGNL DUTY OFFICE TELEPHONE #</b>	<b>BUSINESS HOURS</b>	<b>BUSINESS TELEPHONE #</b>
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	404-305-5156	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	404-305-5156	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	817-222-5006	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	817-222-5006	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	817-222-5006	8:00 a.m.-4:00 p.m.	216-352-2000
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas-Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	817-222-5006	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	817-222-5006	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL George Bush	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-725-3300	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	817-222-5006	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-725-3300	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	817-222-5006	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	817-222-5006	8:00 a.m.-4:00 p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	7:30 a.m.-4:00 p.m.	973-565-5000
Norman Y. Mineta San Jose Intl, CA	310-725-3300	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-725-3300	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-725-3300	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-380-3125
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-0330
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	787-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	817-222-5006	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	571-323-6375
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	561-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

## KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

**TAF** KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT  
FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA  
OVC008CB  
FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR  
FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC

**METAR** KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB  
18/16 A2992 RMK SLP045 T01820159

Forecast	Explanation	Report
<b>TAF</b>	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	<b>METAR</b>
<b>KPIT</b>	ICAO location indicator	<b>KPIT</b>
<b>091730Z</b>	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	<b>091955Z</b>
<b>091818</b>	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times  In U.S. <b>METAR</b> : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	<b>COR</b>
<b>15005KT</b>	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>VaRiaBle</u> ); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for <b>METAR</b> , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260	<b>22015G25KT</b>
<b>5SM</b>	Prevailing visibility: in U.S., <u>Statute Miles</u> & fractions; above 6 miles in <b>TAF</b> <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	<b>3/4SM</b>
<b>HZ</b>	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>"</u> / <u>"</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>FeeT</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No</u> change)	<b>R28L/2600FT</b>
<b>FEW020</b>	Significant present, forecast and recent weather: see table (on back)  Cloud amount, height and type: <u>SKy</u> <u>Clear</u> 0/8, <u>FEW</u> >0/8-2/8, <u>SCaTtered</u> 3/8-4/8, <u>BroKeN</u> 5/8-7/8, <u>OVerCast</u> 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>CumulonimBus</u> in <b>METAR</b> ; in <b>TAF</b> , only <u>CB</u> . <u>Vertical</u> <u>Visibility</u> for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated <b>METAR</b> reports only, <u>CLeaR</u> for "clear below 12,000 feet"  <u>T</u> emperature: degrees Celsius; first 2 digits, temperature <u>"</u> / <u>"</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06  Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; ( <u>Q</u> -hectoPascals, e.g., Q1013)	<b>TSRA</b>  <b>OVC010CB</b>  <b>18/16</b>  <b>A2992</b>

## KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
<p><b>WS010/31022KT</b></p> <p><b>FM1930</b></p> <p><b>TEMPO 2022</b></p> <p><b>PROB40 0407</b></p> <p><b>BECMG 1315</b></p>	<p>In U.S. <b>TAF</b>, non-convective low-level (<math>\leq 2,000</math> ft) <u>Wind Shear</u>; 3-digit height (hundreds of ft); <u>"/"</u>; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u></p> <p>In <b>METAR</b>, <u>ReMark</u> indicator &amp; remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals &amp; tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C</p> <p><u>FroM</u> and 2-digit hour and 2-digit minute <b>beginning</b> time: indicates significant change. Each FM starts on new line, indented 5 spaces.</p> <p><u>TEMPO</u>rary: changes expected for &lt; 1 hour and in total, &lt; half of 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period</p> <p><u>PROB</u>ability and 2-digit percent (30 or 40): probable condition during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period</p> <p><u>BECM</u>inG: change expected during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period</p>	<p><b>RMK</b> <b>SLP045</b> <b>T01820159</b></p>

**Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.**

<b>QUALIFIER</b>			
<b>Intensity or Proximity</b>			
- Light "no sign" Moderate + Heavy			
VC Vicinity: but not at aerodrome; in U.S. <b>METAR</b> , between 5 and 10SM of the point(s) of observation; in U.S. <b>TAF</b> , 5 to 10SM from center of runway complex (elsewhere within 8000m)			
<b>Descriptor</b>			
MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing
<b>WEATHER PHENOMENA</b>			
<b>Precipitation</b>			
DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets
UP Unknown precipitation in automated observations			
<b>Obscuration</b>			
BR Mist ( $\geq 5/8SM$ )	FG Fog ( $< 5/8SM$ )	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust
<b>Other</b>			
SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "( )" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility  $\geq 10$  km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

**UNITED STATES DEPARTMENT OF COMMERCE**

**NOAA/PA 96052      National Oceanic and Atmospheric Administration—National Weather Service**

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

® ATLANTA CENTER

H-6-9-10-12, L-18-22-24-25-26-36, A-1

(KZTL)

Albemarle - 133.15 251.1  
 Anniston - 134.95 323.175  
 Athens - 134.2 127.5 **127.5 120.425 327.15** 316.05 **316.05** 254.35  
 Atlanta/A - 135.0 **135.0 369.9** 317.7 **317.7**  
 Augusta - 128.1 322.325  
 Birmingham - **128.725** 127.3 **350.325** 251.05  
 Chattanooga - **133.175** 132.05 **126.675 124.875 363.1** 354.025 **299.2 257.675**  
 Columbus - **125.575** 120.45 **353.95** 298.85  
 Foothills - **124.375 353.925**  
 Gadsden - 124.5 270.325  
 Glade Springs - 127.85 371.85  
 Greensboro - 128.8 **124.425** 360.825 **323.025**  
 Hampton - **127.125** 121.5 **121.5 119.375 371.95 363.25 306.975** 268.7 243.0 **243.0**  
 Hickory - 134.55 125.15 **369.9** 290.2 263.0  
 Hinch Mountain - 133.6 **125.925 269.175** 254.3  
 Macon - 134.5 **126.425** 123.95 379.95 360.75 342.425 **335.65** 269.625 **269.625** 263.075 **263.075 257.9**  
 Millen - 127.95 343.75  
 Monroeville - 118.55 267.9  
 Montgomery - **128.025** 120.55 **307.15** 280.1 **280.1** 270.25  
 Mount Oglethorpe - 134.8 133.1 127.05 **127.05** 121.35 **379.95** 377.05 370.9 342.425 **342.425** 282.35  
**282.35**  
 Newport - 127.55 269.5  
 Owing - 135.35 **125.625 123.725 327.0 269.1** 263.125  
 Pine Level - **369.9** 243.0 **243.0**  
 Sugarloaf Mountain - 132.625 121.5 **121.5** 353.625 243.0 **243.0**  
 Tri City - 127.85 **126.775 120.725 353.575** 269.3 **257.775**  
 Uniontown - 132.25 352.8 339.1 327.05 **307.15** 263.025 252.9

® BOSTON CENTER

H-10-11-12, L-30-31-32-33-34

(KZBW)

Augusta - **134.95 307.0**  
 Barnstable - 132.9 128.75 **127.825** 387.1 **370.9 321.3 307.3** 290.3 243.0 **243.0**  
 Berlin - 135.7 **135.7 282.2 282.2**  
 Bucks Harbor - 133.45 **133.45** 290.5 269.3 **269.3**  
 Burlington - 120.35 **120.35 118.825** 342.25 **342.25 251.075**  
 Calverton - 124.525 379.85  
 Caribou - 124.75 121.5 243.0 239.05  
 Concord - 128.325 348.7  
 Cummington - 132.65 379.1  
 Gardner - 134.7 123.75 381.4 338.2 269.475  
 Houlton - **128.05** 120.25 346.4 **319.1** (OCEANIC CONTROL- VIA J55 OCEANIC CONTROL- VIA V39 OCEANIC CONTROL-VIA J55)  
 Hyannis - 133.45 **133.45** 120.125 269.3 **269.3** (OCEANIC CONTROL-VIA-J575/J585/C1141/C1142/C1143/C1144/C1145/ C1146)  
 Islip - 135.8 132.3 346.3 259.1  
 Kingston - 134.3 256.9  
 Lake George - **135.325 133.625 128.325** 121.35 393.3 **360.6 354.1 348.7**  
 Lebanon - 134.7 381.4  
 Melrose - 133.325 127.95 119.25 370.9 353.7 281.5  
 Millinocket - **128.05 319.1**  
 Montpelier - 135.7 **135.7 282.2 282.2**  
 Portland - 128.2 322.4  
 Rockdale - 133.25 **126.475 353.925** 279.5  
 Saint Albans - **128.05** 124.25 120.25 346.4 **321.3 319.1** 290.5 243.0 **243.0**  
 Shelton - 134.0 128.1 126.27 **125.575** 351.7 **343.8** 317.7 306.3  
 South Acton - 322.4 285.4 263.05  
 Turin - 135.25 133.25 **123.875 120.35** 377.1 **377.1** 342.25 **342.25 323.0 321.3** 279.5 243.0 **243.0**  
 Utica - **124.125 353.925 342.25 232.4**  
 Waterboro - 128.2 118.55  
 Woodstock - **135.325** 133.425 **133.425** 127.65 124.85 **118.425** 398.9 **360.6** 307.9 **277.4** 269.2  
**CENTER REMARKS:** THE PROVISION OF ENROUTE PRIM RADAR SVC NOT AVBL IN THE BOS ARTCC WATERTOWN NY AREA AT 12000' & BELOW; ROCKDALE/UTICA NY AREAS AT 11000' & BELOW; DELANCEY NY AREA AT 7000' & BELOW AND IN THE SYRACUSE\*

## ® CLEVELAND CENTER

H-2-5-10-11-12, L-27-28-29-30-31-32

Algonac – 134.775 132.25 126.525 380.6 298.875 285.52 278.8 269.2 244.575 (KZOB)  
 Altoona – 132.125 128.45 124.4 121.2 363.075 327.1 307.1 299.2  
 Belmont – 126.95 124.425 307.075 239.3  
 Bloomingville – 284.625 269.625  
 Bradford – 126.725 291.65  
 Carleton – 134.775 119.95 354.1 269.5 243.0 243.0  
 Chardon – 120.775 298.95  
 Detroit North – 369.9  
 Dubois – 126.725 291.65  
 Dunkirk – 125.2 256.8  
 Findlay – 135.1 127.675 291.725 281.475  
 Flint – 127.7 126.75 348.75 307.8 290.425  
 Holland – 135.775 306.9  
 Jackson – 134.65 127.3 281.425  
 Litchfield – 135.725 134.65 120.45 360.7 285.625 281.425  
 Mansfield – 134.9 133.375 369.9 317.7 290.275  
 Moon Township – 134.475 385.5 369.25 317.45 254.275  
 Mount Hope – 243.0 243.0  
 Paris – 120.6 379.275  
 Saginaw – 133.875 127.7 369.9 351.9 307.8  
 Sandusky – 132.45 127.9 119.875 371.95 348.675 327.0 298.95 284.625  
 Warren – 134.125 119.725 316.1 307.15  
 Waterford – 127.075 323.2 292.175  
 Waterville – 128.625 379.2  
 Wayland – 127.475 124.325 369.9 353.85 346.35 338.35 243.0 243.0

## ® INDIANAPOLIS CENTER – 119.55 124.525 125.55 128.375 133.425 243.0 251.1 290.3 319.8 398.9

H-5-9-10-12, L-16-25-26-27-29

Bluefield – 126.575 257.85 (KZID)  
 Brookville – 135.8 135.125 120.575 351.8 307.9 282.3  
 Charleston – 134.225 127.4 119.525 385.6 307.3 269.6  
 Evansville – 132.525 128.3 379.9 284.65  
 Henryville – 133.05 124.775 278.5 269.45  
 Livingston – 134.675 323.2  
 London – 134.0 124.8 124.625 120.475 380.2 371.925 317.67 290.5 243.0  
 London 2 – 126.57 124.625 121.325 371.925 253.5 246.0  
 Lynch – 126.575 257.85  
 Marietta – 125.55 398.9  
 Marmet – 127.4 385.6 269.6  
 Merwyn – 135.575 123.925 290.5 281.4 239.25  
 New Hope – 124.625 121.175 371.925 353.65  
 Parkersburg – 125.55 398.9  
 Portsmouth – 135.75 135.575 124.225 120.275 363.2 360.725 327.05 290.5 290.4  
 Rosewood – 128.075 269.0  
 Rossville – 319.2  
 Terre Haute – 134.175 132.2 310.8 307.1 270.3  
 Tri City – 124.575 335.6  
 Winchester – 128.22 126.375 343.65 317.75  
 Zanesville – 132.825 125.075 124.45 370.9 353.5 343.6



## ® NEW YORK CENTER

H-9-10-11-12, L-29-30-32-33-34-35-36

(KZNY)

Barnegat – 132.15 **132.15** 354.0  
 Barnstable – **135.8** 125.925 **381.6** 284.75  
 Big Flat – **133.475** 132.2 322.4 **270.3**  
 Colts Neck – 118.975 307.8  
 Douglaston – **134.375** **133.05**  
 Elk Mountain – 134.45 **132.175** 128.5 363.2 **298.9** 290.4  
 Flint Hill – 134.6 132.1 124.625 339.8 290.2 278.3  
 Huguenot – 132.6 285.5  
 Joliet – 133.675 132.5 322.5 292.125  
 Matawan – **127.175** **125.325** **350.3** **282.3**  
 Millville – **134.325** **381.45** **323.3**  
 Modena – 135.45 335.6  
 Nantucket – **121.125**  
 North Mountain – 133.5 **128.575** 123.625 **121.325** **364.8** 282.35 279.55 **273.6** **269.1**  
 Philipsburg – 134.8 **132.875** 338.3 **306.2**  
 Sayre – 133.35 372.0  
 Ship Bottom – 133.05 128.3 353.5 307.8  
 Sparta – 133.15  
 Williamsport – 124.9

## ® WASHINGTON CENTER

H-9-10-12, L-24-25-26-29-34-35-36, A-1

(KZDC)

Atlantic City – **133.12** **281.45**  
 Bucks Elbow – 135.4 133.2 **133.2** **121.675** **371.9** 296.7 **284.7** 282.2 **282.2** 263.1  
 Buena Vista – **134.625** 134.4 **133.025** 127.925 **377.2** 353.9 **319.0** **269.375**  
 Cape Charles – **128.525** **275.7**  
 Cedar Lake – 124.77 **124.77** 362.3 **362.3**  
 Elkins – 128.6 387.1  
 Falls Church – **135.525** **133.97** **132.775** **126.875** **381.5** **357.6** **351.8**  
 Grantsville – 133.65 285.6  
 Green Bay – **133.725** **132.025** 127.75 118.75 380.3 377.1 **351.9** 290.425 **269.4**  
 Hagerstown – 134.15 **134.15** 227.125 **227.125**  
 Johnsonville – 135.2 **118.925** 348.65 **322.45**  
 Linden – 133.55 322.55  
 Manteo – 124.725 350.35  
 Millville – 125.45 **125.45** 363.0 **363.0**  
 Modena – 132.525 287.9  
 New Bern – 135.5 281.425 **256.7**  
 Patuxent River – 133.9 281.4  
 Roanoke – **134.625** **377.2**  
 Rocky Mount – **132.225** 118.475 **354.1** 279.65  
 Sampson – 135.3 285.5  
 Sea Isle – 127.7 285.4  
 Ship Bottom – **127.025** **254.3**  
 Smyrna – 132.05 277.4  
 Snow Hill – 132.55 256.8  
 South Boston – 124.05 307.0  
 Whaleyville – **133.825** 123.85 **327.8** 323.0 **296.7** **258.1**  
 White Sulphur Springs – 120.85 (FREQ USED FOR CLEARANCE DELIVERY FOR GREENBRIER VALLEY ARPT AT LEWISBURG WV. NOT FOR ENROUTE USE)  
 Wilmington – **135.75** **124.025** **269.15**

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VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. 'T' indicates transmit only and 'R' indicates receive only. RCO's available at NAVAID's are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

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### ALTOONA RADIO

ALLEGHENY RCO 122.2 122.4 255.4  
ALLEGHENY VOR/DME 110.0T 122.1R  
ALTOONA RCO 121.5 122.1R 122.2 122.65 243.0 255.4  
BRADFORD RCO 122.2 122.3  
BRADFORD VOR/DME 116.6T 122.1R  
CLARION VOR/DME 112.9T 122.1R  
DU BOIS RCO 122.2  
ELLWOOD CITY VORTAC 115.8T 122.1R  
ERIE VORTAC 109.4T 122.1R  
FRANKLIN VOR 109.6T 122.1R  
INDIAN HEAD VORTAC 108.2T 122.1R  
JOHNSTOWN VORTAC 113.0T 122.1R 122.65  
KEATING VORTAC 116.0T 122.1R  
MONTOUR VORTAC 112.0T 122.1R  
PHILIPSBURG RCO 121.5 122.6 243.0 255.4 **122.5** (FREQ 122.5 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
PHILIPSBURG VORTAC 115.5T 122.1R (FREQ 122.5 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
REVLOC VOR/DME 110.6T 122.1R  
SLATE RUN VORTAC 113.9T 122.1R  
ST MARYS RCO 121.3  
ST THOMAS VORTAC 115.0T 122.1R  
TIDIOUTE VORTAC 117.6T 122.1R

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### BANGOR RADIO

AUGUSTA VOR/DME 111.4T 122.1R 122.2 122.6  
BANGOR RCO 121.5 122.2 243.0 255.4  
BELFAST RCO 121.975  
BERLIN RCO 122.35  
BUCKS HARBOR RCO 122.5  
CARIBOU RCO **122.3** (FREQ 122.3 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
CLAREMONT RCO 122.4  
CONCORD RCO 122.2 **122.3** (FREQ 122.3 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
FRYEBURG RCO 122.55  
GREENVILLE RCO **122.3** (FREQ 122.3 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
HOULTON VOR/DME 116.1T 122.1R 122.2  
KEENE VORTAC 109.4T 122.1R  
KENNEBUNK VOR/DME 117.1T 122.1R  
LEBANON RCO 122.2 122.5 255.4  
LEBANON VOR/DME 113.7T 122.1R  
MANCHESTER VOR/DME 114.4T 122.1R  
MILLINOCKET RCO 123.6 255.4  
MILLINOCKET VOR/DME 117.9T 122.1R (NO GIM HOURS)  
WATERBORO RCO 122.25  
WHITEFIELD RCO 122.4

**BRIDGEPORT RADIO**

BOSTON RCO 122.4 255.4  
 BOSTON VOR/DME 112.7T 122.1R  
 BRIDGEPORT VOR/DME 108.8T 121.5 122.1R 122.2 243.0  
 CHESTER RCO 122.25  
 FITCHBURG RCO 118.025  
 GARDNER VOR/DME 110.6T 122.1R  
 GROTON VOR/DME 110.9T 122.1R  
 HYANNIS RCO 126.425  
 LAWRENCE VOR/DME 112.5T 122.1R  
 MADISON VOR/DME 110.4T 122.1R  
 MANSFIELD RCO 121.725  
 MARTHAS VINEYARD VOR/DME 114.5T 122.1R  
 NANTUCKET VOR/DME 116.2T 122.1R  
 NEW HAVEN VOR/DME 109.8T 122.1R  
 NORWICH VOR/DME 110.0T 122.1R  
 PROVIDENCE VOR/DME 122.6 255.4  
 PUTNAM VOR/DME 117.4T 122.1R  
 QUONSET STATE RCO 122.3  
 WINDSOR LOCKS RCO 122.3 255.4  
 WORCESTER RCO 122.2 255.4

**BUFFALO RADIO**

BINGHAMTON VORTAC 112.2T 122.1R  
 BUFFALO RCO 121.5 122.1R 122.2 122.6 243.0  
 DUNKIRK VORTAC 116.2T 122.1R  
 ELMIRA RCO 121.5 122.1R 122.2 122.4 243.0 255.4  
 GENESEO VOR/DME 108.2T 122.1R  
 GEORGETOWN VORTAC 117.8T 122.1R  
 HANCOCK VOR/DME 116.8T 122.1R  
 ITHACA VOR/DME 111.8T 122.1R  
 JAMESTOWN VOR/DME 114.7T 122.1R  
 ROCHESTER RCO 122.6  
 ROCKDALE VOR/DME 112.6T 122.1R  
 UTICA VOR/DME 117.4T 122.1R 122.2 122.65  
 UTICA VORTAC 111.2T 122.1R 122.2 122.65  
 WELLSVILLE VORTAC 111.4T 122.1R

**BURLINGTON RADIO**

ALBANY RCO **122.45** (FREQ 122.45 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 ALBANY VORTAC 115.3T 122.1R (FREQ 122.45 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 BARNES VORTAC 113.0T 122.1R  
 BURLINGTON RCO 122.2 122.6 255.4  
 CHESTER VOR/DME 115.1T 122.1R  
 GLENS FALLS RCO 122.2 **122.4** (FREQ 122.4 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 GLENS FALLS VORTAC 110.2T 122.1R (FREQ 122.4 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 MASSENA RCO 122.2  
 MONTPELIER RCO 122.2 122.6  
 NEWPORT RCO 122.5  
 OGDENSBURG RCO **122.4** (FREQ 122.4 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 PITTSFIELD RCO **122.05** (FREQ 122.05 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 RUTLAND RCO 122.3  
 SARANAC LAKE VOR/DME 109.2T 122.1R  
 SPRINGFIELD RCO 122.5  
 WATERTOWN RCO 122.2 **122.3** (FREQ 122.3 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 WATERTOWN VORTAC 109.8T 122.1R (FREQ 122.3 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)

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**ELKINS RADIO**

BECKLEY VORTAC 117.7T 122.1R  
BLUEFIELD RCO 122.2 122.65  
BLUEFIELD VORTAC 110.0T 122.1R  
CHARLESTON RCO 122.2 255.4 **122.55** (FREQ 122.55 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE)  
CHARLESTON VORTAC 117.4T 122.1R (FREQ 122.55 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE)  
CLARKSBURG VOR/DME 112.6T 122.1R  
CUMBERLAND RCO 122.35  
ELKINS VORTAC 114.2T 121.5 122.1R 122.2 122.45 243.0 255.4 (122.45 FREQ 122.45 AVBL ALL ALTS; RCMD FOR FL180 AND ABOVE.)  
GRANTSVILLE VOR/DME 112.3T 122.1R  
HENDERSON VORTAC 115.9T 122.1R  
HUNTINGTON RCO 122.2 255.4 **122.6** (FREQ 122.6 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE)  
IVY KNOB RCO 124.3  
KESSEL VOR/DME 110.8T 122.1R  
MARTINSBURG RCO 122.45  
MORGANTOWN VORTAC 111.6T 122.1R 122.6  
PARKERSBURG VORTAC 108.6T 122.1R 122.4  
RAINELLE VOR 116.6T 122.1R  
WHEELING VOR/DME 112.2T 118.65 122.1R

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**LEESBURG RADIO**

ARMEL VOR/DME 113.5T 122.1R  
BALTIMORE VORTAC 115.1T 122.1R 122.2 255.4  
BROOKE VORTAC 114.5T 122.1R  
BUCK'S ELBOW MOUNTAIN RCO 122.2 122.65  
CAPE CHARLES VORTAC 112.2T 122.1R  
CASANOVA VORTAC 116.3T 122.1R  
CHARLOTTESVILLE RCO 121.5 122.2 122.65 243.0 255.4  
DANVILLE RCO 122.2 (2200-0600)  
FALLS CHURCH RCO 122.2 122.6  
FLAT ROCK VORTAC 113.3T 122.1R  
FRANKLIN VORTAC 110.6T 122.1R  
FREDERICK VOR 109.0T 122.1R  
GLADE SPRING VOR/DME 110.2T 122.1R  
GORDONSVILLE VORTAC 115.6T 121.5 122.1R 243.0 255.4  
HAGERSTOWN VOR 109.8T 122.1R  
HARCUM VORTAC 108.8T 122.1R  
HOPEWELL VORTAC 112.0T 122.1R  
LAWRENCEVILLE VORTAC 112.9T 122.1R  
LEESBURG RCO 121.5 122.2 122.6 243.0 255.4  
LINDEN VORTAC 114.3T 122.1R  
LYNCHBURG VORTAC 109.2T 122.1R  
MARTINSBURG VORTAC 112.1T 122.1R  
MONTEBELLO VOR/DME 115.3T 122.1R  
NEWPORT NEWS RCO 121.5 122.2 122.65 243.0 255.4  
NORFOLK VORTAC 116.9T 122.1R 273.475  
NOTTINGHAM VORTAC 113.7T 122.1R  
PATUXENT VORTAC 117.6T 122.1R  
PULASKI RCO 122.3  
PULASKI VORTAC 116.8T 122.1R  
RICHMOND VORTAC 114.1T 122.1R 122.2 122.4 (FREQ 122.4 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
ROANOKE REGIONAL/WOODRUM \* RCO 122.1R 122.2 122.6  
SALISBURY RCO 121.5 122.2 122.3 243.0 255.4  
SALISBURY VORTAC 111.2T 122.1R  
SNOW HILL VORTAC 112.4T 122.1R 122.6  
SOUTH BOSTON VORTAC 110.4T 122.1R  
WESTMINSTER VORTAC 117.9T 122.1R

**MILLVILLE RADIO** 122.1R 122.2 122.65

ATLANTIC CITY RCO 122.55  
 BROADWAY RCO 122.35  
 CEDAR LAKE VORTAC 115.2T 122.1R  
 COLTS NECK RCO 122.3  
 COYLE VORTAC 113.4T 122.1R  
 DUPONT VORTAC 114.0T 122.1R  
 MILLVILLE RCO 121.5 122.1R 122.2 243.0 255.4  
 ROBBINSVILLE VORTAC 113.8T 122.1R 122.45  
 SEA ISLE VORTAC 114.8T 122.1R  
 SMYRNA VORTAC 111.4T 122.1R  
 SOLBERG VOR/DME 112.9T 122.1R  
 SPARTA RCO 122.5  
 STILLWATER VOR/DME 109.6T 122.1R  
 TETERBORO RCO 122.2 255.4 **122.65** (2200-0600) (FREQ 122.65 AVBL ALL ALTS; RECOMMENDED FOR FL180 AND ABOVE.)  
 WATERLOO VOR/DME 112.6T 122.1R  
 WOODSTOWN VORTAC 112.8T 122.1R

**NEW YORK RADIO** 11309 NORTH ATLANTIC FAMILY E 11342 LONG DISTANCE OPS CTL FAC 11387 CARIBBEAN FAMILY

B 11396 CARIBBEAN FAMILY A 13297 CARIBBEAN FAMILY A 13306 NORTH ATLANTIC FAMILY A 13330 LONG DISTANCE OPS CTL FAC 13354 NORTH ATLANTIC FAMILY E 17907 CARIBBEAN FAMILY A 17907 CARIBBEAN FAMILY B 17925 LONG DISTANCE OPS CTL FAC 17946 NORTH ATLANTIC FAMILY A 17946 NORTH ATLANTIC FAMILY B 17964 NORTH ATLANTIC FAMILY E 21964 LONG DISTANCE OPS CTL FAC 2887 CARIBBEAN FAMILY A 3016 NORTH ATLANTIC FAMILY A 3455 CARIBBEAN FAMILY B 3494 LONG DISTANCE OPS CTL FAC 5520 CARIBBEAN FAMILY B 5550 CARIBBEAN FAMILY A 5598 NORTH ATLANTIC FAMILY A 6577 CARIBBEAN FAMILY A 6586 CARIBBEAN FAMILY B 6628 NORTH ATLANTIC FAMILY E 6640 LONG DISTANCE OPS CTL FAC 8825 NORTH ATLANTIC FAMILY E 8846 CARIBBEAN FAMILY A 8846 CARIBBEAN FAMILY B 8906 NORTH ATLANTIC FAMILY A 8918 CARIBBEAN FAMILY A (VOLMET FREQ 3485 BCSTS FROM 1 HR AFTER SS TO 1 HR BEFORE SR; FREQ 13270 BCSTS 1 HR BEFORE SR TO 1 HR AFTER SS. FREQS 6604 & 10051 PRVD 24-)  
 HAMPTON VORTAC 113.6T 122.1R 122.6  
 HUGUENOT VOR/DME 116.1T 122.1R  
 KENNEDY VOR/DME 115.9T 122.1R  
 KINGSTON VOR/DME 117.6T 122.1R  
 LA GUARDIA VOR/DME 113.1T 122.1R  
 NEW YORK RCO 121.5 122.2 122.6 243.0 255.4  
 POUGHKEEPSIE RCO 121.5 122.2 122.4 243.0 255.4

**WILLIAMSPORT RADIO**

ALLENTOWN VORTAC 117.5T 122.1R  
 HARRISBURG RCO 122.2 122.4  
 HARRISBURG VORTAC 112.5T 122.1R  
 LANCASTER VOR/DME 117.3T 122.1R  
 MODENA VORTAC 113.2T 122.1R  
 NORTH PHILADELPHIA RCO 122.2 122.6  
 POTTSTOWN VORTAC 116.5T 122.1R  
 RAVINE VORTAC 114.6T 122.1R  
 SELINGSGROVE VORTAC 110.4T 122.1R  
 STONYFORK VOR/DME 108.6T 122.1R  
 WILKES-BARRE RCO 122.2 122.6  
 WILLIAMSPORT RCO 121.5 122.2 122.65 243.0 255.4  
 WILLIAMSPORT VOR/DME 114.4T 122.1R  
 YARDLEY VOR/DME 108.2T 122.1R

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

Flight Standards personnel in these offices are responsible for serving the aviation industry and the general public on all matters relating to the certification and operation of general aviation aircraft.

## CONNECTICUT

1st Floor, Building 85-214  
Bradley International Airport  
Windsor Locks, Connecticut 06096-1009  
Telephone: 860-654-1000  
Fax: 860-654-1009

## DISTRICT OF COLUMBIA

Hallmark Building  
13873 Park Center Road, Suite 475  
Herndon, VA 20171  
Telephone: 703-230-7664  
Fax: 703-230-7720

## MAINE

Portland International Jetport  
412 Yellow Bird Rd.  
Portland, Maine 04102  
Telephone: 207-780-3263  
Fax: 207-780-3296

## MARYLAND

890 Airport Park Road  
Cromwell Business Park, Suite 101  
Glen Burnie, Maryland 21061  
Telephone: 410-787-0040  
Fax: 410-787-8708

## MASSACHUSETTS

12 New England Executive Park—First floor  
Burlington, Massachusetts 01803-5212  
Telephone: 781-238-7500  
Fax: 781-357-4899

## NEW JERSEY

Park 80 West, Plaza One  
250 Pehle Avenue, Suite 003  
Saddle Brook, New Jersey 07663  
Telephone: 201-556-6600  
Fax: 201-556-6623

## NEW YORK

7 Airport Park Boulevard  
Latham, New York 12110  
Telephone: 518-785-5660  
Fax: 518-785-7165

7150 Republic Airport  
Suite 235  
Farmingdale, New York 11735  
Telephone: 631-755-1300  
Fax: 631-694-5516

990 Stewart Ave., Suite 630  
Garden City, NY 11530-4858  
Telephone: 516-228-8029  
Fax: 516-228-8827

#1 Airport Way, Suite 110  
Rochester, New York 14624  
Telephone: 585-436-3880  
Fax: 585-436-2322

## PENNSYLVANIA

101 Towne Square Way  
Suite 201  
Pittsburgh, Pennsylvania 15227  
Telephone: 412-886-2580  
Fax: 412-886-2591

Allentown—Bethlehem—Easton Airport  
961 Marcon Blvd., Suite 111  
Allentown, Pennsylvania 18103  
Telephone: 610-264-2888  
Fax: 610-264-3179

Capital City Airport  
400 Airport Rd, Room 101  
New Cumberland, Pennsylvania 17070  
Telephone: 717-774-8271  
Fax: 717-774-8327

2 International Plaza  
Suite 110  
Philadelphia, Pennsylvania 19113  
Telephone: 610-595-1500  
Fax: 610-595-1519

## VIRGINIA

Richmond International Airport  
5707 Huntsman Rd, Suite 100  
Richmond, Virginia 23250-2415  
Telephone: 804-222-7494

## WEST VIRGINIA

Yeager Airport  
301 Eagle Mountain Road, Room 144  
Charleston, West Virginia 25311  
Telephone: 304-347-5199  
Fax: 304-343-2011

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300) or (1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.IOWA

### CONNECTICUT VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Carmel</b> (Danbury Muni)	116.6/CMK	A/1500	050	6.7	Over apch end of Rwy 08.
<b>Madison</b> (Chester)	110.4/MAD	A/1500	076	9.4	Over small hangar.
<b>Madison</b> (Meriden Markham Muni)	110.4/MAD	A/1500	345	13.4	Over small hangar.
<b>Norwich</b> (Windham)	110.0/ORW	A/1500	339	13.9	Over intersection of rwy and twy.
<b>Putnam</b> (Danielson)	117.4/PUT	A/1300	211	8.5	Over int of ramp taxiway and rwy.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Bradley Intl</b> .....	111.4	G	
<b>Bridgeport</b> (Igor I. Sikorsky Mem) .....	109.25	G	
<b>Groton</b> (Groton-New London) .....	110.25	G	
<b>Hartford</b> (Hartford-Brainard) .....	108.2	G	

### DELAWARE VOR RECEIVER CHECK POINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Smyrna</b> (Delaware Airpark)	111.4/ENO	A/1000	267	3.6	Over thld Rwy 27.
<b>Wilmington</b> (New Castle)	114.0/DQO	G	284	0.6	On Twy 'K' at Rwy 09.

MAINE

VOR RECEIVER CHECKPOINTS

Facility Name (Arprt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Bangor</b> (Bangor Intl)	114.8/BGR	G	153	3.8	On runup area Rwy 33.
<b>Kennebunk</b> (Sanford Rgnl)	117.1/ENE	A/1300	267	4.5	Over Twy C and dsplcd thld Rwy 14.
<b>Presque Isle</b> (Caribou Muni)	116.4/PQI	A/1700	051	6.5	Over intersection of rwys.
<b>Presque Isle</b> (Northern Maine Rgnl Arprt at Presque Is)	116.4/PQI	A/2000	180	5.7	Over intersection of rwys.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Portland Intl Jetport</b> .....	111.0	G	
<b>Bangor Intl</b> .....	111.0	G	

MARYLAND

VOR RECEIVER CHECKPOINTS

Facility Name (Arprt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Frederick</b> (Frederick Muni)	109.0/FDK	G	035	0.6	On runup pad apch end Rwy 23.
<b>Frederick</b> (Frederick Muni)	109.0/FDK	G	359	0.6	Intersection Twy B and Twy C
<b>Frederick</b> (Montgomery County Airpark)	109.0/FDK	A/2000	155	17.2	Over apch end Rwy 14.
<b>Hagerstown</b> (Hagerstown Rgnl-Richard A Henson Fld)	109.8/HGR	A/1700	089	6.0	Over new ATCT.
<b>Patuxent River NAS</b> (Trapnell fld)	117.6/PXT	G	250	0.5	AER Rwy 02 and Rwy 06 and Twy A.
<b>Patuxent River NAS</b> (Trapnell fld)	117.6/PXT	G	291	0.5	Intersection Twy B and Twy E.
<b>Salisbury</b> (Ocean City Muni)	111.2/SBY	A/1300	109	18.6	Intersection of twy and Rwy 32.
<b>Salisbury</b> (Salisbury-Ocean City Wicomico Rgnl)	111.2/SBY	G	221	0.7	Runup pad Rwy 05.



## VOR RECEIVER CHECKPOINTS and VOR TEST FACILITIES

**MASSACHUSETTS**  
**VOR RECEIVER CHECKPOINTS**

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Gardner</b> (Fitchburg Muni)	110.6/GDM	A/1500	102	13.0	Over intersection of rwys.
<b>Gardner</b> (Metropolitan)	110.6/GDM	A/2000	097	1.9	Over intersection of twy and rwy.
<b>Gardner</b> (Worcester Rgnl)	110.6/GDM	A/2000	167	18.8	Over intersection of Rwys 11-29 and 15-33.
<b>Lawrence</b> (Plum Island)	112.5/LWM	A/1500	089	11.8	Over apch end Rwy 10.
<b>Marthas Vineyard</b> (Marthas Vineyard)	114.5/MVY	G	216	0.7	On runup block for Rwy 06.
<b>Nantucket</b> (Nantucket Memorial)	116.2/ACK	G	242	1.9	On runup area at apch end Rwy 24.
<b>Putnam</b> (Southbridge Muni)	117.4/PUT	A/1700	329	12	Over intersection of twy and rwy.

**VOT TEST FACILITIES (VOT)**

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Laurence G. Hanscom</b> .....	110.0	G	
<b>Gen. Ed. Lawrence Logan Intl.</b> .....	111.0	G	
<b>Worcester Rgnl.</b> .....	108.2	G	

**NEW HAMPSHIRE**  
**VOR RECEIVER CHECKPOINTS**

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Berlin</b> (Berlin Rgnl)	110.4/BML	A/2600	190	6.0	Over ski jump on W side of road.
<b>Gardner</b> (Jaffrey Arpt-Silver Ranch)	110.6/GDM	A/2000	023	15.8	Over intersection of rwy and twy.
<b>Lebanon</b> (Lebanon Muni)	113.7/LEB	A/1600	246	5.0	Over intersection of Rwys 07-25 and 18-36.
	113.7/LEB	G	248	5.1	On Bravo-Two twy.
<b>Pease</b> (Portsmouth Intl at Pease)	116.5/PSM	G	015	0.4	North runup pad.
		G	157	1.5	On south runup pad.
<b>Pease</b> (Skyhaven)	116.5/PSM	A/1500	356	12.6	Over windsock.

**NEW JERSEY**  
**VOR RECEIVER CHECKPOINTS**

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Cedar Lake</b> (Millville Muni)	115.2/VCN	A/1500	215	11.4	Over intersection Rwys 10-28 and 14-32.
<b>Coyle</b> (Lakewood)	113.4/CYN	A/1000	048	18.9	Over apch end Rwy 06.
<b>Coyle</b> (Ocean Co)	113.4/CYN	A/1500	054	9.0	Over apch end Rwy 06.
<b>Robbinsville</b> (Trenton-Robbinsville)	113.8/RBV	A/1200	289	5.2	Over apch end Rwy 11.
<b>Sea Isle</b> (Cape May County)	114.8/SIE	A/1200	236	6.8	Over apch end Rwy 19.
<b>Wrightstown</b> (McGuire Fld (Joint Base McGuire DIX Lakehurst))	110.6/GXU	G	212	0.3	Rwy 06 runup pad.
<b>Yardley</b> (Trenton Mercer)	108.2/ARD	A/1500	080	4.5	Over ATCT.

NEW YORK

VOR RECEIVER CHECKPOINTS

Facility Name (Arprt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Binghamton</b> (Tri-Cities)	112.2/CFB	A/2000	170	5.0	Over rwy intersection.
<b>Dunkirk</b> (Chautauqua Co/Dunkirk)	116.2/DKK	G	043	0.5	On twy adjacent to the apch end Rwy 24.
<b>Glens Falls</b> (Floyd Bennett Memorial)	110.2/GFL	G	034	0.5	On runup area Rwy 19.
<b>Groton</b> (Elizabeth Field)	110.85/GON	A/1200	183	4.8	Over intersection of rwys.
<b>Huguenot</b>	116.1/HUO	A/3000	222	6.2	Over monument on hill.
<b>Huguenot</b> (Randall)	116.1/HUO	A/1500	093	8.8	Over apch end Rwy 08.
<b>Ithaca</b> (Tompkins Rgnl)	111.8/ITH	G	157	0.8	On twy apch end Rwy 32.
<b>Jamestown</b> (Chautauqua County/Jamestown)	114.7/JHW	A/2500	260	6.2	Over hangar NE corner of arpt.
<b>Kingston</b> (Sky Acres)	117.6/IGN	A/2500	070	5.0	Over intersection of twy and Rwy 17-35.
<b>Kingston</b> (Sky Park)	117.6/IGN	A/1500	010	18.8	Over apch end Rwy 01.
<b>Poughkeepsie</b> (Dutchess County)	114.3/PWL	A/1500	248	15.2	Over intersection Rwys 15-33 and 06-24.
<b>Rockdale</b> (Oneonta Muni)	112.6/RKA	A/3000	078	8.5	Over hangar.
<b>Rockdale</b> (Sidney Muni)	112.6/RKA	A/2200	229	12.5	Over hangar.
<b>Rochester</b> (Greater Rochester Intl)	110.0/ROC	G	98	0.6	On Twy T between ramp and Twy F.
<b>Saranac Lake</b>	109.2/SLK	A/3000	141	4.2	Over microwave tower on Mt Pisgah.
<b>Watertown</b> (Watertown Intl)	109.8/ART	G	046	3.0	On ramp in front of administration building.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Albany Intl</b> .....	108.2	G	VOT unusable north of Twy M.
<b>Buffalo Niagara Intl</b> .....	109.0	G	
<b>New York</b> (Long Island MacArthur) .....	109.4	G	

## VOR RECEIVER CHECKPOINTS and VOR TEST FACILITIES

**PENNSYLVANIA**  
**VOR RECEIVER CHECKPOINTS**

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Bradford</b> (Bradford Rgnl)	116.6/BFD	G	321	1.1	On SE twy midway between ramp and Rwy 32.
<b>Clarion</b> (Clarion County)	112.9/CIP	A/3000	286	10.9	Over center of interstate bridge/river.
<b>Lancaster</b> (Lancaster)	117.3/LRP	G	306	0.5	North of Twy M on non-movement twy.
<b>Milton</b> (Bloomsburg Muni)	109.2/MIP	A/1500	108	10.3	Over threshold Rwy 09.
<b>North Philadelphia</b> (Northeast Philadelphia)	112.0/PNE	G	215		Twy F.
<b>Philipsburg</b> (Mid-State)	115.5/PSB	G	256	4.5	On twy over intersection Rwys 06-24 and Twy J.
<b>Pottstown</b> (Pottstown Muni)	116.5/PTW	A/1500	303	5.6	Over E hangar. OTS indef
<b>Ravine</b> (Muir AAF)	114.6/RAV	A/2500	179	7.7	Over water twr 1/2 NM NE of rwy.
<b>Ravine</b> (Schuylkill County/Joe Zerbey)	114.6/RAV	A/2000	060	13.9	Over intersection of Rwys 11-29 and 04-22.
<b>Solberg</b> (Doylestown)	112.9/SBJ	A/1500	240	22.6	Over apch end Rwy 23.
<b>Stonyfork</b> (Wellsboro Johnston)	108.6/SFK	A/3600	111	6.5	Over 2558' tower.
<b>Wilkes-Barre</b> (Pocono Mountains Muni)	111.6/LVZ	A/3000	131	16.2	Over intersection of Rwys 05-23 and 13-31.

**VOR TEST FACILITIES (VOT)**

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Harrisburg Intl</b> .....	110.0	G	
<b>Philadelphia Intl</b> .....	109.8	G	Unusable west of Twy Y.

**RHODE ISLAND**  
**VOR RECEIVER CHECKPOINTS**

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Providence</b> (Newport State)	115.6/PVD	A/1400	164	13.4	Over intersection of rwys.
<b>Providence</b> (North Central State)	115.6/PVD	A/1500	360	12.2	Over intersection of rwys.
<b>Groton</b> (Block Island State)	110.85/GON	A/1800	129	23.5	Over terminal building.

**VOR TEST FACILITIES (VOT)**

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Providence</b> (Theodore Francis Green State).....	108.2	G	

**VERMONT**  
**VOR TEST FACILITIES (VOT)**

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Burlington Intl.</b> .....	109.0	G	

**VIRGINIA**  
**VOR RECEIVER CHECKPOINTS**

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Cape Charles</b> (Campbell Field)	112.2/CCV	A/1000	050	8.9	Over rwy intersection.
<b>Cape Charles</b> (Tangier Island)	112.2/CCV	A/1500	010	28.4	Over apch end Rwy 02.
<b>Danville</b> (Danville Rgnl)	113.1/DAN	G	354	0.4	On Twy A in front GA ramp
<b>Flat Rock</b> (Farmville Rgnl)	113.3/FAK	A/1600	257	31	Over intersection of twy and rwy.
<b>Lynchburg</b> (Lynchburg Rgnl–Preston Glenn Field)	109.2/LYH	G	026	5.0	West runup area adjacent to Rwy 22.
<b>Norfolk</b> (Norfolk Intl)	116.9/ORF	G	031	0.6	At center of twy E 250' NW of centerline of Rwy 23.
<b>Richmond</b>	114.1/RIC	A/2100	306	8.5	Over 1054' twr.
<b>Richmond</b> (Richmond Intl)	114.1/RIC	G	005	0.9	On run up area Rwy 16 Twy.
		G	344	0.9	On twy in front of Aeronautical Services hangar.
		G	138	0.7	Twy front of Army Guard ramp.

**WEST VIRGINIA**  
**VOR RECEIVER CHECKPOINTS**

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Lewisburg</b> (Greenbrier Valley)	116.05/LWB	G	235	0.9	On Twy A northwest on Twy E.
<b>Morgantown</b> (Morgantown Muni–Walter L. Bill Hart Fld)	111.6/MGW	G	337	5.8	Intersection of Twys A and C.
<b>Parkersburg</b> (Mid–Ohio Valley Rgnl)	108.6/JPU	G	211	6.3	Intersection of Twy A and Twy D.
<b>Wheeling</b> (Wheeling Ohio Co)	112.2/HLG	G	223	5.9	On twy on east side of ramp.

**VOR TEST FACILITIES (VOT)**

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Charleston</b> (Yeager)	108.8	G	

## PARACHUTE JUMPING AREAS

The following tabulation lists all reported parachute jumping areas in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. NOTAM D's may be issued to advise users of specific dates and times if outside the times/altitudes that are published. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Parachute jumping areas within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower, or ARTCC.

Qualified parachute jumping areas will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jumping area is charted.

To qualify for charting, a jump area must meet the following criteria:

(1) Been in operation for at least 1 year.

(2) Log 1,000 or more jumps each year.

In addition, parachute jumping areas can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
<b>CONNECTICUT</b>			
(c) Danielson Arpt .....	8 NM; 211° Putnam.....	12,500	3 NM radius. SR–SS Daily.
(c) Ellington (Pvt) Arpt .....	17 NM; 025° Hartford.....	15,000	Fri, Sat, Sun, and occasional weekdays. 0.25 NM radius Pea Stone target.
Harwinton .....	25 NM; 300° Hartford.....	7,200	0700–SS weekends.
<b>DELAWARE</b>			
Laurel (Pvt) Arpt .....	12 NM; 356° Salisbury .....	12,000	5 NM radius. SR–SS daily.
<b>MAINE</b>			
(c) Lebanon .....	13 NM; 275° Kennebunk.....	14,000	0800–SS daily.
Millinocket Muni Arpt .....	9.5 NM; 319° Millinocket .....	14,000 AGL	5 NM radius. Daily SR–SS.
<b>MARYLAND</b>			
Accident.....	14 NM; 275° Grantsville.....		
Edgewood.....	29 NM; 056° Baltimore.....	10,000	Weekends, evenings, occasional weekdays.
Gambrills, Dairy Farm Drop Zone .	7 NM; 198° Baltimore.....	1300 AGL	0.5 NM radius. Weekends–November thru April.
Long Greene Drop Zone .....	21 NM; 038° Baltimore.....	10,000 AGL	0.5 NM radius. Weekends.
(c) Ocean City Muni Arpt.....	18 NM; 108° Salisbury .....	15,000	3 NM radius. 1 May–30 Nov continuous.
Patuxent River NAS (Trapnell Fld)	1.2 NM; 243° Patuxent .....	Unrestricted	0.25 NM radius. 1600–SS Mon–Fri, 0800–SS Sat, Sun, Holidays.
	0.7 NM; 303° Patuxent .....	Unrestricted	0.25 NM radius.
Sumang Drop Zone.....	20.3 NM; 286° Baltimore.....	3,000 AGL	0.4 NM radius. Weekends.
Tewey Drop Zone.....	18 NM; 237° Keene.....	12,500 AGL	5 NM radius. SR–SS daily.
Unity Drop Zone.....	24 NM; 023° Baltimore.....	10,000 AGL	1 NM radius. Weekends.
	20 NM; 292° Baltimore.....	3,000 AGL	0.4 NM; radius. Weekends.
<b>MASSACHUSETTS</b>			
(c) Chatham Muni Arpt .....	24.4 NM; 019° Nantucket .....	12,000	SR–SS. Parachute ops are seasonal from April 1, 2013 until Nov 1, 2013.
(c) Ft. Devens, Turner Drop Zone .	18 NM; 115° Gardner .....	4,000 AGL	0.5 NM radius. Daily SR–SS (occasionally nights) (occasionally to 20,000').
(c) Marston Mills .....	20 NM; 045° Marthas Vineyard....	10,000	1 NM radius 0700–SS daily.
(c) Montague, Turners Falls Arpt ..	18 NM; 237° Keene.....	12,500 AGL	5 NM radius. SR–SS daily.
Natick Laboratory Sudbury.....	21 NM; 295° Boston.....	4,000 AGL	0.25 NM radius. 0800–1700 Mon–Fri.
(c) Orange Muni Arpt .....	10 NM; 292° Gardner .....	14,000	1 NM radius. Thu–Sun and holidays. SR–one hr after SS. Boston Center 123.75.
(c) Pepperell, Sports Center (Pvt) Arpt.....	13 NM; 233° Manchester.....	20,000 AGL	3 NM radius. Daily SR–SS frequently ngt ops.
(c) Taunton Muni-King Fld Arpt	20.6 NM; 078° Providence.....	9,500	2 NM radius. SR–SS daily May 1 - Dec 1. Theodore Francis Green State Twr 123.67.

# PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
<b>NEW JERSEY</b>			
(c) Chatsworth, Coyle Fld .....	1 NM; 130° Coyle .....	2,000 AGL	Continuous. Heavy equip and paratroopers.
(c) Cross Keys .....	10 NM; 355° Cedar Lake .....	14,000	1.5 NM radius. Daily SR-SS.
(c) Lakehurst Maxfield Fld .....	0.9 NM; 280° Navy Lakehurst TACAN .....	12,500	0.3 NM radius. Daily SR-SS. Cargo drops nghts 2000' and below.
Pittstown, Alexandria Arpt .....	12.7 NM; 281° Solberg	13,500 MSL	Daily SR-SS. Drop zone on north side of arpt.
(c) Sussex .....	9 NM; 350° Sparta .....	15,000	1.5 NM radius. Daily 0700-SS.
West Creek, Eagles Nest Arpt.....	17.69 NM; 055° Atlantic City.....	13,500	1.5 NM radius. 0800-2000 daily. Atlantic City Intl twr-- TRACON, 134.25.
<b>NEW YORK</b>			
(c) Albion, Pine Hill Arpt.....	22 NM; 055° Buffalo .....	12,000'	2 NM radius. 0800-1 hour after SS, Wed thru Sun and holidays.
Arcade Tri-Co Arpt.....	24 NM; 162° Buffalo .....	10,000	5 NM radius. 0900-2100 SR-SS, Sat, Sun, and Wed.
(c) Calverton .....	1.5 NM; 150° Calverton.....	13,500	2 NM radius. Daily SR-SS.
(c) East Moriches, Spadaro Arpt...	7 NM; 170° Calverton.....	14,000	1 NM radius. 0800-SS Sat and Sun. 1600-SS Wed.
Fort Drum .....	23 NM; 060° Watertown.....	1,000 AGL	1 NM radius. SR-SS Mon-Fri
Gardiner Arpt .....	15 NM; 284° Kingston.....	14,500	4 NM radius. Daily SR-SS.
Hamilton Muni Arpt .....	13 NM; 085° Georgetown .....	10,000 AGL	5 NM radius. Weekends.
(c) Java .....	21 NM; 157° Buffalo .....	13,000	5 NM radius. Daily SR-SS, occasionally til 2400.
Johnstown, Fulco Arpt.....	27 NM; 315° Albany .....	15,000 AGL	3 NM radius. SR-SS Fri, Sat, Sun & holidays. Occasionally other days.
(c) Newfane, Hollands Intl Arpt....	21 NM; 353° Buffalo .....	18,000	5 NM radius. SR-SS daily; occasional nghts.
New Paltz, Stanton Arpt.....	15 NM; 301° Kingston.....	14,000	3NM radius. Sat, Sun and holidays SR-SS, occasional nghts and other days.
(c) Ovid Arpt .....	18 NM; 313° Ithaca .....	13,500	2 NM radius. 0600-2400 daily.
(c) Perry-Warsaw Arpt	15.17 NM; 258° Geneseo.....	14,000	3 NM radius. 0700-2100 lcl. Greater Rochester Intl Twr 123.7.
(c) Quaker Street, Knox Arpt.....	15 NM; 280° Albany .....	14,000	3 NM radius. Daily SR-2400.
Rhinebeck, Old Rhinebeck Arpt....	19 NM; 323° Pawling.....	4,900	2 NM radius. SR-SS Sat-Sun Jun 15-Oct 15.
(c) Shirley, Brookhaven Arpt, Sky Dive South Shore.....	7.3 NM; 218° Calverton	10,500	0600-1800. New York Tracory/118.0.
Stormville Arpt	13NM; 215° Pawling.....	13,000 AGL	Daily, SR-SS.
(c) Verona, Curtis Arpt.....	21 NM; 304° Utica .....	10,000	5 NM radius. SR-SS daily Apr 1-Nov 30.
(c) Walkkill .....	25 NM; 062° Huguenot .....	14,500 AGL	1 NM radius. Daily 1200-0200.
(c) Weedsport, Whitfords Arpt.....	15.4 NM 263° Syracuse .....	11,500	
Westhampton Beach, Francis S Gabreski Arpt .....	10NM; 130° Calverton.....	13,000' AGL	1NM radius. Mon--Sun 0800--2300
(c) West Point .....	22 NM; 112° Huguenot .....	10,000	5 NM radius. Weekdays 1200-SS, weekends, occasionally.
	17.4 NM; 212° Kingston.....	10,000	3 NM radius weekdays 1400-SS weekends, occasionally.
<b>PENNSYLVANIA</b>			
Bethel, Grimes Arpt .....	16 NM; 112° Ravine .....	11,000	5 NM radius. SR-SS daily.
(c) Burgettstown, Starveggi Drop Zone .....	9 NM; 042° Wheeling WV.....	2000 AGL	1 NM radius. Tue-Thur 1030-2200; occasionally (by notam) Fri-Sun 0700-1800.
(c) Chambersburg Franklin Co Rgnl Arpt .....	14NM; 087° St Thomas.....	15,000 AGL	2NM radius. SR-SS daily.
Culmerville Arpt.....	22 NM; 125° Ellwood City .....	11,500 AGL	Daily SR-SS.
Doylestown .....	8 NM; 303° Yardley.....	12,500	Sat and Sun SR-SS.
(c) East Stroudsburg, Stroudsburg-Pocono Arpt.....	13.4 NM; 291° Stillwater.....	14,500	2.5 NM radius. 0600-2200 daily.

PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Fort Indiantown Gap–Muir AAF, Cold Steel Drop Zone .....	6.7 NM; 172° Ravine .....	800–2000 AGL	By NOTAM only. Military use. 5 NM radius.
(c) Freedom, Kindelberger Landing Strip .....	8.5 NM; 175° Ellwood City .....	14,500	3 NM radius. Weekends and holidays SR–SS, Wed 1600–SS, and occasional nghts.
(c) Freefall Oz Arpt .....	14 NM; 252° Wellsville .....	12,500	5 NM radius. Wed–Sun 1300–2359.
(c) Grove City Arpt.....	19.3 NM; 011° Ellwood City .....	15,000	3 NM radius. 0800–1900 EST, 0900–2230 EDT daily.
(c) Hazleton Muni Arpt.....	6 NM; 081° Hazleton .....	14,500	SR–SS weekends and holidays; 1500–SS weekdays
(c) Jeannette, Greensburg Jeannette Rgnl .....	19 NM; 089° Allegheny.....	12,000	1 NM radius. 1 Apr–31 Oct, Wed 1700–2100, Sat/Sun 1000–2100.
Jersey Shore, Hinaman Acres Arpt	23 NM; 240° Williamsport.....	13,000	Tue and Thur 1600–SS; Sat and Sun 0800–SS.
Littlestown, Kingsdale Airpark ....	13 NM; 345° Westminster .....	10,500	2 NM radius. 0900–2000 daily.
Meadville, Port Meadville .....	19 NM; 311° Franklin .....	12,500	Weekends SR–SS.
(c) Mt. Joy/Marietta, Donegal Springs Airpark.....	12 NM; 272° Lancaster.....	15,000	2 NM radius. SR–SS daily.
North East, Moorhead Arpk. ....	21 NM; 065° Erie .....	12,000	5 mi radius. Extensive skydiving activities 1600–2100 weekdays and 0900–2100 weekends from surface to 12,000 ft MSL.
(c) Perkasio, Pennridge Arpt .....	15.9 NM; 060° Pottstown.....	14,500	5 NM radius. SR–SS daily, nights by NOTAM.
(c) Tunkhannock, Skyhaven Arpt..	19 NM; 333° Wilkes–Barre.....	13,500 AGL	5 NM radius. SR–SS daily.
(c) Worthington, J.T. Willie Arpt...	25 NM; 098° Ellwood City .....	14,000	1 NM radius. Weekends and holidays SR–SS, Fri 2200–SS, occasional nghts.

RHODE ISLAND

Greene, Riconn Arpt .....	15 NM; 060° Norwich.....	12,500	Daily SR–SS.
(c) Newport State .....	13.3 NM; 164° Providence .....	10,000	2 NM radius. SR–SS daily Apr 1–Nov 30. Theodore Francis Green State Twr 125.75
(c) Pawtucket, North Central State Arpt.....	12 NM; 001° Providence .....	13,000	3 NM radius. 0800–1 hour after SS daily. Mar 27–Dec 1.
(c)Westerly State Arpt	11.3 NM; 098° Groton.....	10,000	2 NM radius. SR–SS daily Apr 1 - Nov 1. Theodore Francis Green State Twr 119.45.

VERMONT

(c) Addison, Ass–Pirin Acres Arpt.	21 NM; 219° Burlington .....	12,000	5 NM radius. SR–SS daily. Frequent night jumps.
Shelburne Arpt.....	3 NM; 240° Burlington .....	15,000	2 NM radius. Daily SR–SS.

VIRGINIA

(c) Blackstone, Allen C. Perkinson/BAAF .....	16 NM; 355° Lawrenceville .....	12,500 AGL	1 NM radius. Daily.
(c) Fort A. P. Hill Bowling Green Drop Zone.....	12 NM; 192° Brooke .....	12,000 AGL	1 NM radius. Continuously. Frequent night drops.
(c) Fort Lee .....	12 NM; 262° Hopewell .....	2,500 AGL	0.5 NM radius. Daily.
(c) Fort Pickett Dove Drop Zone ...	19 NM; 009° Lawrenceville .....	12,500 AGL	Drop Zone 1500 yards by 1000 yards. Daily.
Moneta, Smith Mountain Lake Arpt .....	19.2 NM; 246° Lynchburg.....	13,500	3 NM radius. SR–SS Fri, Sat, Sun, and holidays.
(c) New Market Arpt, New Market/Blue Ridge Sport.....	26 NM; 249° Linden .....	17,500	0800 local until dark.
(c) Norfolk Intl Arpt .....	8.5 NM; 085° Norfolk .....	13,000	Mon–Fri during daylight hrs.
Oceana NAS .....	1.0 NM; 228° Oceana .....	12,500	Sat and Sun 0800–1200.
(c) Orange Co Arpt.....	14.9 NM; 026° Gordonsville .....	15,000	3 NM radius. Daily SR–SS, frequently ngt ops.
(c) Quantico .....	11.5 NM; 349° Brooke.....	10,000	1 NM radius unscheduled weekends.
(c) Suffolk Executive Arpt.....	20 NM; 104° Franklin .....	13,500	5 NM radius. SR–SS daily.
Warrenton, Flying Circus Aerodrome .....	8.5 NM; 132° Casanova.....	7,000	Sat/Sun, June 7–Oct 25, 1000–1959.

## PARACHUTE JUMPING AREAS

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LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
Warrenton, Warrenton Air Park	3.8 NM; 088° Casanova .....	14,500	2 NM radius, SR-SS daily.
(c) West Point, Middle Peninsula Rgnl .....	4.4 NM; 340° Harcum.....	14,000	SR-SS weekends and holidays.
<b>WEST VIRGINIA</b>			
Buckhannon-Upshur Co .....	9 NM; 300° Elkins .....	15,000	1 NM radius. Weekdays and holidays.
Huntington, Leann Drop Zone .....	15 NM; 230° Henderson.....	10,000 AGL	0.3 NM radius. Weekends.
Huntington, Debra Drop Zone .....	5 NM; 120° Henderson.....	10,000 AGL	0.5 NM radius. Weekends.
Huntington, Robert Newlon fld.....	22.4 NM; 220° Henderson.....	13,050	Daily, SR- 1 hr after SS.
Morgantown, Bacon Drop Zone ....	5 NM; 150° Morgantown .....	10,000 AGL	0.5 NM radius. Weekends.
Morgantown, Cider Drop Zone.....	17 NM; 180° Morgantown .....	12,500 AGL	0.3 NM radius. Weekends.
Morgantown, Dawson AAF.....	12 NM; 126° Morgantown .....	10,000 AGL	0.3 NM radius. Weekends.
Morgantown, Doubt Drop Zone ....	12 NM; 140° Morgantown .....	12,500 AGL	1 NM radius. Weekends.
Morgantown, Float Drop Zone .....	13 NM; 110° Morgantown .....	12,500 AGL	0.5 NM radius. Weekends.
Morgantown, Guide Drop Zone.....	13 NM; 080° Morgantown .....	12,500 AGL	0.5 NM radius. Weekends.
Morgantown, Melon Drop Zone ....	13 NM; 097° Morgantown .....	12,500 AGL	0.5 NM radius. Weekends.
Morgantown, Piker Drop Zone.....	20 NM; 135° Morgantown .....	12,500 AGL	0.3 NM radius. Weekends.
Ravenswood, Jackson Co Arpt.....	41 NM; 215°Parkersburg .....	12,500 AGL	41 NM radius. 1000-SS Weekends.
Ripley, Evans Drop Zone.....	12 NM; 070°Henderson.....	12,000	1 NM radius. 0800-SS local, weekends.
Summersville Arpt .....	15 NM; 352° Rainelle.....	14,500	5 NM radius daily SR-SS.
Westover, Blue Horizon Drive-In ..	13 NM; 320° Morgantown .....	12,500	Weekends and holidays SR-SS.



Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

## UNITED STATES

FACILITY NAME	CHART & PANEL
Cabaniss Fld NOLF, TX (NGW) Corpus App/Dep Con 125.4 307.9 Navy Cabaniss Tower 119.65 299.6 (Mon–Thu 1330–0500Z†, Fri 1330–0100Z‡)	L–20H, 21A
Fentress NALF, VA (NFE) Oceana App/Dep Con 123.9 266.8	H–10I, 12I, L–35D
Frankfort, IL (LL40) Chicago App/Dep Con 133.1 285.6	L–28H
Fry, OH (Ø0H8) Columbus App/Dep Con 118.425	L–27E
Gila Bend AF AUX, AZ (GXF) Luke App/Dep Con 125.45 263.125 (South)	H–4J, L–5B
Glasgow Industrial, MT (Ø7MT) Salt Lake Center App/Dep Con 126.85 305.2	H–1E, 2G, L–13D
Joe Williams NOLF, MS (NJW) Meridian App/Dep Con 276.4 Bravo Tower 118.475 279.2 (Mon–Fri 1300–2230Z†)	H–6J, L–18G
Oak Grove MCOLF, NC (13NC) Cherry Point App/Dep Con 119.35 377.175	L–35B
Port Sulphur, LA (4LA0) Houston App/Dep Con 134.9 290.45	L–21C, 22G
Shell AHP, AL (SXS) Cairns App/Dep Con 133.45 239.275 (24 hrs Tue–Sat, 1200–0500Z† Sun–Mon) other times ctc Jax Center App/Dep Con 134.3 353.5 Shell Tower 139.125 244.5 (1230–0600Z† Mon–Fri, exc hol)	L–22I
USAF Academy Bullseye Aux Airfield, CO (CO90) ASOS 121.425	L–10F
Webster NOLF, MD (NUI) Patuxent App/Dep Con 121.0 250.3 Navy Webster Tower 126.2 358.0 (Mon–Fri, exc hol, other times on request, 1400–2200Z† or SS, whichever occurs first)	H–10I, 12I, L–34E, 36I
Whitehouse NOLF, FL (NEN) Jax Center App Con 123.8 377.05 Jax Center Dep Con 123.8 379.9 Whitehouse Tower 135.4 268.8 350.35 (Manned during scheduled operations only)	H–8H, L–21D, 24G
William P Gwinn, FL (Ø6FA) Palm Beach App/Dep Con 317.4 Gwinn Tower 120.4 279.25 (Mon–Fri 1300–2100Z†) Gnd Con 121.65 279.25	H–8I, L–23C

## CANADA

FACILITY NAME	CHART & PANEL
Abbotsford, BC (CYXX) ATIS 119.8 (1500–0700Z†) Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8 Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500–0700Z†) Gnd Con 121.8 MF 119.4 295.0 (0700–1500Z†) (Shape irregular to 4500´)	H–1B, L–12F
Amos/Magny, QC (CYEY) Montreal Center App/Dep Con 125.9	H–11B
Atikokan Muni, ON (CYIB) MF 122.3 (5 NM to 4500´ No ground station)	L–14I
Barrie–Orillia (Lake Simcoe Rgnl), ON (CYLS) Toronto Center App/Dep Con 124.025	H–11B, L–31D
Bar River, ON (CPF2) Toronto Center App/Dep Con 132.65	L–31C
Bathurst, NB (CZBF) Moncton Center App/Dep Con 134.25	L–32J
Boundary Bay, BC (CZBB) ATIS 125.5 (1500–0700Z†) Vancouver App/Dep Con 132.3 363.8 Tower 118.1 (Inner) 127.6 (Outer) (1500–0700Z†) Gnd Con 124.3 MF 118.1 (0700–1500Z† to 2000´. Vancouver Trml 125.2 above 2000´. Shape irregular to 2500´.)	H–1B, L–1E
Brampton, ON (CNC3) Toronto Trml App/Dep Con 119.3	L–31D

CANADA

FACILITY NAME	CHART & PANEL
Brandon Muni, MB (CYBR) Winnipeg Center App/Dep Con 132.25 285.4 MF 122.1 (5 NM to 4000')	H-2H
Brantford, ON (CYFD) Toronto Trml App/Dep Con 128.27	L-31D
Brockville Rgnl Tackaberry ON (CNL3) Montreal Center App/Dep Con 134.675	L-32G
Bromont, QC (CZBM) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	L-32G
Burlington Executive, ON (CZBA) Toronto Center App/Dep Con 119.3	L-31D
Castlegar/West Kootenay Rgnl, BC (CYCG) Vancouver Center App/Dep Con 134.2 227.3 MF 122.1 (5 NM to 6500')	H-1C
Centralia/James T. Fld Muni, ON (CYCE) Toronto Center App/Dep Con 135.30	H-10G, 11B, L-31D
Charlottetown, PE (CYYG) Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	H-11E, L-32J
Chatham-Kent, ON (CYCK) Cleveland Center App/Dep Con 132.25	H-10G, L-30G
Collingwood, ON (CNY3) Toronto Center App/Dep Con 124.02	H-11B, L-31D
Cornwall Rgnl, ON (CYCC) Boston Center App/Dep Con 135.25 377.1	L-32G
Cranbrook/Canadian Rockies Intl, BC (CYXC) Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
Debert, NS (CCQ3) Halifax Trml App/Dep Con 119.2	H-11E, L-32J
Digby, NS (CYID) Moncton Center App/Dep Con 123.9	L-32J
Downsview, ON (CZVD) Toronto Center App/Dep Con 133.4 MF 126.2 (1300-2300Z†, 3 NM to 1700')	H-11B, L-31E
Drummondville, QC (CSC3) Montreal Center App/Dep Con 132.35	L-32H
Earlton (Timiskaming Rgnl), ON (CYXR) MF 122.0 (5 NM to 3800')	H-11B
Elliot Lake Muni, ON (CYEL) Toronto Center App/Dep Con 135.4	L-31C
Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9	L-14H
Fredericton Intl, NB (CYFC) ATIS 127.55 (1045-0245Z†, OT AWOS) Moncton Center App/Dep Con 124.3 135.5 270.8 Tower 119.0 (1045-0245Z†) Gnd Con 121.7 (1045-0245Z†) MF 119.0 (0245-1045Z†, 5 NM to 3500')	H-11E, L-32I
Goderich, ON (CYGD) Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
Greenwood, NS (CYZX) ATIS 128.85 244.3 (1100-0000Z†) App/Dep Con 120.6 335.9 Tower 119.5 236.6 324.3 Gnd Con 133.75 289.4 Cinc Del 128.025 283.9	H-11E, L-32J
Grimsby Air Park, ON (CNZ8) Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
Halifax/Shearwater, NS (CYAW) ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 MF Shearwater Advisory 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
Halifax/Stanfield Intl, NS (CYHZ) ATIS 121.0 Moncton Center App/Dep Con 135.3 Tower 118.4 236.6 Gnd Con 121.9 275.8 Cinc Del 123.95	H-11E, L-32J
Hamilton, ON (CYHM) ATIS 128.1 Toronto Trml App/Dep Con 119.7 Tower 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
Kingston, ON (CYGK) ATIS 135.55 (1115-0400Z†) Montreal Center App/Dep Con 135.05 (0400-1115Z†) MF 122.5 (1115-0400Z† 5 NM to 3300')	H-11C, L-31E, 32F

## CANADA

FACILITY NAME	CHART & PANEL
Kitchener/Waterloo, ON (CYKF) ATIS 125.1 (1200-0400Z‡) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z‡) Gnd Con 121.8 MF 126.0 (0400-1200Z‡ 5 NM to 4000')	H-11B, L-31D
Lachute, QC (CSE4) Montreal Center App Con 124.65 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	H-11C
Langley, BC (CYNJ) ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml App/Dep Con 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E
Leamington, ON (CLM2) Detroit Approach App/Dep Con 134.3	L-30F
Lethbridge, AB (CYQL) ATIS 124.4 (1245-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
Lindsay, ON (CNF4) Toronto Center App/Dep 134.25	L-31E, L-32F
Liverpool/South Shore Rgnl, NS (CYAU) Moncton Center App/Dep Con 123.9	L-32J
London, ON (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000')	H-10G, 11B, L-30G, 31D
Manitowaning/Manitoulin East Muni, ON (CYEM) Toronto Center App/Dep 135.4 260.9	L-31C
Maniwaki, QC (CYMW) Montreal Center App/Dep Con 126.57	L-32G
Mascouche, QC (CSK3) MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
Medicine Hat, AB (CYXH) ATIS 124.875 (1245-0345Z) MF 122.2 (1245-0345Z 5 NM to 5400')	H-1D
Midland/Huronion, ON (CYEE) Toronto Center App/Dep 124.025	L-31D
Miramichi, NB (CYCH) Moncton Center App/Dep Con 123.7	H-11E, L-32J
Moncton/Greater Moncton Intl, NB (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
Mont-Laurier, QC (CSD4) Montreal Center App/Dep Con 126.57	L-32G
Montreal Intl (Mirabel), QC (CYMX) ATIS 125.7 Montreal Center App/Dep Con 124.65 268.3 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 126.9 132.85 268.3 Tower 119.3 119.9 124.3 (old port) 267.1 Gnd Con 121.0 121.9 275.8 Cnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 120.42 (SE-S-SW) 124.65 (W-NW-NE) 268.3 VFR Advisory 134.15	H-11C, 12K, L-32G
Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct Mon-Fri 1045-0500Z‡, Apr-Oct Sat-Sun 1045-0300Z‡, Nov-Mar Mon-Fri 1045-0400Z‡, Nov-Mar Sat-Sun 1045-0100Z‡) Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct Mon-Fri 1045-0500Z‡, Apr-Oct Sat-Sun 1045-0300Z‡, Nov-Mar Mon-Fri 1045-0400Z‡, Nov-Mar Sat-Sun 1045-0100Z‡) Gnd Con 126.4 (Apr-Oct Mon-Fri 1045-0500Z‡, Apr-Oct Sat-Sun 1045-0300Z‡, Nov-Mar Mon-Fri 1045-0400Z‡, Nov-Mar Sat-Sun 1045-0100Z‡) MF 118.4 (Apr-Oct Tues-Sat 0500-1045Z‡, Apr-Oct Sun-Mon 0300-1045Z‡, Nov-Mar Tues-Sat 0400-1045Z‡, Nov-Mar Sun-Mon 0100-1045Z‡) 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G

CANADA

FACILITY NAME	CHART & PANEL
Muskoka, ON (CYQA) Timmins Radio App/Dep Con 122.3 MF 122.3 (5 NM to 3900')	H-11B, L-31D
Nanaimo, BC (CYCD) ATIS 128.425 (1-877-517-2847)(1400-0500Z) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 291.8 1330-0530Z‡ (5 NM to 2500')	H-1B, L-1E
North Bay, ON (CYYB) ATIS 124.9 (1130-0330Z‡) Toronto Center App/Dep 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	L-31E
Oshawa, ON (CYOO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App/Dep Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	L-31E
Ottawa/Carp, ON (CYRP) ATIS 121.15 Ottawa Trml App/Dep Con 127.7	L-31E, 32F
Ottawa/Gatineau, QC (CYND) Ottawa Trml App/Dep Con 127.7 128.175 MF 122.3 (5 NM shape irregular to 2500) VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
Ottawa/MacDonald-Cartier Intl, ON (CYOW) ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 (VFR South) 120.1 (VFR North) 118.8 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175	L-11C
Owen Sound/Billy Bishop Rgnl, ON (CYOS) Toronto Center App/Dep 132.575 290.6	L-31D
Pelee Island, ON (CYPT) Cleveland Center App/Dep Con 126.35 360.0	L-30F
Pembroke, ON (CYTA) Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z‡, OT PPR)	H-11C, L-31E, 32F
Penticton, BC (CYYF) Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100)	H-1B
Peterborough, ON (CYPQ) Toronto Center App/Dep 134.25 MF 123.0 (5 NM to 3600')	H-11B, L-31E, 32F
Pincher Creek, AB (CZPC) Edmonton Center App/Dep Con 132.75 265.2	H-1D
Pitt Meadows, BC (CYPK) ATIS 125.0 (1500-0700Z‡) UNICOM 123.35 (0700-1500Z‡) Vancouver Center App Con 128.6 (Outer) 352.7 Pitt Tower 126.3 (1500-0700Z‡) Gnd Con 123.8 Vancouver Center Dep Con 132.3 (South) 363.8 MF 126.3 (0700-1500Z‡) (3NM to 2500)	L-1E
Quebec/Jean Lesage Intl, QC (CYQB) ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
Riviere Du Loup, QC (CYRI) Montreal Center App/Dep Con 125.1 299.6	H-11D
Rouyn Noranda, QC (CYUY) Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
Saint John, NB (CYSJ) Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
Sarnia (Chris Hadfield), ON (CYZR) Toronto Center App/Dep Con 134.375	H-10G, 11B, L-30F
Sault Ste Marie, ON (CYAM) ATIS 133.05 (1130-0330Z‡) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 118.8 (0330-1130Z‡ 5 NM irregular shape to 3000')	H-2K, L-31B
Sherbrooke, QC (CYSC) Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
South Renfrew Muni, ON (CNP3) Montreal Center App/Dep 124.275	L-31E, 32F

## CANADA

FACILITY NAME	CHART & PANEL
Southport, MB (CYPG) ATIS 120.85 (Mon–Fri 1400–2300Z† except holidays) Tower 126.2 384.2 (Mon–Fri 1400–2300Z† except holidays) Gnd Con 121.7 275.8	H–2H
Springwater Barrie Airpark, ON (CNA3) Toronto Center App/Dep Con 124.025	L–31D
St. Catharines/Niagara District, ON (CYSN) ATIS 128.525 (1215–0200Z†) Toronto Trml App/Dep Con 133.4 MF 123.25 (1215–0200Z† 5 NM to 3300´)	H–10H, 11B, L–31E
St. Frederic, QC (CSZ4) Montreal Center App/Dep Con 135.025 270.9	L–32H
St. Georges, QC (CYSG) Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900´ ASL)	H–32H, L–11D
St. Jean, QC (CYJN) Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr–Oct 1230–0230Z† Nov–Mar 1300–0200Z†) Gnd Con 121.7	L–32G
Sudbury, ON (CYSB) ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000´) Clnc Del 121.8	H–31B, 10G, L–31D
Summerside, PE (CYSU) Moncton Center App/Dep Con 124.4 384.8	H–11E, L–32J
Thunder Bay, ON (CYGT) ATIS 128.8 (1100–0400Z†) Winnipeg Center App/Dep Con 132.125 Tower 118.1 (1100–0400Z†) Gnd Con 121.9 (1100–0400Z†) App/Dep 119.2 MF 118.1 (0400–1100Z† 5 NM to 4000´)	H–2J, L–14J
Timmins/Victor M. Power, ON (CYTS) ATIS 124.95 Toronto Center App/Dep Con 128.3 MF 122.3 (5 NM to 4000´)	H–11B
Toronto/Buttontville Muni, ON (CYKZ) ATIS 127.1 (1200–0400Z†) Toronto Trml App/Dep Con 133.4 Tower 124.8 119.9 (1200–0400Z†) Gnd Con 121.8 (1200–0400Z†) MF 124.8 (0400–1200Z† No gnd station. 5 NM shape irregular to below 2500´)	L–31E
Toronto/Billy Bishop Toronto City Airport, ON (CYTZ) ATIS 133.6 (1130–0400Z†) App/Dep Con 133.4 Tower 118.2 119.2 (1130–0400Z†) Gnd Con 121.7	L–31E
Toronto/Lester B Pearson Intl, ON (CYYZ) ATIS 120.825 133.1 App Con 132.8 124.475 125.4 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 121.9 121.65 119.1 Clnc Del 121.3 (1200–0400Z†) Apron Coordinator 122.875 (122.825)	H–11B, L–31D
Trenton, ON (CYTR) ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Clnc Del 124.35 286.4	H–11C, L–31E, 32F
Trenton/Mountain View, ON (CPZ3) Trenton Mil Advisory 268.0 or 122.35	H–11C, L–31E, 32F
Trois–Rivieres, QC (CYRQ) Montreal Center App/Dep Con 128.225 MF 123.0 (5 NM to 3200´)	H–11C, L–32H
Val–D´or, QC (CYVO) Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030–0325Z† 5 NM to 4000´)	H–11B
Vancouver Intl, BC (CYVR) ATIS 124.6 App Con 128.6 128.17 (Outer) 133.1 134.225 (Inner) 352.7 Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Clnc Del 121.4	H–1B, L–1E
Victoria Intl, BC (CYYJ) ATIS 118.8 (1400–0800Z†) App Con 125.95 Dep Con 133.85 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400–0800Z† OT ctc Kamloops 119.7) Clnc Del 126.4 (1400–0800Z†)	H–1B, L–1E

**SUPPLEMENTAL COMMUNICATION REFERENCE**

**457**

**CANADA**

<b>FACILITY NAME</b>	<b>CHART &amp; PANEL</b>
Victoriaville, QC (CSR3) Montreal Center App Con 132.35	L-32H
Waterville/Kings Co Muni, NS (CCW3) Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
Warton, ON (CYVV) Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
Windsor, ON (CYQG) ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 (1130-0330Z‡) MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3	H-10G, L-8J
Yarmouth, NS (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

**MEXICO**

<b>FACILITY NAME</b>	<b>CHART &amp; PANEL</b>
Abraham Gonzalez Intl/Ciudad Juarez Intl (MMCS/CJS) Juarez App Con 119.9 Juarez Tower 118.9	H-4K, L-6F
Del Norte Intl (MMAN) ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6 Gnd 122.0 Clnc Del 122.0	H-7B, L-20G
Durango Intl (MMDO/DGO) ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
General Abelardo L Rodriguez Intl/Tijuana Intl (MMTJ) ATIS 127.9 (1400-1100Z‡) Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Tijuana Clnc Del 122.35 Tijuana Info 132.1	H-4H, L-4H
General Lucio Blanco Intl/Reynosa Intl (MMRX) Reynosa App Con 127.2 Reynosa Tower 118.8	H-7B, L-20H
General Mariano Escobedo Intl/Monterrey Intl (MMMY) ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Dep Con 119.75 Monterrey Tower 118.1 Monterrey Gnd 121.9 Monterrey Info 122.45	H-7B, L-20G
General R Fierro Villalobos Intl/Chihuahua Intl (MMCU) ATIS 127.9 (1300-0300Z‡) Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
General Rodolfo Sanchez Taboada Intl/Mexicali Intl (MMML) ATIS 127.6 (1400-0200Z‡) Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4H, L-4J, 5A
General Servando Canales Intl/Matamoros Intl (MMMA) Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
Plan De Guadalupe Intl/Salttillo Intl (MMIO/SLW) Salttillo App Con 127.4 Salttillo Tower 118.4	H-7B
Quetzalcoatl Intl/Nuevo Laredo Intl (MMNL/NLD) Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
Torreon Intl (MMTC) App Con 119.6 Tower 118.5 Info 122.3	H-7A

## PREFERRED IFR ROUTES

### PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic, using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g. UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a navaid, a navaid, a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations “pressurized” and “unpressurized” for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.  
 Sun ..... 1300–2259 local time.  
 Mon thru Fri ..... 0701–2259 local time.  
 Sat ..... 0701–1459 local time.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets [ ] is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

# PREFERRED IFR ROUTES

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## LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ALBANY (ALB)</b>		
Boston (BOS) .....	(60–170 incl) ALB PONCT JFUND (RNAV)–STAR ...	1100–0300
Kennedy (JFK) .....	(60–170 incl, non-jet) V44 DPK .....	1100–0300
La Guardia (LGA) .....	(70–170 incl, less than 250 kts) V123 .....	1100–0300
	or	
	(110–170 incl, 250 kts or more) IGN V157 HAARP .....	1100–0300
NE Philadelphia (PNE) .....	(90–170, Turboprops only, DME/DME IRU or GPS equipped) V14 CEDOR DNY LAAYK LVZ V613 FJC ARD .....	1100–0300
	or	
	(90–170, Turbojets only, DME/DME IRU or GPS equipped) V14 CEDOR DNY LAAYK LVZ V29 ETX V30 TROXL ARD .....	1100–0300
Newark (EWR) .....	(70–170 incl, non-turbojet) V489 COATE .....	1100–0300
	or	
	(110–170 incl, turbojet) V213 .....	1100–0300
Philadelphia (PHL) .....	TALCO SHAFF–STAR .....	1100–0300
	(60–170 incl less than 210 kts, Turboprops only, DME/DME IRU or GPS equipped) V14 CEDOR DNY LAAYK LVZ V29 PTW .....	1100–0300
	or	
	(60–170 incl 210 kts plus, Turboprops only, DME/DME IRU or GPS equipped) V14 CEDOR DNY LAAYK LVZ V613 PTW .....	1100–0300
	or	
	(70–170 turbojets only) V14 CEDOR DNY051 DNY SLATT–STAR .....	1100–0300
Trenton (TTN) .....	(90–170, Turboprops only, DME/DME IRU or GPS equipped) V14 CEDOR DNY LAAYK LVZ V613 FJC ARD .....	1100–0300
	or	
	(90–170, Turbojets only, DME/DME IRU or GPS equipped) V14 CEDOR DNY LAAYK LVZ V29 ETX V30 TROXL ARD .....	1100–0300
<b>BALTIMORE (BWI)</b> —See Washington/Baltimore Metro		
<b>BOSTON METRO AREA (BOS)</b>		
Cleveland (CLE) .....	(110–170) HYLND MHT V490 UCA V2 SYR V84 GEE V464 V115 TDT V72 V232 CXR .....	
Kennedy (JFK) .....	(110–170, jets) SSOXS LUCOS SEY067 SEY PARCH CCC ROBER .....	1100–0300
	or	
	(110–170, Props) SSOXS LUCOS SEY067 SEY HTO V46 DPK .....	
	or	
	(AOB 100) BOSOX V1 V14 ORW V16 CCC V46 DPK .....	
La Guardia (LGA) .....	(110–170, Turbojets only—DME/DME IRU or GPS required) PATSS (RNAV)—DP PATSS NELIE VALRE HAARP–STAR .....	1100–0300
	or	
	(110–170, Prop and Turboprops opr at less than 250 kts) REVSS BAF PWL V405 CASSH V123 HAARP .....	1100–0300
	or	
	(110–170, Turbojets and Turboprop, AOA 250 kts, RNAV only) PATSS NELIE VALRE HAARP–STAR .....	1100–0300
Martha's Vineyard (MVY) .....	BOS V141 DRUNK .....	0000–2359
NE Philadelphia (PNE) .....	(Non-turbojet)(Water)(60–100) BURDY V268 HTO V139 BRIGS ACY V184 OOD .....	1100–0300
	or	
	(Non-turbojet)(Water)(110–170) BOS SSOXS LUCOS SEY067 SEY HTO V139 BRIGS ACY V184 OOD..	1100–0300
	or	



## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	(Water)(60-100) BURDY V268 HTO V139 MANTA V276 ARD .....	1100-0300
	or	
	(Water)(110-170) BOS SSOXS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD .....	1100-0300
	or	
	(Jets)(110-170) BOS SSOXS LUCOS SEY067 SEY HTO V139 BRIGS CEDAR LAKE-STAR .....	1100-0300
	or	
	(Turboprops only)(GPS or DME/DME IRU equipped) (90-170) BLZZR BAF V292 SAGES LAAYK LVZ V613 FJC ARD .....	1100-0300
Newark (EWR).....	(110-170, Prop and Turboprop acft, less than 250 kts) REVSS BAF MOBBS SAGES V489 COATE .....	1100-0300
	or	
	(110-170, Turbojets only-DME/DME IRU or GPS required) PATSS (RNAV)-DP PATSS NELIE FLOSI (RNAV)-STAR .....	1100-0300
	or	
	(110-170 RNAV only, Turbojet/Turboprop, 250 kts or greater) PATSS NELIE IGN SHAFF-STAR....	1100-0300
Philadelphia (PHL).....	(80-170 incl) SSOXS LUCOS SEY V268 HTO V308 DRIFT V312 CYN .....	1100-0300
	or	
	(GPS or DME/DME IRU equipped) (110-170) BLZZR BAF V292 MOBBS SAGES LAAYK LVZ V613 FJC PTW .....	1100-0300
Rochester (ROC) .....	(110-170 incl) HYLND MHT V490 UCA V2 .....	
Syracuse (SYR) .....	(110-170 incl) HYLND MHT V490 UCA V2 .....	
Trenton (TTN) .....	(Water)(60-100) BURDY V268 HTO V139 MANTA V276 ARD .....	1100-0300
	or	
	(Water)(110-170) BOS SSOXS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD .....	1100-0300
	or	
	(Turboprops only, GPS or DME/DME IRU equipped) (90-170) BLZZR BAF V292 MOBBS SAGES LAAYK LVZ V613 FJC ARD .....	1100-0300
Washington Natl (DCA).....	(80-170 incl, non-turbojet) BURDY V268 HTO V308 BILIT CAPKO .....	1100-0300
Westchester (HPN).....	(110-170, RNAV only, Turbojets and Turboprop 250 kts or greater) PATSS NELIE VALRE VALRE-STAR .....	1100-0300
	or	
	(110-170, Prop and Turboprop less than 250 kts) REVSS BAF PWL V405 CASSH V123 HAARP .....	1100-0300
Wilmington (ILG) .....	(60-100, non-turbojet, water) BURDY V268 HTO V139 BRIGS ACY V184 OOD .....	1100-0300
	or	
	(110-170, non-turbojet, water) BOS SSOXS LUCOS SEY067 SEY HTO V139 BRIGS ACY V184 OOD .....	1100-0300
	or	
	(110-170, turbojets) BOS SSOXS LUCOS SEY067 SEY HTO V139 BRIGS CEDAR LAKE-STAR .....	1100-0300
<b>BRIDGEPORT (BDR)</b>		
Albany (ALB) .....	(110-170 incl) SOARS V487 CANAN .....	1100-0300
Auburn/Lewiston (LEW) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 LABEL .....	1100-0300
Baltimore (BWI).....	(at or above FL170) BEADS V139 AVALO V268 BAL .....	
Bangor (BGR) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG	1100-0300
Bedford (BED) .....	(110-150 only) MAD V1 HFD DREEM (RNAV)-STAR	1100-0300
Beverly (BVY) .....	(110-170 incl) MAD HFD GRAYM-STAR .....	1100-0300
Boston (BOS) .....	(110-170 incl) BDR MERIT ROBUC (RNAV)-STAR .	1100-0300
Concord (CON) .....	(110-150 incl) HTO V308 ORW V14 GDM V39 CON	1100-0300
Fitchburg (FIT).....	(110-170 incl) MAD HFD GRAYM-STAR .....	1100-0300
Keene (EEN).....	(110-170 only) HTO V308 ORW V14 GDM .....	1100-0300

NE, 05 JAN 2017 to 02 MAR 2017

# PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Laconia (LCI) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 CON	1100-0300
Lawrence (LWM) .....	(110-170 incl) MAD HFD GRAYM-STAR .....	1100-0300
Lebanon (LEB) .....	(110-170 incl) HTO V308 ORW V14 GDM EEN ....	1100-0300
Manchester (MHT) .....	(Jets only) (110-170 incl) MAD V1 HFD CRIBB ROZZE (RNAV)-STAR .....	1100-0300
	or	
	(Props only) (110-170 incl) MAD V1 HFD V229 GDM V106 MHT .....	1100-0300
Portland (PWM) .....	(110-170 incl) HTO V308 ORW V14 GDM CON CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM) .....	(110-170 incl) HTO V308 ORW V14 GDM V106 MHT V106 RAYMY .....	1100-0300
Providence (PVD) .....	(110-170 incl) MAD V475 CARLD V188 GON V374 MINNK .....	1100-0300
Rockland (RKD) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG	1100-0300
Waterville (WVL) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG	1100-0300
<b>BUFFALO (BUF)</b>		
Boston (BOS) .....	(60-170) BUF V252 GEE PONCT JFUND (RNAV)-STAR .....	1100-0300
Chicago Midway (MDW) .....	(60-170 incl, RNAV Only) BIMRO T608 HOCKE LAN V218 ELX V55 GIJ V156 V92 CGT .....	1100-0300
Chicago O'Hare (ORD) .....	(60-170 incl, RNAV Only) BIMRO T608 HOCKE PAPPI .....	1100-0300
Cleveland (CLE) .....	(60-170 incl) V115 JHW V270 ERI V14 JFN CXR .	1100-0300
Detroit Metro Wayne Co (DTW) .....	(60-170 incl) V2 YQO SPICA-STAR .....	1100-0300
Detroit Satellites: Windsor (CYQG) .....	(60-170 incl) V2 YQO	1100-0300
Elmira (ELM) .....	(60-170 incl) V14 GEE V147 .....	1100-0300
Philadelphia (PHL) .....	(60-170 incl) V33 V210 BUNTS .....	1100-0300
Pittsburgh (PIT) .....	(60-170 incl) V115 TDT CIP HAYNZ (RNAV)-STAR	1100-0300
Washington Natl (DCA) .....	(60-170 incl) V33 BFD V170 V93 BAL .....	1100-0300
<b>CALDWELL (CDW)</b>		
Albany (ALB) .....	(110-150 only) BREZY V39 SOARS V487 CANAN .	1100-0300
Auburn/Lewiston (LEW) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON .....	1100-0300
Augusta (AUG) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON .....	1100-0300
Bangor (BGR) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON AUG .....	1100-0300
Bar Harbor (BHB) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON AUG .....	1100-0300
Barre/Montpelier (MPV) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM .....	1100-0300
Bedford (BED) .....	(110-170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)-STAR .....	1100-0300
Beverly (BVY) .....	(110-170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)-STAR .....	1100-0300
Boston (BOS) .....	(Jets only) (110-170 incl) BREZY V39 CMK MERIT ROBUC (RNAV)-STAR .....	1100-0300
	or	
	(Props only) (110-170 incl) BREZY V39 CMK MERIT WOONS-STAR .....	1100-0300
Burlington (BTV) .....	(110-170 incl) BREZY V39 CMK GREKI V39 SOARS V487 BTV .....	1100-0300
Concord (CON) .....	(110-150 incl) BREZY V39 CMK MERIT HFD V229 GDM .....	1100-0300
Glens Falls (GFL) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM .....	1100-0300
Hyannis (HYA) .....	(110-170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MVY .....	1100-0300
Keene (EEN) .....	(110-130 only) BREZY V39 CMK MERIT HFD V229 GDM .....	1100-0300
Laconia (LCI) .....	(110-170 incl) BREZY V39 CMK MERIT HFD V229 GDM CON .....	1100-0300
Lake Placid (LKP) .....	(110-170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Lawrence (LWM) .....	(110-170 incl) BREZY V39 CMK MERIT HFD GRAYM-STAR .....	1100-0300
Lebanon (LEB) .....	(110-170 incl) BREZY V39 CMK MERIT HFD EEN .	1100-0300

Terminals	Route	Effective Times (UTC)
Manchester (MHT) .....	(Props only) (110–170 incl) BREZY V39 CMK MERIT V99 HFD V229 GDM V106 MHT .....	1100–0300
Martha's Vineyard (MVY) .....	(110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MVY .....	1100–0300
Nantucket (ACK) .....	(Props only) (110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON DEEPO (RNAV)–STAR .....	1100–0300
Nashua (ASH) .....	(110–170 incl) BREZY V39 CMK MERIT HFD V229 GDM V106 MHT .....	1100–0300
New Bedford (EWB) .....	(110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MINNK .....	1100–0300
Norwood (OWD) .....	(110–170 incl) BREZY V39 CMK MERIT ORW WOONS–STAR .....	1100–0300
Pittsfield (PSF) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CANAN .....	1100–0300
Portland (PWM) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CAM CDOGG (RNAV)–STAR .....	1100–0300
Portsmouth (PSM) .....	(110–170 incl) BREZY V39 SOARS V487 STUBY V93 CON .....	1100–0300
Providence (PVD) .....	(110–130 only) BREZY V39 CMK BAYYS SEALL V188 GON V374 MINNK .....	1100–0300
Provincetown (PVC) .....	(110–170 incl) BAYYS SEALL V188 GON V374 MVY .....	1100–0300
Rockland (RKD) .....	(110–170 incl) BREZY V39 CMK SOARS V487 CAM CON .....	1100–0300
Rutland (RUT) .....	(110–170 incl) BREZY V39 SOARS V487 CAM .....	1100–0300
Saranac Lake (SLK) .....	(110–170 incl) BREZY V39 SOARS V487 CAM .....	1100–0300
Waterville (WVL) .....	(110–170 incl) BREZY V39 SOARS V487 CAM CON .....	1100–0300
<b>CAPE COD (CPD)</b>		
Dubois (DUJ) .....	(GPS or DME/DME IRU equipped) (AOB 100 all) PVD V146 BAF MOBBS SAGES LAAYK FQM V226 PARDY .....	1000–0300
Gaithersburg (GAI) .....	(AOB 100 all) SEY HTO V268 EMI .....	1000–0300
	or	
	(GPS or DME/DME IRU equipped) (AOB 100 all) PVD V146 BAF MOBBS SAGES LAAYK LVZ V93 LRP V457 EMI .....	1000–0300
NE Philadelphia (PNE) .....	(Single engine only) (60–100) V34 SEY V268 HTO V46 DPK V16 CYN V312 OOD .....	1100–0300
	or	
	(Non–turbojet) (Water) (60–100) SEY ARCAV V46 HTO V139 BRIGS ACY V184 OOD .....	1100–0300
	or	
	(Non–turbojet) (110–170) BOS LUCOS SEY067 HTO V139 MANTA V276 ARD PNE .....	1100–0300
	or	
	(Water) (60–100) SEY ARCAV V46 HTO V139 MANTA V276 ARD .....	1100–0300
	or	
	(Water) (110–170) BOS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD .....	1100–0300
	or	
	(Turboprops only, GPS or DME/DME IRU equipped) (90–170) PVD V146 BAF MOBBS SAGES LAAYK LVZ V613 FJC ARD .....	1100–0300
Newark (EWR) .....	(110–170, RNAV turbojets) BOSOX NELI IGN SHAAF–STAR .....	1100–0300
	or	
	(110–170, advanced RNAV turbojets) BOSOX NELIE FLOSI (RNAV)–STAR .....	
Newburgh (SWF) .....	(AOB 100 GNSS equipped only all) PVD T255 NELIE T212C TRESA .....	1000–0300
Trenton (TTN) .....	(Water) (60–100) SEY ARCAV V46 HTO V139 MANTA V276 ARD .....	1100–0300
	or	
	(Water) (110–170) BOS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD .....	1100–0300
	or	
	(Turboprops only, GPS or DME/DME IRU equipped) (90–170) PVD V146 BAF MOBBS SAGES LAAYK LVZ V613 FJC ARD .....	1100–0300

# PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
White Plains (HPN) .....	(AOA 110, 250 kts or less) PVD V146 BAF PWL V405 CASH V123 HAARP .....	1100-0300
Wilmington (ILG) .....	(Non-turbojet) (Water) (60-100) SEY ARCAV V46 HTO V139 BRIGS ACY V184 OOD .....	1000-0300
	or (GPS or DME/DME IRU equipped) (AOB 100 all) PVD V146 BAF MOBBS SAGES LAAYK LVZ V29 DQO .	1000-0300
	or (110-170, non-turbojet, water) BOS LUCOS SEY067 SEY HTO V139 BRIGS ACY V184 OOD .....	1100-0300
	or (110-170, jets) BOS LUCOS SEY067 SEY HTO V139 BRIGS CEDAR LAKE-STAR .....	1100-0300
<b>KENNEDY (JFK)</b> —See New York Metro Area		
<b>LA GUARDIA (LGA)</b> —See New York Metro Area		
<b>LONG ISLAND (Mac Arthur) (ISP)</b>		
Albany (ALB) .....	(110-170 incl) SOARS V487 CANAN .....	1100-0300
Auburn/Lewiston (LEW) .....	(110-170 incl) HTO 308 ORW V14 GDM V39 LABEL .....	1100-0300
Bangor (BGR) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG	1100-0300
Bedford (BED) .....	(110-150 only) HTO V308 ORW DREEM (RNAV)-STAR .....	1100-0300
Beverly (BVY) .....	(110-170 incl) HTO V308 ORW GRAYM-STAR .....	1100-0300
Concord (CON) .....	(110-150 incl) HTO V308 ORW V14 GDM V39 CON	1100-0300
Fitchburg (FIT) .....	(110-170 incl) HTO V308 ORW GRAYM-STAR .....	1100-0300
Keene (EEN) .....	(110-170 only) HTO V308 ORW V14 GDM .....	1100-0300
Laconia (LCI) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 CON	1100-0300
Lawrence (LWM) .....	(110-170 incl) HTO V308 ORW GRAYM-STAR .....	1100-0300
Lebanon (LEB) .....	(110-170 incl) HTO V308 ORW V14 GDM EEN ....	1100-0300
Manchester (MHT) .....	(Jets only) (110-170 incl) MERIT HFD CRIBB ROZZE (RNAV)-STAR .....	1100-0300
	or (Props only) (110-170 incl) HTO V308 ORW V14 GDM V106 MHT .....	1100-0300
Portland (PWM) .....	(110-170 incl) HTO V308 ORW V14 GDM CON CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM) .....	(110-170 incl) HTO V308 ORW V14 GDM V106 MHT V106 RAYMY .....	1100-0300
Providence (PVD) .....	(110-170 incl) HTO V139 WACKY .....	1100-0300
Rockland (RKD) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG	1100-0300
Waterville (WVL) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG	1100-0300
<b>MONTREAL (CYUL)</b>		
Newark (EWR) .....	(80-170 incl, 250 kts or less) FAWNS ALB V489 COATE .....	1100-0300
	or (110-170 incl, more than 250 kts) FAWNS ALB FLOSI (RNAV)-STAR .....	1100-0300
<b>MORRISTOWN (MMU)</b>		
Albany (ALB) .....	(110-150 only) BREZY V39 SOARS V487 CANAN .	1100-0300
Auburn/Lewiston (LEW) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON .....	1100-0300
Augusta (AUG) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON .....	1100-0300
Bangor (BGR) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON AUG .....	1100-0300
Bar Harbor (BHB) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON AUG .....	1100-0300
Barre/Montpelier (MPV) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM .....	1100-0300
Bedford (BED) .....	(110-170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)-STAR .....	1100-0300
Beverly (BVY) .....	(110-170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)-STAR .....	1100-0300
Boston (BOS) .....	(Jets only) (110-170 incl) BREZY V39 CMK MERIT ROBUC (RNAV)-STAR .....	1100-0300
	or (Props only) (110-170 incl) BREZY V39 CMK MERIT WOONS-STAR .....	1100-0300

Terminals	Route	Effective Times (UTC)
Burlington (BTV) .....	(110-170 incl) BREZY V39 GREKI V39 SOARS V487 BTV .....	1100-0300
Concord (CON) .....	(110-150 incl) BREZY V39 CMK MERIT HFD V229 GDM .....	1100-0300
Glens Falls (GFL) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM .....	1100-0300
Hyannis (HYA) .....	(110-170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MZY .....	1100-0300
Keene (EEN) .....	(110-130 only) BREZY V39 CMK MERIT HFD V229 GDM .....	1100-0300
Laconia (LCI) .....	(110-170 incl) BREZY V39 CMK MERIT HFD V229 GDM CON .....	1100-0300
Lake Placid (LKP) .....	(110-170 incl) STUBY V487 CAM .....	1100-0300
Lawrence (LWM) .....	(110-170 incl) BREZY V39 CMK MERIT HFD GRAYM-STAR .....	1100-0300
Lebanon (LEB) .....	(110-170 incl) BREZY V39 CMK MERIT HFD EEN .	1100-0300
Manchester (MHT) .....	(Props only) (110-170 incl) BREZY V39 CMK MERIT V99 HFD V229 GDM V106 MHT .....	1100-0300
Martha's Vineyard (MVY) .....	(110-170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MZY .....	1100-0300
Nantucket (ACK) .....	(Props only) (110-170 incl) BREZY V39 CMK BAYYS SEALL V188 GON DEEPO (RNAV)-STAR .....	1100-0300
Nashua (ASH) .....	(110-170 incl) BREZY V39 CMK MERIT HFD V229 GDM V106 MHT .....	1100-0300
New Bedford (EWB) .....	(110-170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MINNK .....	1100-0300
Pittsfield (PSF) .....	(110-170 incl) STUBY V487 HIDAL .....	1100-0300
Portland (PWM) .....	(110-170 incl) BREZY V39 CMK V39 SOARS V487 CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM) .....	(110-170 incl) BREZY V39 SOARS V487 STUBY V93 CON .....	1100-0300
Providence (PVD) .....	(110-130 only) BREZY V39 CMK BAYYS SEALL V188 GON V374 MINNK .....	1100-0300
Provincetown (PVC) .....	(110-170 incl) BAYYS SEALL V188 GON V374 MZY	1100-0300
Rockland (RKD) .....	(110-170 incl) BREZY V39 CMK SOARS V487 CAM CON .....	1100-0300
Rutland (RUT) .....	(110-170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Saranac Lake (SLK) .....	(110-170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Waterville (WVL) .....	(110-170 incl) BREZY V39 SOARS V487 CAM CON	1100-0300
<b>NEWBURGH (SWF)</b>		
Albany (ALB) .....	(110-150 only) STUBY V487 CANAN .....	1100-0300
Auburn/Lewiston (LEW) .....	(110-130 incl) STUBY V93 CON .....	1100-0300
Augusta (AUG) .....	(110-170 incl) STUBY V487 CAM CON .....	1100-0300
Bangor (BGR) .....	(110-170 incl) STUBY V487 CAM CON AUG .....	1100-0300
Bar Harbor (BHB) .....	(110-170 incl) STUBBY V487 CAM CON AUG .....	1100-0300
Barre/Montpelier (MPV) .....	(110-170 incl) STUBY V487 CAM .....	1100-0300
Boston (BOS) .....	(Jets only) (110-170 incl) PWL STUBY WHATE JFUND (RNAV)-STAR .....	1100-0300
	or	
	(Props only) (110-170 incl) STUBY V93 WARIC GARDNER-STAR .....	1100-0300
Burlington (BTV) .....	(110-170 incl) STUBBY V487 CAM .....	1100-0300
Concord (CON) .....	(110-170 incl) STUBY V93 CON .....	1100-0300
Glens Falls (GFL) .....	(110-170 incl) STUBY V487 CAM .....	1100-0300
Hyannis (HYA) .....	(110-170 incl) PWL V34 MOONI V58 HFD GON V374 MZY .....	1100-0300
Keene (EEN) .....	(110-170 only) STUBY V93 EEN .....	1100-0300
Laconia (LCI) .....	(110-170 incl) STUBY V93 EEN CON .....	1100-0300
Lake Placid (LKP) .....	(110-170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Lebanon (LEB) .....	(110-170 incl) STUBY V93 EEN .....	1100-0300
Manchester (MHT) .....	(Props only) (110-170 incl) STUBY V93 EEN .....	1100-0300
Martha's Vineyard (MVY) .....	(110-170 incl) IGN V58 HFD GON V374 MZY .....	1100-0300
Nantucket (ACK) .....	(110-170 incl) PWL V39 MOONI V58 HFD ORW DEEPO (RNAV)-STAR .....	1100-0300
Nashua (ASH) .....	(110-150 incl) STUBY V93 EEN MHT .....	1100-0300
Norwood (OWD) .....	(110-170 incl) BREZY V39 CMK MERIT ORW WOONS-STAR .....	1100-0300

Terminals	Route	Effective Times (UTC)
Pittsfield (PSF) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CANAN .....	1100–0300
Portland (PWM) .....	(110–170 incl) STUBY V487 CAM CDOGG (RNAV)–STAR .....	1100–0300
Portsmouth (PSM) .....	(110–170 incl) STUBY V93 EEN CON .....	1100–0300
Providence (PVD) .....	(110–170 incl) PWL V34 MOONI V58 HFD ORW V130 LAFAY .....	1100–0300
Rockland (RKD) .....	(110–170 incl) STUBY V487 CAM CON .....	1100–0300
<b>NEW HAVEN (HVN)</b>		
Albany (ALB) .....	(110–170 incl) SOARS V487 CANAN .....	1100–0300
Auburn/Lewiston (LEW) .....	(110–170 incl) HTO 308 ORW V14 GDM V39 LABEL .....	1100–0300
Baltimore (BWI) .....	(at or above FL170) BEADS V139 AVALO V268 BAL .....	
Bangor (BGR) .....	(110–170 incl) HTO V308 ORW V14 GDM V39 AUG .....	1100–0300
Bedford (BED) .....	(110–150 only) MAD V1 HFD DREEM (RNAV)–STAR .....	1100–0300
Beverly (BVY) .....	(110–170 incl) MAD HFD GRAYM–STAR .....	1100–0300
Boston (BOS) .....	(110–170 incl) BDR MERIT ROBUC (RNAV)–STAR .....	1100–0300
Concord (CON) .....	(110–150 incl) HTO V308 ORW V14 GDM V39 CON .....	1100–0300
Fitchburg (FIT) .....	(110–170 incl) MAD HFD GRAYM–STAR .....	1100–0300
Keene (EEN) .....	(110–170 only) HTO V308 ORW V14 GDM .....	1100–0300
Laconia (LCI) .....	(110–170 incl) HTO V308 ORW V14 GDM V39 CON .....	1100–0300
Lawrence (LWM) .....	(110–170 incl) MAD HFD GRAYM–STAR .....	1100–0300
Lebanon (LEB) .....	(110–170 incl) HTO V308 ORW V14 GDM EEN ....	1100–0300
Manchester (MHT) .....	(Jets only) (110–170 incl) MAD V1 HFD CRIBB ROZZE (RNAV)–STAR .....	1100–0300
	or	
	(Props only) (110–170 incl) MAD V1 HFD V229 GDM V106 MHT .....	1100–0300
Portland (PWM) .....	(110–170 incl) HTO V308 ORW V14 GDM CON CDOGG (RNAV)–STAR .....	1100–0300
Portsmouth (PSM) .....	(110–170 incl) HTO V308 ORW V14 GDM V106 MHT V106 RAYMY .....	1100–0300
Providence (PVD) .....	(110–170 incl) MAD V475 CARLD V188 GON V374 MINNK .....	1100–0300
Rockland (RKD) .....	(110–170 incl) HTO V308 ORW V14 GDM V39 AUG .....	1100–0300
Waterville (WVL) .....	(110–170 incl) HTO V308 ORW V14 GDM V39 AUG .....	1100–0300
<b>NEW YORK METRO AREA</b>		
From <b>KENNEDY (JFK)</b> only		
Albany (ALB) .....	(70–170 incl) BDR V487 CANAN .....	1100–0300
Auburn/Lewiston (LEW) .....	(110–170 incl) BDR V487 CAM CON .....	1100–0300
Baltimore (BWI) .....	(90–170 incl, 250 kts or less) WHITE V1 LEEAH V268 .....	1100–0300
	or	
	(Turbojets only) WAVEY PLUME V139 SIE V308 LAFLN MIIDY (RNAV)–STAR .....	
Bangor (BGR) .....	(110–170 incl) MERIT HFD PUT ENE .....	1100–0300
Bar Harbor (BHB) .....	(110–170 incl) BDR V487 CAM CON AUG .....	1100–0300
Barre/Montpelier (MPV) .....	(110–170 incl) BDR V487 CAM .....	1100–0300
Bedford (BED) .....	(110–170 incl) MERIT HFD DREEM (RNAV)–STAR .....	1100–0300
Boston (BOS) .....	(Props only) (110–170 incl) MERIT ORW WOONS–STAR .....	1100–0300
	or	
	(110–170, Non–Turbojet) MERIT ORW WOONS–STAR .....	1100–0300
	or	
	(110–170, DME/DME–IRU or GNSS Required) MERIT ROBUC (RNAV)–STAR .....	1100–0300
Burlington (BTV) .....	(90–170 incl) BDR V487 .....	1100–0300
	or	
	(Props only) (110–170 incl) BDR V487 BTV .....	1100–0300
Fitchburg (FIT) .....	(110–170 incl) MERIT HFD GRAYM–STAR .....	1100–0300
Hagerstown (HGR) .....	(140–160) RBV V276 V162 HAR V377 .....	1100–0300
	or	
	(90–130 incl) COATE T218 TALLI LVZ V93 DUMMR V162 HAR V377 .....	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Harrisburg (MDT).....	(90-130 incl) COATE T218 TALLI LVZ V93 DUMMR V162 HWANG.....	1100-0300
	or	
	(140-160 incl) RBV V276 V162 HWANG .....	1100-0300
	or	
	(90-130 incl) COATE T218 TALLI LVZ V93 DUMMR V162 HYPER V143 ROBR T AML .....	1100-0300
Lawrence (LWM).....	(110-170 incl) MERIT HFD GRAYM-STAR .....	1100-0300
Lebanon (LEB).....	(110-170 incl) HTO V308 ORW V14 GDM EEN ....	1100-0300
Montreal (CYUL).....	(110-170) BDR V91 BOWAN V487 BTV LATTS CARTER (CANADIAN RNAV)-STAR .....	1100-0300
Nantucket (ACK).....	(110-170 incl) BAYYS V229 SEALL V188 GON V374 DEEPO DEEPO (RNAV)-STAR .....	1100-0300
	or	
	(Jets only) (110-170) BETTE DEEPO (RNAV)-STAR	1100-0300
Norfolk (ORF).....	(90-170 incl, more than 250 kts) WAVEY PLUME V139 CCV.....	1100-0300
	or	
	(90-170 incl, 250 kts or less) WHITE V1 CCV .....	1100-0300
Pittsfield (PSF).....	(110-170 incl) BDR V487 HIDAL .....	1100-0300
Portland (PWM).....	(110-170 incl) BDR V487 CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM).....	(110-170 incl) BDR V487 CAM CON .....	1100-0300
Providence (PVD).....	(110-170 incl) BAYYS V229 SEALL V188 GON V374 MINNK .....	1100-0300
Provincetown (PVC).....	(110-170 incl) BAYYS SEALL V188 GON V374 MVY	1100-0300
Rochester (ROC).....	(90-130 incl) HAAYS HUO V252 GIBBE .....	1100-0300
	or	
	(140-170 incl) GAYEL V374 CFB V252 GIBBE.....	1100-0300
Rockland (RKD).....	(110-170 incl) BDR V487 CAM .....	1100-0300
Rutland (RUT).....	(110-170 incl) BDR V487 CAM .....	1100-0300
Syracuse (SYR).....	(90-130 incl) HAAYS HUO V252 CFB V29.....	1100-0300
	or	
	(140-170 incl) GAYEL V374 CFB.....	1100-0300
Toronto (CYYZ).....	(90-130 incl) COATE LAAYK ULW WOZEE VERKO (RNAV)-STAR .....	
	or	
	(140-170 incl) GAYEL V374 CFB V270 ULW WOZEE VERKO (RNAV)-STAR .....	
Washington Natl (DCA).....	(80-170 incl, 250 kts or less) V1 LEEAH V229 ATWEL CHOPS V308 BILIT CAPKO .....	1100-0300
	or	
	(80-170 incl, more than 250 kts) WAVEY PLUME V308 BILIT CAPKO .....	1100-0300
Waterville (WVL).....	(110-170 incl) BDR V487 CAM CON .....	1100-0300
From <b>LA GUARDIA (LGA)</b> only		
Albany (ALB).....	(110-150 only) BDR V487 CANAN .....	1100-0300
Auburn/Lewiston (LEW).....	(110-170 incl) BDR V487 CAM CON .....	1100-0300
Augusta (AUG).....	(110-170 incl) BDR V487 CAM CON .....	1100-0300
Baltimore (BWI).....	(Turbojets only) BIGGY V3 MXE V378 NUGGY TRISH (RNAV)-STAR .....	
Bangor (BGR).....	(110-170 incl) BDR V487 CAM CON AUG.....	1100-0300
Bar Harbor (BHB).....	(110-170 incl) BDR V487 CAM CON AUG.....	1100-0300
Barre/Montpelier (MPV).....	(110-170 incl) BDR V487 CAM .....	1100-0300
Bedford (BED).....	(110-170 incl) MERIT HFD DREEM (RNAV)-STAR .	1100-0300
Beverly (BVY).....	(110-170 incl) MERIT HFD DREEM (RNAV)-STAR .	1100-0300
Binghamton (BGM).....	(90-170 incl) HAAYS HUO V252 CFB .....	1100-0300
Birmingham (BHM).....	LANNA J48 CSN FANPO Q40 NIOLA VUZ	
Boston (BOS).....	(110-170, Non-turbojet) MERIT ORW WOONS-STAR.....	1100-0300
	or	
	(110-170) (DME/DME-IRU or GNSS Required) MERIT ROBUC (RNAV)-STAR .....	1100-0300
Burlington (BTW).....	(110-170 incl) BDR V487 BTW .....	1100-0300
Cleveland (CLE).....	(90-100 incl) LANNA V30 SEG V6 YNG CXR .....	1100-0300
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(140-170 incl.) ELIOT V39 ETX V30 SEG V6 YNG CXR .....	1100-0300
Chattanooga (CHA) .....	LANNA J48 CSN FANPO Q40 ALEAN VXV	
Concord (CON) .....	(110-150 incl) MERIT HFD V229 GDM .....	1100-0300
Elmira (ELM) .....	(90-170 incl) COATE LAAYK ULW .....	1100-0300
Fitchburg (FIT) .....	(110-170 incl) MERIT HFD GRAYM-STAR .....	1100-0300
Glens Falls (GFL) .....	(110-170 incl) BDR V487 CAM .....	1100-0300
Harrisburg (CXY) .....	(90-100) LANNA V30 ETX V162 HWANG.....	1100-0300
	or	
	(110-170 incl) ELIOT V39 ETX V162 HWANG.....	1100-0300
Houston/Hobby(HOU).....	(Turbojets) LANNA J48 CSN FANPO Q40 AEX WAPPL (RNAV)-STAR.....	
Houston (IAH).....	(Turbojets) (IAH EAST FLOW) LANNA J48 CSN FANPO Q40 AEX SKNRD (RNAV)-STAR.....	
	or	
	(Turbojets) (IAH WEST FLOW) RBV J230 BYRDD J48 CSN FANPO Q40 AEX DOOBI(RNAV)-STAR.....	
Hyannis (HYA) .....	(110-170 incl) BAYYS SEALL V188 GON V374 MVY.....	1100-0300
Keene (EEN) .....	(110-170 incl) MERIT HFD V229 GDM .....	1100-0300
Knoxville (TYS).....	LANNA J48 CSN FANPO Q40 ALEAN VXV.....	
Laconia (LCI) .....	(110-170 incl) MERIT HFD V229 GDM CON.....	1100-0300
Lake Placid (LKP).....	(110-170 incl) BDR V487 CAM .....	1100-0300
Lawrence (LWM) .....	(110-170 incl) MERIT HFD GRAYM-STAR .....	1100-0300
Lebanon (LEB) .....	(110-170 incl) MERIT HFD EEN .....	1100-0300
Manchester (MHT) .....	(Props only) (110-170 incl) MERIT HFD V229 GDM V106 MHT .....	1100-0300
	or	
	(Jets only) (110-170 incl) MERIT HFD CRIBB ROZZE (RNAV)-STAR .....	1100-0300
Martha's Vineyard (MVY) .....	(110-170 incl) BAYYS V229 SEALL V188 GON V374 MVY.....	1100-0300
Montreal (CYUL) .....	(70-170 incl) BDR V91 BOWAN V487 BTV LATTS CARTER (CANADIAN RNAV)-STAR .....	1100-0300
Nantucket (ACK) .....	(Jets only) (110-170 incl) BAYYS SEALL V188 GON DEEPO (RNAV)-STAR .....	1100-0300
Nashua (ASH).....	(110-170 incl) MERIT HFD V229 GDM V106 MHT	1100-0300
New Bedford (EWB) .....	(110-170 incl) BAYYS SEALL V188 GON V374 MINNK.....	1100-0300
New Orleans (MSY).....	LANNA J48 CSN FANPO Q40 NIOLA MEI RYTHM-STAR.....	
New Orleans (NEW).....	LANNA J48 CSN FANPO Q40 NIOLA MEI RYTHM-STAR.....	
Norfolk (ORF) .....	(90-170 incl) WHITE V1 CCV.....	
Norwood (OWD).....	(110-170 incl) MERIT ORW WOONS-STAR.....	1100-0300
Pittsburgh (PIT).....	(90-100 incl) LANNA V30 PSB HAYNZ (RNAV)-STAR .....	1100-0300
	or	
	(140-170 incl) ELIOT V39 ETX V30 PSB HAYNZ (RNAV)-STAR .....	1100-0300
Pittsfield (PSF) .....	(110-170 incl) BDR V487 HIDAL.....	1100-0300
Portland (PWM) .....	(110-170 incl) BDR V487 CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM).....	(110-170 incl) BDR V487 CAM CON .....	1100-0300
Providence (PVD) .....	(110-130 only) BAYYS SEALL V188 GON V374 MINNK.....	1100-0300
Provincetown (PVC) .....	(110-170 incl) BAYYS SEALL V188 GON V374 MVY	1100-0300
Richmond (RIC) .....	(90-170 incl) WHITE V1 JAMIE .....	1100-0300
Rochester (ROC) .....	(90-170 incl) HAAYS HUO V252 GIBBE .....	1100-0300
Rockland (RKD) .....	(110-170 incl) BDR V487 CAM .....	1100-0300
Rutland (RUT) .....	(110-170 incl) BDR V487 CAM .....	1100-0300
Saranac Lake (SLK) .....	(110-170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Syracuse (SYR) .....	(90-170 incl, less than 250 kts) HAAYS HUO V252 CFB V29 .....	1100-0300
	or	
	(90-170 incl, 250 kts plus) GAYEL CFB .....	1100-0300
Tri-Cities (TRI) .....	LANNA J48 CSN FANPO Q40 ALEAN	



## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Toronto (CYYZ).....	(90–170 incl) COATE LAAYK ULW WOZEE VERKO (RNAV)-STAR.....	
Washington Dulles (IAD).....	(140–170 incl, props) ELIOT V39 LRP V143 MULRR AML.....	1100-0300
	or	
	(90–130 incl, props) LANNA V30 ETX V39 LRP V143 ROBERT AML.....	1100-0300
Washington Natl (DCA).....	(90–170 incl, props) BIGGY V3 MXE V378 BAL.....	1100-0300
Waterville (WVL).....	(110–170 incl) BDR V487 CAM CON.....	1100-0300
Wilkes-Barre/Scranton (AVP).....	(90–170 incl) COATE T218 TALLI LVZ.....	1100-0300
From <b>NEWARK (EWR)</b> only		
Albany (ALB).....	(Jets only) (110–150 incl) BDR V487 CANAN.....	1100-0300
	or	
	(Props only) (110–150 only) BREZY V39 SOARS V487 CANAN.....	1100-0300
	or	
Auburn/Lewiston (LEW).....	(110–170 incl) BDR V487 CAM CON.....	1100-0300
Augusta (AUG).....	(110–170 incl) BDR V487 CAM CON.....	1100-0300
Baltimore (BWI).....	(Turbojets only) BIGGY V3 MXE V378 NUGGY TRISH (RNAV)-STAR.....	
Bangor (BGR).....	(110–170 incl) BDR V487 CAM CON AUG.....	1100-0300
Bar Harbor (BHB).....	(110–170 incl) BDR V487 CAM CON AUG.....	1100-0300
Barre/Montpelier (MPV).....	(110–170 incl) BDR V487 CAM.....	1100-0300
Bedford (BED).....	(Jets only) (110–170 incl) MERIT HFD DREEM (RNAV)-STAR.....	1100-0300
	or	
	(Props only) (110–170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)-STAR.....	1100-0300
Beverly (BVY).....	(Jets only) (110–170 incl) MERIT HFD DREEM (RNAV)-STAR.....	1100-0300
	or	
	(Props only) (110–170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)-STAR.....	1100-0300
Binghamton (BGM).....	(90–170 incl) HAAYS HUO V252 CFB.....	1100-0300
Boston (BOS).....	(Props only) (110–170 incl) BREZY V39 CMK MERIT ORW WOONS-STAR.....	1100-0300
	or	
	(110–170, Turbojet-DME/DME-IRU or GNSS Required) MERIT ROBUC (RNAV)-STAR.....	1100-0300
Buffalo (BUF).....	(90–170 incl) COATE LAAYK ULW ULW306 BENEE	1100-0300
Burlington (BTV).....	(110–170 incl) BDR V487 BTW.....	1100-0300
Cleveland (CLE).....	(90–100 incl) LANNA V30 SEG V6 YNG CXR.....	1100-0300
	or	
	(140–170 incl) ELIOT V39 ETX V30 SEG V6 YNG CXR.....	1100-0300
Concord (CON).....	(110–150 incl) MERIT HFD V229 GDM.....	1100-0300
Elmira (ELM).....	(90–170 incl) COATE LAAYK ULW.....	1100-0300
Fitchburg (FIT).....	(Jets only) (110–170 incl) MERIT HFD GRAYM-STAR	1100-0300
	or	
	(Props only) (110–170 incl) BREZY V39 CMK MERIT HFD GRAYM-STAR.....	1100-0300
Glens Falls (GFL).....	(Jets only) (110–170 incl) BDR V487 CAM.....	1100-0300
	or	
	(Props only) (110–170 incl) BREZY V39 SOARS V487 CAM.....	1100-0300
Harrisburg (CXV).....	(90–100 incl) LANNA V30 ETX V162 HWANG.....	1100-0300
	or	
	(110–170 incl) ELIOT V39 ETX V162 HWANG.....	1100-0300
Hyannis (HYA).....	(110–170 incl) BAYYS SEALL V188 GON V374 MVY.....	1100-0300
	or	
	(Props only) (110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MVY.....	1100-0300
Keene (EEN).....	(110–170 incl) MERIT HFD V229 GDM.....	1100-0300
Laconia (LCI).....	(110–170 incl) MERIT HFD V229 GDM CON.....	1100-0300
Lake Placid (LKP).....	(Jets only) (110–170 incl) BDR V487 CAM.....	1100-0300
	or	

Terminals	Route	Effective Times (UTC)
Lawrence (LWM)	(Props only) (110–170 incl) BREZY V39 SOARS V487 CAM	1100–0300
	(110–170 incl) MERIT HFD GRAYM–STAR or	1100–0300
Lebanon (LEB)	(Props only) (110–170 incl) BREZY V39 CMK MERIT HFD GRAYM–STAR	1100–0300
	(110–170 incl) MERIT HFD EEN	1100–0300
Manchester (MHT)	(Jets only) (110–170 incl) MERIT HFD CRIBB V106 ROZZE (RNAV)–STAR	1100–0300
	or	
Martha's Vineyard (MVY)	(Props only) (110–170 incl) BREZY V39 CMK MERIT HFD V229 GDM V106 MHT	1100–0300
	(110–170 incl) BAYYS V229 SEALL V188 GON V374 MVY	1100–0300
Martinsburg (MRB)	or	
	(Props only) (110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MVY	1100–0300
Martin State (MTN)	(90–100) LANNA V30 ETX V39	1100–0300
	or	
Montreal (CYUL)	(110–170 incl) ELIOT V39	1100–0300
	(90–170 incl) BIGGY V3 MXE V408 VINNY V93 SKILS	1100–0300
Nantucket (ACK)	(70–170 incl) BDR V91 BOWAN V487 BTV LATTS CARTER (CANADIAN RNAV)–STAR	1100–0300
	(Jets only) (110–170 incl) BAYYS SEALL V188 GON DEEPO (RNAV)–STAR	1100–0300
Nashua (ASH)	or	
	(Props only) (110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON DEEPO (RNAV)–STAR	1100–0300
New Bedford (EWB)	(110–170 incl) MERIT HFD V229 GDM V106 MHT	1100–0300
	(Jets only) (110–170 incl) BAYYS SEALL V188 GON V374 MINNK	1100–0300
Norfolk (ORF)	or	
	(Props only) (110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MINNK	1100–0300
Norwood (OWD)	(90–170 incl) WHITE V1 CCV	1100–0300
	(110–170 incl) MERIT ORW WOONS–STAR	1100–0300
Pittsburgh (PIT)	or	
	(Props only) (110–170 incl) BREZY V39 CMK MERIT ORW WOONS–STAR	1100–0300
Pittsfield (PSF)	(90–100 incl) LANNA V30 PSB HAYNZ (RNAV)–STAR	1100–0300
	or	
Portland (PWM)	(140–170 incl.) ELIOT V39 ETX V30 PSB HAYNZ (RNAV)–STAR	1100–0300
	(110–170 incl) BDR HIDAL V487	1100–0300
Portsmouth (PSM)	(110–170 incl) BDR V487 CAM CDOGG (RNAV)–STAR	1100–0300
	(110–170 incl) BDR V487 CAM CON	1100–0300
Providence (PVD)	(110–130 only) BAYYS SEALL V188 GON V374 MINNK	1100–0300
	or	
Provincetown (PVC)	(Props only) (110–130 only) BREZY V39 CMK BAYYS SEALL GON V374 MINNK	1100–0300
	(110–170 incl) BAYYS SEALL V188 GON V374 MVY	1100–0300
Richmond (RIC)	(90–170 incl) WHITE V1 JAMIE	1100–0300
	(90–170 incl) HAAYS HUO V252 GIBBE	1100–0300
Rockland (RKD)	(110–170 incl) BDR V487 CAM	1100–0300
	(110–170 incl) BDR V487 CAM	1100–0300
Saranac Lake (SLK)	(110–170 incl) BREZY V39 SOARS V487 CAM	1100–0300
	(90–170 incl, less than 250 Kts) HAAYS HUO V252 CFB V29	1100–0300
Toronto (CYYZ)	or	
	(90–170 incl, 250 Kts plus) GAYEL CFB	1100–0300
Washington Dulles (IAD)	(90–170 incl) COATE LAAYK ULW WOZEE VERKO (RNAV)–STAR	1100–0300
	(140–170 incl, props) ELIOT V39 LRP V143 MULRR AML	1100–0300

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	or	
	(90–130 incl, props) LANNA V30 ETX V39 LRP V143 MULRR AML .....	1100-0300
Washington Natl (DCA) .....	(90–170 incl, props) BIGGY V3 MXE V378 BAL .....	1100-0300
Waterville (WVL) .....	(110–170 incl) BDR V487 CAM CON .....	1100-0300
Wilkes-Barre/Scranton (AVP) .....	(90–170 incl) COATE T218 TALLI LVZ .....	1100-0300
From <b>TETERBORO (TEB)</b> only		
Albany (ALB) .....	(110–150 only) BREZY V39 SOARS V487 CANAN..	1100-0300
Auburn/Lewiston (LEW) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON .....	1100-0300
Augusta (AUG) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON .....	1100-0300
Bangor (BGR) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON AUG .....	1100-0300
Bar Harbor (BHB) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CAM CON AUG .....	1100-0300
Barre/Montpelier (MPV) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CAM .....	1100-0300
Bedford (BED) .....	(110–170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)–STAR .....	1100-0300
Beverly (BVY) .....	(110–170 incl) BREZY V39 CMK MERIT HFD DREEM (RNAV)–STAR .....	1100-0300
Boston (BOS) .....	(Jets only) (110–170 incl) BREZY V39 CMK MERIT ROBUC (RNAV)–STAR .....	1100-0300
	or	
	(Props only) (110–170 incl) BREZY V39 CMK MERIT ORW WOONS–STAR .....	1100-0300
Burlington (BTV) .....	(110–170 incl) BREZY V39 CMK GREKI V39 SOARS V487 BTV .....	1100-0300
Concord (CON) .....	(110–150 incl) BREZY V39 CMK MERIT HFD V229 GDM .....	1100-0300
Glens Falls (GFL) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CAM .....	1100-0300
Hyannis (HYA) .....	(110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MVY .....	1100-0300
Keene (EEN) .....	(110–130 only) BREZY V39 CMK MERIT HFD V229 GDM .....	1100-0300
Laconia (LCI) .....	(110–170 incl) BREZY V39 CMK MERIT HFD V229 GDM CON .....	1100-0300
Lake Placid (LKP) .....	(110–170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Lawrence (LWM) .....	(110–170 incl) BREZY V39 CMK MERIT HFD GRAYM–STAR .....	1100-0300
Lebanon (LEB) .....	(110–170 incl) BREZY V39 CMK MERIT HFD EEN .	1100-0300
Manchester (MHT) .....	(Props only) (110–170 incl) BREZY V39 CMK MERIT V99 HFD V229 GDM V106 MHT .....	1100-0300
Martha's Vineyard (MVY) .....	(110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MVY .....	1100-0300
Nantucket (ACK) .....	(Props only) (110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON DEEPO (RNAV)–STAR .....	1100-0300
Nashua (ASH) .....	(110–170 incl) BREZY V39 CMK MERIT HFD V229 GDM V106 MHT .....	1100-0300
New Bedford (EWB) .....	(110–170 incl) BREZY V39 CMK BAYYS SEALL V188 GON V374 MINNK .....	1100-0300
Norwood (OWD) .....	(110–170 incl) BREZY V39 CMK MERIT ORW WOONS–STAR .....	1100-0300
Pittsfield (PSF) .....	(110–170 incl) BREZY V39 CMK V39 SOARS V487 CANAN .....	1100-0300
Portsmouth (PSM) .....	(110–170 incl) BREZY V39 SOARS V487 STUBY V93 CON .....	1100-0300
Providence (PVD) .....	(110–130 only) BREZY V39 CMK BAYYS SEALL V188 GON V374 MINNK .....	1100-0300
Provincetown (PVC) .....	(110–170 incl) BAYYS SEALL V188 GON V374 MVY	1100-0300
Rockland (RKD) .....	(110–170 incl) BREZY V39 CMK SOARS V487 CAM CON .....	1100-0300
Rutland (RUT) .....	(110–170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Saranac Lake (SLK) .....	(110–170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Waterville (WVL) .....	(110–170 incl) BREZY V39 SOARS V487 CAM CON	1100-0300
From <b>WHITE PLAINS (HPN)</b> only		
Albany (ALB) .....	(110–150 only) CMK V39 SOARS V487 CANAN .....	1100-0300

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# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Auburn/Lewiston (LEW) .....	(110-170 incl) CMK V39 SOARS V487 CAM CON .	1100-0300
Augusta (AUG) .....	(110-170 incl) CMK V39 SOARS V487 CAM CON .	1100-0300
Baltimore (BWI) .....	(Turbojets only) BIGGY V3 MXE V378 NUGGY TRISH (RNAV)-STAR .....	
Bangor (BGR) .....	(110-170 incl) CMK V39 SOARS V487 CAM CON AUG.....	1100-0300
Bar Harbor (BHB).....	(110-170 incl) CMK V39 SOARS V487 CAM CON AUG.....	1100-0300
Barre/Montpelier (MPV) .....	(110-170 incl) CMK V39 SOARS V487 CAM .....	1100-0300
Beverly (BVY).....	(110-170 incl) MERIT HFD DREEM (RNAV)-STAR.	1100-0300
Binghamton (BGM).....	(90-170 incl) HAAYS HUO V252 CFB .....	1100-0300
Boston (BOS) .....	(110-170, Non-Turbojet) MERIT ORW WOONS-STAR .....	1100-0300
	or	
	(110-170, DME/DME-IRU or GNSS Required) MERIT ROBUC (RNAV)-STAR.....	1100-0300
Burlington (BTV) .....	(110-170 incl) CMK V39 SOARS V487 BTV.....	1100-0300
Cleveland (CLE) .....	(90-170 incl) COATE LAAYK T216 FQM V58 PSB V6 YNG CXR .....	1100-0300
Concord (CON).....	(110-150 incl) MERIT HFD V229 GDM .....	1100-0300
Elmira (ELM) .....	(90-170 incl) COATE LAAYK ULW .....	1100-0300
Fitchburg (FIT) .....	(110-170 incl) MERIT HFD GRAYM-STAR .....	1100-0300
Glens Falls (GFL).....	(110-170 incl) CMK V39 SOARS V487 CAM .....	1100-0300
Harrisburg (CXY) .....	(90-100) LANNA V30 ETX V162 HWANG.....	1100-0300
	or	
Hyannis (HYA) .....	(110-170 incl) ELIOT V39 ETX V162 HWANG.....	1100-0300
	(110-170 incl) BAYYS SEALL V188 GON V374 MVY.....	1100-0300
Keene (EEN) .....	(110-170 incl) MERIT HFD V229 GDM .....	1100-0300
Laconia (LCI) .....	(110-170 incl) MERIT HFD V229 GDM CON.....	1100-0300
Lake Placid (LKP).....	(110-170 incl) CMK V39 SOARS V487 CAM .....	1100-0300
Lawrence (LWM).....	(110-170 incl) MERIT HFD GRAYM-STAR .....	1100-0300
Lebanon (LEB).....	(110-170 incl) MERIT HFD EEN .....	1100-0300
Manchester (MHT) .....	(Jets only) (110-170 incl) MERIT HFD CRIBB ROZEE (RNAV)-STAR .....	1100-0300
	or	
	(Props only) (110-170 incl) MERIT V99 HFD V229 GDM V106 MHT.....	1100-0300
Martha's Vineyard (MVY) .....	(110-170 incl) BAYYS V229 SEALL V188 GON V374 MVY.....	1100-0300
Montreal (CYUL) .....	(70-170 incl) GREKI V39 SOARS V487 BTV LATTS CARTER (CANADIAN RNAV)-STAR .....	1100-0300
Nantucket (ACK) .....	(Jets only) (110-170 incl) BAYYS SEALL V188 GON DEEPO (RNAV)-STAR .....	1100-0300
Nashua (ASH).....	(110-170 incl) MERIT HFD V229 GDM V106 MHT	1100-0300
New Bedford (EWB) .....	(110-170 incl) BAYYS SEALL V188 GON V374 MINNK.....	1100-0300
Norfolk (ORF) .....	(90-170 incl) WHITE V1 CCV.....	1100-0300
Norwood (OWD).....	(110-170 incl) MERIT ORW WOONS-STAR .....	1100-0300
Pittsburgh (PIT).....	(90-170 incl) COATE LAAYK T216 FQM V58 PSB HAYNZ (RNAV)-STAR.....	1100-0300
Pittsfield (PSF) .....	(110-170 incl) CMK V39 SOARS V487 HIDAL .....	1100-0300
Portland (PWM) .....	(110-170 incl) CMK V39 SOARS V487 CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM).....	(110-170 incl) CMK V39 SOARS V487 CAM CON .	1100-0300
Providence (PVD) .....	(110-130 only) BAYYS SEALL V188 GON V374 MINNK.....	1100-0300
Provincetown (PVC).....	(110-170 incl) BAYYS SEALL V188 GON V374 MVY	1100-0300
Richmond (RIC) .....	(110-170 incl) WHITE V1 JAMIE .....	1100-0300
Rochester (ROC) .....	(90-170 incl) HAAYS HUO V252 GIBBE .....	1100-0300
Rockland (RKD) .....	(110-170 incl) CMK V39 SOARS V487 CAM CON .	1100-0300
Rutland (RUT) .....	(110-170 incl) CMK V39 SOARS V487 CAM .....	1100-0300
Saranac Lake (SLK) .....	(110-170 incl) BREZY V39 SOARS V487 CAM .....	1100-0300
Syracuse (SYR) .....	(90-130 incl) HAAYS HUO V252 CFB V29.....	1100-0300
	or	
	(140-170 incl) HAAYS HUO V252 CFB.....	1100-0300

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Toronto (CYYZ).....	(90–170 incl) COATE LAAYK ULW WOZEE LINNG (CANADIAN RNAV)–STAR .....	
Washington Dulles (IAD).....	(140–170 incl, jets) PARKE V457 LRP V143 MULRR AML .....	1100–0300
	or	
	(140–170 incl, props) ELIOT V39 LRP V143 MULRR AML .....	1100–0300
	or	
	(90–130 incl, props) LANNA V30 ETX V39 LRP V143 MULRR AML .....	1100–0300
Washington Natl (DCA).....	(90–170 incl, props) BIGGY V3 MXE V378 BAL .....	1100–0300
Waterville (WVL).....	(110–170 incl) CMK V39 SOARS V487 CAM CON ..	1100–0300
Wilkes–Barre/Scranton (AVP).....	(90–170 incl) COATE T218 TALLI LVZ .....	1100–0300
<b>NORFOLK METRO AREA</b>		
Baltimore (BWI).....	HPW V213 PXT V93 GRACO.....	1100–0300
Kennedy (JFK).....	(90–170 incl, 250 kts or less) SCHOL SBY200 V139 SIE V44 PANZE V184 ZIGGI .....	1100–0300
	or	
	(90–170 incl, more than 250 kts) SCHOL SBY200 V139 SIE CAMRN–STAR .....	1100–0300
La Guardia (LGA).....	(90–170, non-jet) SCHOL SBY200 SBY V29 DQO V479 RUUTH V123 RENUUE .....	1100–0300
	or	
	(90–170 incl, more than 250 kts, non-jet) SCHOL SBY200 SBY V29 V445 NANCI.....	1100–0300
Newark (EWR).....	(110–170 incl, turbojets only) HPW V213 PXT DYLIN–STAR .....	1100–0300
	or	
	(non-jets, 180 kts or greater) HPW V213 PXT PXTØ23 GATBY V445 DQO V479 RUUTH V123 RBV RBV005 OWBIE .....	1100–0300
	or	
	(50–90 incl, non-jet, less than 180 kts) SCHOL SBY V29 MXE ARD V214 METRO .....	1100–0300
Philadelphia (PHL).....	(70–170 incl) SCHOL SBY200 V139 SWL SWL034 RADD S VCN–STAR .....	1100–0300
Teterboro (TEB).....	(advanced navigation, turbojets only) HPW V213 PXT JAIKE–STAR .....	1100–0300
	or	
	(turboprop) HPW V213 PXT PXTØ23 GATBY V445 DQO DQO029 V3 SBJ TEB .....	1100–0400
	or	
	(piston) SCHOL SBY V29 MXE V3 SBJ TEB.....	1100–0400
Washington Dulles (IAD).....	(Jet only) HPW RIC COATT–STAR.....	1100–0300
	or	
	(Non-Jet) HPW RIC RIC345 COATT V155 BRV BRV007 BARIN.....	1100–0300
	or	
	(Turbojet) HPW THHMP CAVLR (RNAV)–STAR.....	
Washington Natl (DCA).....	HPW RIC IRONS–STAR.....	1100–0300
<b>PHILADELPHIA METRO AREA</b>		
Binghamton (BGM).....	(90–170 incl) PTW PTW320 CHLSE V499 CFB.....	1100–0300
Boston (BOS).....	(90–170 incl) DITCH V312 DRIFT V308 ORW V16 WOONS .....	1100–0300
Buffalo (BUF).....	(90–170 incl) PTW CHLSE DIANO V164 FQM V31 ULW V36 BUF.....	1100–0300
Cleveland (CLE).....	(60–170 incl) MXE V474 IHD V119 GALLS V214 AIR V8 BSV KEATN–STAR .....	1100–0300
Detroit Metro–Wayne Co (DTW).....	(60–170 incl) PTW PTW320 V276 RAV V170 ERI SPICA–STAR.....	1100–0300
Detroit Satellites: Young (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB).....	PTW PTW320 V276 RAV V170 ERI .....	
Elmira (ELM).....	(90–170 incl) PTW CHLSE DIANO V164 FQM V31 ULW .....	1100–0300
Kennedy (JFK).....	(110–170, turbojets only) DITCH V312 WINKK V44 CAMRN .....	1100–0300

Terminals	Route	Effective Times (UTC)
Houston (HOU).....	(Turbojets) STOLEN REEFI EMI J48 CSN FANPO Q40 AEX WAPPL-STAR.....	
Houston (IAH).....	(Turbojets) (IAH EAST FLOW) STOEN REEFI EMI J48 CSN FANPO Q40 AEX SKNRD (RNAV)-STAR..... or (Turbojets) (IAHEAST FLOW) STOEN REEFI EMI J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	
Norfolk (ORF) .....	(80–170 incl) OOD SBY V1 CCV .....	1100–0300
Richmond (RIC) .....	(80–170 incl) OOD OOD198 V229 PXT V16.....	
Syracuse (SYR) .....	(90–170 incl) PTW PTW320 CHLSE V499 CFB.....	1100–0300
Toronto (CYYZ).....	(90–170 incl) PTW CHLSE DIANO V164 FQM V31 ULW WOZEE LINNG (CANADIAN RNAV)-STAR...	
Washington Dulles (IAD) .....	(90–160 incl, turbojets only) MXE V474 V143 MULRR AML .....	
	or (max altitude 160–RNAV equipped only) MXE HYPER (RNAV)-STAR .....	
Washington Natl (DCA) .....	(Turbojets only) MXE V378 BAL .....	1100–0300
White Plains (HPN) .....	(90–170 incl, props ) DITCH V312 DRIFT V139 RICED RICED-STAR .....	1100–0300
Windsor Locks (BDL) .....	(90–170 incl) DITCH V312 DRIFT V139 MAD193 MAD MAD341 BRISS .....	
<b>PITTSBURGH METRO AREA (PIT)</b>		
Cleveland (CLE) .....	(60–170 incl) BSV KEATN-STAR .....	1100–0300
Detroit Metro–Wayne Co (DTW) .....	(60–170 incl) BSV DJB DJB314 GEMNI GEMNI-STAR.....	
Detroit Satellites: Windsor (CYQG).....	(60–170 incl) BSV V40 DJB LLEE0-STAR.....	1100–0300
<b>PROVIDENCE (PVD)</b>		
La Guardia (LGA) .....	(RNAV) (110–170) PUT NELIE IGN HARP-STAR.... or (110–170) (Less than 250 kts) PVD V146 BAF PWL V405 CASH V123 HAARP.....	1100–0300
Newark (EWR).....	(Turbojets–Advanced RNAV) (110–170 incl) PUT NELIE FLOSI-STAR.....	1100–0300
	or (Non-turbojet) (110–170 incl) PUT V146 BAF MOBBS SAGES V489 COATE.....	1100–0300
	or (Turbojets–RNAV) (110–170) PUT NELIE SHAFF-STAR .....	1100–0300
<b>ROCHESTER (ROC)</b>		
Baltimore (BWI) .....	(Props) (90–170 incl) ROC V147 ULW V31 HAR BAL	1100–0300
Kennedy (JFK) .....	(90–170 incl, props) V34 BEEPS RKA V433 PWL V44 DPK.....	1100–0300
<b>SYRACUSE (SYR)</b>		
Boston (BOS) .....	SYR V14 ALB PONCT JFUND (RNAV)-STAR .....	1100–0300
Kennedy (JFK) .....	(70–170 incl, non-jet) V433 LOVES V44 DPK .....	1100–0300
Newark (EWR).....	(110–170 incl, turbojets) V273 HNK SHAFF-STAR or (70–170 incl, all other types) V273 HNK V167 WEARD V489 COATE.....	1100–0300
<b>WASHINGTON/BALTIMORE METRO AREA</b>		
From <b>BALTIMORE (BWI)</b> only		
Albany (ALB) .....	V93 LRP V499 CFB V270 DNY .....	1100–0400
Binghamton (BGM).....	V93 LRP V499 CFB.....	1100–0300
Boston (BOS).....	(90–170 incl props) PALEO–DP SIE V308 ORW V16 WOONS .....	1100–0300
Bridgeport (BDR).....	(90–170 incl) PALEO–DP SIE V139 RICED MAD193 KEYED .....	1100–0300
Buffalo (BUF).....	V93 SHILO PSB149 KOLBY V265 HAR V31 FQM V164 .....	1100–0300
Charlottesville (CHO) .....	(below 110) V44 MRB V143 CEROL..... or (110–170, turbojets) TERPZ (RNAV)–DP TERPZ HIRCK BUTRZ CLTCH.....	1100–0300

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Chicago (ORD).....	(Turbojets) TERPZ (RNAV)-DP RAMAY Q72 HACKS J149 ROD WATSN (RNAV)-STAR.....	0000-2359
Cleveland (CLE).....	MRB V501 THS V469 JST V297 TALLS V10 YNG CXR.....	1100-0300
Detroit Metro-Wayne Co (DTW).....	(Turbo only) MRB V501 THS V469 JST EWC YNG V6 DJB GEMNI-STAR .....	
	or (Recip only) MRB V501 THS V469 JST EWC YNG V6 DJB SKY SKY292 YQG197 LYNTN .....	
Detroit Satellites:		
Ann Arbor (ARB).....	MRB V501 THS V469 JST EWC ERI .....	
Young (DET).....	MRB V501 THS V469 JST EWC YNG V6 V297 LLEEO LLEEO-STAR.....	
Greensboro (GSO).....	(70-170 incl, non-jet) V44 MRB V143 LYH V222 HENBY .....	0000-2359
Hartford (HFD).....	(90-170 incl) PALEO-DP V308 GON V58 .....	1100-0300
Islip (ISP).....	(90-170 incl) PALEO-DP SIE V139 SARDI CCC.....	1100-0300
Kennedy (JFK).....	(90-170 incl, 250 kts or greater) PALEO-DP ACY V229 PANZE V44 CAMRN .....	1100-0300
	or (90-170 incl, less than 250 kts) PALEO-DP ACY V184 ZIGGI.....	1100-0300
Knoxville (TYS).....	V44 MRB V143 MOL ROA V16 .....	1100-0300
La Guardia (LGA).....	(Turbojets only) PALEO-DP V44 AGARD KORRY-STAR .....	1100-0400
	or (Non-turbojets) SWANN-DP DQO V479 RUUTH V123 RENUUE .....	1100-0300
Nantucket (ACK).....	(90-170 incl) POLLA V312 PALEO V44 SIE V139 HTO V46 .....	1100-0300
	or (70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR V475 V188 GON V374 MCV .....	1100-0300
Newark (EWR).....	(110-170 incl, turbojets only) SWANN-DP V445 DQO DYLIN-STAR.....	1100-0300
	or (110-170 incl, non-turbojet, greater than 180 kts) SWANN-DP V445 DQO V479 RUUTH V123 RBV RBV005 OWBIE .....	1100-0300
Newburgh (SWF).....	(GPS or DME/DME or IRU equipped) V93 LVZ LAAYK PRNCE FILPS .....	1100-0300
New Haven (HVN).....	(90-170 incl) PALEO-DP SIE V139 RICED MAD193 KEYED.....	1100-0300
Norfolk (ORF).....	(PROPS) (70-170 incl) BAL V93 PXT COLIN V33 FAGED V286 STEIN.....	1100-0300
	or (PROPS) (70-170) CONLE (RNAV)-DP CONLIN V33 FAGED V286 STEIN.....	1100-0300
Philadelphia (PHL).....	(70-170 incl) SWANN-DP DQO .....	1100-0300
Poughkeepsie (POU).....	(GPS or DME/DME or IRU equipped) V93 LVZ LAAYK PRNCE FILPS .....	1100-0300
Teterboro (TEB).....	(advanced navigation, turbojets only) SWANN FUBRR JAIKE-STAR .....	1100-0300
	or (non-jets, 180 kts or greater) SWANN V445 DQO DQO029 V3 SBJ TEB .....	1100-0300
White Plains (HPN).....	(110-170 incl) PALEO-DP SIE V139 RICED-STAR . or (70) V93 LRP ETX FJC BWZ SAX V39 BREZY.....	1100-0300
Windsor (YQG).....	TERPZ (RNAV)-DP JERES V211 HAGUD J60 DJB LLEEO-STAR	
From WASHINGTON DULLES INTL (IAD) only		
Ann Arbor (ARB).....	(Turbojets) JERES (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO-STAR.....	
Bridgeport (BDR).....	(90-170 incl) WOOLY V214 BAL V44 SIE V139 RICED MAD193 KEYED.....	1100-0300
Buffalo (BUF).....	(70-170 incl, non-jet) MRB HGR V501 THS TON ELZ V164 .....	0000-2359

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# PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Greensboro (GSO).....	(70–170 incl, non-jet) CSN V140 MOL V143 LYH V222 HENBY.....	0000–2359
Islip (ISP).....	(90–170 incl) WOOLY V214 BAL V44 SIE V139 SARDI CCC.....	1100–0300
Kennedy (JFK).....	(90–170 incl, 250 Kts or greater) (Turbojets) (Part 121 and 129 only) JCOBY (RNAV)–DP AGARD DONIL V229 PANZE V44 CAMRN..... or (90–170 incl, less than 250 Kts) WOOLY V44 DONIL V229 ACY V184 ZIGGI.....	1100–0300 1100–0300
Knoxville (TYS).....	(Turbojets) BURLN (RNAV)–DP MAULS Q40 ALEAN VXX.....	1100–0300
La Guardia (LGA).....	(Turbojets only) (Part 121 and 129 only) JCOBY (RNAV)–DP AGARD KORRY–STAR..... or (90–170 incl, non turbojets) WOOLY V214 DQO V479 V123 RENUÉ.....	1100–0300 1100–0300
Newark (EWR).....	(110–170 incl, turbojets only) AML SWANN V445 DQO DYLIN–STAR..... or (110–170 incl, non-turbojet, more than 180 kts) WOOLY V214 SWANN RUUTH–STAR.....	1100–0300 1100–0300
Newburgh (SWF).....	(GPS or DME/DME or IRU equipped) MRB V501 HGR V377 AML009 SEG230 SEG V106 LVZ LAAYK PRNCE FILPS.....	1100–0300
New Haven (HVN).....	(90–170 incl) WOOLY V214 BAL V44 SIE V139 RICED MAD193 KEYED.....	1100–0300
New Orleans (MSY).....	(Turbojets) BURLN (RNAV)–DP MAULS Q40 NIOLA MEI RYTHM–STAR.....	1100–0300
Philadelphia (PHL).....	(70–170 incl) WOOLY V214 DQO.....	1100–0300
Pittsburgh (PIT).....	(Turbojets) MCRAY (RNAV)–DP MCRAY IHD DEMME (RNAV)–STAR.....	
Pontiac (PTK).....	(Turbojets) JERES (RNAV)–DP JERES J211 HAGUD J60 DJB LLEEO–STAR.....	
Raleigh–Durham (RDU).....	BULRN (RNAV)–DP SBV ALDAN (RNAV)–STAR.....	1100–0300
Rochester (ROC).....	(Turbojets) JERES (RNAV)–DP JERES J220 MICAH J227 ULW V31 GIBBE.....	1100–0300
Sarasota (SRQ).....	(Turbojets) BURLN(RNAV)–STAR GSOJ75 TAY TRAPR (RNAV)–STAR.....	1100–0300
Syracuse (SYR).....	(Turbojet) JERES (RNAV)–DP JERES J227 BABBE CFB.....	
Tampa (TPA).....	(RNAV Turbojets) BURLN (RNAV)–DP GSO J75 TAY DADES (RNAV)–STAR.....	1100–0300
Teterboro (TEB).....	(Turbojets) RIGNZ (RNAV)–DP SWANN FUBRR JAIKE (RNAV)–STAR..... or (non-jet, 180 kts or greater) WOOLY SWANN V445 DQO DQO029 MUDNE V3 SBJ TEB.....	1100–0300 1100–0300
Toledo (TOL).....	(Turbojets) (180and above) JERES (RNAV)–DP JERES J211 J64 EWC MFD VXX.....	
White Plains (HPN).....	(90–170 incl) WOOLY V44 SIE V139 RICED RICED–STAR..... or (70) MRB V501 HGR V377 HAR V162 ETX FJC BWZ SAX V39 BREZY.....	1100–0300 1100–0300
Willow Run (YIP).....	(Turbojets) JERES (RNAV)–DP JERES J211 HAGUD J60 DJB LLEEO–STAR.....	
Windsor (YQG).....	(Turbojets) JERES (RNAV)–DP JERES J211 HAGUD J60 DJB LLEEO–STAR.....	
From <b>WASHINGTON NATIONAL (DCA)</b> only		
Albany (ALB).....	KRANT V265 EMI V457 LRP V499 CFB V270 DNY.....	1100–0300
Allentown (ABE).....	KRANT V265 EMI V457 LRP V39 ETX FJC.....	1100–0300
Altoona (AOO).....	KRANT V265 V214 MRB JST AOO.....	1100–0300
Atlantic City (ACY).....	(90–170) PALEO V44 SIE..... or (70) POLLA V312 GOLDA V268 LEEAH.....	1100–0300 1100–0300
Barnes (Westfield) (BAF).....	(90–170) PALEO V44 SIE V139 RICED MAD193 MAD MAD341 BRISS.....	1100–0300



PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	or	
	(70) PALEO V312 GOLDA V268 ENO V16 JFK V229 BDR BDR014 JUDDS BAF.....	
Bedford (BED) .....	(Turbojets) PALEO V44 SIE V308 ORW GRAYM-STAR	1100-0300
	or	
	(70, Non RNAV) PALEO V312 GOLDA V268 ENO V16 JFK V229 HFD HFD053 DREEM.....	1100-0300
	or	
	(Turbojets) DOCTR (RNAV)-DP AGARD V44 SIE V308 ORW DREEM (RNAV)-STAR .....	1100-0300
	or	
	(70, RNAV only) PALEO V312 GOLDA V268 ENO V16 JFK V229 HFD DREEM (RNAV)-STAR .....	1100-0300
Binghamton (BGM) .....	KRANT V265 EMI V457 LRP V499 CFB .....	1100-0300
Boston (BOS) .....	(90-170 incl) PALEO V44 SIE V308 ORW V16 WOONS .....	1100-0300
	or	
	(70) PALEO V312 GOLDA V268 ENO V16 JFK V229 HFD V3 WOONS.....	1100-0300
Bridgeport (BDR) .....	(GPS or DME/DME or IRU equipped) KRANT V265 EMI V457 LRP V93 LVZ LAAYK WEARD WEETS PWL V44 DENNA .....	1100-0300
	or	
	(90-170) POLLA V312 PALEO V44 SIE V139 RICED MAD193 KEYED.....	1100-0300
	or	
	(70) PALEO V312 GOLDA V268 ENO V16 JFK V229 BDR .....	1100-0300
Burlington (BTV) .....	(GPS or DME/DME or IRU equipped) KRANT V265 EMI V457 LRP V93 LVZ LAAYK DNY ALB .....	1100-0300
Charleston (CRW) .....	(Turbojets) REBLL(RNAV)-DP OTTTO HVQ .....	1100-0300
	or	
	(Props) CSN WITTO HVQ .....	1100-0300
Chicago (ORD).....	(Turbojets) WYNGS (RNAV)-DP RAMAY	
Concord (CON) .....	(90-170) PALEO V44 SIE V139 HTO V308 ORW V14 GDM V39 CON .....	1100-0300
Columbus (CMH).....	(Turbojets) WYNGS (RNAV)-DP RAMAY Q72 HACKS APE.....	
Cleveland (CLE).....	(Turbojets) HORTO (RNAV)-DP JERES	
Chattanooga (CHA).....	BUTRZ (RNAV)-DP MAULS Q40 ALEAN VXV	0100-0300
Cincinnati (CVG)	(Turbojets) REBLL(RNAV)-DP OTTTO COLNS GAVNN (RNAV)-STAR.....	
Detroit (DET).....	(Turbojets) HORTO(RNAV)-DP JERES V211 HAGUD J60 DJB LLEEO-STAR.....IDK	
Dover AFB (DOV) .....	(70) PALEO V312 GOLDA V268 ENO DOV .....	
Farmingdale (FRG) .....	(Props)(90-170) PALEO V44 DONIL V229 PANZE V44 CAMRN .....	
	or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK .....	1100-0300
	or	
	(90-170, less than 250 kts) PALEO V44 DONIL V229 ACY V184 ZIGGI FRG.....	
Fort wayne (FWA).....	(Turbojets) WYNGS RAMAY Q72 HACKS J149.....	1100-0300
Greensboro (GSO) .....	(70-170 incl, non-jet) CSN V140 MOL V143 LYH V222 HENBY .....	0000-2359
Groton (GON) .....	(90-170) PALEO V44 SIE V139 HTO HTO034 MONDI .....	1100-0300
	or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR MAD MAD126 MONDI.....	
Hagerstown (HGR) .....	V265 EMI EMI325 HGR089 .....	1100-0300
Harrisburg (MDT/CXY) .....	KRANT V265 EMI V265 .....	1100-0300
Hartford (HFD) .....	(90-170) PALEO V44 SIE V139 RICED MAD V1 HFD	1100-0300
	or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK .....	
Islip (ISP).....	(90-170) PALEO V44 SIE V139 SARDI CCC.....	1100-0300
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Kennedy (JFK) .....	(70) POLLA V312 GOLDA V268 ENO V16 JFK ..... (90-170 incl, 250 kts or greater) POLLA V312 PALEO V44 DONIL V229 PANZE V44 CAMRN....	1100-0300 1100-0300
	or	
Knoxville (TYS).....	(90-170) PALEO V44 DONIL V229 V184 ZIGGI .... (Turbojets) BUTTRZ (RNAV)-DP MAULS Q40 ALEAN VXV.....	1100-0300 1100-0300
Martha's Vineyard (MVY) .....	(90-170) PALEO V44 SIE V139 HTO V46 FLAPE .. or	1100-0300 1100-0300
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR MAD V475 V188 GON V374.....	1100-0300
Milwaukee (MKE).....	(Turbojets) HORTO (RNAV)-DP BUFFR J518 DJB J134 ALPHE J70 BRAVE.....	1100-0300
Nantucket (ACK) .....	(90-170) DOCTR AGARD V44 SIE V139 HTO V46 ACK .....	1100-0300
	or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR V475 MAD V475 V188 GON V374 MVY.....	1100-0300
Nashville (BNA).....	(Turbojets) REBLL(RNAV)-DP OTTTO Q68 HVQ J6 YOCKY GROAT PASLY (RNAV)-STAR.....	1100-0300
Newark (EWR) .....	(turbojets) SWANN V445 DQO DYLIN-STAR .....	1100-0300
	or	
	(props) PALEO V170 SWANN V445 DQO V29 MXE V214 METRO .....	1100-0300
	or	
	(turboprops) PALEO V170 SWANN V445 DQO V479 RUUTH V123 RBV OWBIE.....	1100-0300
Newburgh (SWF).....	(GPS or DME/DME-IRU equipped) KRANT V265 EMI V457 LRP V93 LVZ LAAYK PRNCE FILPS.....	1100-0300
New Haven (HVN).....	(90-170) PALEO V44 SIE V139 RICED MAD193 KEYED .....	1100-0300
	or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR.....	1100-0300
New Orleans (MSY).....	(Turbojets) BUTRZ (RNAV)-DP MAULS Q40 NIOLA MEI RYTHM-STAR.....	1100-0300
Norfolk (ORF) .....	(Turbojets) DIXXE(RNAV)-DP COLIN V33 FAGED V286 STEIN .....	1100-0300
	or	
	WHINO COLIN V33 FAGED V286 STEIN.....	1100-0300
Philadelphia (PHL) .....	(110, jets) MITCH V445 DQO .....	1100-0300
	or	
	(Props) PALEO V170 DQO .....	1100-0300
	or	
	DOCTR (RNAV)-DP DOCTR DQO.....	1100-0400
Pittsburgh (PIT).....	(Turbojets) HORTO (RNAV)-DP BUFFR IHD DEMME (RNAV)-STAR.....	1100-0400
Pontiac (PTK).....	(Turbojets) HORTO (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO(RNAV)-STAR.	1100-0300
Portland (PWM) .....	(90-170) PALEO V44 SIE V139 HTO ORW GDM CON NEEDS.....	1100-0300
	or	
	(70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR MAD V1 HFD V229 GDM V106 ENE.	1100-0300
Poughkeepsie (POU) .....	(GPS or DME/DME or IRU equipped) KRANT V265 EMI V457 LRP V93 LVZ LAAYK PRNCE FILPS ....	1100-0300
Providence (PVD) .....	(90-170) PALEO V44 SIE V139 HTO JORDN MINNK or	1100-0300
	(90-170 Turbojets, turboprops) PALEO V44 SIE V139 HTO JORDAN (RNAV)-STAR .....	1100-0300
Rochester (ROC).....	(Turbojets) HORTO (RNAV)-DP JERES J220 MICAH J227 ULW V31 GIBBE.....	1100-0300
Rome (RME).....	KRANT V265 EMI V457 LRP V499 CFB UCA .....	1100-0300
Sarasota (SRQ).....	(Turbojets) HAFNER GSO J75 TAY TRAPR (RNAV)-STAR.....	1100-0300
Syracuse (SYR) .....	(Turbojets) HORTO (RNAV)-DP JERES J227 BABBE CFB .....	1100-0300

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Tampa (TPA).....	(Turbojets) HAFNR (RNAV)-DP GSO J75 TAY DADES (RNAV)-STAR.....	1100-0300
Teterboro (TEB).....	(turbojets) SOOKI(RNAV)-DP SWANN FUBRR JAIKE (RNAV)-STAR..... or (turboprop) PALEO V170 SWANN V445 DQO PROSE V3 SBJ TEB.....	1100-0400 1100-0400
White Plains (HPN).....	(70) KRANT V265 EMI LRP ETX FJC BWZ SAX V39 BREZY..... or (Turbojets)(90-170) DOCTR (RNAV)-DP AGARD V44 SIE V139 RICED RICED-STAR..... or (70, less than 180 kts) POLLA V170 ODESA MXE ARD V214 METRO V249 SAX V39 BREZY.....	1100-0300 1100-0300
Wilkes Barre/Scranton (AVP).....	KRANT V265 EMI V457 LRP V93 LVZ.....	1100-0300
Willow Run (YIP).....	(Turbojets) HORTO (RNAV)-DP JERES.....	
Windsor (YQG).....	HORTO (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO -STAR.....	
Windsor Locks (BDL).....	(210 kts or less DME/DME IRU or GPS equipped) KRANT V265 EMI V457 V93 LVZ LAAYK WEARD WEETS PWL V34 MOONI V58 JUDDS..... or (90-170) PALEO V44 SIE V139 HTO DEER PARK-STAR..... or (70) POLLA V312 GOLDA V268 ENO V16 JFK V229 BDR.....	1100-0300 1100-0300 1100-0300
<b>WINDSOR LOCKS (BDL)</b>		
Islip (ISP).....	(110-170 incl) HFD V58 GON V308 BOROS CCC...	1000-0300
NE Philadelphia (PNE).....	(110-170, non-turbojet) HFD V58 THUMB HTO V139 BRIGS CEDAR LAKE-STAR..... or (110-170, water) BOS LUCOS SEY067 SEY HTO V139 MANTA V276 ARD..... or (90-170, Turboprops only, DME/DME IRU or GPS equipped) MOBBS V408 LAAYK LVZ V613 FJC ARD..... or (90-170, Turbojets only, DME/DME IRU or GPS equipped) MOBBS SAGES LAAYK LVZ V29 ETX V30 TROXL ARD.....	1100-0300 1100-0300 1100-0300 1100-0300
Newark (EWR).....	(70-170 incl) (RNAV only, 250 kts or less) MOBBS SAGES V489 COATE..... or (110-170 incl, more than 250 kts) VEERS IGN FLOSI FLOSI (RNAV)-STAR.....	1100-0300 1100-0300
Philadelphia (PHL).....	(110-170 incl, non-turbojet) HFD V58 THUMB HTO V139 BRIGS ACY V184 OOD..... or (60-170 incl, props less than 210 kts, Props, DME/DME IRU or GPS equipped) MOBBS SAGES LAAYK LVZ V29 SLATT V6 FJC MAZIE..... or (60-170 incl, props 210 kts plus, Props, DME/DME IRU or GPS equipped) MOBBS SAGES LAAYK LVZ V29 SLATT V6 FJC MAZIE..... or (60-170, Turbojets only DME/DME IRU or GPS equipped) MOBBS SAGES LAAYK LVZ V147 MAZIE.....	1100-0300 1100-0300 1100-0300 1100-0300
Trenton (TTN).....	(110-170, water) HFD V58 THUMB HTO V139 MANTA V276 ARD..... or (90-170, Turboprops only, DME/DME IRU or GPS equipped) MOBBS SAGES LAAYK LVS V613 FJC ARD..... or	1100-0300 1100-0300

## PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(90–170, Turbojets only, DME/DME IRU or GPS equipped) MOBBS SAGES LAAYK LVS V29 ETX V30 TROXL ARD .....	1100–0300
Wilmington (ILG) .....	(110–170, non–turbojet) HFD V58 THUMB HTO V139 BRIGS ACY V184 OOD .....	1100–0300
	or	
	(110–170, non–turbojet) HFD V58 THUMB HTO V139 BRIGS CEDAR LAKE–STAR .....	1100–0300

## SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Low Altitude IFR bi–directional routes for traffic overflying New York Metro Area:		
East of New York Metro Area—V139 .....		1100–0300
West of New York Metro Area—V93 .....		1100–0300
Low Altitude IFR bi–directional routes for traffic overflying Washington Metro Area:		
.....	HAR V377 MOL .....	1100–0300
.....	HAR V377 V38 GVE .....	1100–0300
.....	LRP V93 PXT .....	1100–0300
Low Altitude IFR single direction route:		
Southbound .....	MXE V474 V377 HGR .....	1100–0300
Low Altitude IFR traffic overflying Washington Metro Area from over ENO landing Charlottesville, VA or Shenandoah, VA:		
.....	ENO V213 GVE098 GVE thence direct CHO or SHD	1200–0200

PREFERRED IFR ROUTES

HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ALBANY (ALB)</b>		
Chicago O'Hare (ORD) .....	(DME/DME-IRU or GNSS Required) PAYGE Q822 FNT WYNDE (RNAV)-STAR .....	1100-0300
Cincinnati (CVG) .....	(DME/DME-IRU or GNSS Required) PAYGE Q822 GONZZ JOSSY MAULL KODIE CTW TIGRR (RNAV)-STAR .....	1100-0300
Detroit Metro Wayne Co (DTW).....	(DME/DME-IRU or GNSS Required) PAYGE Q822 GONZZ BUF SPICA-STAR .....	1100-0300
Washington Dulles (IAD) .....	(Turbojets) ALB HYPER (RNAV)-STAR .....	
	or (Turboprops) (AOB 220) ALB V14 CEDOR HNK FQM LEGGO (RNAV)-STAR .....	1100-0300
<b>ALLETOWN (ABE)</b>		
Cincinnati (CVG) .....	(RNAV only) ETX SEG PSB KODIE CTW TIGRR (RNAV)-STAR .....	
Detroit Metro-Wayne Co (DTW) .....	ETX J80 J518 DJB GEMNI-STAR .....	
<b>ATLANTIC CITY (ACY)</b>		
Detroit Metro-Wayne Co (DTW).....	V229 LEEAH V268 ENO V29 DQO PENSY J110 LEJOY J518 DJB GEMNI-STAR .....	
<b>BALTIMORE (BWI)</b> —See Washington/Baltimore Metro		
<b>BANGOR (BGR)</b>		
Cincinnati (CVG) .....	(DME/DME-IRU or GNSS Required) GONZZ JOSSY MAULL KODIE CTW TIGRR (RNAV)-STAR .....	1100-0300
Detroit Metro Co (DTW) .....	(DME/DME-IRU or GNSS Required) GONZZ BUF SPICA-STAR .....	1100-0300
<b>BINGHAMTON (BGM)</b>		
Cincinnati (CVG) .....	(RNAV only) CFB FQM PSB MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
<b>BOSTON (BOS)</b>		
Atlanta (ATL) .....	(Turbojets Only—DME/DME IRU or GPS required) BLZZR (RNAV)—DP BLZZR BAF Q448 PTW J48 FLASK WINNING (RNAV)-STAR .....	1100-0300
Baltimore (BWI).....	(Turbojets only) PATSS (RNAV)—DP PATSS NELIE CMK J75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	1100-0300
Boca Raton (BCT) .....	(Turbojets Only—DME/DME IRU or GPS required) SSOXS (RNAV)—DP SSOXS BUZRD SEY HTO J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	1100-0300
	or (Water) (Turbojets Only—DME/DME IRU or GPS required) SSOXS (RNAV)—DP SSOXS BUZRD SEY HTO J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .....	1100-0300
Charlotte (CLT) .....	PATSS (RNAV)—DP PATSS NELIE CMK J75 GVE LYH CHSLY (RNAV)-STAR .....	1100-0300
Chicago Midway (MDW) .....	(Turbojets Only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND CAM Q822 GONZZ Q29 JHW DJB J60C ASHEN BAGEL PANGG (RNAV)-STAR .....	1100-0300
Chicago O'Hare (ORD) .....	(Turbojets Only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND CAM Q822 FNT WYNDE (RNAV)-STAR .....	1100-0300
Cincinnati (CVG) .....	(Turbojets Only—DME/DME IRU or GPS required) REVSS (RNAV)—DP REVSS CTR HNK J49 PSB MAULL KODIE CTW TIGRR (RNAV)-STAR .....	1100-0300
Cleveland (CLE) .....	(Turbojets Only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND CAM Q822 GONZZ JOSSY HAGAR CXR CHARDON-STAR .....	1100-0300
Dallas-Ft. Worth (DFW) .....	(RNAV Turbojets) (DFW South Flow) BLZZR (RNAV)—DP BLZZR BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR .....	
	or (RNAV Turbojets) (DFW North Flow) BLZZR (RNAV)—DP BLZZR BAF Q406 BWZ J6 LIT FEWWWW BRDJE (RNAV)-STAR .....	
	or (All others) BLZZR (RNAV)—DP BLZZR BAF Q406 BWZ J6 LIT WILBR-STAR .....	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Dayton (DAY) .....	(Turbojets Only–DME/DME IRU or GPS required) BLZZR (RNAV)–DP BLZZR BAF Q480 AIR APE DANEI–STAR .....	1100–0300
Denver (DEN) .....	(Turbojets Only–DME/DME IRU or GPS required) HYLND (RNAV)–DP HYLND HANAA Q816 HOCKE FNT J94 ONL ANCHR (RNAV)–STAR .....	1100–0300
Detroit Metro–Wayne Co. (DTW) .....	(Turbojets Only–DME/DME IRU or GPS required) HYLND (RNAV)–DP HYLND CAM Q822 GONZZ BUF SPICA–STAR .....	1100–0300
Detroit Satellites:		1100–0300
Ann Arbor (ARB), Young (DET), Windsor (CYQG), Willow Run (YIP) .....	(Turbojets Only–DME/DME IRU or GNSS required) HYLND (RNAV)–DP HYLND CAM Q822 GONZZ COLTS BOREK LOPVO AXSIS GOHMA (RNAV)–STAR .....	1100–0300
Pontiac (PTK) .....	(Turbojets Only–DME/DME IRU or GNSS required) HYLND (RNAV)–DP HYLND CAM Q822 GONZZ COLTS BOREK LOPVO AXSIS SWWAN (RNAV)–STAR .....	1100–0300
Fort Lauderdale (FLL) .....	(Turbojets Only–DME/DME IRU or GPS required) SSOXS (RNAV)–DP SSOXS BUZRD SEY HTO J174 SWL ORF ISO J121 CHS J79 OMN FISEL (RNAV)–STAR .....	
	or	
	(Water–Turbojets only–DME/DME IRU or GPS required) SSOXS (RNAV)–DP SSOXS BUZRD SEY HTO J174 SWL KEMPR ILM AR21 CRANS FISEL (RNAV)–STAR .....	
Fort Myers (FMY, RSW) .....	(Water–Turbojets only–DME/DME IRU or GPS required) SSOXS (RNAV)–DP SSOXS BUZRD SEY HTO J174 SWL KEMPR ILM AR15 HIBAC SHFTY (RNAV)–STAR .....	1100–0300
Greensboro (GSO) .....	(Turbojets only–DME/DME IRU or GPS required) PATSS (RNAV)–DP PATSS NELIE CMK J75C GVE LYH HENBY–STAR .....	0000–2359
Houston George Bush Intcntl (IAH) .....	(Turbojets–DME/DME IRU or GPS) (IAH East Flow) BLZZR (RNAV)–DP BLZZR BAF Q448 PTW J48 CSN FANPO Q40 AEX SKNRD (RNAV)–STAR .....	1100–0300
	or	
	(Turbojets) (IAH West Flow) BLZZR (RNAV)–DP BLZZR BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)–STAR .....	1100–0300
Houston Hobby (HOU) .....	(Turbojets) BLZZR (RNAV)–DP BLZZR BAF Q448 PTW J48 CSN FANPO Q40 AEX WAPPL(RNAV)–STAR .....	1100–0300
Indianapolis (IND) .....	BLZZR (RNAV)–DP BLZZR BAF Q480 AIR RINTE SNKPT (RNAV)–STAR .....	1100–0300
Islip (ISP) .....	(Turbojets only–DME/DME IRU or GPS required) SSOXS (RNAV)–DP SSOXS BUZRD SEY V268 HTO V46 CCC .....	1100–0300
Jacksonville (JAX) .....	(Turbojets only–DME/DME IRU or GPS required) SSOXS (RNAV)–DP SSOXS BUZRD SEY HTO J174C ORF J121C CHS ESENT LUNNI (RNAV)–STAR .....	1100–0300
Kennedy (JFK) .....	(Turbojets only–DME/DME IRU or GPS required) SSOXS (RNAV)–DP SSOXS BUZRD SEY PARCH (RNAV)–STAR .....	1100–0300
La Guardia (LGA) .....	(Turbojets only–DME/DME IRU or GPS required) (FL180–FL220) PATSS (RNAV)–DP PATSS NELIE VALRE HAARP–STAR .....	1100–0300
Las Vegas (LAS) .....	(Turbojets only–DME/DME IRU or GPS required) HYLND (RNAV)–DP HYLND CAM Q822 GONZZ Q29 KLYNE FYLLS J110 RSK J64 PGS TYSSN (RNAV)–STAR .....	1100–0300
Los Angeles (LAX) .....	(Turbojets only–DME/DME IRU or GPS required) HYLND (RNAV)–DP HYLND HANAA Q816 HOCKE GRB ODI FSD J114 DVV J60 HEC RIIVR–STAR ..	1100–0300
Memphis (MEM) .....	(Turbojets only–DME/DME IRU or GPS required) BLZZR (RNAV)–DP BLZZR BAF Q406 BWZ J6 BWG BLUZZ (RNAV)–STAR .....	1100–0300

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Miami (MIA).....	(Turbojets only—DME/DME IRU or GPS required) SSOX (RNAV)—DP SSOXS BUZRD SEY HTO J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)—STAR.....	1100-0300
	or	
	(Water—Turbojets only—DME/DME IUR or GPS required) SSOX (RNAV)—DP SSOXS BUZRD SEY HTO J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)—STAR.....	1100-0300
Milwaukee (MKE).....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND HANAA Q816 HOCKE MKG V2 SUDDS.....	1100-0300
Minneapolis/St Paul (MSP).....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND HANAA Q816 KELTI Q812 ZOHAN GRB EAU CLAIRE—STAR.....	1100-0300
Montreal (CYUL).....	HYLND (RNAV)—DP HYLND LATTS CARTER (RNAV)—STAR.....	1100-0300
Nashville (BNA).....	(Turbojets only—DME/DME IRU or GPS required) BLZZR (RNAV)—DP BLZZR BAF Q406 BWZ J6 YOCKY DREFT PASLY (RNAV)—STAR.....	1100-0300
Newark (EWR).....	(Turbojets only—DME/DME IRU or GPS required) (FL180—FL220) PATSS (RNAV)—DP PATSS NELIE FLOSI—STAR.....	1100-0300
New Orleans (MSY).....	(Turbojets) BLZZR (RNAV)—DP BLZZR BAF Q448 PTW J48 CSN FANPO Q40 NIOLA MEI RYTHM—STAR.....	1100-0300
Orlando Exec (ORL).....	(Turbojets only—DME/DME IRU or GPS required) SSOX (RNAV)—DP SSOXS BUZRD SEY HTO J174 ORF J121 CHS J79 OMN CORLL—STAR.....	1100-0400
	or	
	(Water—Turbojets only—DME/DME IRU or GPS required) SSOX (RNAV)—DP SEY HTO J174 SWL KEMPR ILM AR15 HIBAC CWRLD (RNAV)—STAR.....	1100-0400
Orlando Intl (MCO).....	(Turbojets only—DME/DME IRU or GPS required) SSOX (RNAV)—DP SSOXS BUZRD SEY HTO J174 ORF J121 CHS J79 OMN CWRLD—STAR.....	1100-0400
	or	
	(Water—Turbojets only—DME/DME IRU or GPS required) SSOX (RNAV)—DP SEY HTO J174 SWL KEMPR ILM AR15 HIBAC CWRLD (RNAV)—STAR.....	1100-0400
Ottawa (CYOW).....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND BUGSY DEANS (RNAV)—STAR.....	1100-0300
Philadelphia (PHL).....	(Turbojets only—DME/DME IRU or GPS required) SSOX (RNAV)—DP SSOXS BUZRD SEY J121 BRIGS JIIMS (RNAV)—STAR.....	1100-0300
Phoenix (PHX).....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND CAM Q822 GONZZ Q29 KLYNE ROD VHP J110 BUM J19 ZUN EAGUL (RNAV)—STAR.....	1100-0300
Pittsburgh (PIT).....	(Turbojets only—DME/DME IRU or GPS required) REVSS (RNAV)—DP REVSS CTR HNK KONJE J190 SLT HAYNZ—STAR.....	1100-0300
Portland (PDX).....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND HANAA Q816 HOCKE GRB GEP DPR J16 PDT JKNXO HHOOD (RNAV)—STAR.....	1100-0300
Raleigh—Durham (RDU).....	(Turbojets only—DME/DME IRU or GPS required) SSOX (RNAV)—DP SSOXS BUZRD SEY HTO J174 SWL KAROO (RNAV)—STAR.....	1000-0300
Salt Lake City (SLC).....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND HANAA Q816 HOCKE BAE DBQ J94 OCS NORDK (RNAV)—STAR.....	1100-0300
San Diego (SAN).....	(Turbojets only—DME/DME IRU or GPS required) BLZZR (RNAV)—DP BLZZR BAF Q480 AIR J80 MCI J24 SLN J18 IPL LYNDI (RNAV)—STAR.....	1100-0300
San Francisco (SFO).....	(Turbojets) HYLND (RNAV)—DP HYLND HANAA Q816 HOCKE GRB GEP ABR J32 LLC LEGGS BDEGA (RNAV)—STAR.....	

Terminals	Route	Effective Times (UTC)
St Louis (STL) .....	(Turbojets only—DME/DME IRU or GPS required) BLZZR (RNAV)—DP HYLND BLZZR BAF Q480 AIR J110 VHP AARCH (RNAV)—STAR .....	1100-0300
Seattle (SEA) .....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND HANAA Q816 HOCKE GRB GEP ABR J90 HLN J136 MLP GLASR—STAR .....	1100-0300
Tampa (TPA) .....	(Turbojets only—DME/DME IRU or GPS required) PATSS (RNAV)—DP PATSS NELIE CMK J75 TAY DADES (RNAV)—STAR .....	1100-0300
Toronto (CYYZ) .....	(Turbojets only—DME/DME IRU or GPS required) HYLND (RNAV)—DP HYLND CAM Q822 GONZZ WOZEE LINNG (CANADIAN RNAV)—STAR .....	1100-0300
Washington Dulles (IAD) .....	(Turbojets only—DME/DME IRU or GPS required) (AOA FL240) BLZZR (RNAV)—DP BLZZR BAF HYPER—STAR .....	1100-0300
	or (Turboprops) (AOB 220) BLZZR BAF SAGES LAAYK MIP SEG LEGGO (RNAV)—STAR .....	1100-0300
Washington Natl (DCA) .....	(Turbojets) SSOXS (RNAV)—DP SSOXS BUZRD SEY HTO J174 ZIZI ATR LAFLN DEALE (RNAV)—STAR .....	1100-0300
West Palm Beach (PBI) .....	(Turbojets only—DME/DME IRU or GPS required) SSOXS (RNAV)—DP SSOXS BUZRD SEY HTO J174 ORF J121 CHS J79 OMN FRWAY (RNAV)—STAR .....	1100-0300
	or (Water—Turbojets only—DME/DME IRU or GPS required) SSOXS (RNAV)—DP SSOXS BUZRD SEY HTO J174 SWL CEBEE WETRO DIW AR19 AYBID FRWAY (RNAV)—STAR .....	1100-0300
Westchester (HPN) .....	(Turbojets only—DME/DME IRU or GPS required) PATSS (RNAV)—DP PATSS NELIE VALRE VALRE—STAR .....	1100-0300
<b>BRIDGEPORT (BDR)</b>		
Augusta (AUG) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG	1100-0300
Baltimore (BWI) .....	(Turbojets) BEADS EMJAY J174 ZIZI ATR LAFLN MIIDY (RNAV) .....	
	—STAR .....	
Binghamton (BGM) .....	(Turbojets) NEION J223 CORDS CFB .....	
Boca Raton (BCT) .....	(Turbojets) BEADS GEDIC J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)—STAR .....	
	or (Turbojets) BEADS GEDIC J174 ORF ISO J121 CHS J79 OMN TUXXI—STAR .....	
	or (Turbojets—Water) BEADS GEDIC J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)—STAR .....	
Buffalo (BUF) .....	(Turbojets) NEION J223 CORDS ULW ULW306 BENEE .....	
	or (Turboprops) GAYEL J95 CFB V270 ULW ULW306 BENEE .....	
Chicago O'Hare (ORD) .....	(Turbojets—RNAV 1) COATE Q436 EMMMA WYNDE (RNAV)—STAR .....	1100-0300
Coleman A Young (DET) .....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXSIS GOHMA—STAR .....	
Dallas-Fort Worth (DFW) .....	(RNAV Turbojets) (DFW South Flow) BEADS V139 SARDI RBV J230 J6 LIT FEWWWW SEEVR (RNAV)—STAR .....	
	or (RNAV Turbojets) (DFW North Flow) BEADS V139 SARDI RBV J230 J6 LIT FEWWWW BRDJE (RNAV)—STAR .....	
	or (All others) BEADS V139 SARDI RBV J230 J6 LIT WILBR—STAR .....	
Detroit Metro Wayne Co (DTW) .....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO SPICA—STAR .....	1100-0300
Detroit Satellites:		



## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Ann Arbor (ARB).....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO.....	
Windsor (CYQG) .....	GAYEL J95 CFB CFB286 TRAAD J132 ULW306 KOOPR YQO .....	
Fort Lauderdale (FLL) .....	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN GISSH-STAR .....	
	or	
	(Turboprops) BEADS CCC148 J174 ORF J121 CHS J79 OMN MLB BLUFI-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS HILL FATHR GISSH-STAR .....	
Ithaca (ITH).....	(Turbojets) NEION J223 CORDS CFB V423.....	
Manchester (MHT) .....	(DME/DME/IRU or GNSS REQUIRED) (at or above FL190) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR .....	1100-0300
Miami (MIA, TMB, HST) .....	(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or	
	(Turboprops) BEADS CCC148 J174 ORF J121 CHS J79 OMN ANNEY-STAR .....	
	or	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSI MILSY BOYUR HILEY KAINS .....	
Montreal (CYUL) .....	(DME/DME-IRU or GNSS Required) GREKI JUDDS CAM LATTS CARTER (CANADIAN RNAV)-STAR ..	1100-0300
Nashua (ASH) .....	(110-150 incl) MAD V1 HFD V229 GDM V106 MHT	1100-0300
Orlando Executive (ORL) .....	BEADS CCC148 J174 ORF J121 CHS J79 OMN CORLL-STAR.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO).....	BEADS CCC148 J174 ORF J121 CHS J79 OMN BITHO-STAR .....	1100-0300
	or	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC APOLO ORL.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Pittsburgh (PIT) .....	(Turbojets-RNAV 1) COATE Q436 REBBL J190 SLT HAYNE (RNAV)-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
Pontiac (PTK) .....	(Turboprops) GAYEL V374 MSLIN LAAYK Q436 DGRAE ETG V226 CIP HAYNZ (RNAV)-STAR.....	
Raleigh/Durham (RDU) .....	(Turbojet, Turbo prop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXXIS GOHMA-STAR .....	
	BEADS CCC148 J174 SWL ARGAL-STAR .....	
	or	
	(RNAV equipped) BEADS EMJAY J174 SWL KAROO (RNAV)-STAR .....	
Richmond (RIC) .....	BEADS CCC148 J174 SWL V139 ARICE JAMIE ....	1100-0200
Rochester (ROC) .....	(Turbojets) NEION J223 CORDS ULW V31 GIBBE...	
Syracuse (SYR) .....	(Turbojets) NEION J223 CORDS CFB V29 .....	
Tampa (TPA) .....	BEADS V139 SARDI RBV J230 J75 TAY LZARD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) BEADS V139 SARDI RBV J230 J75 TAY DADES (RNAV)-STAR	
Washington Dulles (IAD) .....	(RNAV only) VEERS PWL GANDE DBABE HYPER (RNAV)-STAR .....	
	or	
	(Turboprops Only) (AOB 220) MOBBS SAGES LAAYK MIP SEG LEGGO GRAVZ (RNAV)-STAR .....	
Washington Natl (DCA) .....	BEADS EMJAY J174 ZIZZI ATR V308 BILIT CAPKO or	
	(Turbojets) BEADS EMJAY J174 ZIZZI ATR LAFLN DEALE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR .....	
	or	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	
Willow Run (YIP) .....	(Turbojet, Turbo prop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXXIS GOHMA-STAR.....	
<b>BUFFALO (BUF)</b>		
Cincinnati (CVG) .....	BUF JHW KODIE CTW CINCE-STAR.....	
	or	
	(RNAV Only) BUF JHW KODIE TIGRR (RNAV)-STAR (RNAV Only) COLTS BOREK LOPVO AXXIS GOHAM (RNAV)-STAR .....	1100-0300
Detroit Satellites: Young (DET), Ann Arbor (ARB) .....	V33 J70 LVZ LENDY-STAR .....	
Kennedy (JFK) .....	(Above 250 KTS) V14 GEE RKA HAARP-STAR.....	1100-0300
La Guardia (LGA) .....	or	
	(Turbojet) AUDIL RKA NOBBI-STAR .....	1100-0300
Newark (EWR) .....	(DME/DME-IRU or GNSS Required) V14 BEEPS Q140 KODEY HNK FLOSI (RNAV)-STAR.....	1100-0300
Philadelphia (PHL) .....	V33 BFD PSB HAR V210 BUNTS .....	
<b>BURLINGTON (BTV)</b>		
Chicago O'Hare (ORD) .....	(DME/DME-IRU or GNSS Required) ALVID DEDKI HOCKE FNT WYNDE (RNAV)-STAR .....	1100-0300
Cincinnati (CVG) .....	(Turbojets only-DME/DME-IRU or GNSS Required) GONZZ JOSSY MAULL KODIE CTW TIGRR-STAR	1100-0300
Detroit Metro Wayne Co (DTW) .....	(Turbojets only-DME/DME-IRU or GNSS Required) GONZZ BUF SPICA-STAR .....	1100-0300
La Guardia (LGA) .....	ALB HAARP-STAR .....	1100-0300
Newark (EWR) .....	(RNAV only) ALB FLOSI (RNAV)-STAR .....	1100-0300
Philadelphia (PHL) .....	(Turbojets only) ALB DNY SLATT-STAR .....	
Pittsburgh (PIT) .....	ALB HNK KONJE SLT HAYNZ (RNAV)-STAR.....	1100-0300
Washington Dulles (IAD) .....	(RNAV only) ALB HYPER (RNAV)-STAR .....	1100-0300
	or	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	(Turboprops) (AOB 220) ALB HNK FQM LEGGO (RNAV)-STAR.....	1100-0300
<b>CALDWELL (CDW)</b>		
Auburn/Lewiston (LEW) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100-0300
Augusta (AUG).....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100-0300
	or	
Bangor (BGR) .....	(FL250 and above) MERIT HFD PUT BOS MESH..... (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300 1100-0300
	or	
Bar Harbor (BHB) .....	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300
Barre/Montpelier (MPV) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Burlington (BTV) .....	(Jets only) (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM.....	1100-0300
Concord (CON) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Keene (EEN) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Laconia (LCI) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
Lake Placid (LKP) .....	(Jets only) (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM.....	1100-0300
Lebanon (LEB) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Manchester (MHT) .....	(at or above FL190) BREZY V39 CMK GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR .....	1100-0300
	or	
Montreal (CYUL) .....	(Props only) (FL190 and above) GREKI JUDDS MARTN EEN POPPP-STAR .....	1100-0300
Nantucket (ACK) .....	(DME/DME-IRU or GNSS Required) (at or above FL190) BREZY V39 CMK GREKI JUDDS CAM LATTI CARTER (RNAV)-STAR.....	1100-0300
Nashua (ASH) .....	(Jets only) (FL180-FL230 only) BREZY V39 CMK BAYYS SEALL V188 GON DEEPO (RNAV)-STAR ..	1100-0300
Portland (PWM) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM EEN MHT.....	1100-0300
Portsmouth (PSM) .....	(FL180 and above) BREZY V39 CMK GREKI JUDDS CAM CDOGG (RNAV)-STAR .....	1100-0300
Rockland (RKD).....	(FL190-FL230) GREKI JUDDS CAM CON .....	1100-0300
	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100-0300
	or	
Rutland (RUT) .....	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300
Waterville (WVL).....	(FL190 and above) GREKI V419 JUDDS CAM..... (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300 1100-0300
	or	
	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300
<b>CHARLOTTESVILLE (CHO)</b>		
Cincinnati (CVG) .....	HNN090/50 GAVNN .....	
	or	
	(RNAV only-at or below FL220) HNN GAVNN (RNAV)-STAR .....	
	or	
	(all others-at or above FL240) HNN090/50 HNN JAVIT-STAR .....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(all others—at or below FL220) HNN JAVIT-STAR ....	
<b>HARRISBURG (MDT)</b>		
Chicago (ORD) .....	(advanced RNAV) HAR V33 MCMAN Q62 WATSN WATSN (RNAV)-STAR .....	
Cincinnati (CVG) .....	MRB J6 COLNS BRUSH-STAR .....	
	or	
	(RNAV only) MRB J6 COLNS GAVNN (RNAV)-STAR	
<b>ITHACA (ITH)</b>		
Detroit Satellites:		
Young (DET), Windsor (CYQG), Ann Arbor (ARB), Willow Run (YIP) .....	(RNAV Only) COLTS BOREK LOPVO AXXIS GOHMA (RNAV)-STAR .....	
Pontiac (PTK) .....	(RNAV Only) COLTS BOREK LOPVO AXXIS SWWAN (RNAV)-STAR .....	
<b>LONG ISLAND (Mac Arthur) (ISP)</b>		
Augusta (AUG) .....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG BEADS EMJAY J174 ZIZZI ATR V308 LAFLN MIIDY (RNAV)-STAR	1100-0300
Baltimore (BWI) .....	(Turbojets) NEION J223 CORDS CFB .....	
Binghamton (BGM).....	(Turbojets) BEADS EMJAY J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
Boca Raton (BCT) .....	or	
	(Turbojets) BEADS EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .....	
Buffalo (BUF).....	(Turbojets) NEION J223 CORDS ULW ULW306 BENEEN .....	
Chicago O'Hare (ORD) .....	(Turbojets-RNAV 1) COATE Q436 EMMMA WYNDE (RNAV)-STAR .....	
Cincinnati (CVG) .....	(RNAV only) BEADS V139 SARDI RBV J230 SAAME J6 COLNS GAVNN (RNAV)-STAR.....	
	or	
	(all others) BEADS V139 SARDI RBV J230 SAAME J6 COLNS BRUSH-STAR.....	
Dallas-Fort Worth (DFW).....	(RNAV Turbojets) (DFW South Flow) RBV J230 J6 LIT FEWWWW SEEV (RNAV)-STAR.....	
	or	
	(RNAV Turbojets) (DFW North Flow) RBV J230 J6 LIT FEWWWW BRDJE (RNAV)-STAR.....	
	or	
	(All others) RBV J230 J6 LIT WILBR-STAR .....	
Fort Lauderdale (FLL) .....	(Turbojets) BEADS EMJAY J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR .....	
	or	
	BEADS ENJAY J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR.....	
Fort Myers (RSW) .....	(Turbojets) BEADS EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	
Ithaca (ITH) .....	(Turbojets) NEION J223 CORDS CFB V423 .....	
Manchester (MHT).....	(DME/DME/IRU or GNSS REQUIRED) (at or above FL190) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR .....	1100-0300
Miami (MIA) .....	(Turbojets) BEADS EMJAY J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR.....	
	or	
	(Turbojets) BEADS EMJAY J174 ORF J121 CHS J79 OMN ANNEY-STAR.....	
	or	
	(Turbojets) BEADS EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR .....	
Montreal (CYUL) .....	(DME/DME-IRU or GNSS Required) GREKI JUDDS CAM LATTIS CARTER (CANADIAN RNAV)-STAR ..	
Nashua (ASH).....	(110-150 incl) HTO V308 ORW V14 GDM V106 MHT .....	1100-0300
Orlando Intl (MCO) .....	BEADS EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
Pittsburgh (PIT) .....	BEADS EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	
	(Turbojets-RNAV 1) COATE Q436 REBBL J190 SLT HAYNZ (RNAV)-STAR .....	
	or (Props) GAYEL V374 MSLIN LAAYK Q436 DGRAF ETG V226 CIP HAYNZ (RNAV)-STAR .....	
Richmond (RIC) .....	BEADS EMJAY J174 SWL V139 ARICE JAMIE .....	
Rochester (ROC) .....	(Turbojets) NEION J223 CORDS ULW V31 GIBBE ...	
Syracuse (SYR) .....	(Turbojets) NEION J223 CORDS CFB V29 .....	
Tampa TPA .....	BEADS V139 SARDI RBV J230 J75 TAY LZARD-STAR .....	
Washington Dulles (IAD) .....	BEADS V139 SARDI RBV HYPER (RNAV)-STAR .....	
Washington Natl (DCA) .....	(Turbojet) BEADS EMJAY J174 ZIZZI ATR LAFLN DEALE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(Turbojets) BEADS EMJAY J174 ORF ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR .....	
	or (Turbojets) BEADS EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR .....	
<b>MANCHESTER (MHT)</b>		
Atlanta (ATL) .....	(RNAV only) PPORT (RNAV)-DP SHOEL COTEE BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR .....	
Baltimore (BWI) .....	(Turbojets only) PPORT (RNAV)-DP SHOEL JJIMY NELIE CMK J75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	
	or (Turbojets only) PPORT (RNAV)-DP NELIE CMK J75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	1100-0300
Chicago Midway (MDW) .....	(DME/DME-IRU or GNSS Required) CAM Q822 GONZZ Q29 JHW DJB J60 ASHEN BAGEL PANGG (RNAV)-STAR .....	1100-0300
Chicago O'Hare (ORD) .....	(Turbojets Only) (DME/DME-IRU or GNSS Required) CAM Q822 FNT WYNDE (RNAV)-STAR .....	1100-0300
Cincinnati (CVG) .....	(Turbojets only) (DME/DME-IRU or GNSS Required) CAM Q822 GONZZ JOSSY MAULL KODIE CTW TIGRR (RNAV)-STAR .....	1100-0300
Denver Intl (DEN) .....	(Turbojets only) (DME/DME-IRU or GNSS Required) HANAA Q816 HOCKE F94 ONL ANCHR (RNAV)-STAR .....	1100-0300
Detroit Metro Wayne Co (DTW) .....	(Turbojets only: DME/DME/IRU or GNSS Required) CAM Q822 GONZZ BUF SPICA-STAR .....	1100-0300
Detroit Satellites:		
Young (DET), Windsor (CYQG), Willow Run (YIP), Ann Arbor (ARB) .....	(DME/DME-IRU or GNSS Required) CAM Q822 GONZZ COLTS BOREK LOPVO AXXIS GOHMA-STAR .....	1100-0300
Pontiac (PTK) .....	(DME/DME-IRU or GNSS Required) CAM Q822 GONZZ COLTS BOREK LOPVO AXXIS SWANN-STAR .....	1100-0300
	or SYR J547 YXU SWWAN-STAR .....	1100-0300
Orlando (MCO) .....	(Advanced RNAV only) COTEE (RNAV)-DP PPORT NELIE CMK J75 CAE J75 DUNKN AMG BUGGZ-STAR .....	1100-0300
	or (RNAV only) PPORT (RNAV)-DP SGIEK JJIMY NELIE CMK J75 CAE J75 DUNKN AMG BUGGZ-STAR ...	1100-0300
Tampa (TPA) .....	(Advanced RNAV only) PPORT (RNAV)-DP NELIE CMK J75 TAY DADES (RNAV)-STAR .....	1100-0300
	or (RNAV only) PPORT SHOEL JJIMY NELIE CMK J75 TAY DADES (RNAV)-STAR .....	1100-0300
Wash Dulles (IAD) .....	(Advanced RNAV only) PPORT (RNAV)-DP BAF HYPER (RNAV)-STAR .....	
	or (Turboprops) (AOB 220) CAM ALB HNK FQM LEGGO (RNAV)-STAR .....	1100-0300

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Wash Natl (DCA) .....	(Advanced RNAV only) PORT NELIE CMK J75 MXE V378 BAL .....	1100-0300
	or	
	(RNAV only) PPORT SHOEL JJIMY NELIE CMK J75 MXE V378 BAL .....	1100-0300
<b>MONTREAL (CYUL)</b>		
Kennedy (JFK) .....	(DME/DME-IRU or GNSS Required) BUGSY J570 ALB IGN KINGSTON-STAR .....	1100-0300
La Guardia (LGA) .....	BUGSY ALB HAARP-STAR .....	1100-0300
<b>MORRISTOWN (MMU)</b>		
Auburn/Lewiston (LEW) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100-0300
Augusta (AUG) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100-0300
	or	
Bangor (BGR) .....	(FL250 and above) MERIT HFD PUT BOS MESH .. (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
	or	
Bar Harbor (BHB) .....	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300
	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
	or	
Barre/Montpelier (MPV) .....	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300
	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Burlington (BTV) .....	(Jets only) (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Concord (CON) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Keene (EEN) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Laconia (LCI) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Lake Placid (LKP) .....	(Jets only) (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Lebanon (LEB) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Manchester (MHT) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR .....	1100-0300
	or	
	(Props only) (FL190 and above) GREKI JUDDS MARTN EEN POPPP-STAR .....	1100-0300
Marco Isle (MKY) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	
Montreal (CYUL) .....	(DME/DME-IRU or GNSS Required) (at or above FL190) BREZY V39 CMK GREKI JUDDS CAM LATTI CARTER (RNAV)-STAR .....	
Nantucket (ACK) .....	(Jets only) (FL180-FL230 only) BREZY V39 CMK BAYYS SEALL V188 GON DEEPO (RNAV)-STAR ..	1100-0300
Naples (APF) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	
Nashua (ASH) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM EEN MHT .....	1100-0300
Portland (PWM) .....	(FL180 and above) BREZY V39 CMK GREKI JUDDS CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM) .....	(FL190-FL230) GREKI JUDDS CAM CON .....	1100-0300
Rockland (RKD) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100-0300
	or	
	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300
Rutland (RUT) .....	(FL190 and above) GREKI V419 JUDDS CAM .....	1100-0300

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Waterville (WVL).....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
	or	
	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300
<b>NEWBURGH (SWF)</b>		
Cincinnati (CVG).....	(RNAV 1) WEARD LAAYQ Q436 DGRAF J49 PSB MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
Manchester (MHT) .....	(Jets only) (FL190 and above) STUBY MUCOW ROZZE (RNAV)-STAR .....	1100-0300
<b>NEW HAVEN (HVN)</b>		
Augusta (AUG).....	(110-170 incl) HTO V308 ORW V14 GDM V39 AUG (Turbojets) BEADS EMJAY J174 ZIZI ATR LAFLN MIIDY (RNAV)STAR.....	1100-0300
Baltimore (BWI).....	(Turbojets) NEION J223 CORDS CFB.....	
Binghamton (BGM) .....	(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
Boca Raton (BCT) .....	or	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR.....	
	or	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL.....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .....	
Buffalo (BUF) .....	(Turbojets) NEION J223 CORDS ULW ULW306 BENE.....	
	or	
	(Turboprops) GAYEL J95 CFB V270 ULW ULW306 BENE.....	
Chicago O'Hare (ORD) .....	(Turbojets-RNAV 1) COATE Q436 EMMMA WYNDE (RNAV)-STAR .....	
Coleman A Young (DET) .....	(Turbojet, Turboprop) GAYEL QB18 WOEZE COLTS BOREK LOPVO AXXIS GOHMA-STAR .....	
Dallas-Fort Worth (DFW).....	(RNAV Turbojet) (DFW South Flow) RBV J230 J6 LIT FEWWWW SEEVR (RNAV)-STAR .....	
	or	
	(RNAV Turbojet) (DFW North Flow) RBV J230 J6 LIT FEWWWW BRDJE (RNAV)-STAR .....	
	or	
	(All others) RBV J230 J6 LIT WILBR-STAR.....	
Detroit Satellites: Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) .....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQG.....	1100-0300
Fort Lauderdale (FLL) .....	(Water-Turboprops) BEADS CCC148 J174 ILM AR21 CRANS HILL FATHR GISSH-STAR .....	
	or	
	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN GISSH-STAR .....	
	or	
	(Turboprops) BEADS CCC148 J174 ORF J121 CHS J79 OMN MLB BLUFI-STAR.....	
	or	
	(Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS HILL FATHR GISSH-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR.....	
Ithaca (ITH) .....	(Turbojets) NEION J223 CORDS CFB V423 .....	
Manchester (MHT).....	(DME/DME-IRU or GNSS Required)(at or above FL190) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR.....	1100-0300
Miami (MIA) .....	(Turbojets) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or (Turboprops) BEADS CCC148 J174 ORF J121 CHS J79 OMN ANNEY-STAR .....	
	or (Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS.....	
	or (Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR .....	
Montreal (CYUL).....	(DME/DME-IRU or GNSS Required) GREKI JUDDS CAM LATTIS CARTER (CANADIAN RNAV)-STAR .	1100-0300
Nashua (ASH) .....	(110-150 incl) MAD V1 HFD V229 GDM V106 MHT	1100-0300
Newark (EWR) .....	(DME/DME/IRU or GNSS REQUIRED) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR.....	1100-0300
Orlando Executive (ORL).....	(Turbojets) BEADS CCC148 J174 ORF J121 CHS J79 OMN CORLL-STAR .....	1100-0300
	or (Water-Turbojets) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC APOLO ORL....	
	or (GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR.....	1100-0400
Orlando Intl (MCO) .....	(Turbojets) BEADS CCC148 J174 ORF J121 CHS J79 OMN BITHO-STAR .....	1100-0300
	or (GPS or DME/DME-IRU equipped) BEADS CCC148 J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) BEADS CCC148 J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR.....	1100-0400
Pittsburgh (PIT) .....	(Turbojets-RNAV 1) COATE Q436 REBBL J190 SLT HAYNZ (RNAV)-STAR.....	
	or (Props) GAYEL V374 MSLIN LAAYK Q436 DGRAF ETG V226 CIP HAYNZ (RNAV)-STAR .....	
Richmond (RIC).....	(DME/DME/IRU or GPS) BEADS CCC148 J174 SWL V139 ARICE JAMIE .....	
Syracuse (SYR).....	(Turbojets) NEION J223 CORDS CFB V29 .....	
Tampa (TPA) .....	BEADS V139 SARDI RBV J230 J75 TAY LZARD-STAR .....	
	or (GPS or DME/DME-IRU equipped) BEADS V139 SARDI RBV J230 J75 TAY DADES (RNAV)-STAR	
Washington Dulles (IAD).....	(RNAV only) BEADS V139 SARDI RBV HYPER (RNAV)-STAR .....	
Washington Natl (DCA) .....	BEADS EMJAY J174 ZIZZI ATR V308 BILIT CAPKO or (Turbojet) BEADS EMJAY J174 ZIZZI ATR LAFLN DEALE (RNAV)-STAR .....	



**Terminals**

West Palm Beach (PBI).....

**Route**

(Water–Turbojets) BEADS CCC148 J174 SWL  
 CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE  
 SWOMP SANZZ CASKI .....  
 or  
 (Water–Turbojets–GPS or DME/DME–IRU equipped)  
 BEADS CCC148 J174 SWL CEBEE WETRO DIW  
 AR19 AYBID FRWAY (RNAV)–STAR .....  
 or  
 (Turbojets–GPS or DME/DME–IRU equipped)  
 BEADS CCC148 J174 ORF ISO J121 CHS J79  
 OMN FRWAY (RNAV)–STAR .....  
 or  
 (Turbojets) BEADS CCC148 J174 ORF ISO J121  
 CHS J79 OMN TUXXI–STAR.....

**NEW YORK METRO AREA**

From **KENNEDY (JFK)** only

Atlanta (ATL) .....

RBV J230 J48 ODF WHINZ–STAR.....  
 or  
 (RNAV only) RBV J230 BYRDD J48 FLASK WINNG  
 RNAV–STAR .....  
 or  
 RBV J230 J48 ODF WHINZ–STAR.....

Augusta (AGS) .....

RBV J230 J75 GVE J37 SPA.....

1100–0300

Augusta (AUG) .....

(FL190 and above) GREKI JUDDS CAM CON .....

1100–0300

Baltimore (BWI).....

(Turbojets only) RBV J230 COPES J75 MXE V378  
 NUGGY TRISH (RNAV)–STAR.....

Bangor (BGR) .....

(FL190 and above) GREKI JUDDS CAM ENE .....

1100–0300

Binghamton (BGM) .....

(Turbojets) NEION J223 CORDS CFB.....

Boca Raton (BCT) .....

(Turbojets–GPS or DME/DME–IRU equipped)  
 WAVEY EMJAY J174 ORF ISO J121 CHS J79  
 OMN CAYSL (RNAV)–STAR .....  
 or  
 (Turbojets) WAVEY EMJAY J174 ORF ISO J121  
 CHS J79 OMN TUXXI–STAR.....  
 or

Boston (BOS) .....

(Jets only) (FL180–FL230) MERIT ROBUC  
 (RNAV)–STAR .....

1100–0300

Buffalo (BUF) .....

(Turbojets) NEION J223 CORDS ULW ULW306  
 BENEE.....  
 or  
 (Turbojets) GAYEL J95 CFB V270 ULW ULW306  
 BENEE.....

Burlington (BTV) .....

GREKI V419 JUDDS CAM .....

Charleston (CHS) .....

(Jets only) (FL190 and above) GREKI JUDDS CAM ..  
 WAVEY EMJAY J174 SWL J121 .....  
 or  
 (DME/DME–IRU or GPS) WAVEY EMJAY J174 SWL  
 J121 ISO AMYLU (RNAV)–STAR .....

1100–0300

Charlotte (CLT) .....

J230 J75 GVE LYH MAJIC–STAR .....

Charlottesville (CHO) .....

RBV J230 J75 GVE.....

Chicago Midway (MDW) .....

(RNAV 1) DEEZZ (RNAV)–DP CANDR J60 DJB  
 BAGEL PANGG (RNAV)–STAR .....

Chicago O'Hare (ORD) .....

(Turbojets–RNAV 1) COATE Q436 EMMMA WYNDE  
 (RNAV)–STAR .....

Cincinnati (CVG) .....

(RNAV only) RBV J230 SAAME J6 COLNS GAVNN  
 (RNAV)–STAR.....  
 or  
 (all others) RBV J230 SAAME J6 COLNS  
 BRUSH–STAR.....

Terminals	Route	
Cleveland (CLE) .....	(RNAV equipped only) DEEZZ (RNAV)-DP CANDR J60 PSB PSB292 YNG CHARDON-STAR..... or (Non-RNAV equipped only) (Max altitude FL280) COATE Q436 DGRAF J49 PSB YNG CHARDON-STAR .....	
Columbia (CAE).....	RBV J230 J75 .....	
Columbus (CMH).....	RBV J230 AIR FRICC BREMN .....	
Dallas-Fort Worth (DFW) .....	(RNAV Turbojets) (DFW South Flow) RBV J230 J6 LIT FEWWW SEEVR (RNAV)-STAR..... or (RNAV Turbojets) (DFW North Flow) RBV J230 J6 LIT FEWWW BRDJE (RNAV)-STAR..... or (All others) RBV J230 J6 LIT WILBR-STAR .....	
Dayton (DAY) .....	RBV J230 AIR APE DANEI-STAR .....	
Denver (DEN) .....	(RNAV equipped) RBV J230 AIR APE J178 FWA JOT J60 IOW J10 OBH KOHOE (RNAV)-STAR ....	
Detroit Metro-Wayne Co (DTW) .....	GAYEL J95 CFB TRAAD KOOPR YQO SPICA-STAR .	
Detroit Satellites:		
Ann Arbor (ARB), Willow Run (YIP), Windsor (CYQG).....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQG .....	
Ann Arbor (ARB), Young (DET), Windsor (CYQG) .....	GAYEL Q818 WOZEE COLTS BOREK LOPVO AXXIS GOHMA-STAR .....	
Pontiac (PTK) .....	GAYEL Q818 WOZEE COLTS BOREK LOPVO AXXIS SWANN-STAR .....	
Fayetteville (FAY) .....	RBV J230 J75 GVE SBV RDU .....	
Ft Lauderdale Metro Area (FLL, FXE, OPF)	(Water-Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS HIILL FATHR GISSH-STAR..... or (Water-Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or (Turbojets) WAVEY EMJAY J174 ORF ISO J121 CHS J79 OMN GISSH-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR.....	
	or (Turboprops) WAVEY EMJAY J174 ORF J121 CHS J79 OMN MLB BLUFI-STAR .....	
	or (Water-Turboprops) WAVEY EMJAY J174 ILM AR21 CRANS HIILL FATHR GISSH-STAR .....	
	or (Water-Turboprops-GPS OR DME/DME-IRU equipped) WAVEY EMJAY J174 ILM AR21 CRANS FISEL (RNAV)-STAR.....	
Fort Myers (FMY, RSW) .....	(GPS or DME/DME-IRU equipped) RBV J230 J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
	or (WATER-Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	
Greensboro (GSO).....	RBV J230 J75 GVE LYH V222 HENBY .....	0000-2359
Houston George Bush Intcntl (IAH).....	(Turbojets) (IAH East Flow) RBV J230 BYRDD J48 CSN FANPO Q40 AEX SKNRD(RNAV)-STAR .....	
	or (Turbojets) (IAH West Flow) RBV J230 BYRDD J48 CSN FANPO Q40 AEX DOOBI(RNAV)-STAR.....	
	or (Turbojets, Turboprops) (IAH East Flow) RBV J230 SAAME J6 LIT J180 SWB GESNR(RNAV)-STAR..	
	or (Turbojets, Turboprops) (IAH West Flow) RBV J230 SAAME J6 LIT J180 ZEEKK(RNAV)-STAR	
	<b>NE, 05 JAN 2017 to 02 MAR 2017</b>	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Houston Hobby (HOU).....	(Turbojets) RBV J230 BYRDD J48 CSN FANPO Q40 AEX WAPPL (RNAV)-STAR..... or (Turbojets-DME/DME/IRU or GPS) RBV J230 SAAME J6 LIT J180 SWB WAPPL (RNAV)-STAR.....	
Indianapolis (IND).....	(Turbojets) RBV J230 AIR J80 ZANOR RINTE SNKPT (RNAV)-STAR..... or (Turbojets) RBV J230 SAAME BRNAN Q42 HIDON RINTE SNKPT (RNAV)-STAR.....	
Ithaca (ITH).....	(Turbojets) NEION J223 CORDS CFB V423.....	
Jacksonville (JAX).....	(Turbojets only, GPS or DME/DME-IRU required) WAVEY EMJAY J174 ORF J121 CHS ESENT LUNNI (RNAV)-STAR.....	
Kansas City (MKC).....	RBV J230 AIR J80 SPI BRAYMER-STAR.....	
Knoxville (TYS).....	RBV J230 BYRDD J48 CNS FANPO Q40 ALEAN VXV	
Los Angeles (LAX).....	RBV J230 AIR J80 MCI J24 SLN J102 ALS J44 RSK.....	
Louisville (SDF).....	RBV J230 J6 HVQ J6 YOCKY DARBY-STAR.....	
Manchester (MHT).....	(DME/DME/IRU or GNSS REQUIRED) (at or above FL190) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR.....	1100-0300
Marco Island (MKY).....	(GPS or DME/DME-IRU equipped) RBV J230 J75 GSO J75 DUNKN SHFTY (RNAV)-STAR.....	
Memphis (MEM).....	(non RNAV) RBV J230 J6 BWG WLDER-STAR..... or (RNAV only) RBV J230 SAAME J6 BWG BLUZZ (RNAV)-STAR.....	
Miami Metro (MIA, TMB, HST).....	(Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR..... or (Water-Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR..... or (Water-Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSI MILSY BOYUR HILEY KAINS..... or (Turbojets) WAVEY EMJAY J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR..... or (Turboprops) WAVEY EMJAY J174 ORF J121 CHS J79 ANNEY-STAR.....	
Milwaukee (MKE).....	(RNAV Only) COATE Q436 RAAKQ Q438 RUBY MKG V2 SUDDS.....	
Minneapolis (MSP).....	(DME/DME-IRU or GNSS Required) GAYEL Q818 WOZEE NOSIK Q812 ZOHAN GRB EAU CLAIRE-STAR.....	1100-0300
Montreal (CYUL).....	(DME/DME-IRU or GNSS Required) GREKI JUDDS CAM LATTS CARTER (RNAV)-STAR.....	1100-0300
Nantucket (ACK).....	(Jets only) (FL180-210) BETTE DEEPO (RNAV)-STAR.....	1100-0300
Naples (APF).....	(Turbojets-GPS or DME/DME-IRU equipped) RBV J230 J75 GSO J75 DUNKN SHFTY (RNAV)-STAR.....	
Nashville (BNA).....	RBV J230 J6 YOCKY GUITR-STAR.....	
New Orleans (MSY).....	RBV J230 BYRDD J48 CNS FANPO Q40 NIOLA MEI RYTHM-STAR.....	
Norfolk (ORF).....	WAVEY EMJAY J174 SWL V139 CCV.....	
Orlando Executive (ORL).....	(Turbojets) WAVEY EMJAY J174 ORF J121 CHS J79 OMN CORLL-STAR..... or (GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR.....	1100-0300 1100-0400
Orlando Intl (MCO).....	(Turbojets) WAVEY EMJAY J174 ORF J121 CHS J79 OMN BITHO-STAR.....	1100-0300

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Terminals	Route	Effective Times (UTC)
	or (Water–Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC APOLO ORL.... or (GPS or DME/DME–IRU equipped) WAVEY EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)–STAR .....	1100–0400
Phoenix (PHX) .....	or (GPS or DME/DME–IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)–STAR .....	1100–0400
Pittsburgh (PIT) .....	RBV J230 AIR J110 STL J19 ZUN FOSSL–STAR .... (Turbojets–RNAV 1) COATE Q436 REBBL J190 SLT HAYNZ (RNAV)–STAR.....	
Raleigh/Durham (RDU) .....	or (Props) GAYEL V374 MSLIN LAAYK Q436 DGRAF ETG V226 CIP HAYNZ (RNAV)–STAR ..... WAVEY EMJAY J174 SWL ARGAL–STAR.....	
Richmond (RIC) .....	or (RNAV equipped) WAVEY EMJAY J174 SWL KAROO (RNAV)–STAR.....	
Roanoke (ROA) .....	(DME/DME/ IRU or GPS) WAVEY EMJAY J174 SWL V139 ARICE JAMIE .....	
Rochester (ROC) .....	RBV J230 J48 MOL..... (Turbojets) NEION J223 CORDS ULW V31 GIBBE...	
Salt Lake City (SLC) .....	GAYEL Q818 WOZEE Q935 HOCKE BAE DBQ J94 OCS NORDK (RNAV)–STAR .....	
San Francisco (SFO) .....	(Turbojet) GAYEL Q818 WOZEE Q935 HOCKE GRB GEP ABR J32 LLC LEGGS BDEGA (RNAV)–STAR.	
Sarasota/Bradenton (SRQ) .....	RBV J230 J75 TAY J85 GNV LAL ..... WAVEY EMJAY J174 ORF J121 CHS.....	
Savannah (SAV) .....	RBV J230 AIR J110 VHP VLA–STAR.....	
St. Louis (STL) .....	RBV J230 J75 TAY LZARD–STAR.....	
St. Petersburg (PIE) .....	(Turbojets) NEION J223 CORDS CFB V29 .....	
Syracuse (SYR) .....	RBV J230 J75 TAY LZARD–STAR.....	
Tampa (TPA) .....	or (GPS or DME/DME–IRU equipped) RBV J230 J75 TAY DADES (RNAV)–STAR.....	
Toronto (CYYZ) .....	GAYEL Q818 WOZEE LINNG (RNAV)–STAR .....	
Washington Dulles (IAD) .....	(RNAV only) RBV HYPER (RNAV)–STAR.....	
Washington Natl (DCA) .....	(Turbojets FL 180–220) WAVEY EMJAY J174 ZIZI ATR V308 BILIT CAPKO.....	
West Palm Beach (PBI) .....	or (Turbojets) (FL180–FL220) WAVEY EMJAY J174 ZIZI ATR LAFLN DEALE (RNAV)–STAR.....	
	(Water–Turbojets–GPS or DME/DME–IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID FRWAY (RNAV)–STAR .....	
	or (Turbojets) WAVEY EMJAY J174 ORF ISO J121 CHS J79 OMN TUXXI–STAR .....	
	or (Turbojets–GPS or DME/DME–IRU equipped) WAVEY EMJAY J174 ORF ISO J121 CHS J79 OMN FRWAY (RNAV)–STAR .....	
	or (Water–Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	
Willow Run (YIP) .....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXIS GOHMA–STAR .....	
From <b>LA GUARDIA (LGA)</b> only		
Akron/Canton (CAK) .....	NEWEL J60 PSB PSB292 YNG V72 ACO .....	
Allegheny County (AGC) .....	(RNAV equipped only) ZIMMZ Q42 MIKYQ Q480 VINSE DEMME (RNAV)–STAR.....	
	or	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	(Non-RNAV equipped only) NEWEL J60 PSB HAYNZ (RNAV)-STAR .....	
Atlanta (ATL) .....	LANNA J48 ODF WHINZ-STAR .....	
	or	
	(RNAV only) LANNA J48 FLASK WINNG (RNAV)-STAR .....	
Auburn/Lewiston (LEW) .....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
Augusta (AGS) .....	BIGGY J75 GVE J37 SPA .....	
Augusta (AUG) .....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
	or	
	(FL250 and above) MERIT HFD PUT BOS MESH... ..	1100-0300
Baltimore (BWI) .....	(Turbojets only) BIGGY J75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	
Bangor (BGR) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
	or	
	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300
Bar Harbor (BHB) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
	or	
	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300
Binghamton (BGM) .....	(Turbojets) NEION J223 CORDS CFB .....	
Birmingham (BHM) .....	LANNA J48 MOL J22 VXV VUZ .....	
Boca Raton (BCT) .....	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
	or	
	(Water-Turbojets) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .....	
Boston (BOS) .....	(DME/DME-IRU or GNSS Required) MERIT ROBUC (RNAV)-STAR .....	1100-0300
Buffalo (BUF) .....	(DME/DME-IRU or GNSS Required) MERIT ROBUC (RNAV)-STAR .....	1100-0300
	or	
	(Turboprops) COATE Q436 MTCAF ULW ULW306 BENE .....	
Burlington (BTV) .....	GREKI V419 JUDDS CAM .....	
	or	
	(Jets only) (FL190 and above) GREKI JUDDS CAM ..	1100-0300
Charleston (CHS) .....	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS... ..	
	or	
	(DME/DME-IRU or GPS) WHITE J209 SBY J79 BLAMO AMYLU (RNAV)-STAR .....	
Charleston (CRW) .....	PARKE J6 HVQ .....	
Charlotte (CLT) .....	BIGGY J75 GVE LYH MAJIC-STAR .....	
Charlottesville (CHO) .....	BIGGY J75 GVE .....	
Chattanooga (CHA) .....	LANNA J48 MOL J22 VXV .....	
Chicago Midway (MDW) .....	NEWEL J60 ASHEN BAGEL PANGG (RNAV)-STAR ..	
Chicago O'Hare (ORD) .....	(Turbojets-RNAV 1) COATE Q436 EMMMA WYNDE (RNAV)-STAR .....	
Cincinnati (CVG) .....	(RNAV only) PARKE J6 COLNS GAVNN (RNAV)-STAR .....	
	or	
	(all others) PARKE J6 COLNS BRUSH-STAR .....	
Cleveland (CLE) .....	NEWEL J60 PSB PSB292 YNG CHARDON-STAR .....	
Columbus (CMH) .....	(RNAV only) ZIMMZ Q42 MIKYG Q480 AIR BREMN .....	
	or	
	(Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 EWC TVT APE .....	
Concord (CON) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300

# PREFERRED IFR ROUTES

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Effective  
Times  
(UTC)

**Terminals**

**Route**

Dallas-Fort Worth (DFW) .....	(RNAV Turbojets) (DFW South Flow) PARKE J6 LIT FEWWW SEEVR (RNAV)-STAR..... or (RNAV Turbojets) (DFW North Flow) PARKE J6 LIT FEWWW BRDJE (RNAV)-STAR..... or (All others) PARKE J6 LIT WILBR-STAR .....
Dayton (DAY) .....	(RNAV only) ZIMMI Q42 MIKYG Q480 AIR APE DANEI-STAR .....
Daytona Beach (DAB) .....	(Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 EWC APE DANEI-STAR .....
Dekalb/Peachtree (PDK) .....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN .....
Denver (DEN) .....	LANNA J48 FLASK VIEWS DEHAN (RNAV)-STAR .. (RNAV equipped) NEWEL J60 IOW J10 OBH KOHOE (RNAV)-STAR.....
Detroit Metro Wayne Co (DTW) .....	GAYEL J95 CFB TRAAD KOOPR YQO SPICA-STAR .
Fayetteville (FAY) .....	BIGGY J75 GVE SBY RDU .....
Fort Lauderdale (FLL, FXE, OPF) .....	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....
	or (Water-Turbojets GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR .....
	or (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS OMN FISEL (RNAV)-STAR.....
	or (Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 VRB BLUFI-STAR.....
	or (Water-Turboprops) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....
	or (Water-Turboprops GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....
Fort Myers (FMY, RSW) .....	(GPS or DME/DME-IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....
	or (WATER-Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR .....
Fort Wayne (FWA) .....	NEWEL J60 DANNR RAV J64 .....
Greensboro (GSO).....	BIGGY J75 GVE LYH V222 HENBY .....
Greer (GSP) .....	BIGGY J75 GVE J37 LYH GMONY WAMUR JUNNR JUNNR (RNAV)-STAR .....
Hot Springs (HSP) .....	LANNA J48 EMI CSN V140 MOL.....
Houston George Bush Intcntl (IAH).....	(Turbojets-GPS or DME/DME-IRU or GPS) (IAH East Flow) LANNA J48 MOL J22 VUZ MEI AEX SKNRD (RNAV)-STAR .....
	or (Turbojets-DME/DME/IRU or GPS) (IAH West Flow) LANNA J48 MOL J22 VUZ MEI AEX DOOBI (RNAV)-STAR .....
Houston Hobby (HOU).....	(Turbojets-DME/DME/IRU or GPS) LANNA J48 MOL J22 VUZ MEI AEX WAPPL (RNAV)-STAR.....
Indianapolis (IND) .....	(Turbojets) (max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO RINTE SNKPT (RNAV)-STAR .....
	or (Turbojets) (AOA FL260) ZIMMZ Q42 HIDON RINTE SNKPT (RNAV)-STAR .....
Ithaca (ITH) .....	(Turbojets) NEION J223 CORDS CFB V423 .....

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## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Jacksonville (JAX) .....	(Turbojets only, GPS or DME/DME-IRU required) WHITE J209 SBY J79 CHS ESENT LUNNI (RNAV)-STAR .....	
Kansas City (MKC) .....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q40 AIR J80 SPI BRAYMER-STAR .....	
	or (Non-RNAV equipped only) (Max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J80 SPI BRAYMER-STAR .....	
Keene (EEN) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Knoxville (TYS) .....	LANNA J48 MOL J22 .....	
Laconia (LCI) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Lake Placid (LKP) .....	(Jets only) (FL190 and above) GREKI JUDDS CAM ..	1100-0300
Lebanon (LEB) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Lewisburg (LWB) .....	LANNA J48 EMI CSN V140 MOL .....	
Lexington (LEX) .....	PARKE J6 HVQ .....	
Louisville (SDF) .....	PARKE J6 HVQ J6 YOCKY DARBY-STAR .....	
Manchester (MHT) .....	(Jets only) (FL190 and above) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR .....	1100-0300
	or (Props only) (FL190 and above) GREKI JUDDS MARTN EEN POPPP-STAR .....	1100-0300
Marco Island (MKY) .....	(GPS or DME/DME-IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
Melbourne (MLB) .....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR .....	
Memphis (MEM) .....	(non RNAV) PARKE J6 BWG WLDER-STAR .....	
	or (RNAV only) PARKE J6 BWG BLUZZ (RNAV)- STAR .....	
Miami Metro Area (MIA, TMB, HST) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or (Turbojets-GPS or DME-DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or (Water-Turbojets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS .....	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or (Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY-STAR .....	
Milwaukee (MKE) .....	COATE Q436 RAAKK Q438 RUBY MKG V2 SUDDS GAYEL Q818 WOZEE NOSIK ZOHAN GRB EAU CLAIRE-STAR .....	
Minneapolis (MSP) .....	BIGGY J75 GVE J37 MGM MVC V20 AXIS .....	
Mobile (MOB) .....	BIGGY J75 GVE J37 .....	
Montgomery (MGM) .....	(RNAV equipped) GREKI JUDDS CAM J222 PLB CARTER (RNAV)-STAR .....	
Montreal (CYUL) .....	(Jets only) (FL180-FL230 only) BAYYS SEALL V188 GON DEEPO (RNAV)-STAR .....	1100-0300
Nantucket (ACK) .....	(Turbojets-GPS or DME/DME-IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
Naples (APF) .....	(FL190 and above) GREKI JUDDS MARTN EEN .....	1100-0300
Nashua (ASH) .....	PARKE J6 YOCKY GUITR-STAR .....	
Nashville (BNA) .....	LANNA J48 MOL J22 MEI J31 .....	
New Orleans (MSY, NEW) .....	WHITE J209 SBY V1 CCV .....	
Norfolk (ORF) .....	NEWEL J60 IOW DSM .....	
Omaha (OMA) .....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR .....	1100-0300
Orlando Executive (ORL) .....	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Orlando Intl (MCO) .....	(GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL .....	
	or (Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR .....	1100-0300
Phoenix (PHX) .....	(GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR J110 STL J19 ZUN EAGUL (RNAV)-STAR ....	
Pittsburgh (PIT) .....	or (Non-RNAV equipped only) (Max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J110 STL J19 ZUN BUNTR-STAR.....	
	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 VINSE DEMME (RNAV)-STAR.....	
Portland (PWM) .....	(FL180 and above) GREKI JUDDS CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM) .....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
Raleigh/Durham (RDU) .....	WHITE J209 CYN J37 CLASY J191 PXT V213 HPW ARGAL-STAR.....	
Richmond (RIC) .....	or (RNAV equipped) WHITE J209 CYN J37 CLASY J191 PXT V213 HPW KAROO (RNAV)-STAR .....	
	(DME/DME/IRU or GPS) WHITE J209 SBY V1 JAMIE LANNA J48 MOL.....	
Roanoke (ROA) .....	(Turbojets) NEION J223 CORDS ULW V31 GIBBE...	
Rochester (ROC) .....	or (Props) COATE Q436 LAAYK CFB V252 GIBBE.....	
	(FL250 and above) MERIT HFD PUT BOS.....	1100-0300
Rockland (RKD) .....	or (FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
	(FL190 and above) GREKI V419 JUDDS CAM .....	1100-0300
Rutland (RUT) .....	GAYEL Q818 WOZEE Q935 HOCKE BAE DBQ J94 OCS NORDK (RNAV)-STAR .....	
Salt Lake City (SLC) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Saranac Lake (SLK) .....	BIGGY J75 TAY J85 GNV LAL.....	
Sarasota/Bradenton (SRQ) .....	(Turbojets) WHITE J209 SBY J79 CHS.....	
Savannah (SAV) .....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR J80 VHP AARCH-STAR .....	
St. Louis (STL) .....	or (Non-RNAV equipped only) (Max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J80 VHP VANDALIA-STAR .....	
	BIGGY J75 TAY LZARD-STAR .....	
St. Petersburg (PIE) .....	(Turbojets) NEION J223 CORDS CFB V29 .....	
Syracuse (SYR) .....	or (Props) COATE Q436 LAAYK CFB.....	
Tampa (TPA).....	BIGGY J75 TAY LZARD-STAR .....	
Toledo (TOL).....	NEWEL J60 DJB VVW .....	
Toronto (CYYZ).....	(RNAV Only) GAYEL Q818 WOZEE LINNG (CANADIAN RNAV)-STAR .....	
Tri-City (TRI) .....	or (Props) COATE Q436 MTCAF ULW WOZEE VERKO (RNAV)-STAR .....	
	LANNA J48 MOL J22 PSK V16 HMV .....	
Washington Dulles (IAD) .....	(RNAV only) PARKE HYPER (RNAV)-STAR .....	
Washington Natl (DCA) .....	BIGGY J75 MXE V378 BAL .....	
	or	



PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) BIGGY J75 MXE CLIPR (RNAV)-STAR.....	
Waterville (WVL).....	(FL190 and above) GREKI JUDDS CAM..... or (FL250 and above) MERIT HFD PUT BOS .....	1100-0300  1100-0300
West Palm Beach (PBI).....	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)-STAR .....	
	or (Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR.....	
	or (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR .....	
Winston-Salem (INT) .....	BIGGY J75 GSO .....	
Youngstown (YNG).....	NEWEL J60 PSB PSB29 DBEAM.....	
From <b>NEWARK (EWR)</b> only		
Akron (CAK) .....	NEWEL J60 PSB PSB292 YNG V72 ACO .....	
Akron (AKR) .....	NEWEL J60 PSB PSB292 YNG V72 ACO .....	
Allegheny County (AGC).....	(RNAV equipped only) ZIMMZ Q42 MIKYQ Q480 VINSE DEMME (RNAV)-STAR .....	
	or (RNAV equipped only) NEWEL J60C PSB HAYNZ (RNAV)-STAR .....	
Atlanta (ATL) .....	LANNA J48 ODF WHINZ-STAR .....	
	or (RNAV only) LANNA J48 FLASK WINNG (RNAV)-STAR .....	
Auburn/Lewiston (LEW) .....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
Augusta (AGS).....	BIGGY J75 GVE J37 SPA .....	1100-0300
Augusta (AUG).....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
	or (FL250 and above) MERIT HFD PUT BOS MESH.....	1100-0300
Baltimore (BWI).....	(Turbojets only) BIGGY J75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	
Bangor (BGR) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
	or (FL250 and above) MERIT HFD PUT BOS .....	1100-0300
Bar Harbor (BHB) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
	or (FL250 and above) MERIT HFD PUT BOS .....	1100-0300
Barre/Montpelier (MPV) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
Binghamton (BGM) .....	NEION J223 CORDS CFB .....	
Birmingham (BHM) .....	LANNA J48 CSN FANPO Q40 NIOLA VUZ .....	
Boca Raton (BCT) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR.....	
	or (Water-Turbojets GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID CAYSL (RNAV)-STAR.....	
	or (Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL .....	
Boston (BOS) .....	(Jets only) (FL180-FL230) MERIT ROBUC (RNAV)-STAR .....	1100-0300
Buffalo (BUF) .....	(Turbojets) NEION J223 CORDS ULW ULW306 BENEE.....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Burlington (BTV) .....	(Turboprops) COATE Q436 MTCAP ULW ULW306 BENEE .....	1100-0300
Charleston (CHS).....	(Jets only) (FL190 and above) GREKI JUDDS CAM . (Turbojets) WHITE J209 SBY J79 KATZN TYI CHS .. or (GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 BLAMO AMYLU (RNAV)-STAR .....	
Charleston (CRW).....	PARKE J6 HVQ .....	1100-0300
Charlotte (CLT).....	BIGGY J75 GVE LYH MAJIC-STAR .....	
Charlottesville (CHO) .....	BIGGY J75 GVE.....	
Chattanooga (CHA).....	LANNA J48 CSN FANPO Q40 ALEAN VXV .....	
Chicago Midway (MDW).....	NEWEL J60 ASHEN BAGEL PANGG (RNAV)-STAR .	
Chicago O'Hare (ORD) .....	(Turbojets-RNAV 1) COATE Q436 EMMMA WYNDE (RNAV)-STAR .....	
Cincinnati (CVG) .....	PARKE J6 COLNS HNN JAVIT-STAR .....	
	or COLNS JAVIT-STAR .....	
	or (RNAV only) PARKE J6 COLNS GAVNN (RNAV)-STAR .....	
	or (all others) PARKE J6 COLNS BRUSH-STAR.....	
Cleveland (CLE) .....	NEWEL J60 PSB PSB292 YNG CHARDON-STAR ... or (Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 EWC TVT APE.....	
Coleman A Young (DET).....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXSIS GOHMA-STAR .....	
Columbus (CMH).....	(RNAV equipped only) ZIMMZ Q42 BTRIX Q480 AIR BREMN-STAR .....	
Concord (CON) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Dallas-Fort Worth (DFW) .....	(RNAV Turbojet) (DFW South Flow) PARKE J6 LIT FEWWW SEEV (RNAV)-STAR.....	
	or (RNAV Turbojet) (DFW North Flow) PARKE J6 LIT FEWWW BRDJE (RNAV)-STAR.....	
	or (All others) PARKE J6 LIT WILBR-STAR .....	
Dayton (DAY) .....	(RNAV equipped only) ZIMMZ Q42 BTRIX Q480 APE DANEI-STAR .....	
	or (Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 EWC APE DANEI-STAR .....	
Daytona Beach (DAB) .....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN.....	
Dekalb/Peachtree (PDK) .....	LANNA J48 FLASK VIEWS DEHAN (RNAV)-STAR .	
Denver (DEN) .....	(RNAV equipped) NEWEL J60 IOW J10 OBH KOHAE (RNAV)-STAR.....	
Detroit Metro Wayne Co (DTW) .....	GAYEL J95C CFB TRAAD KOOPR YQO SPICA-STAR	
Detroit Satellites:		
Windsor (CYQG) .....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO .....	
Ann Arbor (ARB) .....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQG .....	
Fayetteville (FAY).....	BIGGY J75 GVE SBV RDU .....	
Fort Lauderdale (FLL) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)-STAR.....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or (Water-Turbojets) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....	
	or	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	(Water–Turboprops) WHITE J209 SBY KEMPR ILM AR21 CRANS HILL FATHR GISSH–STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH–STAR .....	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN MLB BLUFI–STAR .....	
	or	
	(Water–Turboprops–GPS or DME/DME–IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)–STAR .....	
Fort Myers (FMY, RSW) .....	(GPS or DME/DME–IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)–STAR .....	
Fort Wayne (FWA) .....	NEWEL J60 DANNR RAV J64 .....	
Greensboro (GSO) .....	BIGGY J75 GVE LYH V222 HENBY .....	0000–2359
Greer (GSP) .....	BIGGY J75 GVE J37 LYH GMONY WAMUR JUNNR JUNNR (RNAV)–STAR .....	
Hot Springs (HSP) .....	LANNA J48 EMI CSN V140 MOL .....	
Houston George Bush Intcntl (IAH) .....	(Turbojets–DME/DME/IRU or GPS) (IAH East Flow) LANNA J48 CSN FANPO Q40 AEX SKNRD (RNAV)–STAR .....	
	or	
	(Turbojets–DME/DME/IRU or GPS) (IAH West Flow) LANNA J48 CSN FANPO Q40 AEX DOOBI (RNAV)–STAR .....	
Houston Hobby (HOU) .....	(Turbojets) LANNA J48 CSN FANPO Q40 AEX WAPPL (RNAV)–STAR .....	
Indianapolis (IND) .....	(Turbojets, Max altitude FL280) NEWEL J60C DANNR RAV J64 CASIO RINTE SNKPT (RNAV)–STAR .....	
	or	
	(Turbojets, AOA FL260) ZIMMZ Q42 HIDON RINTE SNKPT (RNAV)–STAR .....	
Ithaca (ITH) .....	(Turbojets) NEION J223 CORDS CFB V423 .....	
Kansas City (MKC) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYG Q480 AIR J80 SPI BRAYMER–STAR .....	
	or	
	(Non–RNAV Equipped Only) (Max altitude FL280) NEWEL J60C DANNR RAV J64 CASIO FYLLS J80C SPI BRAYMER–STAR .....	
Keene (EEN) .....	(FL190 and above) GREKI JUDDS CAM .....	1100–0300
Knoxville (TYS) .....	LANNA J48 CSN FANPO Q40 ALEAN VXV .....	
Laconia (LCI) .....	(FL190 and above) GREKI JUDDS CAM .....	1100–0300
Lake Placid (LKP) .....	(Jets only) (FL190 and above) GREKI JUDDS CAM ..	1100–0300
Lebanon (LEB) .....	(FL190 and above) GREKI JUDDS CAM .....	1100–0300
Lewisburg (LWB) .....	LANNA J48 EMI CSN V140 MOL .....	
Lexington (LEX) .....	PARKE J6 HVQ .....	
Los Angeles (LAX) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYG Q480 AIR J80 MCI J24 SLN J102 ALS J44 RSK J64 PGS RIIVR–STAR .....	
	or	
	(Non–RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J80C MCI J24 SLN J102 ALS J44 RSK J64 PGS DOWNE–STAR .....	
Louisville (LOU, SDF) .....	PARKE J6 HVQ J6 YOCKY DARBY–STAR .....	
Manchester (MHT) .....	(Jets only) (FL190 and above) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)–STAR .....	1100–0300
	or	
	(Props only) (FL190 and above) GREKI JUDDS MARTN EEN POPPP–STAR .....	1100–0300
Marco Island (MKY) .....	(GPS or DME/DME–IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)–STAR .....	
Melbourne (MLB) .....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO–STAR .....	
Memphis (MEM) .....	(non RNAV) PARKE LRP J6 BWG WLDER–STAR .....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Miami (MIA) .....	(RNAV only) PARKE J6 BWG BLUZZ (RNAV)–STAR .....	
	(Turbojets–GPS or DME/DME–IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)–STAR .....	
	or	
	(Water–Turbojets–GPS or DME/DME–IRU equipped) WHITE J209 SBY KEMPR DIW AR22 JORAY HILEY (RNAV)–STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY–STAR .....	
	or	
	(Water–Turbojets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSY MILSY BOYUR HILEY KAINS .....	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY–STAR .....	
Milwaukee (MKE) .....	(RNAV Equipped Only) COATE Q436 RAAKK Q438 RUBY MKG V2 SUDDS .....	
Minneapolis (MSP) .....	(DME/DME–IRU or GNSS Required) GAYEL Q818 WOZEE NOSIK Q812 ZOHAN GRB EAU CLAIRE–STAR .....	1100–0300
Mobile (MOB) .....	BIGGY J75 GVE J37 MGM MVC V20 AXISIS .....	
Montgomery (MGM) .....	BIGGY J75 GVE J37 .....	
Montreal (CYUL) .....	(DME/DME–IRU or GNSS Required) GREKI JUDDS CAM LATTS CARTER (CANADAIAN RNAV)–STAR .....	1100–0300
Nantucket (ACK) .....	(Jets only) (FL180–FL230) BAYYS SEALL V188 GON DEEPO (RNAV)–STAR .....	1100–0300
Naples (APF) .....	(Turbojets–GPS or DME/DME–IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)–STAR .....	
Nashua (ASH) .....	(FL190 and above) GREKI JUDDS MARTN EEN .....	1100–0300
Nashville (BNA) .....	PARKE J6 YOCKY GUITR– STAR .....	
New Orleans (MSY) .....	LANNA J48 CSN FANPO Q40 NIOLA MEI RYTHM–STAR .....	
Norfolk (ORF) .....	WHITE J209 SBY V1 CCV .....	
Omaha (OMA) .....	NEWEL J60 IOW DSM .....	
Orlando Executive (ORL) .....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL–STAR .....	1100–0300
	or	
	(GPS or DME/DME–IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)–STAR .....	1100–0400
Orlando Intl (MCO) .....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO–STAR .....	1100–0300
	or	
	(Water–Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL .....	1100–0300
	or	
	(GPS or DME/DME–IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)–STAR .....	1100–0400
	or	
	(GPS or DME/DME–IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)–STAR .....	1100–0400
Phoenix (PHX) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYG Q480 AIR J110 STL J19 ZUN EAGLE (RNAV)–STAR .....	
	or	
	(Non–RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J110 STL J19 ZUN BUNTR–STAR .....	
Pittsburgh (PIT) .....	(RNAV only) ZIMMZ Q42 MIKYG Q480 VINSE DEMME (RNAV)–STAR .....	
Pontiac (PTK) .....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXSIS GOHMA–STAR .....	
Portland (PWM) .....	GREKI V419 JUDDS CAM CON CON067 PARSO .....	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	or (FL180 and above) GREKI JUDDS CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM) .....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
Raleigh-Durham (RDU) .....	ELVAE COL WHITE J209 CYN J37 CLASY J191 PXT V213 HPW ARGAL-STAR .....	
	or (RNAV equipped) ELVAE COL WHITE J209 CYN J37 CLASY J191 PXT V213 HPW KAROO (RNAV)-STAR .....	
Richmond (RIC) .....	WHITE J209 SBY V1 JAMIE .....	
Roanoke (ROA) .....	LANNA J48 MOL .....	
Rochester (ROC) .....	(Turbojets) NEION J223 CORDS ULW V31 GIBBE .....	
	or (Turboprops) COATE J36 LHY CFB V252 GIBBE .....	
Rockland (RKD) .....	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300
	or (FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
Rutland (RUT) .....	(FL190 and above) GREKI V419 JUDDS CAM .....	1100-0300
Salt Lake City (SLC) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYQ Q480 AIR J80 VHP AARCH (RNAV)-STAR .....	
	or (Non-RNAV Equipped Only) (Max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J80 VHP VANDALIA-STAR .....	
San Francisco (SFO) .....	(Turbojet) GAYEL Q818 WOZEE Q935 HOCKE GRB GEP ABR J32LLC LEGGS BDEGA (RNAV)-STAR .....	
Saranac Lake (SLK) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Sarasota/Bradenton (SRQ) .....	BIGGY J75 TAY J85 GNV LAL .....	
Savannah (SAV) .....	(Turbojets) WHITE J209 SBY J79 CHS .....	
St. Louis (STL) .....	(RNAV equipped only) ZIMMZ Q42 MIKYQ Q480 AIR VHP AARCH-STAR .....	
	or (Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 J29 FYLLS J80 VHP VANDALIA-STAR .....	
St. Petersburg (PIE) .....	BIGGY J75 TAY LZARD-STAR .....	
Syracuse (SYR) .....	(Turbojets) NEION J223 CORDS CFB V29 .....	
	or (Turboprops) COATE Q436 LAAYK CFB V29 .....	
Tampa (TPA) .....	BIGGY J75 TAY LZARD-STAR .....	
	or (GPS or DME/DME-IRU equipped) BIGGY J75 TAY DADES (RNAV)-STAR .....	
Toledo (TOL) .....	NEWEL J60 DJB VWV .....	
Toronto (CYYZ) .....	(RNAV Equipped Only) (90-170 incl) GAYEL Q818 WOZEE LINNG (CANADIAN RNAV)-STAR .....	
	or (Props) COATE Q436 MTCAF ULW WOZEE VERKO (RANV)-STAR .....	
Tri-City (TRI) .....	LANNA J48 CSN FANPO Q40 ALEAN .....	
Washington Dulles (IAD) .....	(RNAV only) PARKE HYPER (RNAV)-STAR .....	
Washington Natl (DCA) .....	BIGGY J75 MXE V378 BAL .....	
	or (GPS or DME/DME-IRU equipped) BIGGY J75 MXE CLIPR (RNAV)-STAR .....	
Waterville (WVL) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
	or (FL250 and above) MERIT HFD PUT BOS .....	1100-0300
West Palm Beach (PBI) .....	(Water-Turbojets-GSP or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)-STAR .....	
	or (Turbojets-GSP or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR .....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID NEUBE SWOMP SANZZ CASKI.....	
Willow Run (YIP) .....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXSIS GOHMA-STAR .....	
Winston Salem (INT) .....	BIGGY J75 GSO .....	
Youngstown (YNG).....	NEWEL J60 PSB PSB292 DBEAM .....	
From <b>NEWARK SATELLITES</b> only		
Akron (CAK) .....	NEWEL J60 PSB PSB292 YNG V72 ACO .....	
Akron (AKR) .....	NEWEL J60 PSB PSB292 YNG V72 ACO .....	
Allegheny County (AGC) .....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 VINSE DEMME (RNAV)-STAR .....	
	or	
	(RNAV equipped only) NEWEL J60C PSB HAYNZ (RNAV)-STAR .....	
Augusta (AGS) .....	LANNA J48 ETX215 J75 GVE J37 SPA .....	1100-0300
Binghamton (BGM).....	(Turbojets) NEION J223 CORDS CFB .....	
Birmingham (BHM) .....	LANNA J48 MOL J22 VXV VUZ .....	
Boca Raton (BCT) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR.....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID CAYSL (RNAV)-STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL.....	
Buffalo (BUF).....	(Turbojets) NEION J223 CORDS ULW ULW306 BENEE .....	
	or	
	(Turboprops) COATE Q436 MTCAP ULW ULW306 BENEE .....	
Charleston (CHS).....	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS..	
Charleston (CRW).....	PARKE J6 HVQ .....	
Charlotte (CLT).....	LANNA J48 ETX215 J75 GVE LYH MAJIC-STAR ....	1100-0300
Charlottesville (CHO) .....	LANNA J48 ETX215 J75 GVE .....	
Chattanooga (CHA) .....	LANNA J48 MOL J22 VXV .....	
Cincinnati (CVG) .....	(RNAV only) PARKE J6 COLNS GAVNN (RNAV)-STAR .....	
	or	
	(all others) PARKE J6 COLNS BRUSH-STAR.....	
Columbus (CMH).....	ELIOT J80 AIR AIR260 BREMN .....	
	or	
	(Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 EWC TVT APE.....	
	or	
	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR BREMIN-STAR .....	
Dallas-Fort Worth (DFW) .....	(RNAV Turbojet) (DFW South Flow) PARKE J6 LIT FEWWWW SEEVR (RNAV)-STAR.....	
	or	
	(RNAV Turbojet) (DFW North Flow) PARKE J6 LIT FEWWWW BRDJE (RNAV)-STAR.....	
	or	
	(All others) PARKE J6 LIT WILBR-STAR.....	
Dayton Intl .....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR APE DANEI-STAR .....	
Daytona Beach (DAB) .....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN.....	
Detroit Metro Wayne Co (DTW) .....	GAYEL J95C CFB TRAAD KOOPR YQO SPICA-STAR	
Detroit Satellites:		

Terminals	Route	
Ann Arbor (ARB).....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQG.....	
Windsor (CYQG).....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQO.....	
Fayetteville (FAY) .....	LANNA J48 ETX215 J75 GVE SBV RDU .....	
Fort Lauderdale (FLL) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)-STAR .....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR .....	
	or (Water-Turbojets) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....	
	or (Water-Turboprops-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN MLB BLUFI-STAR .....	
	or (Water-Turboprops) WHITE J209 SBY KEMPR ILM AR21 CRANS HIILL FATHR (GISSH)-STAR .....	
Fort Myers (FMY, RSW).....	(GPS or DME/DME-IRU equipped) LANNA J48 J53 SPA J85 AMG SHFTY (RNAV)-STAR .....	
	or (WATER-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	
Fort Wayne (FWA).....	ELIOT J80 SUZIE J64.....	
Greensboro (GSO) .....	LANNA J48 ETX215 J75 GVE LYH V222 HENBY....	0000-2359
Greer (GSP).....	LANNA J48 HAAGN MURPH J75 GVE J37 LYH GMONY WAMUR JUNNR JUNNR (RNAV)-STAR..	
Hot Springs (HSP).....	LANNA J48 EMI CSN V140 MOL.....	
Houston George Bush Intcntl (IAH) .....	(Turbojets) (IAH West Flow) LANNA J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR .....	
	or (Turbojets) (IAH East Flow) LANNA J48 CSN FANPO Q40 AEX SKNRD (RNAV)-STAR .....	
Houston Hobby (HOU).....	(Turbojets) LANNA J48 CSN FANPO Q40 AEX WAPPL (RNAV)-STAR .....	
Ithaca (ITH).....	(Turbojets) NEION J223 CORDS CFB V423.....	
Jacksonville (JAX) .....	(Turbojets only, GPS or DME/DME-IRU required) WHITE J209 SBY J79 CHS ESENT LUNNI (RNAV)-STAR .....	
Kansas City (MKC) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYG Q480 AIR J80 SPI BRAYMER-STAR .....	
Lewisburg (LWB).....	LANNA J48 EMI CSN V140 MOL.....	
Lexington (LEX) .....	PARKE J6 HVQ .....	
Los Angeles (LAX) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYG Q480 AIR J80 MCI J24 SLN J102 ALS J44 RSK J64 PGS RIIVR-STAR .....	
Louisville (LOU, SDF) .....	PARKE J6 HVQ J6 YOCKY DARBY-STAR .....	
Manchester (MHT) .....	(DME/DME/IRU or GNSS REQUIRED) (at or above FL190) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR .....	1100-0300
Marco Island (MKY).....	(GPS or DME/DME-IRU equipped) LANNA J48 J53 SPA J85 AMG SHFTY (RNAV)-STAR .....	
Melbourne (MLB).....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR.....	
Miami (MIA).....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSE MILSY BOYUR HILEY KAINS .....	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY-STAR .....	
Milwaukee (MKE) .....	(RNAV Equipped Only) COATE Q436 RAAKK Q438 RUBYY MKG V2 SUDDS .....	
Mobile (MOB) .....	LANNA J48 J53 SPA J37 MGM MVC V20 AXISIS ....	
Montgomery (MGM) .....	LANNA J48 J53 SPA J37 .....	
Montreal (CYUL) .....	(DME/DME-IRU or GNSS Required) GREKI JUDDS CAM LATT S CARTER (CANADAIAN RNAV)-STAR .....	1100-0300
Naples (APF) .....	(Turbojets-GPS or DME/DME-IRU equipped) LANNA J48 J53 SPA J85 AMG SHFTY (RNAV)-STAR .....	
Nashville (BNA) .....	PARKE J6 YOCKY GUITR-STAR .....	
Norfolk (ORF) .....	WHITE J209 SBY V1 CCV .....	
Orlando Executive (ORL) .....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR .....	1100-0300
Orlando Intl (MCO) .....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR .....	1100-0300
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL .....	1100-0300
Phoenix (PHX) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYQ Q480 AIR J110 STL J19 ZUN EAGUL (RNAV)-STAR .....	
Pittsburgh Intl (PIT) .....	(RNAV equipped only) ZIMMZ Q42 MIKYQ Q480 VINSE DEMME (RNAV)-STAR .....	
Richmond (RIC) .....	WHITE J209 SBY V1 JAMIE .....	
Roanoke (ROA) .....	LANNA J48 MOL .....	
Rochester (ROC) .....	(Turbojets) NEION J223 CORDS ULW V31 GIBBE... or (Props) COATE Q436 LAAYK CFB V252 GIBBE..... (DME/DME-IRU or GNSS Required) GAYEL Q818 WOZEE Q935 HOCKE BAE DBQ J94 OCS NORDK (RNAV)-STAR .....	1100-0300
Salt Lake City (SLC) .....	(Turbojets) WHITE J209 SBY J79 CHS.....	
Savannah (SAV) .....	(RNAV Equipped only) ZIMMZ Q42 MIKYQ Q480 AIR VHP AARCH-STAR .....	
St. Louis (STL) .....	LANNA J48 J53 SPA J85 TAY LZARD-STAR .....	
St. Petersburg (PIE) .....	(Turbojets) NEION J223 CORDS CFB V29 .....	
Syracuse (SYR) .....	or	
	(Turboprops) COATE J36 LHY CFB.....	
Tampa (TPA) .....	LANNA J48 J53 SPA J85 TAY LZARD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) LANNA J48 J53 SPA J85 TAY DADES (RNAV)-STAR.....	
Toledo (TOL) .....	NEWEL J60 DJB VVV .....	
Toronto (CYYZ) .....	(RNAV Equipped Only) (90-170 incl) GAYEL Q818 WOZEE LINNG (CANADIAN RNAV)-STAR .....	
	or	
	(Props) COATE Q436 MTCAF ULW WOZEE VERKO (RANV)-STAR .....	
Tri-City (TRI) .....	LANNA J48 MOL J22 PSK V16 HMV .....	
Washington Dulles (IAD) .....	(RNAV only) PARKE HYPER (RNAV)-STAR .....	
Washington Natl (DCA) .....	BIGGY J75 MXE V378 BAL .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY-STAR .....	
	or	



Terminals	Route	Effective Times (UTC)
	(Water–Turbojets–GPS or DME/DME–IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)–STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI–STAR.....	
	or	
	(Water–Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	
Winston Salem (INT) .....	BIGGY J75 GSO .....	
Youngstown (YNG) .....	ELIOT J60 PSB PSB292060 .....	
From <b>TETERBORO (TEB)</b> only		
Auburn/Lewiston (LEW) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100–0300
Augusta (AUG).....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100–0300
	or	
	(FL250 and above) MERIT HFD PUT BOS MESH... ..	1100–0300
Bangor (BGR) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100–0300
	or	
	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100–0300
Bar Harbor (BHB) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100–0300
	or	
	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100–0300
Barre/Montpelier (MPV) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100–0300
Boca Raton (BCT) .....	(Water–Turbojets–GPS or DME/DME–IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID CAYSL (RNAV)–STAR.....	
	or	
	(Water–Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL .....	
	or	
	(Turbojets–GPS or DME/DME–IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN CAYSL (RNAV)–STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI–STAR.....	
Burlington (BTV) .....	(Jets only) (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM.....	1100–0300
Charleston (CHS) .....	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS... ..	
	or	
	(DME/DME–IRU or GPS) WHITE J209 SBY J79 BLAMO AMYLU (RNAV)–STAR .....	
Cincinnati (CVG) .....	(RNAV only) PARKE J6 COLNS GAVNN (RNAV)–STAR .....	
	or	
	(all others) PARKE J6 COLNS BRUSH–STAR .....	
Concord (BHB) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100–0300
Detroit Satellites:		
Young (DET), Willow Run (YIP) .....	GAYEL Q818 WOZEE COLTS BOREK LOPVO AXIS GOHMA–STAR .....	1100–0300
	or	
Pontiac (PTK).....	GAYEL Q818 WOZEE COLTS BOREK LOPVO AXIS SWWAN–STAR .....	1100–0300
	or	
Willow Run (YIP) .....	NEWEL J60C PSB LLEEO–STAR .....	
Ft. Lauderdale Metro Area (FLL, OPF) ....	(Turbojets–GPS or DME/DME–IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)–STAR .....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR .....	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN MLB BLUFI-STAR .....	
	or	
	(Water-Turboprops) WHITE J209 ORF J174 ILM AR21 CRANS HILL FATHR GISSH-STAR .....	
	or	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) WHITE J209 ORF J174 ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR21 CRANS FATHR GISSH-STAR .....	
Jacksonville (JAX).....	(Turbojets only, GPS or DME/DME-IRU required) ELVAE COL WHITE J209 SBY J79 CHS ESENT LUNNI (RNAV)-STAR.....	
Keene (EEN) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Laconia (LCI) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Lake Placid (LKP) .....	(Jets only) (FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Lebanon (LEB) .....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300
Manchester (MHT).....	(FL190 and above) BREZY V39 CMK GREKI JUDDS MARTN QUINZ ROZZE (RNAV)-STAR.....	1100-0300
	or	
	(Props only) (FL190 and above) GREKI JUDDS MARTN EEN POPPP-STAR .....	1100-0300
Marco Isle (MKY).....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR.....	
Miami Metro Area (MIA, TMB, HST).....	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSY MILSY BOYUR HILEY KAINS .....	
	or	
	(Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY-STAR.....	
Montreal (CYUL) .....	(DME/DME-IRU or GNSS Required) (at or above FL190) BREZY V39 CMK GREKI JUDDS CAM LATTS CARTER (RNAV)-STAR .....	
Nantucket (ACK) .....	(Jets only) (FL180-FL230 only) BREZY V39 CMK BAYYS SEALL V188 GON DEEPO (RNAV)-STAR .	1100-0300
Naples (APF) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR.....	
Nashua (ASH).....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM EEN MHT .....	1100-0300
Orlando Intl (MCO) .....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR.....	1100-0300
	or	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)	
Orlando/Exec (ORL)	(GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR.....	1100-0400	
	or		
	(GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400	
	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR .....	1100-0300	
	or		
	(Water-Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL .....		
	or		
	(GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400	
	Portland (PWM) .....	(FL180 and above) BREZY V39 CMK GREKI JUDDS CAM CDOGG (RNAV)-STAR .....	1100-0300
	Portsmouth (PSM) .....	(FL190-FL230) GREKI JUDDS CAM CON .....	1100-0300
Rockland (RKD).....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM CON .....	1100-0300	
	or		
	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300	
Rutland (RUT) .....	(FL190 and above) GREKI V419 JUDDS CAM.....	1100-0300	
Savannah (SAV).....	(Turbojets) WHITE J209 SBY J79 CHS .....		
Waterville (WVL).....	(FL190 and above) BREZY V39 CMK GREKI JUDDS CAM .....	1100-0300	
	or		
	(FL250 and above) BREZY V39 CMK MERIT HFD PUT BOS .....	1100-0300	
West Palm Beach (PBI).....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR .....		
	or		
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR.....		
	or		
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)-STAR .....		
	or		
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....		
<b>From WHITE PLAINS (HPN)</b>			
Allegheny (AGC).....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 VINSE NESTO-STAR .....		
	or		
	(Non-RNAV Equipped) NEWEL J60 PSB HAYNZ (RNAV)-STAR .....		
Atlanta (ATL) .....	LANNA J48 ODF WHINZ-STAR .....		
	or		
	(RNAV only) LANNA J48 FLASK WINNG (RNAV)-STAR .....		
Auburn/Lewiston (LEW) .....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300	
Augusta (AUG).....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300	
	or		
	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300	
Baltimore (BWI).....	(Turbojets only-DME/DME-IRU or GPS Required) BIGGY J75 MXE V378 NUGGY TROYZ (RNAV)-STAR .....		
Bangor (BGR) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300	
	or		
	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300	
Bar Harbor (BHB) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300	
	or		
	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Binghamton (BGM).....	(Turbojets) NEION J223 CORDS CFB.....	
Boca Raton (BCT) .....	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR.....	
	or	
	(Water) WAVEY EMJAY J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL.....	
Boston (BOS).....	(DME/DME-IRU or GNSS Required) MERIT ROBUC (RNAV)-STAR .....	1100-0300
Buffalo (BUF).....	(Turbojets) NEION J223 CORDS ULW ULW306 BENEE .....	
	or	
	(Turboprops) GAYEL J95 CFB V270 ULW306 BENEE.....	
Burlington (BTV) .....	GREKI V419 JUDDS CAM .....	
	or	
	(Jets only) (FL190 and above) GREKI JUDDS CAM .	1100-0300
Charleston (CHS).....	(Turbojets) WHITE J209 SBY J79 KATZN TYI CHS.. or (GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 BLAMO AMYLU (RNAV)-STAR .....	
Charleston (CRW).....	PARKE J6 HVQ .....	
Charlotte (CLT).....	BIGGY J75 GVE LYH MAJIC-STAR .....	
Chicago Midway (MDW).....	NEWEL J60 ASHEN BAGEL PANGG (RNAV)-STAR .	
Chicago O'Hare (ORD) .....	(Turbojets-RNAV 1) COATE Q436 EMMMA WYNDE (RNAV)-STAR .....	
Cincinnati (CVG) .....	(RNAV only) PARKE J6 COLNS GAVNN (RNAV)-STAR .....	
	or	
	(all others) PARKE J6 COLNS BRUSH-STAR.....	
Cleveland (CLE) .....	NEWEL J60 PSB PSB292 YNG CHARDON-STAR... or (Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 TVT APE AIR BREMN-STAR .....	
Coleman A Young (DET) .....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXSIS GOHMA-STAR .....	
Columbus (CMH).....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR BREMN-STAR .....	
Concord (CON) .....	(FL190 and above) GREKI JUDDS CAM .....	1100-0300
Dallas-Fort Worth (DFW).....	(RNAV Turbojet) (DFW South Flow) PARKE J6 LIT FEWWWW SEEVR (RNAV)-STAR.....	
	or	
	(RNAV Turbojet) (DFW North Flow) PARKE J6 LIT FEWWWW BRDJE (RNAV)-STAR.....	
	or	
	(All others) PARKE J6 LIT WILBR-STAR .....	
Dayton (DAY).....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR APE DANEI-STAR .....	
	or	
	(Non-RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 EWC APE DANEI-STAR .....	
Daytona Beach (DAB).....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN.....	
Denver (DEN) .....	(RNAV equipped) NEWEL J60 IOW J10 OBH KOHOE (RNAV)-STAR.....	
Detroit Metro-Wayne Co (DTW) .....	(Turbojets) GAYEL J95 CFB TRAAD KOOPR YQG SPICA-STAR .....	

Terminals	Route	
Detroit Satellites: Ann Arbor (ARB), Windsor (CYQG) .....	GAYEL J95 CFB CFB286 TRAAD ULW306 KOOPR YQG.....	
Fayetteville (FAY) .....	BIGGY J75 GVE SBV RDU.....	
Ft Lauderdale Metro Area (FLL, FXE, OPF) .....	(Turbojets--All Others) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN GISSH--STAR..... or (Turbojets)--E,/G,/R,/J,/L,/Q equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)--STAR..... or (Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN MLB BLUFI--STAR .....	
Fort Myers (FMY, RSW).....	(GPS or DME/DME--IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)--STAR .....	
Fort Wayne (FWA).....	NEWEL J60 DANNR RAV J64 .....	
Greensboro (GSO) .....	BIGGY J75 .....	
Greer (GSP).....	BIGGY J75 GVE J37 LYH GMONY WAMUR JUNNR JUNNR (RNAV)--STAR .....	
Hot Springs (HSP).....	LANNA J48 EMI CSN V140 MOL.....	
Houston (IAH) .....	(Turbojets) (IAH East Flow) LANNA J48 CSN FANPO Q40 AEX SKNRD (RNAV)--STAR .....	
Houston (HOU).....	(Turbojets) (IAH West Flow) LANNA J38 CSN FANPO Q40 AEX DOOBI (RNAV)--STAR .....	
Indianapolis (IND).....	(Turbojets) LANNA J48 CSN FANPO Q40 AEX WAPPL (RNAV)--STAR .....	
Ithaca (ITH).....	(Turbojets, max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO RINTE SNKPT (RNAV)--STAR .....	
Jacksonville (JAX) .....	(Turbojets, AOA FL260) ZIMMZ Q42 HIDON RINTE SNKPT (RNAV)--STAR .....	
Kansas City (MKC) .....	(Turbojets) NEION J223 CORDS CFB V423.....	
Keene (EEN) .....	(Turbojets only, GPS or DME/DME--IRU required) WHITE J209 SBY J79 CHS ESENT LUNNI (RNAV)--STAR .....	
Laconia (LCI) .....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR J80 SPI BRAYMER--STAR .....	
Lebanon (LEB) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
Lewisburg (LWB) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
Lexington (LEX) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
Los Angeles (LAX) .....	LANNA J48 EMI CSN V140 MOL.....	
Louisville (SDF) .....	PARKE J6 HVQ .....	
Manchester (MHT) .....	(RNAV Equipped Only) ZIMMZ Q42 MIKYG Q480 AIR J80 MCI J24 SLN J102 ALS J44 RSK J64 PGS RIIVR--STAR .....	
Marco Island (MKY).....	or (Non--RNAV equipped only, max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J80 MCI J24 SLN J102 ALS J44 RSK J64 PGS DOWNE--STAR.....	
	PARKE J6 HVQ J6 YOCKY DARBY--STAR .....	
	(Jets only) (FL190 and above) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)--STAR .....	1100-0300
	or (Props only) (FL190 and above) GREKI JUDDS MARTN EEN POPPP--STAR.....	1100-0300
	or (DME/DME/IRU or GNSS REQUIRED) (at or above FL190) GREKI JUDDS MARTN QUINZ ROZZE (RNAV)--STAR.....	
	(GPS or DME/DME--IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)--STAR .....	
	or <b>NE, 05 JAN 2017 to 02 MAR 2017</b>	

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Terminals	Route	Effective Times (UTC)
	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR.....	
Melbourne (MLB) .....	WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR .....	
Memphis (MEM) .....	(non RNAV) PARKE J6 BWG WLDER-STAR .....	
	or (RNAV only) PARKE J6 BWG BLUZZ (RNAV)- STAR .....	
Miami Metro Area (MIA, TMB, HST).....	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or (Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or (Turboprops) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY-STAR.....	
	or (Water-Turbojets) WHITE J209 SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS .....	
Milwaukee (MKE) .....	(RNAV Equipped Only) COATE Q436 RAAK Q438 RUBUY MKG V2 SUDDS .....	
Minneapolis (MSP) .....	GAYEL Q812 WOZEE NOSIK ZOHAN GRB EAU CLAIRE-STAR .....	
Mobile (MOB) .....	BIGGY J75 GVE J37 MGM MVC V20 AXSIS .....	
Montgomery (MGM) .....	BIGGY J75 GVE J37 .....	
Montreal (CYUL) .....	(DME/DME-IRU or GNSS Required) GREKI JUDDS CAM LATTI CARTER (CANADIAN RNAV)-STAR ..	1100-0300
Naples (APF) .....	(Turbojets-GPS or DME/DME-IRU equipped) BIGGY J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC SHFTY (RNAV)-STAR.....	
Nashua (ASH).....	(FL190 and above) GREKI JUDDS MARTN EEN .....	1100-0300
Nashville (BNA) .....	PARKE J6 YOCKY GUITR-STAR .....	
Norfolk (ORF) .....	WHITE J209 SBY V1 CCV .....	
Orlando (ORL).....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR .....	
	or (GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Orlando (MCO).....	(Turbojets) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR .....	
	or (Water-Turbojets) WHITE J209 SBY KEMPR ILM AR15 HIBAC APOLO ORL .....	
	or (GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Phoenix (PHX) .....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR J110 STL J19 ZUN EAGUL (RNAV)-STAR ....	
	or (Non-RNAV equipped only) (Max altitude FL280) NEWEL J60 DANNR RAV J64 J29 CASIO FYLLS J110 STL J19 ZUN BUNTR-STAR .....	

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Pittsburg Intl (PIT).....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 VINSE DEMME (RNAV)-STAR .....	
Pontiac (PTK) .....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXXIS GOHMA-STAR .....	
Portland (PWM).....	(FL180 and above) GREKI JUDDS CAM CDOGG (RNAV)-STAR .....	1100-0300
Portsmouth (PSM) .....	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
Richmond (RIC).....	WHITE J209 SBY V1 JAMIE.....	
Rochester (ROC) .....	(Turbojets) NEION J223 CORDS ULW V31 GIBBE ...	
Rockland (RKD).....	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300
	or	
	(FL190 and above) GREKI JUDDS CAM CON .....	1100-0300
Rutland (RUT) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
Salt Lake City (SLC) .....	GAYEL Q818 WOZEE Q935 HOCKE BAE DBQ J94 OCS NORDK (RNAV)-STAR .....	
Saranac Lake (SLK) .....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
Savannah (SAV).....	(Turbojets) WHITE J209 SBY J79 CHS .....	
St. Louis (STL).....	(RNAV equipped only) ZIMMZ Q42 MIKYG Q480 AIR J80 VHP AARCH (RNAV)-STAR .....	
	or	
	(Non-RNAV equipped only) (Max altitude FL280) NEWEL J60 DANNR RAV J64 CASIO FYLLS J80 VHP VANDALIA-STAR .....	
St. Petersburg (PIE).....	BIGGY J75 TAY LZARD-STAR.....	
Syracuse (SYR).....	(Turbojets) NEION J223 CORDS CFB V29.....	
Tampa (TPA) .....	BIGGY J75 TAY LZARD-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) BIGGY J75 TAY DADES (RNAV)-STAR.....	
Toledo (TOL).....	NEWEL J60 DJB VVW .....	
Toronto (CYYZ).....	GAYEL Q818 WOZEE LINNG (CANADIAN RNAV)-STAR .....	
Tri-City (TRI) .....	LANNA J48 CSN FANPO Q40 ALEAN .....	
Washington Dulles (IAD) .....	(RNAV only) PARKE HYPER (RNAV)-STAR.....	
Washington Natl (DCA).....	BIGGY J75 MXE V378 BAL .....	
	or	
	(GPS or DME/DME-IRU equipped) BIGGY J75 MXE CLIPR (RNAV)-STAR.....	
Waterville (WVL).....	(FL190 and above) GREKI JUDDS CAM.....	1100-0300
	or	
	(FL250 and above) MERIT HFD PUT BOS .....	1100-0300
West Palm Beach (PBI).....	(Water-Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN FRWAY-STAR.....	
	or	
	(Turbojets) WHITE J209 SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI-STAR.....	
	or	
	(Water-Turbojets) WHITE J209 SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	
Willow Run (YIP) .....	(Turbojet, Turboprop) GAYEL Q818 WOZEE COLTS BOREK LOPVO AXXIS GOHMA-STAR .....	
Winston/Salem (INT) .....	BIGGY J75 GSO .....	
Youngstown (YNG).....	NEWEL J60 PSB PSB292 DBEAM.....	
<b>NORFOLK (ORF)</b>		
Chicago O'Hare (ORD).....	MOL GEFFS J149 FWA KNOX-STAR .....	
	or	
	MOL GEFFS J149 ROD WATSN (RNAV)-STAR .....	
Cincinnati (CVG) .....	(at or above FL240) WAIKS ORF290 KELLE MOL130 MOL HNN090/50 HNN BRUSH-STAR..	
	or	
	(at or below FL220) WAIKS ORF290 KELLE MOL130 MOL HNN BRUSH-STAR .....	

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Terminals	Route	Effective Times (UTC)
	or (RNAV only—at or above FL240) WAIKS KELLE MOL HNN090/50 HNN GAVNN (RNAV)—STAR....	
	or (RNAV only—at or below FL220) WAIKS KELLE MOL HNN GAVNN (RNAV)—STAR.....	
Detroit Metro Wayne Co (DTW) .....	WAIKS ORF290 KELLE MOL130 MOL GEMNI—STAR.....	
Houston George Bush Intcntl (IAH) .....	(Turbojets—DME/DME/IRU or GPS) (IAH East Flow) VUZ MEI AEX SKNRD (RNAV)—STAR .....	
	or (Turbojets—DME/DME/IRU or GPS) (IAH West Flow) VUZ MEI AEX DOOBI (RNAV)—STAR .....	
	or (Turbojets and Turboprops—DME/DME/IRU or GPS) (IAH East Flow) SPA J37 SJI HKORY (RNAV)—STAR .....	
	or (Turbojets and Turboprops—DME/DME/IRU or GPS) (IAH West Flow) SPA J37 SJI GILLL (RNAV)—STAR .....	
Houston Hobby (HOU) .....	(Turbojets—DME/DME/IRU or GPS) VUZ MEI AEX WAPPL (RNAV)—STAR.....	
	or (Turbojets—DME/DME/IRU or GPS) (IAH East Flow) SPA J37 SJI BAYYY (RNAV)—STAR .....	
	or (Turbojets—DME/DME/IRU or GPS) (IAH West Flow) SPA J37 SJI PUCKS (RNAV)—STAR.....	
Islip (ISP) .....	SCHOL SBY200 J121 SARDI CCC.....	1100-0400
Kennedy (JFK) .....	SCHOL SBY 200 J121 SIE CAMRN—STAR.....	1100-0400
La Guardia (LGA) .....	HPW V213 PXT KORRY—STAR.....	1100-0300
Newark (EWR) .....	HPW HPW025 J14 PXT DYLIN—STAR .....	
	or (GPS or DME/DME—IRU equipped) HPW HPW025 J14 PXT BO (RNAV)—STAR .....	
Philadelphia (PHL) .....	SCHOL SBY200 V139 RADD S VCN—STAR .....	1100-0400
Teterboro (TEB) .....	HPW V213 PXT JAIKE—STAR.....	1100-0300
	or (non advanced navigation, turbojets only) WAIKS ORF290079 FAK BRV AML J227 J49 J70 LVZ LVZ—STAR .....	1100-0300
<b>PHILADELPHIA (PHL)</b>		
Albany (ALB) .....	(Turbojets) DITCH J225 HNNAH LGA TRUDE V487 CANAN .....	
Atlanta (ATL) .....	MXE MXE278 PENSY J48 ODF WHINZ—STAR .....	
	or (RNAV only) MXE PENSY J48 FLASK WINNG (RNAV)—STAR .....	
Boca Raton (BCT) .....	(Turbojets—E,/G,/R,/J,/L,/Q equipped) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN CAYSL (RNAV)—STAR .....	
	or (Turbojets—All Others) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI—STAR .....	
	or (Water—Turbojets—E,/G,/R,/J,/L,/Q equipped) OOD TEBEE HAYDO SBY J209 ORF KEMPR DIW AR19 AYBID CAYSL (RNAV)—STAR .....	
	or (Water—Turbojets—All Others) OOD TEBEE HAYDO SBY J209 ORF KEMPR DIW AR19 AYBID NEUBE SWOMP SANZZ CAYSL (RNAV)—STAR .....	
Boston (BOS) .....	(DME/DME—IRU or GNSS Required) DITCH J225 JFK ROBUC (RNAV)—STAR .....	1100-0300
Buffalo (BUF).....	PTW PTW320 SARAA J64 RAV RAV312 BUF162..	
Burlington (BTV) .....	(Turbojets North) DITCH J225 JFK J222 CAM .....	
Charleston (CHS).....	(Turbojets) OOD TEBEE HAYDO SBY J79 CHS .....	



Terminals	Route	Effective Times (UTC)
	or (GPS or DME/DME-IRU equipped) OOD TEBEE HAYDO SBY J79 BLAMO AMYLU (RNAV)-STAR...	
Charlotte (CLT) .....	MXE J75 GVE LYH MAJIC-STAR .....	
Chicago Midway (MDW) .....	PTW PTW320 SARAA RAV PSB J60 ASHEN BAGEL PANGG (RNAV)-STAR .....	
Chicago O'Hare (ORD) .....	(RNAV equipped) PTW PTW320 SARAA Q62 WATSN WATSN (RNAV)-STAR .....	0000-2359
	or (Advanced RNAV) PTW PTW320 SARAA Q62 WATSN WATSN (RNAV)-STAR .....	
Cincinnati (CVG) .....	(RNAV only) MXE PENSY J110 FLIRT J6 COLNS GAVNN (RNAV)-STAR .....	
	or (all others) MXE PENSY J110 FLIRT J6 COLNS BRUSH-STAR .....	
Cleveland (CLE) .....	PTW PTW320 SARAA J64 RAV PSB PSB292 YNG CHARDON-STAR .....	
Columbus (CMH) .....	MXE MXE278 PENSY J110 AIR BREMN-STAR .....	
Dallas-Fort Worth (DFW) .....	(RNAV Turbojets) (DFW South Flow) MXE MXE278 PENSY J110 FLIRT J6 LIT FEWWW SEEV (RNAV)-STAR .....	
	or (RNAV Turbojets) (DFW North Flow) MXE MXE278 PENSY J110 FLIRT J6 LIT FEWWW BRDJE (RNAV)-STAR .....	
	or (All others) MXE MXE278 PENSY J110 FLIRT J6 LIT FEWWW WILBR-STAR .....	
Dayton (DAY) .....	MXE MXE278 PENSY J110 AIR APE DANEI-STAR ..	
Denver (DEN) .....	(RNAV equipped) PTW PTW320 SARAA J64 RAV PSB J60 IOW J10 OBH KOHOE (RNAV)-STAR ....	
Detroit Metro-Wayne Co (DTW) .....	(Non-advanced Nav only) MXE MXE278 PENSY J110 LEJOY J518 DJB GEMNI-STAR .....	
	or (Advanced Nav) MXE PENSY J110 FLIRT BRNAN Q42 PSYKO KOZAR DJB GEMNI-STAR .....	
Detroit Satellites: Coleman A Young (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP) .....	PTW PTW320 SARAA J64 RAV PSB LLEE0-STAR ..	
Fort Lauderdale (FLL) .....	(Water-Turboprops-GPS or DME/DME-IRU equipped) OOD TEBEE HAYDO SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN FISEL (RNAV)-STAR .....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) OOD TEBEE HAYDO SBY KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or (Turbojets) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN GISSH-STAR .....	
	or (Water-Turboprops) OOD TEBEE HAYDO SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....	
	or (Water-Turbojets) OOD TEBEE HAYDO SBY KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....	
	or (Turbojets) OOD TEBEE HAYDO SBY J79 KATZN J193 J121 CHS J79 OMN MLB BLUFJ-STAR .....	
Fort Myers (FMY, RSW) .....	(GPS or DME/DME-IRU equipped) MXE J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Greensboro (GSO).....	(WATER-Turbojets) OOD TEBEE HAYDO SBY KEMP ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	0000-2359
Hot Springs (HSP).....	MXE J75 GVE LYH V222 HENBY .....	
Houston George Bush Intrcntl (IAH) .....	MXE MXE278 PENSY J48 MOL .....	0000-2359
	(Turbojets) (IAH East Flow) STOEN REEFI EMI J48 CSN FANPO Q40 AEX SKNRD (RNAV)-STAR .....	
	or	
Houston Hobby (HOU).....	(Turbojets) (IAH West Flow) STOEN REEFI EMI J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR .....	0000-2359
	(Turbojets-GPS or DME/DME-IRU or GPS) MOL J22 VUJ MEI AEX WAPPL (RNAV)-STAR .....	
Indianapolis (IND).....	(Turbojets) MXE278 PENSY J110 AIR J80 ZANOR RINTE SNKPT (RNAV)-STAR .....	0000-2359
	or	
	MXE PENSY J110 FLIRT BRNAN Q42 HIDON RINTE SNKPT (RNAV)-STAR .....	
Jacksonville (JAX).....	(Turbojets only, GPS or DME/DME-IRU required) OOD TEBEE HAYDO SBY J79 CHS ESENT LUNNI (RNAV)-STAR .....	0000-2359
	or	
Kansas City (MKC).....	MXE MXE278 J110 AIR J80 SPI BRAYMER-STAR .	0000-2359
Knoxville (TYS).....	STOEN REEFI EMI J48 CSN FANPO Q40 ALEAN VXV	
Lewisburg (LWB).....	MXE MXE278 PENSY J48 MOL V140 COVEY .....	0000-2359
Lexington (LEX).....	MXE MXE278 PENSY J110 LEJOY HVQ .....	
Louisville (SDF).....	MXE MXE278 PENSY J110 FLIRT J6 YOCKY DARB-STAR .....	0000-2359
	or	
Manchester (MHT).....	(DME/DME/IRU or GNSS REQUIRED)( North) DITCH J225 JFK SMYTH ROZZE (RNAV)-STAR .....	1100-0300
Marco Island (MKY).....	(GPS or DME/DME-IRU equipped) MXE J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
Memphis (MEM).....	(non RNAV) MXE MXE278 PENSY J110 FLIRT J6 BWG WLDER-STAR .....	1100-0300
	or	
	(RNAV only) MXE MXE278 PENSY J110 FLIRT J6 BWG BLUZZ (RNAV)-STAR .....	
Miami (MIA).....	(Water-Turbojets) OOD TEBEE HAYDO SBY KEMPR DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS .....	1100-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) OOD TEBEE HAYDO SBY KEMPR DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or	
	(Turbojets) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN ANNEY-STAR .....	1100-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or	
	(Turboprops) OOD TEBEE HAYDO SBY J79 KATZN J193 J121 CHS J79 OMN ANNEY-STAR .....	1100-0300
Milwaukee (MKE).....	PTW PTW320 SARAA J64 RAV PSB J60 DJB CRL PEGEE MKG V2 SUDDS.....	
Minneapolis (MSP).....	PTW PTW320 SARAA J64 RAV PSB J60 DJB J34 BAE EAU-STAR.....	1100-0300
Montreal (CYUL).....	(DME/DME-IRU or GNSS Required) DITCH J225 JFK CMK CAM LATTIS CARTER (CANADIAN RNAV)-STAR .....	
Naples (APF).....	(Turbojets-GPS or DME/DME-IRU equipped) MXE J75 GSO J75 DUNKN SHFTY (RNAV)-STAR .....	1100-0300
Nashville (BNA).....	MXE MXE278 PENSY J110 FLIRT J6 YOCKY GUIR-STAR .....	
New Orleans (MSY).....	STOEN REEFI EMI J48 CSN FANPO Q40 NIOLA MEI RYTHM-STAR.....	1100-0300
Newport News (PHF).....	OOD OOD198 SBY018 SBY VI CCV.....	
Orlando Executive (ORL).....	OOD OOD198 SBY018 SBY J79 KATZN J193 J121 CHS J79 OMN CORLL-STAR .....	1100-0300
Orlando Intl (MCO).....	OOD OOD198 SBY018 SBY J79 KATZN J193 J121 CHS J79 OMN BITHO-STAR .....	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
	or (Water–Turbojets) OOD TEBEE HAYDO SBY KEMPR ILM AR15 HIBAC APOLO ORL or (GPS or DME/DME–IRU equipped) OOD OOD198 SBY018 SBY J79 KATZN J193 J121 CHS J79 OMN CWRLD (RNAV)–STAR .....	1100–0400
Pittsburgh (PIT) .....	or (GPS or DME/DME–IRU equipped) OOD TEBEE HAYDO SBY KEMPR ILM AR15 HIBAC CWRLD (RNAV)–STAR .....	1100–0400
Portland (PWM) .....	MXE PENSJ J110 VINSE DEMME (RNAV)–STAR.... (GPS or DME/DME–IRU equipped) DITCH V312 JIMEY WAVEY CCC SCOGS (RNAV)–STAR .....	1100–0300
Providence (PVD) .....	DITCH V312 DRIFT J121 HTO JORDN–STAR ..... or (Turbojet, NonAdvanced Navigation) DITCH V312 DRIFT J121 HTO V268 MINNK .....	
Raleigh/Durham (RDU) .....	OOD OOD198 SBY018 SBY ARGAL–STAR..... or (RNAV equipped) OOD TEBEE HAYDO SBY KAROO (RNAV)–STAR .....	
Richmond (RIC) .....	OOD OOD198 SBY018 SBY V1 JAMIE .....	
Roanoke (ROA) .....	MXE MXE278 PENSJ J48 MOL .....	
Rochester (ROC) .....	PTW PTW320 SARAA J64 RAV RAV312 TYMAN J227 ULW V31 GIBBE .....	
San Francisco (SFO) .....	(Turbojet) PTW SARAA J64 HLC J80 OAL INYOE DYAMD (RNAV)–STAR .....	
Sarasota/Bradenton (SRQ) .....	MXE J75 TAY J85 GNV GNV174055 LAL .....	
Savannah (SAV) .....	ODD TEBEE HAYDO SBY J79 CHS .....	
St. Louis (STL) .....	MXE MXE278 PENSJ J110 VHP VLA–STAR .....	
St. Petersburg (PIE) .....	MXE J75 TAY LZARD–STAR.....	
Tampa (TPA) .....	MXE J75 TAY LZARD–STAR..... or (GPS or DME/DME–IRU equipped) MXE J75 TAY DADES (RNAV)–STAR .....	
Toronto (CYYZ) .....	(RNAV equipped) PTW SARAA J64 RAV PSB WOZEE LINNG (RNAV)–STAR .....	
West Palm Beach (PBI) .....	(Turbojets–GPS or DME/DME–IRU equipped) OOD TEBEE HAYDO SBY J79 KATZN J193 J121 CHS J79 OMN FRWAY (RNAV)–STAR ..... or (Turbojets) OOD TEBEE HAYDO SBY J79 KATZN ISO J121 CHS J79 OMN TUXXI–STAR ..... or (Water–Turbojets GPS or DME/DME–IRU equipped) OOD TEBEE HAYDO SBY KEMPR DIW AR19 AYBID FRWAY (RNAV)–STAR .....	
White Plains (HPN) .....	or (Water–Turbojets) OOD TEBEE HAYDO SBY KEMPR DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	
Windsor Locks (BDL) .....	DITCH V312 CYN BOUNO–STAR ..... (Turbojets North) DITCH J225 JFK DPK DPK–STAR .....	
<b>PITTSBURGH (PIT)</b>		
Atlanta Intl (ATL) .....	(RNAV only) AKSAR BURGS HVQ HLRRY PECHY (RNAV)–STAR ..... or (Non–RNAV only) AGC AGC225 BURGS HVQ J145 ODF WHINZ–STAR .....	
Baltimore/Washington Intl (BWI) .....	(RNAV Equipped) KEMAN ANTHM (RNAV)–STAR....	
Boston (BOS) .....	EWC WOMBT PIGGZ PONCT JFUND (RNAV)–STAR.	1100–0300
Charlotte (CLT) .....	(RNAV only) AHTIY BURGS HVQ LNDIZ PARQR (RNAV)–STAR .....	
Chicago Midway (MDW) .....	(RNAV Only) BSV MAYZE J60 ASHEN BAGEL PANGG (RNAV)–STAR .....	

Terminals	Route	Effective Times (UTC)
Chicago O'Hare (ORD) .....	(RNAV only) BSV WEEVR Q62 WATSN WATSN (RNAV)-STAR .....	
Fort Lauderdale (FLL) .....	(/E, /G, /R, /J, /L, /Q) CKB CKB197 COBBE PSK CAE J51 SAV J103 OMN FISEL (RNAV)-STAR .... or (all others) CKB CKB197 COBBE PSK CAE J51 SAV J103 OMN GISSH-STAR .....	
Indianapolis Intl (IND).....	MMJ DILNE TVT RINTE SNKPT (RNAV)-STAR .....	
Kennedy (JFK) .....	EWC WOMBT BFD HOXIE J70 LVZ LENDY-STAR ...	
Miami (MIA) .....	(/E, /G, /R, /J, /L, /Q) CKB CKB197 COBBE PSK CAE J51 SAV J103 OMN HILEY (RNAV)-STAR.... or (all others) CKB CKB197 COBBE CAE J51 SAV J103 OMN ANNEY-STAR.....	
Newark (EWR).....	EWC WOMBT PIGGZ SLT WILLIAMSPORT-STAR ....	
Philadelphia (PHL) .....	JST J152 HAR V210 BUNTS .....	
	or (RNAV only) JST BOJID (RNAV)-STAR .....	
Tampa (TPA).....	(RNAV only) CKB COBBE PSK CAE J75 TAY DADES (RNAV)-STAR .....	
Washington National (DCA) .....	(RNAV only) MGW BUCKO FRDMM (RNAV)-STAR..	
Windsor Locks (BDL) .....	(RNAV ONLY) EWC WOMBT PIGGZ RKA STELA-STAR .....	
<b>PORTLAND (PWM)</b>		
Chicago O'Hare (ORD) .....	(DME/DME-IRU or GNSS Required) HSKEL (RNAV)-DP CAM Q822 FNT WYNDE (RNAV)-STAR .....	1100-0300
Cincinnati (CVG) .....	(DME/DME-IRU or GNSS Required) HSKEL (RNAV)-DP CAM Q822 GONZZ JOSSY MAULL KODIE CTW TIGRR (RNAV)-STAR .....	1100-0300
Cleveland (CLE) .....	(DME/DME-IRU or GNSS Required) HSKEL (RNAV)-DP CAM Q822 GONZZ JOSSY HANGAR CXR CHARDON-STAR .....	1100-0300
Detroit Metro Wayne Co (DTW).....	(DME/DME-IRU or GNSS Required) HSKEL (RNAV)-DP CAM Q822 GONZZ BUF SPICA-STAR	1100-0300
La Guardia (LGA) .....	CON CAM ALB PWL IGN V157 .....	1100-0300
Minneapolis (MSP) .....	(DME/DME-IRU or GNSS Required) HSKEL (RNAV)-DP HANAA Q816 KELTI Q812 ZOHAN GRB EAU CLAIRE-STAR .....	1100-0300
Newark (EWR).....	(RNAV only) CON CAM ALB FLOSI (RNAV)-STAR....	
Philadelphia (PHL) .....	PSM WITCH CCC SHERL J121 BRIGS VCN-STAR ..	1100-0300
Pittsburgh (PIT).....	HSKEL (RNAV)-DP CAM ALB J49 HNK SLT HAYNZ (RNAV)-STAR .....	1100-0300
Washington Dulles (IAD) .....	(RNAV only) PSM WITCH GLYDE BAF HYPER-STAR .....	
	or (Turboprops) (AOB 220) CAM ALB HNK FQM LEGGO (RNAV)-STAR .....	1100-0300
<b>PROVIDENCE (PVD)</b>		
Atlanta (ATL) .....	(RNAV only) PUT BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR .....	
Baltimore (BWI) .....	(Turbojets only) PUT NELIE CMK J75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	
Boca Raton (BCT) .....	(Turbojets) JUMPR RIFLE J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
	or (Turbojets) JUMPR RIFLE J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or (Water-Turbojets) JUMPR RIFLE J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR or (Water-Turbojets) JUMPR RIFLE J174 SWL CEBEE WETRO DIW AR19 AYBID NEUBE SWOMP SANZZ CAYSL (RNAV)-STAR .....	
Chicago Midway (MDW).....	(DME/DME-IRU or GNSS Required) PUT CTR CAM Q822 GONZZ Q29 JHW DJB J60 ASHEN BAGEL PANGG (RNAV)-STAR.....	1100-0300

Terminals	Route	Effective Times (UTC)
Chicago O'Hare (ORD) .....	(Turbojets, DME/DME-IRU or GNSS Required) PUT CTR CAM Q822 FNT WYNDE (RNAV)-STAR.....	1100-0300
Cincinnati (CVG) .....	(All others) PUT CTR HNK J49 PSB MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
	or (RNAV Only) CTR HNK J49 PSB MAULL KODIE CTW TIGRR-STAR .....	
Denver Intl (DEN) .....	(DME/DME-IRU or GNSS Required) PUT CTR CAM ARNII Q816 HOCKE FNT J94 ONL ANCHR (RNAV)-STAR .....	1100-0300
Detroit Metro-Wayne Co (DTW) .....	(DME/DME-IRU or GNSS Required) PUT CTR CAM Q822 GONZZ BUF SPICA-STAR.....	1100-0300
Detroit Satellites		
Ann Arbor (ARB), Windsor (CYQG), Willow Run (YIP) .....	(DME/DME-IRU or GNSS Required) PUT CTR CAM Q822 GONZZ COLTS BOREK LOPVO AXXIS GOHMA (RNAV)-STAR .....	1100-0300
Pontiac (PTK) .....	(DME/DME-IRU or GNSS Required) PUT CTR CAM Q822 GONZZ COLTS BOREK LOPVO AXXIS SWWAN (RNAV)-STAR.....	1100-0300
Fort Lauderdale (FLL) .....	(Water-Turbojets) JUMPR RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR .....	1100-0300
	or (Turbojets) JUMPR RIFLE J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)-STAR .....	
	or (Turboprops) JUMPR RIFLE J174 ORF J121 CHS J79 OMN MLB BLUFI-STAR.....	
	or (Turbojets) JUMPR RIFLE J174 ORF ISO J121 CHS J79 OMN GISSH-STAR .....	
	or (Water-Turbojets) JUMPR RIFLE J174 SWI CEBEE WETRO ILM AR21 CRANS HILL FATHR GISSH-STAR .....	1100-0300
Fort Myers (RSW) .....	(Water-Turbojets) JUMPR RIFLE J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR..	1100-0300
La Guardia (LGA) .....	(Above 250 kts) PUT NELIE VALRE HAARP-STAR... or (250 kts or less) PUT BAF PWL V405 CASSH V123 HAARP .....	1100-0300
Miami (MIA) .....	(Water) JUMPR RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSSI MILSY BOYUR HILEY KAINS .....	
	or (Water) JUMPR RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or (Turbojets) JUMPR RIFLE J174 ORF ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or (Turbojets) JUMPR RIFLE J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or (Turboprops) JUMPR RIFLE J174 ORF J121 CHS J79 OMN ANNEY-STAR.....	
Minneapolis/St Paul (MSP) .....	(DME/DME-IRU or GNSS Required) PUT CTR CAM ARNII Q816 KELTI Q812 ZOHAN GRB EAU CLAIRE-STAR.....	1100-0300
Newark (EWR).....	PUT NELIE FLOSI (RNAV)-STAR.....	1100-0300
Orlando Executive (ORL) .....	JUMPR RIFLE J174 ORF J121 CHS J79 OMN CORLL-STAR.....	1100-0300
	or JUMPR RIFLE J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO).....	JUMPR RIFLE J174 ORF J121 CHS J79 OMN BITHO-STAR .....	1100-0300
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
	(Water-Turbojets) JUMPR RIFLE J174 SWL CEBEE WETRO ILM AR15 HIBEC APOLO ORL.....	
	or	
	(Turbojets) JUMPR RIFLE J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR.....	1100-0400
	or	
Philadelphia (PHL) .....	(Water-Turbojets) JUMPR RIFLE J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR JUMPR SHLEP J121 PLUME V139 BRIGS VCN-STAR .....	1100-0400 1100-0300
Pittsburgh (PIT).....	PUT CTR HNK KONJE SLT HAYNZ (RNAV)-STAR ...	1100-0300
Raleigh-Durham (RDU) .....	JUMPR RIFLE J174 SWL KAROO (RNAV)-STAR ....	1100-0300
St. Louis (STL).....	(RNAV only) PUT BAF Q480 AIR J110 VHP AARCH (RNAV)-STAR .....	1100-0300
Tampa (TPA).....	PUT NELIE CMK J75 TAY LZARD-STAR .....	1100-0300
	or	
Washington Dulles (IAD) .....	PUT NELIE CMK J75 TAY DADES (RNAV)-STAR..... (RNAV Only) PUT BAF HYPER (RNAV)-STAR .....	1100-0300
	or	
Washington Natl (DCA) .....	(Turboprops Only) (AOB220) PUT BAF SAGES LAAYK MIP SEG LEGGO (RNAV)-STAR .....	1100-0300
	JUMPR RIFLE J174 ZIZZI ATR V308 BILIT .....	1100-0300
	or	
West Palm Beach (PBI).....	(Turbojet) JUMPR RIFLE J174 ZIZZI ATR LAFLN DEALE (RNAV)-STAR .....	1100-0300
	(Turbojets) JUMPR RIFLE J174 ORF ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR.....	1100-0300
	or	
	(Turbojets) JUMPR RIFLE J174 ORF ISO CHS J79 OMN TUXXI-STAR.....	
	or	
	(Water) JUMPR RIFLE J174 SWL CEBEE WETRO DIW AR19 AYBIB FRWAY (RNAV)-STAR .....	1100-0300
	or	
	(Water-Turbojets) JUMPR RIFLE J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	1100-0300
<b>READING (RDG)</b>		
Detroit Metro Wayne Co (DTW).....	KIPPI J80 J518 DJB GEMNI-STAR .....	
<b>RICHMOND (RIC)</b>		
Greer (GSP) .....	(Turbojets) KALLI (RNAV)-DP LYH GMONY WAMUR JUNNR JUNNR (RNAV)-STAR.....	1100-0300
Houston George Bush Intrcntrl (IAH).....	(IAH East Flow) KALLI (RNAV)-DP LYH PSK ALEAN Q40 AEX SKNRD (RNAV)-STAR.....	
	or	
	(IAH West Flow) KALLI (RNAV)-DP LYH PSK ALEAN Q40 AEX DOOBI (RNAV)-STAR.....	
Houston Hobby (HOU).....	KALLI (RNAV)-DP LYH PSK ALEAN Q40 AEX WAPPL (RNAV)-STAR .....	
<b>ROANOKE (ROA)</b>		
Detroit Metro Wayne Co (DTW) .....	BKW GEMNI-STAR.....	
<b>ROCHESTER (ROC)</b>		
Baltimore/Washington Intl (BWI) .....	(Turbojets) KUBFA IZZEE TRISH (RNAV)-STAR .....	
Boston (BOS) .....	BEEPS PONCT JFUND (RNAV)-STAR .....	1100-0300
Cleveland (CLE) .....	GEE V119 BURST BFD CHARDON-STAR .....	
Detroit Metro Wayne County (DTW).....	AIRCO BUF MOAWK YQO YQO269 SPICA SPICA-STAR .....	
Kennedy (JFK) .....	(DME/DME-IRU or GNSS Required) BEEPS Q140 YODAA IGN KINGSTON-STAR .....	1100-0300
La Guardia (LGA) .....	(Turbojet) AUDIL RKA HAARP-STAR.....	1100-0300
Newark (EWR).....	(DME/DME-IRU or GNSS Required) BEEPS Q140 KODEY HNK FLOSI (RNAV)-STAR .....	1100-0300
Washington National (DCA) .....	(RNAV only) GEE ETG PSB SKILS (RNAV)-STAR....	
<b>STATE COLLEGE (UNV)</b>		
Detroit Metro Wayne Co (DTW).....	PSB ERI SPICA-STAR .....	
<b>SYRACUSE (SYR)</b>		

Terminals	Route	Effective Times (UTC)
Cincinnati (CVG) .....	(RNAV only) SYR DINES MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
	or	
	(all others) SYR V483 DINES GEE GEE204 KELIE SLT013 SLT SLT249 KODIE CTW081 CTW CINCE-STAR .....	
Detroit Satellites: Young (DET), Pontiac (PTK), Windsor (CYQG), Ann Arbor (ARB), Willow Run (YIP) .....	BUF YXU PICES-STAR .....	
	or	
	BUF YXU GOHMA-STAR .....	1100-0300
	or	
	BUF YXU SWWAN-STAR .....	1100-0300
<b>TORONTO (CYYZ)</b>		
Atlanta (ATL) .....	BETES (RNAV)-DP FOXEE Q145 HVQ HLRRY PECHY (RNAV)-STAR .....	
Boston (BOS) .....	KEPTA (RNAV)-DP BMPAH AEVON HANKK Q935 PONCT JFUND (RNAV)-STAR .....	1100-0300
Cincinnati (CVG) .....	MIXUT (RNAV)-DP GNTRY APE TIGRR (RNAV)-STAR	
La Guardia (LGA) .....	KEPTA (RNAV)-DP BMPAH AEVON AUDIL RKA HAARP-STAR .....	
San Francisco (SFO) .....	GOPUP (RNAV)-DP HOCKE BAE J16 MCW J148 OAL INYOE DYAMD (RNAV)-STAR .....	
<b>WASHINGTON/BALTIMORE METRO AREA (DCA, BWI, IAD)</b>		
From <b>BALTIMORE (BWI)</b> only		
Albany (ALB) .....	SWANN-DP OOD J42 RBV LGA LGA055 V487 CANAN .....	1100-0300
Ann Arbor (ARB) .....	(Turbojets) TERPS (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO-STAR .....	
Asheville (AVL) .....	(Turbojets) TERPS (RNAV)-DP MAULS FEEDS SUG (Turbojets) TERPS (RNAV)-DP FLASK WINNING (RNAV)-STAR .....	1100-0400 1100-0300
Atlanta (ATL) .....	(Turbojets) TERPS (RNAV)-DP JERES J227 BABEE CFB .....	1100-0300
Birmingham (BGM) .....	(Turbojets) TERPS (RNAV)-DP MAULS Q40 NIOLA VUZ .....	1100-0300
Birmingham-Shuttlesworth (BHM) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .....	
Boca Raton (BCT) .....	or	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
	or	
	(Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXI-STAR .....	
Boston (BOS) .....	(Prop Only) PALEO-DP SEI J121 HTO V308 ORW V16 WOONS .....	
Bridgeport (BDR) .....	PALEO-DP SIE J121 MAD193 KEYED .....	1100-0300
Buffalo (BUF) .....	JERES (RNAV)-DP JERES J220 SFK .....	1100-0300
Charleston (CHS) .....	(GPS or DME/DME-IRU) DAILY J61 HUBBS J193 WEAVR J121 ISO AMYLU (RNAV)-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM FKN J79 BLAMO AMYLU (RNAV)-STAR .....	
	or	
	(Military RNAV turbojets) DAILY J61 HUBBS J193 WEAVR J121 ISO RSRVE (RNAV)-STAR .....	1100-0300
Chattanooga (CHA) .....	(Turbojets) TERPZ (RNAV)-DP MAULS Q40 ALEAN VXV .....	1100-0300
Cleveland (CLE) .....	(Turbojets) TERPZ (RNAV)-DP JERES J211 YNG CXR	
Chicago (MDW) .....	(Turbojets) TERPZ (RNAV)-DP (RNAV)-DP RAMAY Q72 HACKS J149 FWA PANGG-STAR .....	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Chicago (ORD) .....	(Turbojets) TERPZ (RNAV)–DP RAMAY Q72 HACKS J149 ROD WATSN (RNAV) STAR..... (RNAV Turbojets) TERPS (RNAV)–DP OTTO COLNS GAVNN.....	0000-2359
Cincinnati (CVG).....	(Turbojets) TERPZ (RNAV)–DP RAMAY Q72 HACKS APE.....	
Columbus (CMH).....	(Turbojet) (DFW South Flow) RNLDI (RNAV)–DP OTTTO Q80 FAREV BWG J6 LIT FEWWWW SEEVR (RNAV)–STAR .....	
Dallas-Forth Worth (DFW) .....	or (Turbojet) (DFW North Flow) RNLDI(RNAV)–DP OTTTO Q80 FAREV BWG J6 LIT FEWWWW BRDJE (RNAV)–STAR .....	
	or LDN J134 COLNS J6 HVQ J6 LIT WILBR (RNAV)–STAR.....	
Dayton (DAY) .....	BUNZZ (RNAV)–DP RAMAY Q72 HACKS APE DANEI–STAR .....	1100–0400
Denver (DEN) .....	(TURBOJET) RNLDI(RNAV)–DP OTTTO HNN J134 STL J110 GCK J154 RYLIE DANDD—STAR .....	1100–0300
	or LDN J134 STL J110 GCK J154 RYLIE DANDD (Turbojets) TERPS (RNAV)–DP JERES J211 HAGUD J60 DJB LLEO–STAR .....	1100-0300
Detroit (DET).....	(Turbojets) TERPS (RNAV)–DP JERES J211 HAGUD J60 DJB LLEO–STAR .....	
Fort Lauderdale (FLL, FXE, OPF) .....	(Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN GISSH–STAR .....	
	or (Water–Turboprops) V93 PXT V213 COLIN HCM ILM AR21 CRANS HILL FATHR GISSH–STAR .....	
	or (Turbojets–GPS or DME/DME–IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN FISEL (RNAV)–STAR .....	
	or (Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN GISSH–STAR .....	
	or (Water–Turboprops–GPS or DME/DME–IRU equipped) V93 PXT V213 COLIN HCM ILM AR21 CRANS FISEL (RNAV)–STAR .....	
	or (Water–Turbojets–GPS or DME/DME–IRU equipped) DAILY J61 HUBBS KEMPR ILM AR21 CRANS FISEL (RNAV)–STAR .....	
	or (Water–Turbojets) DAILY J61 HUBBS KEMPR ILM AR21 CRANS HILL FATHR GISSH–STAR .....	
Fort Myers (FMY) ONLY.....	(RNAV Turbojets) BULRN (RNAV)–DP GSO J75 DUNKN SHFTY (RNAV)–STAR .....	
Fort Myers (FMY, RSW) .....	(Turbojets) TERPZ (RNAV)–DP GSO J75 DUNKN SHFTY (RNAV)–STAR.....	
	or (WATER–Turbojets) CONLE (RNAV)–DP COLIN J61 HUBBS KEMPR ILM AR15 HIBAC SHFTY (RNAV)–STAR .....	
Fort Wayne (FWA).....	(Turbojets) TERPZ (RNAV)–DP RAMAY Q72 HACKS J149 FWA.....	1100-0300
Greer (GSP) .....	(Turbojets) TERPZ (RNAV)–DP LYH GMONY WAMUR JUNNR JUNNR (RNAV)–STAR .....	1100–0300
Hartford (HFD).....	SWANN–DP OOD J42 RBV J222 JFK DPK MAD V1 (Turbojets) BULRN (RNAV)–DP MAULS Q40 AEX WAPPL–STAR.....	1100–0300
Houston (HOU).....	(Turbojets) BULRN (RNAV)–DP MAULS Q40 AEX WAPPL–STAR.....	1100-0300
Houston (IAH).....	(Turbojets) (IAH EAST FLOW) BULRN (RNAV)–DP MAULS Q40 AEX SKNRD–STAR.....	1100-0300
	or (Turbojets) (IAH WEST FLOW) BULRN (RNAV)–DP MAULS Q40 AEX DOOBI–STAR .....	1100-0300
Indianapolis (IND) .....	(Turbojets) BUNZZ (RNAV)–DP RAMAY Q72 HACKS PLASH SNKPT (RNAV)–STAR .....	



## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Islip (ISP).....	PALEO-DP SIE J121 SARDI CCC .....	1100-0300
Jacksonville (JAX) .....	(Turbojets only, GPS or DME/DME-IRU required) DAILY J61 HUBBS J193 WEAVER J121 CHS ESENT LUNNI (RNAV)-STAR .....	
Kansas City (MCI) .....	(Turbojet) RNLDI (RNAV)-DP OTTTO COLNS J134 HNN J134 STL MCM BRAYMER-STAR .....	1100-0300
Knoxville (TYS).....	(Turbojets) TERPZ (RNAV)-DP MAULS Q40 ALEAN VXV .....	1100-0300
Louisville (SDF) .....	(Turbojet) TERPZ (RNAV)-DP OTTTO Q68 HVQ J6 UNCKL DARBY-STAR .....	
Memphis (MEM) .....	(Turbojet) TERPZ (RNAV)-DP OTTTO Q80 FAREV BWG BLUZZ (RNAV)-STAR .....	
Miami (MIA, TMB, HST) .....	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN HILEY (RNAV)-STAR .....	
	or	
	(Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR22 JORAY HILEY (RNAV)-STAR.....	
	or	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR22 JORAY OSOGY ENVOY YOSS MILSY BOYUR HILEY KAINS .....	
	or	
	(Turboprops) BAL V93 PXT V213 COLIN HCM J193 WEAVR J121 CHS J79 OMN ANNEY-STAR.....	
	or	
	(Water-Turboprops-GPS or DME/DME-IRU equipped) V93 PXT V213 COLIN HCM J193 CVI DIW AR22 JORAY HILEY (RNAV)-STAR.....	
	or	
	(Water-Turboprops) V93 PXT V213 COLIN HCM J193 CVI DIW AR22 JORAY OSOGY ENVOY YOSS MILSY BOYUR HILEY KAINS .....	
Milwaukee (MKE).....	(Turbojets) TERPS (RNAV)-DP MCRAY J518 DJB J34 ALPHE J70 PMM V170 BRAVE.....	
	(Turbojets) TERPS (RNAV)-DP MCRAY J518 DJB J34 V10 KAMA KKILR (RNAV)-STAR .....	
Minneapolis-St. Paul (MSP).....	(RNAV only) TERPZ (RNAV)-DP OTTTO Q68 HVQ J6 YOCKY GUITR-STAR .....	1100-0300
Nashville (BNA) .....	(Turbojets) JERES JERES J220 SFK.....	1100-0300
New Orleans (MSY).....	SWANN-DP V445 DQO DYLIN-STAR.....	1100-0300
Newark (EWR).....	or	
	(GPS or DME/DME IRU equipped) SWANN-DP V445 DQO PHLBO (RNAV)-STAR .....	1100-0300
Orlando Executive (ORL) .....	(GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO).....	(Turbojets) CONLE (RNAV)-DP COLIN J61 HUBBS J193 WEAVER J121 CHS J79 OMN CWRLD (RNAV)-STAR .....	
	or	
	(Turbojets) CWRLD (RNAV)-STAR CONLE (RNAV)-DP COLIN J61 HUBBS KEMPR ILM AR15 HBAC CWRLD (RNAV)-STAR .....	1100-0400
	or	
	WHINO COLIN J61 HUBBS J193 WEAVER J121 CHS J79 OMN BITHO (RNAV)-STAR .....	1100-0300
Phoenix Sky Harbor (PHX) .....	(Turbojet) TERPZ(RNAV)-DP OTTTO COLNS J134 HNN J134 LBL J19 ZUN EAGUL (RNAV)-STAR...	1100-0300
Pittsburgh (PIT).....	TERPZ (RNAV)-DP IHD MCRAY DEMME(RNAV)-STAR	
Pontiac (PTK).....	(Turbojets) TERPZ (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO-STAR .....	
Providence (PVD).....	SWANN-DP OOD J42 RBV HTO GREEN-STAR .....	1100-0400
	or	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Rochester (ROC)	(Turbojets, Non-Advanced Nav only) SWANN-DP OOD J42 RBV HTO V268 MINNK	1100-0400
Saint Thomas (CYQS)	(Turbojets) TERPZ (RNAV)-DP JERES J220 MICAH J227 ULW V31 GIBBE	1100-0300
Sarasota (SRQ)	(Turbojet) TERPZ (RNAV)-DP GSO J75 TAY TRAPR (RNAV)-STAR	
Savannah (SAV)	(Turbojets) CONLE (RNAV)-DP COLIN J61 HUBBS J193 HCM FKN J79 CHS	
St. Louis (STL)	(Turbojet) TERPZ (RNAV)-DP OTTTO COLNS J134 HNN J134 FLM PXV QBALL-STAR	
Syracuse (SYR)	(Turbojet) TERPZ (RNAV)-DP JERES J227 BABEE CFB	
Tampa (TPA)	(Turbojets) TERPZ (RNAV)-STAR GSO J75 TAY DADES	1100-0300
Teterboro (TEB)	(Turbojets,) SWANN (RNAV)-DP FUBRR JAIKE (RNAV)-STAR	1100-0300
West Palm Beach (PBI)	(Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR	1100-0300
	or	
	(Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR	1100-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU equipped) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR	
	or	
	(Water-Turbojets) DAILY J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI	
White Plains (HPN)	SWANN-DP OOD J150 CYN BOUNO-STAR	1100-0300
Willow run (YIP)	(Turbojets) TERPZ (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO	
Windsor Locks (BDL)	SWANN-DP OOD J42 RBV J222 JFK DPK-STAR	1100-0300
From <b>WASHINGTON DULLES (IAD)</b> only		
Albany (ALB)	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP SWANN BROSS J42 RBV LGA TRUDE V487 CANAN	1100-0400
Asheville (AVL)	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 FEEDS SUG	1100-0400
Atlanta (ATL)	(Turbojets) CLTCH (RNAV)-DP FLASK WINNG (RNAV)-STAR	
Binghamton (BGM)	(Turbojets) JERES (RNAV)-DP JERES J227 BABEE CFB	1100-0300
Birmingham (BHM)	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 NIOLA VUZ	1100-0300
Boca Raton (BCT)	(Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR	
	or	
	(Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR	
	or	
	(Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI CAYSL (RNAV)-STAR	
	or	
	(Water-Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL	
Boston (BOS)	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP SWANN BROSS J42 RBV J222 JFK ROBUC (RNAV)-STAR	1100-0300
Bridgeport (BDR)	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP AGARD SIE J121 MANTA RICED KEYED	1100-0400

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Charleston (CHS) .....	(Turbojets) JDUBB (RNAV)-DP GSO OSPRI (RNAV)-STAR .....	
	or	
	(Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS J193 HCM FKN J79 BLAMO AMYLU (RNAV)-STAR or	
	(Military RNAV) (Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS J193 WEAVR J121 ISO RSRVE (RNAV)-STAR .....	1100-0300
Chattanooga (CHA).....	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 ALEAN VXV.....	1100-0300
Chicago (MDW) .....	AML J149 FWA PANGG (RNAV)-STAR .....	
Chicago (ORD).....	BUNZZ(RNAV)-DP RAMAY Q72 HACKS J149 ROD WATSN (RNAV)-STAR .....	
Cincinnati (CVG).....	(Turbojets) RNLDI (RNAV)-DP OTTTO COLNS GAVNN (RNAV)-DP.....	
Cleveland (CLE).....	(Turbojets) JERES (RNAV)-DP JERES J227 BABEE CFB.....	1100-0300
Columbus (CMH).....	(Turbojets) BUNZZ (RNAV)-DP RAMAY Q72 HACKS APE.....	
Detroit (DET).....	(Turbojets) JERES (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO-STAR.....	
Fort Wayne (FWA).....	(Turbojets) BUNZZ (RNAV)-DP RAMAY Q72 HACKS J49 FWA.....	1100-0300
Dallas-Fort Worth (DFW).....	(Turbojet) (DFW South Flow) RNLDI (RNAV)-DP OTTTO Q80 FAREV BWG J6 LIT FEWWWW SEEVR (RNAV)-STAR .....	
	or	
	(Turbojet) (DFW North Flow) RNLDI (RNAV)-DP J6 LIT FEWWWW BRDJE (RNAV)-STAR.....	
	or	
	(All others) LDN J134 COLNS J6 HVQ J6 LIT WILBR-STAR .....	
Dayton (DAY).....	AML J149 HACKS APE DANEI-STAR .....	1100-0400
Denver (DEN) .....	(RNAV only) BLUES LDN J134 HNN J134 STL J110 GCK J154 RYLIE DANDD-STAR .....	1100-0300
	or	
	LDN J134 HNN J134 STL J110 GCK J154 RYLIE DANDD-STAR .....	1100-0300
Fort Lauderdale (FLL) .....	(Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN FISEL (RNAV)-STAR .....	
	or	
	(Jets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN GISSH-STAR .....	
	or	
	(Turboprops) DAILY J61 HUBBS J193 J121 CHS J79 VRB BLUFI-STAR .....	
	or	
	(Turboprops-Water) CSN V140 MOL.....	
	or	
	(Water-Turboprops) DAILY J61 HUBBS KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....	
	or	
	(Water-Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
	or	
	(Water-Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS KEMPR ILM AR21 CRANS HIILL FATHR GISSH-STAR .....	
Fort Myers (FMY) .....	(Turbojets) JDUBB (RNAV)-DP GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
Fort Myers (RSW) .....	(Turbojets) JDUBB (RNAV)-DP GSO J75 DUNKN SHFTY (RNAV)-STAR .....	
	or	
	(Turbojets-Water) (Part 121 only) JCOBY(RNAV)-DP COLIN J61 HUBBS KEMPR WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Greer (GSP) .....	(Turbojets) SCRAM (RNAV)–DP LYH GMONY WAMUR JUNNR JUNNR (RNAV)–STAR .....	1100–0300
Hartford (HFD).....	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)–DP SWANN BROSS J42 RBV J222 JFK DPK MAD V1 .....	1100–0300
Houston George Bush Intcntl (IAH).....	(Turbojets) (IAH East Flow) CLTCH (RANV)–DP MAULS Q40 AEX SKNRD (RNAV)–STAR .....	1100–0300
	or	
	(Turbojets) (IAH West Flow) CLTCH (RANV)–DP MAULS Q40 AEX DOOBI (RNAV)–STAR .....	1100–0300
Houston Hobby (HOU).....	(Turbojets) CLTCH (RANV)–DP MAULS Q40 AEX WAPPL(RNAV)–STAR .....	1100–0300
Islip (ISP) .....	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)–DP AGARD SIE J121 SARDI CCC.....	1100–0400
Jacksonville (JAX).....	(Turbojets) JCOBY (RNAV)–DP COLIN J61 HUBBS J193 WEAVR J121 CHS ESENT LUNNI (RNAV)–STAR .....	
Kansas City (MCI) .....	(Turbojets) RNLDI (RNAV)–STAR OTTTO COLNS J134 HNN J134 STL MCM BRAYMER–STAR .....	1100–0300
Knoxville (TYS).....	(Turbojets) CLTCH (RNAV)–DP MAULS Q40 ALEAN VXX.....	1100–0300
Louisville (SDF) .....	(Turbojets) RNLDI(RNAV)–DP OTTTO Q68 HVQ J6 UNCKL DARBY–STAR .....	1100–0300
Memphis (MEM) .....	(RNAV only) BLUES LDN J134 COLNS J6 HVQ J6 BWG BLUZZ (RNAV)–STAR .....	
	or	
	(non RNAV) LDN J134 COLNS J6 HVQ J6 BWG WLDER–STAR.....	
Miami (MIA) .....	(Turbojets) COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN ANNEY–STAR.....	
	or	
	(Turbojets) JCOBY (RNAV)–DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN HILEY (RNAV)–STAR .....	
	or	
	(Turbojets) (Water) JCOBY (RNAV)–DP COLIN J61 HUBBS KEMPR WETRO DIW AR22 JORAY OSOGY AMZAR STAPL MILSY BOYUR HILEY KAINS .....	
	or	
	(Turbojets) (Water) JCOBY (RNAV)–DP COLIN J61 HUBBS KEMPR WETRO DIW AR22 JORAY HILEY (RNAV)–STAR .....	
	or	
	(Turboprops) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN ANNEY (RNAV)–STAR.....	
Milwaukee (MKE).....	(Turbojets) MCRAY (RNAV)–DP MCRAY J518 DJB J34 ALPHE J70 PMM V170 BRAVE.....	
Minneapolis-St. Paul (MSP).....	(Turbojets) MCRAY (RNAV)–DP MCRAY J518 DJB J34 VIO KAMMA KKILR (RNAV)–STAR .....	
Nashville (BNA).....	(Turbojets) RNLDI (RNAV)–DP OTTTO Q68 HVQ J6 YOCKY GROAT PASLY (RNAV)–STAR.....	1100–0300
Newark (EWR).....	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)–DP SWANN V445 DQO PHLBO (RNAV)–STAR .....	1100–0400
New Orleans (MSY).....	(Turbojets) CLTCH (RNAV)–DP MAULS Q40 NIOLA MEI RYTHM-STAR.....	1100–0300
Orlando Executive (ORL) .....	(Turbojets) JCOBY (RNAV)–DP COLIN J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD (RNAV)–STAR .....	1100–0400
Orlando Intl (MCO) .....	(Turbojets) JCOBY (RNAV)–DP COLIN J61 HUBBS J193 WEAVR J121 CHS J79 OMN CWRLD (RNAV)–STAR .....	1100–0400
	or	
	(Turbojets) (Part 121 only) JCOBY (RNAV)–DP COLIN J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD (RNAV)–STAR .....	1100–0400
	or	
	(Turbojets) (Part 121 only) COLIN J61 HUBBS J193 WEAVR J121 CHS J79 OMN BITHO–STAR.....	1100–0300
Philadelphia (PHL) .....	(Turbojets) DOCTR AGARD DQO .....	

## PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Phoenix (PHX) .....	(Turbojets) RNLDI(RNAV)-DP OTTTO COLNS J134 HNN J134 LBL J19 ZUN EAGUL(RNAV)-STAR....	1100-0300
Providence (PVD) .....	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP SWANN BROSS J42 RBV HTO JORDN (RNAV)-STAR .....	1100-0400
	or	
	(Turbojets, Non-Advanced Navigation) SWANN V268 BROSS J42 RBV HTO V268 MINNK .....	1100-0400
Raleigh-Durham (RDU) .....	(Turbojets) JDUBB (RNAV)-DP SBV ALDAN (RNAV)-STAR.....	1100-0300
Sarasota (SRQ).....	(Turbojet) JDUBB (RNAV)-DP GSO J75 TAY TRAPR (RNAV)-STAR.....	
Savannah (SAV) .....	(Turbojets) COLIN J61 HUBBS J193 HCM FKN J79 CHS.....	
St. Louis (STL) .....	(Turbojets) RNLDI (RNAV)-DP OTTTO COLNS J134 FLM PXV QBALL-STAR.....	1100-0300
Tampa (TPA).....	(Turbojets) JDUBB (RNAV)-DP GSO J75 TAY DADES (RNAV)-STAR.....	1100-0300
Teterboro (TEB).....	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP SWANN FUBRR JAIKE (RNAV)-STAR	1100-0300
	or	
	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP SWANN FUBRR JAIKE (RNAV)-STAR	1100-0300
West Palm Beach (PBI).....	(Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR .....	
	or	
	(Turbojets) COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or	
	(Turbojets) (Water) JCOBY (RNAV)-DP COLIN J61 HUBBS KEMPR WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR .....	
	or	
	(Water-Turbojets) JCOBY (RNAV)-DP COLIN J61 HUBBS KEMPR WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI .....	
White Plains (HPN).....	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP SWANN BROSS J150 CYN BOUNO-STAR .....	1100-0400
Willow Run (YIP) .....	(Turbojets) JERES (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO-STAR.....	
Windsor (YQG).....	(Turbojets) JERES (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO-STAR .....	
Windsor Locks (BDL).....	(Turbojets) (Part 121 and 129 only) JCOBY (RNAV)-DP SWANN BROSS J42 RBV J222 JFK DPK DEER PARK-STAR .....	1100-0400
From <b>WASHINGTON NATL (DCA)</b> only		
Albany (ALB) .....	SOOKI SWANN BROSS J42 RBV LGA V487 CANAN	
Ann Arbor (ARB).....	(Turbojets) HORTO (RNAV)-DP JERES J211 HAGUD J60 DJB LLEEO-STAR.....	
Asheville (AVL).....	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 FEEDS SUG .....	1100-0400
Atlanta (ATL).....	(Turbojets) CLTCH (RNAV)-DP FLASK WINNG (RNAV)-STAR.....	1100-0300
Binghamton (BGM).....	HORTO (RNAV)-DP JERES J227 BABEE CFB.....	1100-0300
Birmingham (BHM).....	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 NIOLA VUZ.....	1100-0300
Boca Raton (BCT) .....	(Turbojets) DIXE (RNAV)-DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
	or	
	(Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or	
	(Turbojets-Water) DIXE(RNAV)-DP COLIN J61 HUBBS KEMPR WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .....	

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Boston (BOS).....	DOCTR (RNAV)-DP AGARD V44 SIE J121 HTO V308 ORW V16 WOONS ..... or (Turbojets) SOOKI SWANN BROSS J42 RBV J222 JFK ROBUC-STAR ..... or (Props) PALEO-DP SIE J121 HTO V308 ORW V16 WOONS .....	1100-0300
Bridgeport (BDR).....	(Turbojets) DOCTR(RNAV)-DP AGARD V44 SIE J121 SARDI KEYED .....	1100-0400
Buffalo (BUF).....	HORTO(RNAV)-DP JERES J220 SFK .....	1100-0300
Charleston (CHS).....	(Turbojets) WHINO COLIN J61 HUBBS J193 WEAVR J121 CHS .....	
	or (Turbojets) BOOCK (RNAV)-DP COLIN J61 HUBBS J193 WEAVR J121 ISO AMYLU (RNAV)-STAR .... or (Turbojets) DIXXE(RNAV)-DP COLIN J61 HUBBS J193 HCM FKN J79 BLAMO AMYLU (RNAV)-STAR .....	
	or (Military RNAV turbojets) DIXXE(RNAV)-DP COLIN J61 HUBBS J193 WEAVR J121 ISO RSRVE (RNAV)-STAR .....	1100-0300
Chattanooga (CHA).....	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 ALEAN VXV.....	1100-0300
Chicago (MDW).....	WYNGS(RNAV)DP RAMAY Q72 HACKS J149 FWA PANGG (RNAV)-STAR.....	
Chicago (ORD).....	(Turbojets) WYNGS(RNAV)-DP RAMAY Q72 HACKS J149 ROD WATSN (RNAV)-STAR .....	
Dallas-Fort Worth (DFW).....	(RNAV Turbojet) (DFW South Flow) REBLL OTTTO Q80 FAREV BWG J6 LIT FEWWWW SEEVR (RNAV)-STAR .....	
	or (RNAV Turbojet) (DFW North Flow) REBLL OTTTO Q80 FAREV BWG J6 LIT FEWWWW BRDJE (RNAV)-STAR .....	
	or (All others) LDN J134 COLNS J6 HVQ J6 LIT WILBR-STAR .....	
Dayton (DAY).....	WYNGS RAMAY Q72 HACKS APE .....	1100-0400
Denver (DEN).....	REBLL(RANV)-DP OTTTO COLNS J134 HNN J134 STL J110 GCK J154 RYLIE DANDD-STAR .....	1100-0300
Farmingdale (FRG).....	(Turbojets) (AOA 180) DOCTR (RNAV)-DP AGARD V44 SIE CAMRN .....	
Fort Lauderdale (FLL).....	(Turbojets) DIXXE(RANV)-DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN FISEL (RNAV)-STAR .....	
	or (Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN GISSH-STAR .....	
	or (Turbojets) WHINO COLIN J61 HUBBS J193 WEAVR J121 CHS J79C OMN MLB BLUFI-STAR..... or (Water-Turbojets) DIXXE(RANV)-DP COLIN J61 HUBBS KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR .....	
Fort Myers (FMY).....	(Turbojets) JDUBB (RANV)-DP GSO J75 DUNKN SHFTY (RNAV)-STAR.....	
Fort Myers (RSW).....	(Turbojets) JDUBB (RANV)-DP GSO J75 DUNKN SHFTY (RNAV)-STAR..... or (Turbojets) (Water) DIXXE (RNAV)-DP COLIN J61 HUBBS KEMPR WETRO ILM AR15 HIBAC SHFTY (RNAV)-STAR .....	
Greer (GSP).....	(Turbojets) SCRAM (RNAV)-DP LYH GMONY WAMUR JUNNR JUNNR (RNAV)-STAR.....	1100-0300
Hartford (HFD).....	(Turbojets) SOOKI(RANV)-DP SWANN BROSS J42 RBV J222 JFK DPK MAD V1.....	1100-0400

Terminals	Route	Effective Times (UTC)
Houston George Bush Intcntl (IAH) .....	(Turbojets) (IAH East Flow) CLTCH (RNAV)-DP MAULS Q40 AEX SKNRD (RNAV)-STAR .....	1100-0300
	or (Turbojets) (IAH West Flow) CLTCH (RNAV)-DP MAULS Q40 AEX DOOBI (RNAV)-STAR .....	1100-0300
Houston Hobby (HOU) .....	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 AEX WAPPL(RNAV)-STAR .....	1100-0300
Indianapolis (IND) .....	WYNGS RAMAY Q72 HACKS PLASH SNKPT(RNAV)-STAR .....	
Islip (ISP) .....	(Turbojets) DOCTR (RNAV)-DP AGARD V44 SIE J121 SARDI CCC .....	1100-0400
Jacksonville (JAX) .....	(Turbojets) DIXXE(RNAV)-DP COLIN J61 HUBBS J193 WEAVR J121 CHS ESENT LUNNI (RNAV)-STAR .....	
Kansas City (MCI) .....	REBLL(RNAV)-DP OTTTO COLNS J134 HNN J134 STL MCM BRAYMER-STAR .....	1100-0300
Kennedy (JFK) .....	(Turbojets) DOCTR (RNAV)-DP AGARD DONIL V229 PANZE V44 CAMRN (RNAV)-STAR .....	1100-0300
Knoxville (TYS)	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 ALEAN VXV .....	1100-0300
La Guardia (LGA) .....	(Turbojets) DOCTR (RNAV)-DP AGARD KORRY-STAR	1100-0400
Louisville (SDF) .....	(Turbojets) REBLL (RNAV)-DP OTTTO Q68 HVQ J6 UNCKL DARBY-STAR .....	1100-0300
Memphis (MEM) .....	(Turbojets) REBLL(RNAV)-DP OTTTO Q80 FAREV BWG BLUZZ(RNAV)-STAR .....	1100-0300
Miami (MIA, TMB, HST) .....	(Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN ANNEY-STAR .....	
	or (Turbojets) (Water) BOOCK (RNAV)-DP COLIN J61 HUBBS KEMPR WETRO DIW AR22 JORAY HILEY (RNAV)-STAR .....	
	or (Turbojets) DAILY J61 HUBBS J193 HCM ISO J121 CHS J79 OMN ANNEY-STAR .....	
Minneapolis/St Paul (MSP) .....	(Turbojets) HORTO BUFFER J518 DJB J34 VIO KAMMA KKILR(RNAV)-STAR .....	
Nashville (BNA) .....	REBLL OTTTO Q68 HVQ J6 YOCKY GROAT PASLY(RNAV)-STAR .....	1100-0300
Newark (EWR) .....	I SWANN V445 DQO DYLIN-STAR .....	1100-0400
	or (Turbojet) SOOKI(RNAV)-DP SWANN V445 DQO PHLBO (RNAV)-STAR .....	1100-0400
New Orleans (MSY) .....	(Turbojets) CLTCH (RNAV)-DP MAULS Q40 NIOLA MEI RYTHM-STAR .....	1100-0300
Orlando Executive (ORL) .....	(Turbojets) DIXXE (RNAV)-DP COLIN J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Orlando Intl (MCO) .....	(Turbojets) DIXXE (RNAV)-DP COLIN J61 HUBBS J139 WEAVR J121 CHS J79 OMN CWRLD(RNAV)-STAR .....	1100-0400
	or (Turbojets) BOOCK (RNAV)-DP COLIN J61 HUBBS KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
	or (Turbojets) WHINO COLIN J61 HUBBS J139 WEAVR J121 CHS J79 OMN BITHO-STAR .....	
Phoenix (PHX) .....	REBLL(RNAV)-DP OTTTO COLNS J134 HNN J134 LBL J19 ZUN BUNTR-STAR .....	1100-0300
Providence (PVD) .....	SOOKI(RNAV)-DP SWANN BROSS J42 RBV HTO JORDN (RNAV)-STAR .....	1100-0400
Sarasota (SRQ) .....	(Turbojet) JDUBB (RNAV)-DP GSO J75 TAY TRAPR (RNAV)-STAR .....	
Savannah (SAV) .....	(Turbojets) DIXXE COLIN J61 HUBBS J193 HCM FKN J79 CHS .....	
St. Louis (STL) .....	REBLL(RNAV)-DP OTTTO COLNS J134 FLM PXV QBALL-STAR .....	1100-0300
Tampa (TPA) .....	(Turbojets) JDUBB (RNAV)-STAR) GSO J75 TAY DADES (RNAV)-STAR .....	1100-0300

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Teterboro (TEB).....	(Turbojets) SOOKI(RNAV)-DP SWANN FUBRR JAIKE(RNAV)-STAR .....	1100-0300
West Palm Beach (PBI).....	(Turbojets) DIXE (RNAV)-DP COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR .....	
	or (Turbojets) WHINO COLIN J61 HUBBS J193 HCM ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or (Turbojets )(WATER) DIXE COLIN J61 HUBBS KEMPR WETRO DIW AR19 AYBID FRWAY(RNAV)-STAR.....	
White Plains (HPN).....	(Turbojets) SOOKI(RNAV)-DP SWANN BROSS J150 CYN BOUNO-STAR .....	1100-0400
Windsor Locks (BDL).....	SOOKI SWANN BROSS J42 RBV J222 JFK DPK DEER PARK-STAR.....	
<b>WHITE PLAINS (HPN)</b>		
Nantucket (ACK) .....	(Jets only) (FL180-FL230) BAYYS SEALL V188 GON DEEPO (RNAV)-STAR .....	1100-0300
<b>WILKES-BARRE/SCRANTON (AVP)</b>		
Cincinnati (CVG).....	(RNAV only) LVZ SEG PSB MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
<b>WINDSOR LOCKS (BDL)</b>		
Atlanta (ATL) .....	(RNAV only) VEERS PWL BASYE Q448 PTW J48 FLASK WINNG (RNAV)-STAR .....	
Baltimore (BWI).....	(Turbojets Only) PWL CMK J75 MXE V378 NUGGY TRISH (RNAV)-STAR .....	1100-0300
Boca Raton (BCT) .....	(Turbojets GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN CAYSL (RNAV)-STAR .....	
	or (Turbojets) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR .....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR19 AYBID CAYSL (RNAV)-STAR .	
	or (Water-Turbojets) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL .....	
Chicago Midway (MDW).....	(DME/DME-IRU or GNSS Required) CTR CAM Q822 GONZZ Q29 JHW DJB J60 ASHEN BAGEL PANGG (RNAV)-STAR .....	1100-0300
Chicago O'Hare (ORD) .....	(DME/DME-IRU or GNSS Required) CTR CAM Q822 FNT WYNDE (RNAV)-STAR .....	1100-0300
Cincinnati (CVG) .....	CTR HNK J49 PSB MAULL KODIE CTW TIGRR (RNAV)-STAR .....	
Dallas-Fort Worth (DFW).....	(RNAV Turbojet) (DFW South Flow) VEERS PWL BASYE DBABE BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR .....	
	or (RNAV Turbojet) (DFW North Flow) VEERS PWL BASYE DBABE BWZ J6 LIT FEWWWW BRDJE (RNAV)-STAR .....	
	or (All others) VEERS PWL BASYE DBABE BWZ J6 LIT WILBR-STAR .....	
Denver Intl (DEN).....	(DME/DME-IRU or GNSS Required) CTR CAM ARNII Q816 HOCKE FNT J94 ONL ANCHR (RNAV)-STAR .....	1100-0300
Detroit Metro Wayne Co (DTW).....	(DME/DME-IRU or GNSS Required) CTR CAM Q822 GONZZ BUF SPICA-STAR .....	1100-0300
Detroit Satellites: Ann Arbor (ARB), Young (DET), Windsor (CYQG), Willow Run (YIP).....	(DME/DME-IRU or GNSS Required) CTR CAM Q822 GONZZ COLTS BOREK LOPVO AXXIS GOHMA (RNAV)-STAR .....	1100-0300
Pontiac (PTK) .....	(DME/DME/IRU or GNSS Required) CTR CAM Q822 GONZZ COLTS BOREK LOPVO AXXIS SWWAN-STAR.....	1100-0300



PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)	
Ft Lauderdale Metro Area (FLL, FXE, OPF)	(Water–Turbojets) COASTAL (HI)–DEP GEDIC J174 SWL CEBEE WETRO ILM AR21 CRANS HILL FATHR GISSH–STAR .....	1100–0300	
	or		
	(Water–Turboprops) COASTAL (HI)–DP GEDIC J174 ILM AR21 CRANS HILL FATHR GISSH–STAR .....	1100–0300	
	or		
	(Turbojets) COASTAL (HI)–DP GEDIC J174 ORF ISO J121 CHS J79 OMN GISSH–STAR.....	1100–0300	
	or		
	(Turboprops) COASTAL (HI)–DP GEDIC J174 ORF J121 CHS J79 OMN MLB BLUF–STAR .....	1100–0300	
	or		
	(Water–Turbojets–GPS or DME/DME–IRU equipped) COASTAL (HI)–DP GEDIC J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)–STAR .....	1100–0300	
	or		
Fort Myers (RSW) .....	(Water–Turboprops–GPS or DME/DME–IRU equipped) COASTAL (HI)–DP GEDIC J174 ILM AR21 CRANS FISEL (RNAV)–STAR.....	1100–0300	
	or		
	(Turbojets–GPS or DME/DME–IRU equipped) COASTAL (HI)–DP GEDIC J174 ORF ISO J121 CHS J79 OMN FISEL (RNAV)–STAR .....	1100–0300	
	(WATER–Turbojets) COASTAL (HI)–DP GEDIC J174 SWL CEBEE WETRO ILM AR15 HIBAC SHFTY (RNAV)–STAR .....	1100–0300	
	Miami Metro Area (MIA, TMB, HST).....	(Turbojets–GPS or DME/DME equipped) COASTAL (HI)–DP GEDIC J174 ORF ISO J121 CHS J79 OMN HILEY (RNAV)–STAR.....	1100–0300
		or	
		(Turbojets) COASTAL (HI)–DP GEDIC J174 ORF ISO J121 CHS J79 OMN ANNEY–STAR .....	1100–0300
		or	
		(Water–Turbojets–GPS or DME/DME–IRU equipped) COASTAL (HI)–DP GEDIC J174 SWL CEBEE WETRO DIW AR22 JORAY HILEY (RNAV)–STAR .....	1100–0300
		or	
(Water–Turbojets) COASTAL (HI)–DP GEDIC J174 SWL CEBEE WETRO DIW AR22 JORAY OSOGY ENVOY YOSI MILSY BOYUR HILEY KAINS .....		1100–0300	
or			
(Turboprops) COASTAL (HI)–DP GEDIC J174 ORF J121 CHS J79 OMN ANNEY–STAR .....		1100–0300	
(DME/DME–IRU or GNSS Required) CTR CAM ARNII Q816 KELTI Q812 ZOHAN GRB EAU CLAIRE–STAR.....		1100–0300	
Orlando Exec (ORL).....	COASTAL (HI)–DP GEDIC J174 ORF J121 CHS J79 OMN BITHO–STAR.....	1100–0300	
	or		
Orlando Intl (MCO).....	(GPS or DME/DME–IRU equipped) COASTAL (HI)–DP GEDIC J174 SWL CEBEE WETRO ILM AR15 HIBACK CWRLD (RNAV)–STAR .....	1100–0400	
	COASTAL (HI)–DP GEDIC J174 ORF J121 CHS J79 OMN BITHO–STAR.....	1100–0300	
	or		
	(Water–Turbojets) COASTAL (HI)–DP GEDIC J174 SWL CEBEE WETRO ILM AR15 HIBAC APOLO ORL.....	1100–0300	
	or		
	(GPS or DME/DME–IRU equipped) COASTAL (HI)–DP GEDIC J174 ORF J121 CHS J79 OMN CWRLD (RNAV)–STAR .....	1100–0400	
	or		
	(GPS or DME/DME–IRU equipped) COASTAL (HI)–DP GEDIC J174 SWL CEBEE WETRO ILM AR15 HIBACK CWRLD (RNAV)–STAR .....	1100–0400	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO ILM AR15 HIBAC CWRLD (RNAV)-STAR .....	1100-0400
Philadelphia (PHL) .....	COASTAL-DP CCC SHERL J121 BRIGS JIMMS (RNAV)-STAR .....	1100-0300
Pittsburgh (PIT) .....	CTR HNK KONJE SLT HAYNZ (RNAV)-STAR .....	1100-0300
Raleigh-Durham (RDU) .....	(GPS OR DME/DME-IRU equipped) VEERS PWL CMK J75 BINKS GVE SBV ALDAN (RNAV)-STAR (RNAV only) VEERS PWL IGN Q480 AIR J80 VHP AARCH (RNAV)-STAR.....	1100-0300
St. Louis (STL) .....	PWL CMK J75 TAY LZARD-STAR .....	1100-0300
Tampa (TPA) .....	(RNAV only) VEERS PWL GANDE DBABE HYPER (RNAV)-STAR .....	
Washington Dulles (IAD) .....	or (Turboprops only) (AOB220) MOBBS SAGES LAAYK MIP SEG LEGGO (RNAV)-STAR .....	1100-0300
Washington Natl (DCA) .....	COASTAL-DP GEDIC J174 ZIZZI ATR V308 BILIT... ..	1100-0300
	or (Turbojets) COASTAL- DP GEDIC J174 ZIZZI ATR LAFLN DEALE (RNAV)-STAR.....	1100-0300
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN FRWAY (RNAV)-STAR.....	1100-0300
	or (Water-Turbojets) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR19 AYBID MIMMI NEUBE SWOMP SANZZ CASKI.....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) COASTAL (HI)-DP GEDIC J174 SWL CEBEE WETRO DIW AR19 AYBID FRWAY (RNAV)-STAR .....	
	(Turbojets) COASTAL (HI)-DP GEDIC J174 ORF ISO J121 CHS J79 OMN TUXXI-STAR .....	1100-0300
<b>WORCESTER (ORH)</b>		
Fort Lauderdale (FLL) .....	(Water-Turbojets only, GPS or DME/DME or IRU equipped) HTO J174 SWL KEMPR ILM AR21 CRANS FISEL (RNAV)-STAR.....	1100-0400
	or (Turbojets only, GPS or DME/DME or IRU equipped) HTO J174 SWL J121 CHS J79 OMN FISEL (RNAV)-STAR .....	1100-0400
Orlando (MCO) .....	(Turbojets only, GPS or DME/DME or IRU equipped) HTO J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR .....	1100-0400
	or (Water-Turbojets only, GPS or DME/DME or IRU equipped) HTO J174 SWL KEMPR ILM AR15 HIBAC CWRLD (RNAV)-STAR.....	1100-0400

**PREFERRED IFR ROUTES**  
**SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES**

Effective  
Times  
(UTC)

Terminals	Route	
Traffic entering Atlanta Center Southwest bound via J37 LYH:		
GMU.....	(RNAV equipped, Turbojet/Turboprop) LYH DEV LZ JUNNR (RNAV)-STAR .....	
GSP.....	(RNAV equipped, Turbojet/Turboprop) LYH GMONY WAMUR JUNNR JUNNR (RNAV)-STAR .....	
GYH.....	(RNAV equipped, Turbojet/Turboprop) LYH DEV LZ JUNNR (RNAV)-STAR .....	
LQK.....	(RNAV equipped, Turbojet/Turboprop) LYH DEV LZ JUNNR (RNAV)-STAR .....	
SPA.....	(RNAV equipped, Turbojet/Turboprop) LYH DEV LZ JUNNR (RNAV)-STAR .....	
Traffic overflying Atlanta Center Eastbound originating South of a line from DFW to JFK:		
BOS.....	(DME/DME-IRU or GNSS Required) GRD J209 RDU J207 FKN J79 JFK ROBUC (RNAV)-STAR.....	1100-0300
	or	
	(Prop Only) SIE J121 HTO V308 ORW V16 WOONS .....	
BWI.....	SPA J14 RIC OTT-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) SPA J14 RIC RAVNN (RNAV)-STAR .....	
DCA.....	SPA J14 RIC IRONS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) SPA J14 RIC OJAAY (RNAV)-STAR.....	
LGA.....	AHN J208 HPW J191 PXT KORRY-STAR.....	
PHL.....	SPA J14 J51 FAK DPNT-STAR.....	
Traffic originating East of Chicago Terminating Denver:		
DJB.....	J60 IOW DSM J144 OBH J10 LBF SAYGE-STAR .....	1300-0100
BAE.....	J16 MCW ONL J114 SNY LANDR-STAR .....	
STL.....	STL J110 GCK J154 RYLIE DANDD-STAR .....	1300-0100
Traffic overflying Cleveland Center and South of SLT:		
HPN.....	(Above 250 kts) SLT J190 CFB DNY280 DNY VALRE-STAR .....	
	or	
	PSB J49 CFB220 CFB DNY280 DNY VALRE-STAR .....	
	or	
	(250 kts or less) SLT J190 CFB DNY280 DNY NOBBI-STAR .....	
	or	
	PSB J49 CFB220 CFB DNY280 DNY NOBBI-STAR.....	
Traffic originating South of Wilmington, NC:		
ILM J109 FAK DYLIN-STAR .....		1100-0300
JFK.....	ORF J121 SIE CAMRN-STAR .....	1100-0300
LGA.....	ILM TYI HPW J191 PXT KORRY-STAR.....	1100-0300
Traffic overflying Indianapolis Center area Eastbound:		
BOS.....	(Non-RNAV) ROD J29 J82 ALB GDM GDM-STAR .....	
IAD.....	HVJ J8 DILLN J213 FINKS DOCCS-STAR .....	
	or	
	APE AIR MGW MGW121 VERNI ESL ESL187 FINKS DOCCS-STAR .....	
JFK.....	ROD J29 J70 LVZ LENDY-STAR .....	1100-0300

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
LGA .....	ROD J29 J146 MIP-STAR .....	1100-0300
	or	
	BKW J42 GVE KORRY-STAR .....	1100-0300
PHL .....	ROD J152 HAR V210 BUNTS .....	1100-0300
	or	
	BKW J42 GVE DPNT-STAR .....	1100-0300
PIT .....	APE CTW V443 WISKE .....	
	or	
	HNN JPU V117 WISKE .....	
TEB/MMU/CDW SATELLITES .....	(Non-Advanced Nav Aircraft only) ROD J29 JHW J70 LVZ LVZ-STAR .....	
Traffic overflying Indianapolis Center area Eastbound originating North and West of a line from DFW to JFK:		
ABE .....	RID CXR H146 .....	
ACY .....	ROD J152 HAR LRP DQO ENO SIE .....	
BDL .....	ROD J29 JHW J82 WILET RKA SWEDE-STAR .	
BWI .....	ROD J152 J162 MGW EMI-STAR .....	
CEF .....	ROD J29 JHW J82 ALB .....	
FRG .....	ROD J29 JHW J82 J522 HNK IGN V58 V91 CCC .....	
HPN .....	(Above 250 kts) ROD J29 JHW J82 WILET DNY VALRE-STAR .....	
	or	
	(250 kts or less) ROD J29 JHW J82 WILET DNY NOBBI-STAR .....	
ISP .....	(Above 250 kts) ROD J152 J178 PSB J49 HNK J68 V130 TOMES MAD V34 CREAM V16 CCC .....	
	or	
	(250 kts or less) ROD J152 J78 PSB J49 HNK DNY LOVES-STAR .....	
TEB/MMU/CDW/LDJ .....	ROD J29 JHW J70 LVZ-STAR .....	
Traffic overflying Indianapolis Center area Eastbound originating South and East of a line from DFW to JFK:		
ABE .....	BKW LDN LDN031 V377 HAR V162 DUMMR .	
ACY .....	BKW J42 OTT SIE .....	
BWI .....	BKW J147 CSN OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) BKW J147 CSN RAVNN (RNAV)-STAR .....	
DAA .....	BKW TRUPS (RNAV)-STAR .....	
DOV .....	BKW J42 GVE ENO-STAR .....	
HPN .....	BKW J42 OOD J150 CYN BOUNO-STAR .....	
IAD .....	HVQ J8 DILNN J213 FINKS DOCCS-STAR.....	1100-1830 and 2230-0300
	or	
	BKW GIBBZ (RNAV)-STAR .....	1100-1830 and 2230-0300
	or	
	GSO J14 CREWE J51 FAK COATT-STAR.....	1830-2230
	or	
	GSO J14 CREWE J51 FAK BARIN (RNAV)-STAR .....	1830-2230
LFI .....	BKW J42 MOL J24 HCM .....	
PHL .....	BKW J42 GVE DPNT-STAR .....	
TEB/MMU/CDW/LDJ .....	(Advanced-Nav Aircraft only) BKW J42 GVE JAIKE-STAR .....	
WRI .....	BKW J42 OTT SIE-STAR .....	

PREFERRED IFR ROUTES

Terminals	Route	Effective Times (UTC)
Traffic overflying Indianapolis (ZID) or Cleveland Centers (ZOB) landing in the Washington Metropolitan Area:		
BWI .....	MGW EMI-STAR .....	1100-0300
	or	
	BKW J147 CSN OTT-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) BKW J147 CSN RAVNN (RNAV)-STAR .....	1100-0300
DCA .....	APE J30 BUCKO NUMMY-STAR .....	1100-0300
	or	
	APE J30 BUCKO NUMMY-STAR .....	1100-0300
	or	
	GSO J14 RIC IRONS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) APE J30 BUCKO FRDMM (RNAV)-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) BKW TRUPS (RNAV)-STAR .....	1100-0300
	APE J30 BUCKO NUMMY-STAR .....	
	or	
	BKW TRUPS (RNAV)-STAR .....	
IAD .....	APE AIR MGW MGW121 VERNI ESL ESL187 FINKS DOCCS1 AID .....	
	or	
	HVQ HVQ JB DILNN J123 FINKS DOCCS-STAR .....	1100-1830 and 2230-0300
	or	
	(GPS or DME/DME-IRU equipped) APE AIR MGW GIBBS (RNAV)-STAR .....	
	or	
	BKW GIBZZ (RNAV)-STAR .....	1100-1830 and 2230-0300
	or	
	HVQ GIBZZ (RNAV)-STAR .....	
Traffic overflying Washington Center (ZDC) Southbound originating North of ZDC and landing South of ZDC:		
ZJX (Jacksonville Center) .....	(Turbojet above FL240) J75 CAE .....	1100-2000
	or	
	(Turbojet above FL240) J146 ETG PSB J61 EDDYS J174 DIW .....	1100-2000
	or	
	(Turbojet above FL240) J53 Q103 PSK CAE ....	
	or	
	(Turbojet above FL240) J174 SWL J121 DIW .....	1100-2000
	or	
	(Turbojet above FL240) J79 SBY J209 ORF J174 DIW .....	1100-2000
	or	
	(Turbojet above FL240) J79 SBY J209 ORF J121 CHS .....	1100-2000
	or	
	(Turbojet above FL240) J61 EDDYS J174 DIW .....	1100-2000
	or	
	(Turbojet above FL240) J61 HUBBS J193 WEAVR J121 CHS .....	1100-2000
	or	
	(Turbojet above FL240) J61 OTT J61 HUBBS J193 WEAVR J121 CHS .....	1100-2000

# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
Traffic overflying Elwood City VORTAC (EWC) Northbound:		
ROC .....	EWC EWC050130 GEE.....	
BUF .....	EWC DKK DKK020 WELLA .....	
	EWC EWC050130.....	
Traffic entering ZBW originating South and West of a line from HNK to ROC landing HYA/ACK/MVY:		
Q935 .....	Q935 PONCT ENE V167 LFV .....	1100-0300
Q82 .....	Q82 PONCT ENE V167 LFV .....	1100-0300
Traffic entering ZBW via RBV or JFK landing HYA:		
RBV .....	J62 MVY241 MVY .....	
	or	
	FLAPE MVY .....	1100-0300
JFK .....	J79 MVY241 MVY .....	
	or	
	FLAPE MVY .....	1100-0300
Traffic entering ZBW via RBV or JFK landing MVY:		
RBV .....	LIBBE FLAPE MVY.....	1100-0300
JFK.....	J79 MVY241 MVY.....	
	or	
	LIBBE FLAPE MVY.....	1100-0300
Traffic entering ZBW via RBV or JFK landing ACK:		
RBV .....	J62 ACK.....	
	or	
	FLAPE CLAMY ACK .....	1100-0300
	or	
	J79 J62 ACK .....	1100-0300
	or	
	FLAPE CLAMY ACK .....	1100-0300
	or	
	RIFLE DEEPO (RNAV)-STAR.....	1100-0300
Traffic entering ZBW via J174 or J121 landing HYA:		
J121 .....	J121 SHLEP J62 MVY241 MVY.....	
	or	
	J121 SHLEP LIBBE FLAPE MVY .....	1100-0300
J174 .....	J174 RIFLE J62 MVY241 MVY.....	
	or	
	J174 RIFLE FLAPE MVY .....	1100-0300
Traffic entering ZBW via J174 or J121 landing MVY:		
J121 .....	J121 SHLEP J62 MVY241 MVY.....	
	or	
	J121 SHLEP LIBBE FLAPE MVY .....	1100-0300
J174 .....	J174 RIFLE J62 MVY241 MVY.....	
	or	
	J174 RIFLE LIBBE FLAPE MVY.....	1100-0300
Traffic entering ZBW via J174 or J121 landing ACK:		
J121 .....	J121 SHLEP J62 ACK.....	
	or	
	J121 SHLEP FLAPE CLAMY .....	1100-0300
J174 .....	J174 RIFLE J62 ACK .....	
	or	
	J174 RIFLE FLAPE CLAMY.....	1100-0300
	or	
	J174 RIFLE DEEPO (RNAV)-STAR .....	1100-0300

**PREFERRED IFR ROUTES**  
**HIGH ALTITUDE—SINGLE DIRECTION ROUTES**

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J6 .....	Lancaster, PA to Little Rock, AR .....	Southwest	1100-0300
J14 .....	Greensboro, NC to Richmond, VA .....	Northeast	1100-0300
J30 .....	Joliet, IL to TRIXY Int., VA .....	East	1100-0300
J34 .....	Bellaire, OH to TRIXY Int., VA .....	East	1100-0300
J37 .....	Coyle, NJ to Spartanburg, SC .....	Southwest	1100-0300
J40 .....	Wilmington, NC to Richmond, VA .....	North	1100-0300
J42 .....	Texarkana, AR to Robbinsville, NJ .....	Northeast	1100-0300
J48 .....	Pottstown, PA to Foothills, GA .....	Southwest	1100-0300
J51 .....	Columbia, SC to Yardley, NJ .....	Northeast	1100-0300
J52 .....	Columbia, SC to Richmond, VA .....	Northeast	1100-0300
J55 .....	Florence, SC to HUBBS Int., VA .....	Northeast	1100-0300
J61 .....	Philipsburg, PA to EDDYS Int., VA .....	South	1100-0300
J75 .....	Modena, PA to Greensboro, NC .....	Southwest	1100-0300
J109 .....	Wilmington, NC to Buffalo, NY .....	North	1100-0300
J134 .....	Linden, VA to Henderson, WV .....	West	1100-0300
J149 .....	Armel, VA to Rosewood, OH .....	West	1100-0300
J150 .....	Gordonsville, VA to Hampton, NY .....	East	1100-0300
J162 .....	Bellaire, OH to Martinsburg, WV .....	East	1100-0300
J191 .....	Wilmington, NC to Robbinsville, NJ .....	North	1100-0300
J193 .....	HUBBS Int., VA to Wilmington, NC .....	South	1100-0300
J207 .....	Florence, SC to Franklin, VA .....	Northeast	1100-0300
J208 .....	Athens, GA to Hopewell, VA .....	Northeast	1100-0300
J209 .....	Greenwood, SC to Norfolk, VA .....	Northeast	1100-0300
J211 .....	Westminster, MD to Johnstown, PA .....	Northwest	1100-0300
J518 .....	Baltimore, MD to Indian Head, PA .....	Northwest	1100-0300
Q68 .....	Charleston, WV to Washington, DC .....	West	1100-0300
Q69 .....	LUNDD, VA to RICCS, WV .....	Northbound	0000-2359
Q72 .....	Indianapolis, IN to Washington, DC .....	West	1100-0300
Q80 .....	Indianapolis, IN to Washington, DC .....	West	1100-0300
Q103 .....	RICCS, WV to PSK, VA .....	Southbound	0000-2359

**GULF OF MEXICO “Q ROUTES”**

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

**Q100**

LEV VORTAC

REDFN N28°52.98'/W088°42.11'

NAITE N28°42.64'/W088°05.00'

ROZZI N28°18.87'/W086°42.31'

REMIS N27°53.04'/W085°15.47'

SRQ

VOR/DME

**Q102**

LEZ VORTAC

BLVNS N28°22.94'/W088°02.05'

BUNNZ N28°00.58'/W086°45.76'

BACCA N27°35.51'/W085°20.66'

CIGAR N27°29.61'/W084°46.99'

BAGGS N27°08.06'/W082°50.45'

CYY VOR/DME

**Q105**

HRV VORTAC

FATSO N29°41.40'/W089°47.08'

REDFN N28°52.98'/W088°42.11'

BLVNS N28°22.94'/W088°02.05'

**Q-ROUTES REGULATORY**

**Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.**

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note “GNSS REQUIRED”.

Route	Segment	DME
<b>Q1</b>	POINT REYES-ETCHY	LIN, ECA, RBL, SAC, OAK, PYE
	ETCHY-TOCOS	RBL, PYE, SAC, OAK, LIN, ECA, ENI
	TOCOS-ENVIE	OED, RBL, ENI, PYE
	ENVIE-ELENN	RBL, LMT, OED
	ELENN-EBINY	LMT, OED, CVO, EUG, RBL
	EBINY-EASON	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EASON-ERAVE	SEA, BTG, OLM, HQM, LTJ, CVO, DSD, OED, UBG, ONP, EUG
<b>Q2</b>	ERAVE-ELMAA	BTG, OLM, HQM, UBG, HUH
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN,
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
<b>Q3</b>	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
	FEPOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI



Route	Segment	DME
<b>Q4</b>	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, BZA, EED, GBN
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
<b>Q5</b>	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
<b>Q7</b>	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
<b>Q9</b>	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
<b>Q11</b>	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
<b>Q13</b>	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
	All segments	GNSS required
<b>Q15</b>	All segments	GNSS required
	NASHVILLE-PLESS	BNA, BWG, CSX, ENL, FAM, GQO, IIU, PXV, STL
	PLESS-ST LOUIS	AXC, CSX, ENL, FAM, PXV, SPI, STL, UIN
	ST LOUIS-DES MOINES	ALO, AXC, CID, CSX, DSM, ENL, FAM, FOD, LOW, IRK, LMN, OVR, SPI, STL, UIN
<b>Q20</b>	DES MOINES-SIOUX FALLS	ALO, CID, DSM, FOD, FSD, LOW, IRK, LMN, MCV, ONL, OVR, RWF
	SIOUX FALLS-ABERDEEN	ABR, FAR, FOD, FSD, ONL, RWF
	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
<b>Q21</b>	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SGT, STV, FST
	JONEZ-RAZORBACK	BYR, EOS, TUL, TXK, ADM, RZC, OKM
	<b>Q22</b>	AEX, LFT, LLA, VUH, LCH
<b>Q23</b>	GUSTI-OYSTY	LEV, HRV, PCU, ROR, MCB
	OYSTY-ACMES	BFM, HRV, CEW, GCV, MCB
	ACMES-CATLN	CEW, MGM, MVC, SJI, MEI
	CATLN-TWoup	PDK, MCN, AHN, GOO, ODF
	TWoup-SPARTANBURG	CAE, SPA, IRQ, SUG, ODF
	SPARTANBURG-NYBLK	SPA, BZM, GRD, CLT, GSO
	NYBLK-MASHI	SPA, BZM, GRD, CLT, GSO
	MASHI-KIDDO	SBV, LIB, PSK, GSO, RDU
	KIDDO-OMENS	GVE, FAK, PSK, RIC, RDU
	OMENS-BEARI	OKM, RZC, EOS, TUL
<b>Q24</b>	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL
	LAKE CHARLES-FIGHTING TIGER	AEX, DAS, LCH, MCB, LFT, LSU
	FIGHTING TIGER-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, LSU, GCV, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
<b>Q25</b>	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC, EIC, TXK, ARG, GQE
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
<b>Q26</b>	WALNUT RIDGE-DEVAC	LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
	<b>Q27</b>	OKM, SGF, RZC, EOS, TUL

Route	Segment	DME	
<b>Q28</b>	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK	
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK	
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM	
	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA	
<b>Q29</b>	HARES-BAKRE	AEX, EIC, ELD, LIT, MEM, MHZ, SQS, SWB, TXK	
	BAKRE-MEMPHIS	ARG, ELD, LIT, MEM, MHZ, SQS	
	MEMPHIS-OMDUE	ARG, BNA, FAM, LIT, MEM, PXV, SQS	
	OMDUE-SIDAE	ARG, BNA, BWG, ENL, FAM, IIU, MEM, PXV	
	SIDAE-CREEP	APE, BNA, BWG, ENL, FLM, FWA, IIU, OKK, PXV, ROD, TTH, VHP	
	CREEP-KLYNE	PAE, CRL, DJB, DXO, FLM, FWA, IIU, OKK, ROD, VHP	
	KLYNE-DUTSH	APE, CRL, CXR, DJB, DXO, FWA	
	DUTSH-WWSHR	APE, CRL, CXR, DJB, DXO, EWC	
	WWSHR-DORET	APE, CRL, CXR, DJB, DXO, EWC	
	DORET-JAMESTOWN	BUF, CXR, DJB, DKK, DXO, ETG, EWC, JHW, PSB, SLT	
	JAMESTOWN-HANKK	BFD, BUF, DKK, ELZ, ETG, EWC, GEE, HNK, JHW, PSB, ROC, SLT, SYR, TDT	
	HANKK-GONZZ	BUF, DKK, GEE, HNK, HUO, ITH, JHW, MSS, ROC, SLT, SYR	
	GONZZ-KRAZZ	BUF, GFL, GGT, HNK, HUO, MSS, PUT, SYR	
	KRAZZ-NIPPY	GFL, HNK, HUO, MSS, PUT, SYR	
	NIPPY-CABCI	BGR, BTV, ENE, GFL, MPV, MSS, PUT	
CABCI-EBONY	EBONY-DUNOM	AUG, BGR, ENE, MLT, MPV, MSS, PNN, PQI	
	DUNOM-US CANADIAN BORDER	BGR, MLT, PNN	
	<b>Q30</b>	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
		DHART-JODOX	SQS, LIT, TXK
<b>Q31</b>	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG	
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH	
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH	
<b>Q32</b>	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK	
	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT	
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO	
<b>Q33</b>	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO	
	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS	
<b>Q34</b>	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL	
	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS	
	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS	
<b>Q35</b>	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV	
	DRAKE-CORKR	TFD, INW, GCN, FLG, PGS, DRK, BLD, BCE, TBC	
	CORKR-WINEN	DRK, INW, PGS, TBC, MLF, ILC, BLD, BCE, CDC	
<b>Q36</b>	WINEN-NEERO	BCE, MLF, CDC, ELY, DTA, ILC, BVL, REO, BAM, SDO, BQU	
	NEERO-KOATA	REO, LKV, BOI, PDT, BAM, IMB, DSD	
	KOATA-KIMBERLY	LKV, REO, PDT, DSD, LTJ	
	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT	
<b>Q37</b>	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IIU	
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IIU	
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IIU	
<b>Q38</b>	FORT STOCKTON-CAVRN	SJT, ELP, INK, CME, FST	
	CAVRN-YORUB	TXO, ELP, CME, INK, FST, SJT	
	YORUB-IMMAS	CME, ABQ, TXO, ACH, FTI, CNX, TCC, CIM, INK	
	IMMAS-PUEBLO	FTI, CIM, ALS, PUB, LAA, HGO, FQF, DVV, DEN, BVR, BJC, AKO, ACH, TCC, TXO, CNX	
<b>Q39</b>	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX	
	INCIN-LAREY	JAN, MCB, SWB, AEX	
	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ	
<b>Q39</b>	CLAWD-WISTA	AIR, BKW, GSO, HNN, HVQ, PSK, RDU, SPA	

Route	Segment	DME	
Q40	ALEXANDRIA-DOOMS	LCH, SWB, AEX, MCB, HEL	
	DOOMS-WINAP	JAN, SWB, AEX, MCB, HEZ	
	WINAP-MISLE	JAN, SQS, MEI, MCB	
	MISLE-BFOLO	LDK, VUL, OKW, MEL, JYU	
	BFOLO-NIOLA	LGC, VUZ, GOO, RMG, GAD	
	NIOLA-JAARE	ATL, ODF, GOO, RMG, VXV	
	JAARE-OJESS	SPZ, ODF, GOO, SOT, VXV	
	OJESS-ALEAN	SPA, ODF, HMV, SOT, VXV	
	ALEAN-FEEDS	BLF, BKW, HMV, GZG, GSO	
	FEEDS-MAULS	BLF, BKW, LWB, ROA, GSO	
	MAULS-FANPO	FAK, RIC, MOL, GVE, CSN	
	Q42	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
		STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK
DANVILLE-MUNCIE		GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM	
MUNCIE-HIDON		FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC	
HIDON-BUBAA		AIR, APE, HNN, CXR, HVQ, EWC, DJB	
BUBAA-PSYKO		AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB	
PSYKO-BRNaN		PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT	
BRNaN-HOTEE		SLT, PSB, THS, ETG, RAV, THS, HAR, SEG, LRP, EMI	
HOTEE-MIKYG		RAV PSB LRP EMI RBV PTW HNK HUO SIE HNK SAX	
MIKYG-SPOTZ		FJC SIE CYN LRP SAX JFK PTW ETX EMI	
SPOTZ-ZIMMZ		BWZ SAX CYN ETX HNK	
Q50		LOUISVILLE-HELUB	HYK, FLM, IIU, ABB, EWO, BWG
		HELUB-ENGRA	HYK, FLM, IIU, LOZ, BWG, VXV
	ENGRA-IBATE	HYK, FLM, IIU, LOZ, AZO, VXV	
Q52	IBATE-CUBIM	AZQ, FLM, IIU, LOZ, VXV	
	CHOPZ-IPTAY	ODF, RMG, MCN, AHN, IRQ	
Q54	IPTAY-AWYAT	IRQ, CLT, SPA, GRD, CAE	
	AWYAT-COLZI	BZM, RDU, SPA, PSK, GSO	
	GREENWOOD-NYLLA	IRQ, SPA, CAE, GRD, ELW, FLO, ODF	
Q56	NYLLA-CHYPS	CAE, IRQ, GRD, SPA, CLT, CTF, FLO, GSO	
	CHYPS-AHOEY	CAE, SPA, GSO, CLT, RDU, FLO	
	AHOEY-RAANE	SPA, FLO, GSO, RDU, SDZ, CTF	
	RAANE-NUTZE	ILM, SDZ, RDU, TYI, FLO, LIB, ORF, GSO, ISO, FAY	
Q58	CATLN-KBLER	ATL, CEW, GRD, JYU, LGC, MCN, MEL, MGM, MVC, ODF, PDK, PZD, RMG, SJI, TGE, VUZ	
	KBLER-KELLN	AHN, ATL, CAE, ELW, GRD, IRQ, MCN, ODF, RMG, SPA	
	KELLN-KTOWN	CAE, CLT, FLO, GRD, GSO, IRQ, ODF, SPA	
	KTOWN-BYSCO	CAE, CLT, FLO, GRD, GSO, LIB, PSK, RDU, SPA	
	BYSCO-JOOLI	FLO, GSO, LIB, PSK, RDU	
	JOOLI-NUUMN	FAK, GSO, LIB, PSK, RDU, SBV	
	NUUMN-ORACL	FAK, GSO, GVE, LIB, PSK, RDU, RIC, SBV	
	ORACL-KIWII	FAK, GSO, GVE, RDU, RIC, SBV	
	KELLN-GLOVR	FLO, GRD, GSO, ODF, CAE, CLT, SPA, ELW, IRQ, RDU, ODF, LIB	
	GLOVR-LUMAY	FLO, GSO, RDU, LIB, CLT, SPA, SDZ	
	LUMAY-STUKI	FLO, GSO, RDU, LIB, SDZ, PSK	
	STUKI-PEETT	FAK, PSK, GSO, RDU, RIC, LIB, SBV, GVE	
	Q60	SPARTANBURG-BYJAC	GRD, RDU, SUG, CLT, GSO, ODF, PSK, CAE, SPA, LIB, BZM, IRQ
BYJAC-EVING		RDU, GSO, PSK, LIB	
EVING-LOOEY		RDU, GSO, PSK, GVE, SBV, FAK, LIB	
LOOEY-JAXSN		RDU, GSO, RIC, PSK, GVE, SBV, FAK	

Route	Segment	DME
<b>Q62</b>	WATSN-DAIFE	OKK, OXL, BVT, GIJ, GRR, GSH, FWA
	DAIFE-NOLNN	GSH, BVT, OKK, OXI, ROD, CRL, FWA, GIJ, DXO, GRR, PMM
	NOLNN-WEEVR	DXO, GIJ, DJB, ROD, FWA
	WEEVR-PSKUR	APE, VWV, DJB, ROD, CRL, GSH, SKY, DXO, CXR, DJB, MFD
	PSKUR-FAALS	CRL CXR DJB SKY APE DXO EWC MFD AIR ACO BSV YNG ACO
	FAALS-ALEEE	YNG ACO EWC DJB AIR
	ALEEE-QUARM	CXR JHW EWC DJB AIR ETG CIP PSB MMJ
	QUARM-BURNI	PSB JHW TON JST EWC PSB SLT REC ETG
	BURNI-MCMAN	SEG ETG TON SLT EMI
	MCMAN-VALLO	SEG, PSB, TON, SLT, EMI
	VALLO-RAVINE	SEG MIP RAV SLT EMI HAR ETG PSB
	RAVINE-SUZIE	SAX, EMI, RBV, MIP, PSB, LRP, ETG, PTW
	SUZIE-SARAA	LRP, SIE, SAX, PTW, ETX
	<b>Q63</b>	DOOGE-HAPKI
HAPKI-TONIO		HVQ VXV AZQ FLM HNN
TONIO-OCASE		HYK IIU CVG FLM
OCASE-HEVAN		ROD IIU CVG RID VHP
<b>Q64</b>	CATLN-FIGEY	AHN, ATL, CAE, CEW, CSG, ELW, GRD, IRQ, JYU, LGC, MCN, MEL, MGM, MVC, ODF, PZD, RMG, SJI, SPA, TGE
	FIGEY-GREENWOOD	AHN, CAE, ELW, GRD, IRQ, MCN, ODF, SPA
	GREENWOOD-DARRL	CAE, CLT, ELW, FLO, GRD, GSO, IRQ, ODF, SPA
	DARRL-IDDAA	CAE, CLT, CTF, FLO, GRD, GSO, IRQ, LIB, RDU, SDZ, SPA
	IDDAA-TAR RIVER	CTF, FAK, FAY, FLO, GSO, ILM, LIB, ORF, RDU, RIC, SDZ, SPA, TYI
	<b>Q65</b>	JEFOI-CESKI
CESKI-DAREE		ODF GRD HRS VXV RMG
DAREE-LORNN		ODF GQO HRS VXV RMG
LORNN-SOGEE		BWG, IIU, LOZ, VXV, FLM
SOGEE-ENGRA		BWG IIU LOZ HYK FLM
ENGRA-OCASE		CVG IIU FLM HYK
<b>Q66</b>	OCASE-ROSEWOOD	FWA DQN FLM ROD APE
	LITTLE ROCK-CIVKI	ELD, PBF, ARG, MEM
	CIVKI-RICKX	GOE, UJM, LIT, ARG, MEM
	RICKX-TROVE	SOS, HLI, VUZ, BNA, MEM
	TROVE-BAZOO	VXV, SYI, GOO, BNA, BWG
	BAZOO-METWO	VXV, LVT, GOO, HCH, BWG
	METWO-MXEEN	VXV, LVT, GOO, HCH, BNA
<b>Q67</b>	MXEEN-ALEAN	VXV, FLM, GOO, HCH, BWG
	SMTTH-CEMEX	VXV, FLM, IIU
	CEMEX-IBATE	VXV, FLM, IIU, HVQ
	IBATE-TONIO	BKW, HNN, HVQ
	TONIO-JONEN	BKW, FLM, HNN, HVQ, VXV
<b>Q68</b>	JONEN-COLTZ	AIR, APE, BKW, CXR, DJB, FLM, HNN, HVQ, ROD
	CHARLESTON-TOMCA	FLM, HNN, BKW, HVO, AIR, PSK, EKN
	TOMCA-RONZZ	AIR, HNN, EKN, HVO, BKW, PSK, GVE
	RONZZ-HHOLZ	AIR, GVE, EKN, HVO, BKW, CSN, HNN, PSK
	HHOLZ-HAMME	CSN, GVE, FAK, ESL, LDN, BKW, EKN, HVO
	HAMME-CAPOE	CSN, EMI, FAK, ESL, LDN, GVE, RIC, AML, BKW, EKN
<b>Q69</b>	CAPOE-OTTTO	LDN, EMI, GVE, ESL, RIC, CSN, AML
	BLAAN-RYCKI	CHS, GRD, CLT, BZM, FLO, SPA, GSO, CAE, CTF, RDU, BKW, VAN, IRQ, PSK
	RYCKI-LUNDD	ROA, GSO, RDU, BKW, PSK
	LUNDD-ILLSA	ROA, GSO, LWB, PSK, BKW, HVQ, RDU
	ILLSA-EWESS	ROA, PSK, LWB, GVE, HNN, BKW, EKN, HVQ, GSO
EWESS-RICCS	AIR, HVQ, HNN, PSK, BKW, GVE	

Route	Segment	DME
<b>Q70</b>	HAILO-LAS VEGAS	BLD, BTY, EED, LAS
	LAS VEGAS-IFEYE	BLD, EED, LAS, PGS
	IFEYE-BLIPP	BLD, ILC, EED, LAS, PGS
	BLIPP-EEVUN	BLD, ILC, CDC, LAS, PGS, MLF
	EEVUN-BLOBB	BLD, ILC, CDC, MLF, PGS
<b>Q71</b>	BLOBB-BAWER	BCE, ILC, MLF
	BAWER-SAKES	FFU, DVC, BCE, ILC, DTA, HVE, JNC, PUC, MTU
	BOBBD-ATUME	FLM, AZO, BKW, VXV
	ATUME-HAPKI	FLM, AZO, BKW, VXV, HVQ
	HAPKI-KONGO	HNN, AZO, BKW, GZG, HVQ
	KONGO-WISTA	HNN, HVQ, BKW, PSK
	WISTA-GEFFS	HNN, HVQ, BKW, AIR
	GEFFS-EMNEM	AIR, BKW, EWC, HNN, HVQ
	EMNEM-PSYKO	AIR, ETG, EWC, PSB, SLT
	PSYKO-PHILIPSBURG	AIR, EMI, ETG, EWC, JHW, PSB, SLT
<b>Q72</b>	HACKS-GEQUE	AIR, CKB, APE, HVQ, JPU, EKN, BKW, HNN, MGW
	GEQUE-BENSH BENSH-RAMAY	AIR, EKN, MGW, HVQ, CKB, ESL, CSN, GVE, LDN, EMI, HNN, BKW AML, EMI, GVE, MRB, CSN, MGW, ESL, AIR, LDN, EK
<b>Q73</b>	All segments	GNSS required
<b>Q74</b>	NATEE-BOULDER CITY	PGS, BLD, EED, LAS
	BOULDER CITY-ZAINY	ILC, BCE, PGS, BLD, EED, LAS
	ZAINY-FIZZL	ILC, BCE, PGS, BLD, CDC, LAS, MLF
	FIZZL-GARDD	BCE, PGS, BLD, MLF, TBC
<b>Q78</b>	GARDD-DEANN	BCE, PGS, HVE, TBC
	MARUE-DUGGN	BLD, DRK, EED, LAS, PGS, PKE, TBC
<b>Q80</b>	DUGGN-TOADD	ZUN, BCE, BLD, DRK, FLG, INW, LAS, PGS TBC, PKE
	FAREV-JEDER	BWG, IIU, FLM, VXV, LOZ, HYK
	JEDER-ENGRA	HYK, IIU, FLM, VXV, LOZ, AZQ, BWG
	ENGRA-DEWAK	HVQ, IIU, FLM, AZQ, HNN, ECB, BKW, LOZ, VXV, HYK
	DEWAK-CEGMA	ECB, BKW, FLM, AZQ, HNN, HVQ
	CEGMA-JONEN	ECB, BKW, AZQ, HNN, FLM, HVQ
	JONEN-BULVE	ECB, HVQ, FLM, BKW, HNN, AZQ
	BULVE-WISTA	ECB, HVQ, BKW, HNN, FLM
	WISTA-LEVII	HNN, HVQ, FLM, BKM, PSK, AIR, EKN
	LEVII-RONZZ	HNN, HVQ, AIR, EKN, PSK, BKW, FLM, GVE
	RONZZ-HHOLZ	GVE, HVQ, AIR, EKN, BKW, CSN, PSK, HNN
	HHOLZ-HAMME	GVE, ESL, CSN, EKN, BKW, FAK, LDN, HVQ, AIR
	HAMME-CAPOE	EMI, ESL, CSN, FAK, LDN, GVE, RIC, AML, BKW, EKN
	CAPOE-OTTTO	LDN, EMI, GVE, ESL, RIC, CSN, AML
<b>Q82</b>	WWSHR-DORET	AIR, APE, CRL, CXR DJB, DKK, DXO, EWC JHW, SLT
	DORET-JAMESTOWN	BUF, CXR, DJB, DKK ETG, EWC, JHW, PSB, SLT
	JAMESTOWN-WAYLA	BUF, CXR, DKK, ETG, EWC JHW, PSB, SLT, SYR
	WAYLA-VIEEW	BUF, DKK, ETG, HNK JHW, PSB, SLT, SYR
	VIEEW-MEMMS	BUF, ETG, HNK, JHW SAX, SLT, SYR
	MEMMS-LOXXE	HNK, HUO, SAX, SLT, SYR
	LOXXE-PONCT	HNK, HUO, SAX, SLT, SYR
	<b>Q84</b>	JAMESTOWN-AUDIL
<b>Q86</b>	AUDIL-PUPPY	BUF, HNK, MSS, SAX, SYR
	PUPPY-PAYGE	HNK, MSS, PUT, SAX, SYR
	PAYGE-CAMBRIDGE	HNK, MSS, PUT, SAX, SYR
<b>Q86</b>	TTRUE-YORRK	BLD, BLH, EED, IPL, PKE
	YORRK-SCHLS	BLD, DRK, EED, PGS, PKE
	SCHLS-CUTRO	BLD, DRK, EED, PGS, TBC
	CUTRO-VALEQ	DRK, INW, PGS, TBC
	VALEQ-PLNDL	DRK, INW, PGS, TBC

Route	Segment	DME
<b>Q88</b>	HAKMN-ZZYX	PGS, BLD, EED, LAS
	ZZYX-LAKRR	PGS, BLD, EED, LAS, PKE
	LAKRR-NOOTN	PGS, ILC, BCE, BLD, CDC, EED, LAS, PKE
	NOOTN-GARDD	PGS, ILC, BCE, BLD, LAS, MLF, TBC
	GARDD-VERKN	PGS, BCE, BLD, HVE, MLF, TBC
<b>Q90</b>	VERKN-PROMT	BCE, HVE, TBC
	PROMT-CHESZ	PUC, JNC, BCE, DVC, HVE, TBC
	DNERO-ESGEE	BLD, EED, LAS, PGS, PKE
	ESGEE-AREAF	BLD, BLH, DRK, LAS, PGS, PKE, EED
	AREAF-JASSE	FLG, BCE, BLD, DRK, INW, PGS, TBC
<b>Q94</b>	WELUM-MNGGO	PGS, DRK, BLD, EED, LAS, PKE
	MNGGO-ROOLL	PGS, DRK, BCE, FLG, LAS, TBC, PKE, BLD
<b>Q96</b>	PURSE-DODDL	BLD, EED, LAS
	DODDL-BFUNE	BLD, EED, LAS, PGS, PKE
	BFUNE-GUNTR	ILC, BLD, EED, LAS, PGS, PKE
	GUNTR-PIIXR	ILC, BLD, CDC, LAS, PGS
	PIIXR-FIZZL	ILC, BLD, CDC, LAS, MLF, PGS
	FIZZL-BAWER	BCE, ILC, BLD, MLF, PGS
	BAWER-ROCCY	BCE, ILC, DTA, HVE
	ROCCY-SARAF	BCE, ILC, DTA, HVE, PUC
<b>Q98</b>	SARAF-KIMMR	BCE, HVE, JNC, MTU, PUC
	HAKMN-ZZYX	PSG, BLD, EED, LAS
	ZZYX-LAKRR	PGS, BLD, EED, LAS, PKE
	LAKRR-DUZIT	PGS, BCE, BLD, EED, LAS, PKE
<b>Q103</b>	DUZIT-EEEZY	PGS, BCE, BLD, DRK, LAS, TBC, HVE
	EEEZY-PEEWE	DVC, PGS, BCE, DRK, HVE, TBC, BLD
	PULASKI-ASBUR	GSO, GVE, HNN, HVO, PSK
	ASBUR-OAKLE	BKW, HNN, HVO, PSK
	OAKLE-PERRI	BKW, HNN, HVO, PSK
	PERRI-PERKS	AIR, BKW, HNN, HVO, PSK
	PERKS-RICCS	AIR, BKW, HNN, HVO
	RICCS-EMNEM	AIR, APE, BKW, EWC, HNN, HVQ
<b>Q104</b>	EMNEM-AIRRA	AIR, APE, CXR, DKK, ETG, EWC, HNN, JHW, PSB
	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY
<b>Q106</b>	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-CYPRESS	PHK, PBI, SRQ, PIE VRB, ORL, FLL, LAL, OMN
	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
<b>Q108</b>	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, GRG
<b>Q110</b>	BLANS-BETIE	BNA, BWG, CNG, ENL, FAM, GHM, MWA, PXV
	BETIE-BFOLO	BNA, BWG, DCU, GHM, GQO, JKS, MSL, RMG, ROZ, VUZ
	BFOLO-JYROD	ATL, GAD, GQO, JYU, LGC, MGM, RMG, TDG, VUZ
	JYROD-FEONA	ATL, CSG, EUF, JYU, LGC, MCN, MGM, OTK, PZD, RMG, SZW, TGE, VUZ
	FEONA-GULFR	AMG, EUF, GEF, LGC, MCN, MGM, MGR, OTK, PZD, SZW, TAY
	GULFR-BRUTS	AMG, CRG, CTY, GEF, OTK, PIE, PZD, SZW, TAY
	BRUTS-KPASA	CRG, CTY, LAL, OCF, OMN, ORL, OTK, PIE, SRO, SZW, TAY, TRV
	KPASA-RVERO	DHP, FLL, LAL, LBV, OMN, ORL, PBI, PHK, PIE, SRO, TRV
<b>Q112</b>	RVERO-JAYMC	DHP, FLL, LAL, LBV, ORL, PBI, PHK, RSW, SRO, TRV
	JAYMC-THNDR	DHP, FLL, LAL, LBV, ORL, PBI, PHK, RSW, SRO, TRV, VKZ, ZBV
	INPIN-HEVVN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
<b>Q114</b>	HEVVN-DEFUN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	NATEE-BOULDER CITY	PGS, BLD, EED, LAS
	BOULDER CITY-ZAINY	PGS, ILC, BLD, EED, LAS
	ZAINY-AHOWW	PGS, ILC, BLD, CDC, LAS, MLF
<b>Q114</b>	AHOWW-BAWER	PGS, ILC, BCE, DTA, HVE, MLF, TBC
	BAWER-BUGGG	ILC, BCE, DTA, DVC, HVE, JNC, MTJ, MTU, PUC, TBC

Route	Segment	DME
<b>Q116</b>	KPASA-BRUTS BRUTS-GULFR GULFR-CEEYA	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK MCN, AMG, PZD, OTK, SZW, TAY
<b>Q118</b>	MARION-HEVAN HEVAN-VOSTK VOSTK-HELUB HELUB-JEDER JEDER-GLAZR GLAZR-KAILL KAILL-JOHNH JOHNH-BRUTS BRUTS-KPASA	BVT, CVG, FLA, FWA, GIJ, GSH, IJU, MZZ, OKK, OXI, RID, ROD, SHB, TTH, VHP BWG, CVG, FLM, FWA, HYK, IJU, OKK, RID, ROD, TTH BWG, CVG, FLM, HYK, IJU, LOZ, VXV BWG, CVG, FLM, HYK, IJU, LOZ, LVT, VXV BNA, BWG, FLM, GQO, HCH, HYK, IJU, LOZ, LVT, VXV BNA, BWG, GQO, HCH, HRS, LGC, LVT, MCN, ODF, PDK, RMG, VXV AMG, ATL, GQO, LGC, MCN, MGR, ODF, OTK, PDK, PZD, RMG, SZW, TAY, VNA AMG, CRG, CTY, GEF, MCN, MGR, OMN, OTK, PIE, PZD, SZW, TAY CRG, CTY, LAL, OCF, OMN, ORL, OTK, PIE, SRQ, SZW, TAY, TRV
<b>Q120</b>	ORRCA-BETBE BETBE-ZORUN ZORUN-GALLI GALLI-JAJAY JAJAY-TRAKY TRAKY-PROXI PROXI-BIG PINEY BIG PINEY-JUGIV JUGIV-HIKOX HIKOX-JASTI JASTI-UFFDA	CZQ, ECA, ENI, FMG, HZN, LIN, LLC, MOD, MVA, OAK, PYE, RBL, SAC, SDO FMG, HNZ, MVA, SDO BAM, FMG, HZN, MVA, SDO BAM, FMG, LLC, MVA, REO BAM, BQU, BVL, ELY, LCU, LLC, MLD, MVA, TWF BVL, ELY, IDA, LCU, MLD, PIH, TCH BOY, BPI, BVL, DBS, IDA, LCU, MLD, OCS, PIH, TCH BOY, BPI, CZI, DDY, OCS BOY, BPI, CZI, DDY, OCS ABR, ANW, BOY, CKW, CZI, DDY, DPR, GCC, ONL, PHP, RAP, TST ABR, ANW, BRD, DPR, FSD, GEP, ONL, PHP, RAP, RWF LCU, DBS, PIH, MLD, TCH, IDA, BVL, BAM
<b>Q121</b>	PARZZ-POCATELLO POCATELLO-TOUGH	GCC, MLS, DIK, BIL, CZI, BOY, DBS, BPI, IDA, DNW, PIH, JAC, MLD, TCH, LCU
<b>Q122</b>	MOGEE-MACUS MACUS-MCORD MCORD-LUCIN LUCIN-BEARR BEARR-KURSE  KURSE-O'NEILL O'NEILL-FORT DODGE	LIN, OAK, ECA, PYE, HNW, MOD, SAC, SWR, FMG, HZN, LLC, MVA LLC, BAM, FMG, MVA, SDO, HZN BVL, TCH, PIH, LCU, ELY, MLD, TWF, SDO, BAM, MVA, BQU, FMG, LLC PIH, TCH, BVL, MLD, FFU, LCU, IDA PIH, TCH, BVL, LCU, MLD, OCS, BPI, CKW, MTU, BOY, CHE, RLG, CYS, BFF, CZI, DDY, GLL BFF, CYS, CDR, SNY, AIA, HCT, ONL, TDD, OBH, CUZ, FSD YKN, OBH, ONL, OFK, FSD, SUX, FOD, OVR, SPW, MCW, DSM
<b>Q123</b>	PARZZ-COKEE	BIL, MLS, GGW, LWT, HLN, HIA, BZN, DBS, IDA, LKT, PIH, MLD, LCU, BOI, BAM, BVL
<b>Q124</b>	MOGEE-MACUS MACUS-MCORD MCORD-SLOWN SLOWN-FASTE FASTE-BONNEVILLE BONNEVILLE-WAATS	LIN, OAK, ECA, PYE, HNW, MOD, SAC, SWR, FMG, HZN, LLC, MVA, BAM FMG, LLC, BAM, MVA, HZN, SDO BQU, SDO, BAM, MVA, FMG, LLC, HZN BQU, SDO, BAM, BVL, TWF, LCU, ELY, FFU, DTA TCH, FFU, LCU, DTA, BVL, ELY TCH, OGD, LCU, DTA, BVL, FFU
<b>Q125</b>	PARZZ-WLLES	GTf, LWT, CTB, HLN, BZN, DLN, HIA, IDA, LKT, DBS, PIH, MLD, LCU, BVL, BOI, BAM
<b>Q126</b>	TIPRE-INSLO INSLO-GAROT GAROT-MEEKER	MOD, PYE, ECA, ENI, SAC, LIN, CZQ, OAK, FMG, HZN, MVA, LLC, TPH, OAL CDC, DTA, BVL, FFU, MLF, ILC, ELY, BQU, MVA, OAL, TPH, HZN, LLC BVL, DTA, FFU, TCH, HVE, PUC, MTU, VEL, EKR, JNC, RIL
<b>Q128</b>	SYRAH-JSICA JSICA-TABLL TABLL-EDLES EDLES-FLOOD  FLOOD-ZAROS ZAROS-VEGUC VEGUC-VLUST VLUST-ECIGE ECIGE-MUDHO MUDHO-JILLS	CZQ, ECA, LIN, LLC, MOD, MVA, OAK, OAL, PYE, SAC, TPH. MVA, OAL, TPH, ILC, CDC, DTA, ELY, MLF, BCE, HVE, PIC, JNC, DVC, MTJ, MTU BCE, CDC, DTA, DVC, FFU, HVE, ILC, JNC, MLF, MTJ, MTU, PUC. JNC, PUC, HVE, MTU, DVC, HBU, MTJ, RSK, EKR, ETL, ALS, RLG, FQF, HGO, PUB, BJC, LAA AKO, BJC, DEN, FCS, FQF, DVV, GCK, GLD, HGO, LAA, LBL, PUB. EOS, GCK, GLD, HLC, ICT, IFI, LAA, LBL, MMB, OKM, PER, PUB, TUL EOS, ICT, OKM, PER, RZC, SGF, TUL. ARG, EOS, LIT, OKM, RZC, SGF, SQS, TUL. ARG, LIT, MEM, SQS. ARG, JYU, MEI, MEM, MGM, MHZ, SQS, VUZ.

Route	Segment	DME	
<b>Q130</b>	SYRAH-JSICA	CZQ, ENI, FMG, LIN, MOD, MVA, OAK, OAL, PYE, SAC, TPH	
	JSICA-REANA	BLD, CDC, DTA, ELY, ILC, MLF, MVA, OAL, TPH	
	REANA-ROCCY	BCE, CDC, DTA, MLF, HVE, TBC, PUC, ILC	
	ROCCY-HASSL	BCE, DTA, DVC, HVE, PUC, TBC	
	HASSL-TAHIB	BCE, DVC, GUP, HVE, RSK, TBC	
	TAHIB-DIXAN	ABQ, ACH, ALS, DVC, FTI, GUP, RSK	
<b>Q132</b>	DIXAN-MIRME	ABQ, ACH, CIM, FTI, TCC, TXO	
	MIRME-PANHANDLE	ACH, CIM, LBL, PNH, TCC, TXO	
	WEBGO-ANAHO	LLC, HZN, FMG, SAC, SWR, LIN	
	ANAHO-MYBAD	LLC, HZN, FMG, SDO	
<b>Q134</b>	MYBAD-ZERAM	LLC, SDO, BAM, REO, MVA, SDO	
	ZERAM-MAGPY	LLC, SDO, BAM, REO, MVA, FMG	
	DUGLE-TATOO	MOD, SAC, CZQ, ECA, LIN, OAL, MVA, TPH, LLC	
<b>Q136</b>	TATOO-JULIK	MVA, OAL, TPH, ILC, DTA, BVL, CDC, ELY, MLF, BCE, HCE	
	JULIK-HERSH	BCE, MLF, DTA, HVE, CDC, TCH, PUC, MTU	
	HERSH-VOAXA	HVE, PUC, MTU, JNC, MTJ, EKR, RIL, DBL, RLG, FQF	
<b>Q138</b>	COALDALE-RUMPS	TPH, MVA, OAL	
	RUMPS-KATTS	TPH, MVA, OAL, HZN, ILC	
	KATTS-WEEMN	TPH, MVA, CDC, DTA, ILC, ELY, MLF, BVL, BCE, FFU, HVE, MTU, PUC, JNC, DVC, MTJ	
	WEEMN-VOAXA	HVE, PUC, MTU, MTJ, JNC, EKR, RIL, DBL, RLG, FQF	
<b>Q138</b>	WILLIAMS-FIMUV	ENI, RBL, MXW, PYE, ECA, ILA, LIN, SAC, FMG, SWR, HZN	
	FIMUV-JENSA	FMG, RBL, HZN, LIN, SAC, LLC	
	JENSA-PUHGI	HZN, BAM, FMG, MVA, SDO, LLC	
	PUHGI-ROOHZ	REO, LLC, BAM, SDO, BQU	
	ROOHZ-PARZZ	PIH, BVL, LCU, BAM, BQU, REO, SDO, LLC	
	PARZZ-UROCO	BOY, MLD, IDA, DBS, BPI, PIH, BVL, TCH, LCU, BAM	
	UROCO-RICCO	CZI, DDY, BOY, RLY, COD, BPI, DA, DBS, MLD	
	RICCO-MOTLY	DIK, GCC, RAP, DPR, CZI, DDY, BOY, SHR	
	MOTLY-DKOTA	ABR, DIK, DPR, FAR, FSD, GCC, RAP, RWF	
	DKOTA-WELOK	ABR, BRD, DLH, FAR, GEP, FSD, RWF	
	WELOK-CESNA	BRD, DLH, FAR, FGT, GEP, ODI, RWF	
	CESNA-GUUME	BRD, DLH, FGT, GEP, ODI	
	GUUME-SNARG	BRD, DLH, DLL, FGT, GEP, ODI	
	SNARG-SAULT STE MARIE	ASP, BRD, DLH, DLL, FGT, GEP, GRB, ODI, SAW, SSM, TVC	
	<b>Q140</b>	WOBED-GETNG	HUH, SEA, OLM, EPH, MWH
		GETNG-CORDU	GEG, EPH, PUW, MWH
CORDU-PETIY		MLP, GEG, PUW, MSO	
PETIY-CHOTE		CTB, MSO, MLN, GTF	
CHOTE-LEWIT		GTF, CTB, LWT, BZN	
LEWIT-SAYOR		LWT, GGW, MLS, BIL	
SAYOR-WILTN		DIK, BIS, MOT, ISN	
WILTN-TTAIL		DVL, JMS, GFK, PKD	
TTAIL-CESNA		BRD, AXN, PKD, GEP, FGT, DLH	
CESNA-WISCN		BAE, BRD, DLH, DLL, FGT, GEP, GRB, ODI	
WISCN-EEGEE		ODI, DLL, BAE, GRB, SAW	
EEGEE-DAYYY		ASP, BAE, DLL, DXO, FNT, GRB, VIO, ODI, PMM, SAW, SSM, TVC	
DAYYY-US CANADIAN BORDER		ASP, DXO, FNT, SSM, TVC	
AHPAH-HANKK		BUF, DKK, ETG, HNK, JHW, SLT, SYR	
HANKK-BEEPS		BUF, DKK, HNK, SLT, SYR	
BEEPS-EXTOL		BUF, HNK, SLT, SYR	
EXTOL-MEMMS		BUF, HNK, SLT, SYR	
MEMMS-KODEY		HNK, HUO, SAX, SLT, SYR	
KODEY-ARKKK	HNK, HUO, SAX, SLT, SYR		
ARKKK-RODYY	HNK, HUO, JFK, SAX, SLT, SYR		
RODYY-YODAA	HNK, HTO, HUO, JFK, RBV, SAX		
<b>Q142</b>	METOW-MULLAN PASS	EPH, GEG, MWH, SEA, PUW, MQG, MLP	
	MULLAN PASS-KEETA	FCA, LKT, CTB, PUW, MQG, MLP	
	KEETA-OKVUJ	CTB, HLN, GTF, BZN, LWT, HIA, DLN	
	OKVUJ-KIXCO	BIL, MLS, GGW, DIK	

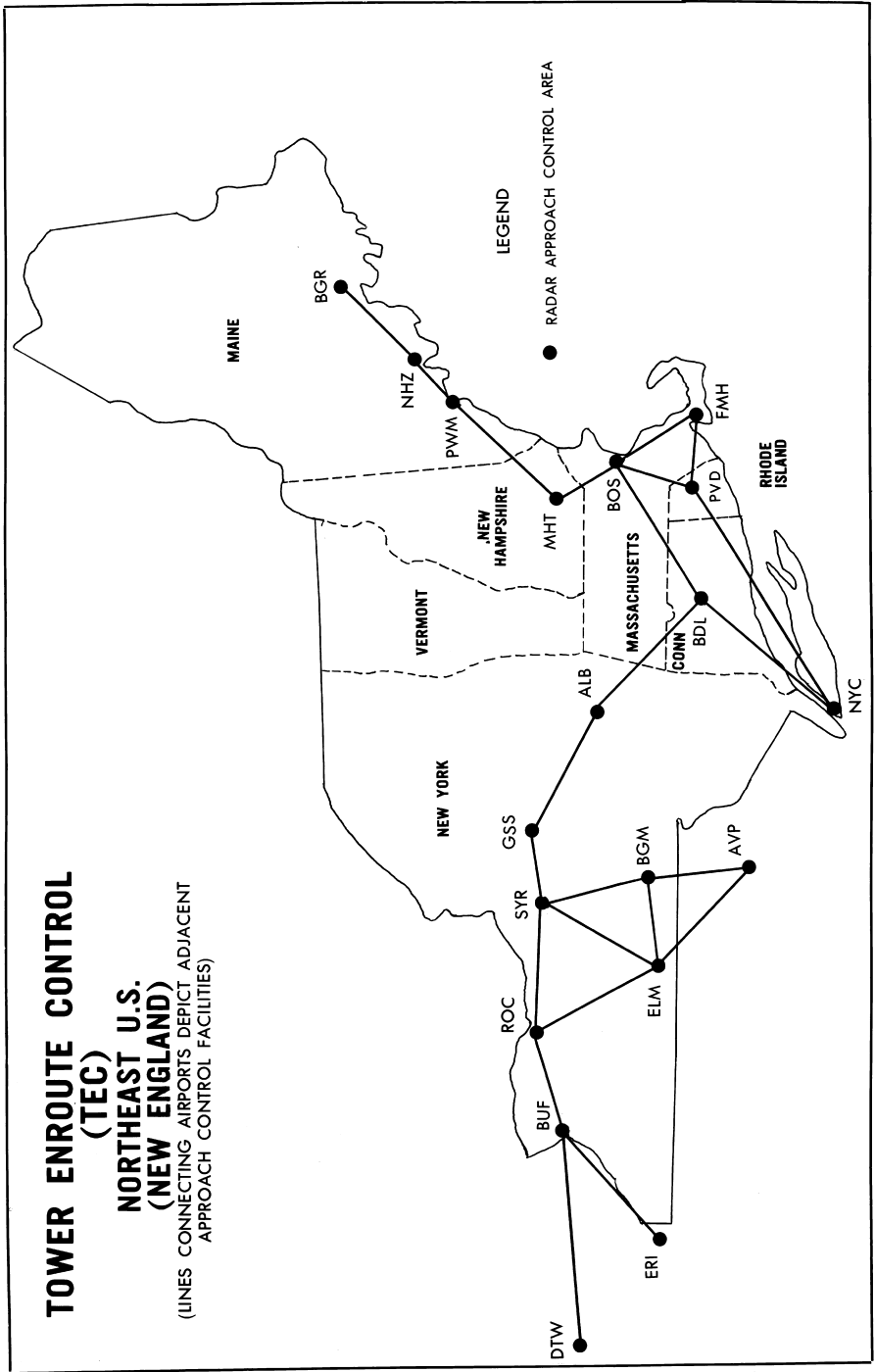


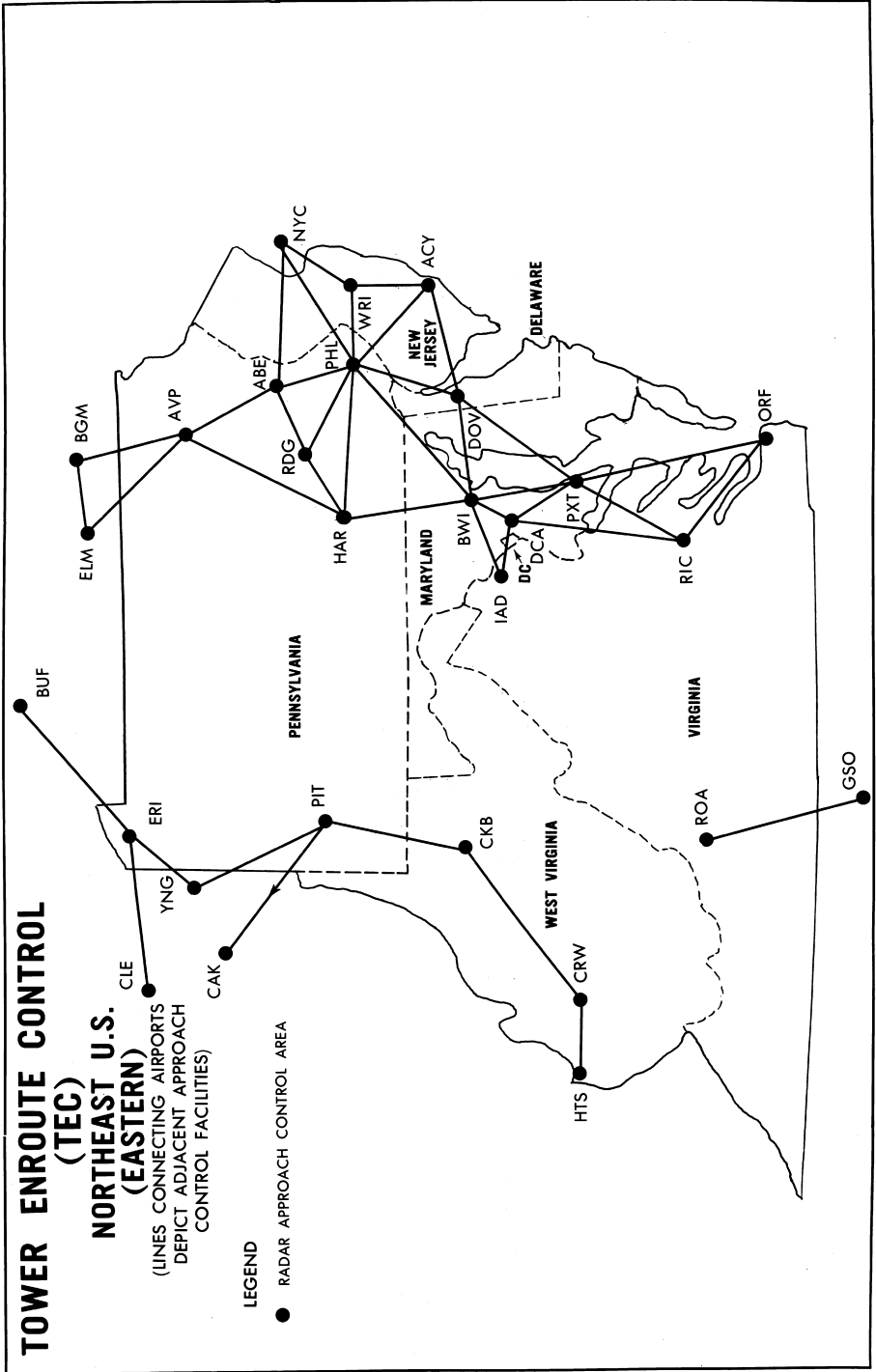
Route	Segment	DME
Q144	ZIRAN-ZOOMR	OLM, PSC, PDT, GEG, EPH, SEA, MWH
	ZOOMR-BLOWS	PUW, MQG, MLP, FCA
	BLOWS-KEETA KEETA-LEWIT	FCA, CTB, HLN, CPN, LKT HLN, GTF, CTB, HVR, LWT, BZN
Q145	KONGO-CHARLESTON	BKW, FLM, HNN, HVQ, PSK
	CHARLESTON-CLNTN CLNTN-FOXEE	AIR, APE, BKW, EWC, FLM, HNN, HVQ AIR, APE, CXR, DJB, DKK, EWC, HNN, HVQ, JHW
Q146	CASHS-BLUNT	GEG, MWH, EPH, LTJ, SEA, OLM
	BLUNT-DIPHU	MLP, FCA, PUW
	DIPHU-CUSDA	DLN, HLN, HIA
	CUSDA-ZERZO	BZN, HLN, GFT, HIA
	ZERZO-KIXCO	BIL, MLS, GGW, LWT, ISN
	KIXCO-TIMMR	ISN, DIK, DPR, ABR, MOT
	TIMMR-SMERF SMERF-HUFFR	FAR, JMS, GFK, HON, RWF, ATY RWF, ATY, HON, FAR, BRD, AXN, GEP, FCM
Q148	STEVs-ZAXUL	ELN, EPH, OLM, SEA, LTJ
	ZAXUL-FINUT	EPH, MWH, PDT, GEG, MLP, DNJ
	FINUT-WEDAK	MLP, DNJ, LKT, MWH, EPH, PDT, GEG, BZN, DLN, HIA
	WEDAK-WAIDE	BZN, DLN, HIA, DBS, PIH, LKT
	WAIDE-JUGIV	DBS, PIH, BPI, BOY, BIL, DNW, BZN, DLN, JDA, OCS, CZI, CKW, DDY
	JUGIV-MEDICINE BOW	OCS, CKW, DDY, CZI, BOY, BPI, CYS, BFF, DVV, GLL
	MEDICINE BOW-MOCTU	CYS, BFF, DVV, CKW, GLL, DDY, BJC, FQF, BVR, SNY, DEN, AKO
	MOCTU-LEWOY	GLL, SNY, BFF, DVV, DEN, AKO, FQF, CYS, HGO, GLD, HCT, MCK, BVR
	LEWOY-CUGGA	AKO, BVR, HGO, GLD, HCT, MCK, LAA, SNY, GLL, FQF, BFF, DVV, BJC, DEN, CYS, HCT, HLC, GCK
	CUGGA-PENUT	HLC, GCK, LBL, GLD, HCT, MCK, LAA, SLN
	PENUT-KIRKE	SLN, LBL, MMB, GCK, GLD, MCK, HLC, PER, ICT
	KIRKE-MORRR	ICT, SNL, GCK, PER, HLC, IFI, TUL, OKM
Q150	MORRR-BARTLESVILLE	IFI, IRW, PER, TUL, OKM, EOS, SLN, ICT, BUM
	STEVs-ZAXUL	ELN, EPH, OLM, SEA, LTJ
	ZAXUL-LEZLE	EPH, PDT, GEG, MWH, BKE
	LEZLE-BAXGO	DNJ, MLP, BKE, LKT
	BAXGO-LAMON	DLN, IDA, HIA, PIH, BZN, DBS, LKT
Q152	LAMON-GANNE	BZN, BPI, DNW, BOY, OCS
	GANNE-OPPEE	DDY, CKW, CZI, CYS, CHE, GLL, MBW, RLG
	SUNED-LEZLE	EPH, MWH, PDT, PSC, YKM, GEG, BKE
	LEZLE-WEDAK	DNJ, MLP, LKT
Q154	WEDAK-IKFOM	BZN, HIA, DBS, IDA, HLN, GTF, BIL, BOY, LWT
	IKFOM-WUVUT	BIL, BOY, MLS, RLY, DDY
	WUVUT-O'NEILL	RAF, DPR, BFF, ONL, ANW, TDD
Q154	WANTA-JELTI	SEA, OLM, LTJ, BTG, PDT, YKM, MWH, EPH, IMB, DSD
	JELTI-HOVEL	DNJ, BKE
	HOVEL-VELUY	REO, BOI
	VELUY-BURLEY	DBS, IDA, PIH
	BURLEY-PIMIE	IDA, PIH, DBS, LCU, MLD
	PIMIE-NAGNE	TCH, BVL, FFU
	NAGNE-BONGO	FBR, OCS
	BONGO-PITMN	EKR, JNC, CHE, RLG
	PITMN-TAYLR	MTJ, DBL, HBU
	TAYLR-GOSIP	PUB, ALS, DEN, DVV, FQF, HGO
	GOSIP-KENTO	LAA, CIM, GCK
	KENTO-NOSEW	TCC, PNH, TXO, GCK, LBL, MMB
	NOSEW-BOWIE	IFI, SPS, PNH, TXO, ABI, MQP, FUZ, TTT, ADM

Route	Segment	DME
<b>Q156</b>	STEVS-ZAXUL	SEA, YKM, MWH, LTJ, ELN, PDT, GEG
	ZAXUL-FINUT	SEA, LTJ, EPH, PDT, GEG, OLM, MWH, MLP
	FINUT-TUFFY	GEG, MLP, FCA, GTF, HLN, BZN
	TUFFY-UPUGE	HLN, MLP, FCA, GTF, DLN, BZN
	UPUGE-HEXOL	HLN, MLP, FCA, GTF, DLN, BZN
	HEXOL-TOUGH	HLN, BIL, GTF, LWT, BZN, GGW
	TOUGH-JELRO	DIK, RAP, GCC
	JELRO-KEKPE	DIK, RAP, DPR, PIR
	KEKPE-UFFDA	DPR, PIR, HON, FAR, FSD
	UFFDA-HSTIN	FOD, FSD, FGT, GEP, RWF, FRM
	HSTIN-ZZIPR	ALO, FGT, GEP, MCW, CID, RST, FRM
<b>Q158</b>	NTELL-PPARK	AVE, CZO, ECA, EHF, LIN, MOD, SAC.
	PPARK-TRTIS	AVE, BTY, CZO, EHF, HEC, MOD, OAL, PMD.
	TRTIS-BIKKR	BTY, OAL, PMD
	BIKKR-MYCAL	BLD, BTY, HEC, OAL, PMD
	MYCAL-JEDNA	BLD, BTY, EED, LAS, OAL, PGS, PMD.
<b>Q160</b>	SHVVR-FAANG	AVE, CZQ, ECA, EHF, LIN, MOD, SAC
	FAANG-RIVVO	AVE, BTY, CZQ, EHF, MOD, OAL, PMD
	RIVVO-BIKKR	BTY, OAL, PMD
<b>Q162</b>	NTELL-CABAB	AVE, CZO, ECA, EHF, LIN, MOD, MVA, SAC
	CABAB-VIKSN	AVE, BTY, CZO, ECA, EHF, LIN, MOD, MVA, OAL
	VIKSN-KENNO	AVE, BLD, BTY, ILC, MOD, MVA, OAL
	KENNO-ESSAA	BLD, BTY, ILC, MVA, OAL, PMD
	ESSAA-TUMBE	BLD, BTY, ILC, MVA, OAL, PMD
	TUMBE-MYCAL	BLD, BTY, HEC, ILC, LAS, MVA, OAL, PMD
<b>Q164</b>	NTELL-CABAB	AVE, CZQ, EHF, LIN, MOD, MVA, OAL, SAC
	CABAB-KICHI	AVE, BTY, CZQ, EHF, ILC, LIN, MOD, MVA, OAL, TPH
	KICHI-KATTS	ILC, LAS, MVA, OAL, TPH
	KATTS-KITTN	BLD, CDC, DTA, ILC, LAS, MVA, OAL, TPH, TQQ
	KITTN-ROCCY	BCE, BLD, CDC, DTA, ELY, HVE, ILC, MLF, MVA, PUC, TBC
<b>Q166</b>	VIKSN-UHILL	BTY, OAL, PMD, TPH
	UHILL-BIKKR	BTY, OAL, PMD, TPH
<b>Q168</b>	FNNDA-SHIVA	BLD, BLH, EED, PGS, PKE, IPL, LAS
	SHIVA-KRINA	BLD, BLH, DRK, EED, LAS, PGS, PKE
	KRINA-JASSE	FLG, BLD, DRK, INW, LAS, PGS, TBC
<b>Q406</b>	BROADWAY-DBABE	JFK, SAX, FJC, RBV, ARD, SBJ, STW, SIE, HTO, BWZ, CYN, HNK
	DBABE-BASYE	CMK, HTO, BDR, CYN, LGA
	BASYE-TRIBS	RBV, HTO, BDR, CYN, PWL, CMK, JFK, HNK
	TRIBS-BIGGO	SAX, HTO, BAF, BDR, PUT, IGN, CTR, HFD
	BIGGO-BARNES	HUO, HTO, IGN, BAF, HFD, CTR, BOS
<b>Q436</b>	EMMMA-DIXSN	DXO, PMM, CRL, FNT, LAN
	DIXSN-BOOTT	CRL, ECK, GRR, FNT, SVM
	BOOTT-RRONS	PSI, ECK, CRL, CXR, DXO
	RRONS-YARRK	OJB, DKK, ECK, CXR, DXO
	YARRK-CHAAP	DJB, DKK, BUF, ERI, CXR
	CHAAP-RAAKK	DKK, SLT, BUF, ETG, JHW
	RAAKK-HERBA	DKK, ETG, BFD, PSB, JHW
	HERBA-REXXY	OKK, EGT, SLT, PSB, ELZ
	REXXY-REBBL	BUF, ETG, FQM, HNK, PSB
	REBBL-MTCAF	CFB, ULW, FQM, SAX, HUO
	MTCAF-DGRAF	CFB, SYR, SLT, HNK, HUO
	DGRAF-YYOST	JFK, SAX, LVZ, HNK, HUO
	YYOST-LAAYK	JFK, SLW, LVZ, HNK, HUO
	LAAYK-COATE	BWZ, RBV, LVZ, HNK, HUO

Route	Segment	DME
<b>Q438</b>	RUBY-BERYS	ASP, CRL, DXO, FNT, GRR, PMM
	BERYS-TWIGS	CRL, FNT, CXR, DXO, DJB
	TWIGS-JAAJA	DKK, ECK, CXR, JHW, DJB
	JAAJA-ICHOL	DKK, BUF, CXR, JHW
	ICHOL-FARGN	DKK, BUF, CXR, JHW, SLT
<b>Q440</b>	FARGN-RAAKK	DKK, BUF, ETG, JHW, SLT
	HUFFR-IDIOM	BAE, BRD, DLL, FGT, GEP, GRB, ODI, RWF
	IDIOM-DEANI	BAAE, DLL, GRB, PMM, TVC
	DEANI-SLLAP	ASP, GRB, PMM, TVC
	SLLAP-BERYS	ASP, GRB, PMM, TVC
<b>Q448</b>	BERYS-TWIGS	DXO, CRL, FNT, DJB, CXR
	TWIGS-JAAJA	JHW, DKK, ECK, DJB, CXR
	JAAJA-ICHOL	JHW, DKK, CXR, BUF, SLT
	ICHOL-FARGN	JHW, DKK, CXR, BUF, SLT
	FARGN-RAAKK	JHW, DKK, ETG, BUF, SLT
<b>Q480</b>	POTTSTOWN-LANNA	CYN, HUO, ETX, JFK, SIE, STW
	LANNA-DBABE	SIE, SBJ, BWZ, FJC, JFK, CYN, ARD, STW, HTO, SAX
	DBABE-BASYE	CYN, LGA, BDR, CMK, HTO
	BASYE-TRIBS	CYN, RBV, BDR, PWL, HTO, HNK, CMK, JFK
	TRIBS-BIGGO	PUT, SAX, BAF, BDR, HTO, HFD, IGN, CTR
<b>Q480</b>	BIGGO-BARNES	PUT, SAX, BAF, BDR, HTO, HFD, IGN, CTR
	ZANDR-BELLAIRE	APE, CXR, JPU, CTW, DJB, HLG, EWC, AIR, HNN
	BELLAIRE-LEJOY	APE, AIR, EWC, HLG, CTW, AGC, MGW, IHD, JST, PSB
	LEJOY-VINSE	JST, PSB, EWC, GRV, IHD, REC, AIR, EMI, ETG, SLT, THS
	VINSE-BEETS	EMI, CSN, ETG, SLT, THS, HAR
	BEETS-HOTEE	EMI, CSN, HAR, SLT, THS, SIE, LRP, RAV, PSB, RBV
	HOTEE-MIKYG	EMI, PSB, RBV, RAV, LRP, PTW, HUO, SIE, HNK, SAX
	MIKYG-SPOTZ	FJC, SIE, CYN, LRP, SAX, JFK, PTW, ETX, EMI
	SPOTZ-CANDR	FJC, STW, CYN, ETX, LVZ, RBV, SBJ
	CANDR-JEFFF	JFK, STW, BWZ, SAX, SBJ, HNK, CYN
<b>Q806</b>	JEFFK-KINGSTON	RBV, STW, CMK, HNK, SAX, JFK, HUO, IGN, RBV
	KINGSTON-LESWL	PUT, RBV, CMK, HNK, HUO, SAX, HTO, PVD
	LESWL-BARNES	BAF, SAX, JFK, HTO, PVD, HFD, HUO, BOS
	BARNES-KENNEBUNK	EEN, BOS, HFD, HTO, PUT, CTR, BAF, GDM, MHT, LWM, CON, LFW, ENE, PSM
	MILLINOCKET-VOGET	BGR, HUL, MLT, PQI
<b>Q812</b>	TIMMR-WELOK	BUF, DKK, JHW, SLT
	WELOK-CEWDA	BUF, DKK, JHW, SLT, SYR
	CEWDA-ZOHAN	ASP, BAE, CRL, DLL, DXO, FNT, GRB, PMM, SAW, TVC
	ZOHAN-U.S. CANADIAN BORDER	ASP, CRL, DKK, DXO, FNT, PMM, SSM, TVC
	KELTI-AHPAH	BUF, DKK, JHW, SLT, SYR
	AHPAH-GOATR	BUF, DKK, HNK, JHW, SLT, SYR
	GOATR-FABEN	BUF, HNK, SLT, SYR
	FABEN-LOXXE	BUF, ETG, HNK, HUO, SAX, SLT, SYR
	LOXXE-ARKKK	BUF, ETG, HNK, HUO, SAX, SLT, SYR
	ARKKK-STOMP	ETG, HNK, HUO, JFK, RBV, SAX, SLT, SYR
<b>Q816</b>	STOMP-MSLIN	HNK, HUO, JFK, RBV, SAX
	MSLIN-GAYEL	CYN, HNK, HTO, HUO, JFK, RBV, SAX
	HOCKE-US CANADIAN BORDER	ASP, CRL, DXO, FNT
	KELTI-AHPAH	BUF, DKK, JHW, SLT, SYR
	AHPAH-GOATR	BUF, DKK, HNK, JHW, MSS, SLT, SYR
	GOATR-ARNII	BUF, HNK, HUO, MSS, PUT, SLT, SYR
	ARNII-HANAA	HNK, HUO, MSS, PUT, SYR

Route	Segment	DME
<b>Q818</b>	FLINT-US CANADIAN BORDER	ASP, DXO, FNT, GRR, CRL
	WOZEE-KELIE	BUF, DKK, ETG, JHW, SLT, SYR
	KELIE-VIEEW	BUF, DKK, ETG, HNK, JHW, SLT, SYR
	VIEEW-BINGHAMTON	BUF, ETG, HNK, HUO, JHW, SAX, SLT, SYR
	BINGHAMTON-BUFFY	CYN, HNK, HUO, SAX, SLT, SYR.
	BUFFY-STOMP	CYN, HNK, HUO, JFK, RBV, SAX, SYR
	STOMP-MSLIN	CYN, HNK, HUO, JFK, RBV, SAX
	MSLIN-GAYEL	CYN, HNK, HTO, HUO, JFK, RBV, SAX
<b>Q822</b>	FLINT-U.S. CANADIAN BORDER	ASP, CRL, DXO, FNT, GRR
	HOZIR-GONZZ	BUF, DKK, ETG, HNK, HUO, JHW, MSS, SLT, SYR
	GONZZ-PUPPY	BUF, HNK, HUO, MSS, SAX, SLT, SYR
	PUPPY-PAYGE	HNK, HUO, MSS, PUT, SAX, SYR
	PAYGE-CAMBRIDGE	BOS, HNK, HUO, MSS, PUT, SAX, SYR
	CAMBRIDGE-KENNEBUNK	BGR, BOS, ENE, HUO, LFV, PUT, PVD, SAX
	KENNEBUNK-AJJAY	BGR, BOS, ENE, LFV, MLT, PSM, PUT
<b>Q824</b>	AJJAY-ALLEX	BGR, BOS, ENE, LFV, MLT, PNN
	FLINT-HOCKE	ASP, CRL, DXO, FNT, VIO
	HOCKE-US CANADIAN BORDER	ASP, CRL, DXO, FNT
<b>Q842</b>	All segments	GNSS required
<b>Q844</b>	SYRACUSE-US CANADIAN BORDER	BUF, HNK, SYR, MSS
<b>Q848</b>	SL LAP-HHIPP	ASP, CRL, DJB, DXO, GRR, PMM, TVC
	HHIPP-KARIT	ASP, DJB, DXO, FNT
	KARIT-MENKO	ASP, DJB, DXO, FNT
<b>Q905</b>	HOCKE-SIKBO	ASP, BUF, CRL, CXR, DKK, DXO, FNT, JHW
<b>Q907</b>	POSTS-PADDE	CRL, DXO, ECK, FNT, FWA, GIJ, GRR, GSH, OXI, PMM
	PADDE-SALEM	CRL, DJB, DXO, ECK, FNT, FWA, GIJ, GRR, GSH, PMM
	SALEM-US CANADIAN BORDER	CRL, CXR, DJB, DKK, DXO, ECK, FNT, VIO
<b>Q913</b>	CABCI-TOPPS	BGR, ENE, HUL, LEB, ML T, MSS, PNN, PQI
<b>Q917</b>	SAULT STE MARIE-U.S. CANADIAN BORDER	ASP, SAW, SSM
	HOZIR-WOZEE	BUF, DKK, JHW, SLT
<b>Q923</b>	HOCKE-KARIT	ASP, CRL, DXO, FNT
	KARIT-SASUT	ASP, CRL, DXO, FNT
<b>Q935</b>	MONEE-HOCKE	ASP, CRL, DXO, FNT, GRR, PMM
	HOCKE-U.S. CANADIAN BORDER	ASP, CRL, DXO, FNT
	WOZEE-HANKK	BUF, DKK, HNK, JHW, SLT, SYR
	HANKK-JOSSY	BUF, DKK, HNK, JHW, SLT, SYR
	JOSSY-AUDIL	BUF, HNK, SAX, SLT, SYR
	AUDIL-FABEN	BUF, HNK, SAX, SLT, SYR
	FABEN-PONCT	HNK, HUO, JFK, SAX, SLT
	PONCT-GARDNER	BOS, ENE, HNK, HUO, JFK, LFV, PUT, PVD, SAX
GARDNER-BOSTON	ACK, BOS, ENE, LFV, PUT, PVD	
<b>Q937</b>	WAYGO-KRAZZ	BUF, HNK, MSS, SYR
<b>Q947</b>	REVEN-TOPPS	BGR, ENE, HUL, MLT, PQI
	TOPPS-CUZWA	BGR, HUL, MLT, PQI
	CUZWA-DUVOK	BGR, HUL, MLT, PQI
<b>Q951</b>	POSTS-PADDE	CRL, DXO, FNT, FWA, GIJ, GRR, GSH, OXI, PMM
	PADDE-SALEM	CRL, DJB, DXO, FNT, FWA, GIJ, GRR, GSH, PMM
	SALEM-U.S. CANADIAN BORDER	CRL, CXR, DJB, DKK, DXO, FNT
	DAVDA-SAVAL	ART, BTV, MSS, SLK, SYR
	SAVAL-DANOL	ART, BTV, MSS, SYR





## (TEC)

Within the national airspace system it is possible for a pilot to fly IFR from one point to another without leaving approach control airspace. This is referred to as "tower enroute" which allows flight beneath the enroute structure. The tower enroute concept has been expanded (where practical) by reallocating airspace vertically/geographically to allow flight planning between city pairs while remaining within approach control airspace. Pilots are encouraged to solicit tower enroute information from FSS's and to use the route descriptions provided in this directory when filing flight plans. Other airways which appear to be more direct between two points may take the aircraft out of approach control airspace thereby resulting in additional delays or other complications. All published TEC routes are designed to avoid enroute airspace and the majority are within radar coverage. Additional routes and other changes will appear in forthcoming editions as necessary. The acronym "TEC" should be included in the remarks section of the flight plan. This will advise ATC that the pilot intends to remain within approach control airspace for the entire flight. The following items should be noted before using the graphics and route descriptions:

1. The graphic is not to be used for navigation nor detailed flight planning. Not all city pairs are depicted. It is intended to show general geographic areas connected by tower enroute control. Pilots should refer to route descriptions for specific flight planning.
2. The route description contains four columns of information: i.e., the approach control area (listed alphabetically) within which the departure airport is located (check appropriate flight information publications), the specific route (airway, radial, etc.), the highest altitude allowed for the route, and the destination airport (listed alphabetically). Be advised, many destination airports are associated with a larger primary airport. Check the legend preceding this listing for this association.
3. The word "DIRECT" will appear as the route when radar vectors will be used or no airway exists. Also, this indicates that a Standard Instrument Departure (SID) or Standard Terminal Arrival Route (STAR) may be applied by ATC.
4. When a NAVAID or intersection identifier appears with no airway immediately preceding or following the identifier, the routing is understood to be DIRECT to or from that point unless otherwise cleared by ATC.
5. Routes beginning or ending with an airway indicate that the airway essentially overflies the airport or radar vectors will be applied.
6. Where more than one route is listed to the same destination, the pilot may select which route is desired. Unless otherwise stated, all routes may be flown in either direction.
7. Routes are effective only during each respective terminal facility's normal operating hours. Pilots are cautioned to check NOTAMS to ensure appropriate terminal facilities will be operating for the planned flight time.
8. All identifiers used for NAVAIDS, airports, and intersections are official identifiers.
9. Altitudes are listed in thousands of feet. ATC may require altitude changes to maintain flight within approach control airspace. ATC will provide radar monitoring and, if necessary, course guidance if the highest altitude assigned by ATC is below the Minimum Enroute Altitude (MEA).
10. Although all airports are not listed under the destination column, IFR flight may be planned to satellite airports in proximity to major airports via the same routing.
11. Flight plans should be filed with a Flight Service Station (FSS).

## TOWER ENROUTE CONTROL CITY PAIRS

- (1) Single Engine only.
  - (2) Props less than 210 KT IAS.
  - (3) Props less than 250 KT IAS.
  - (4) Jets and Props greater than 210 KT IAS.
  - (5) Jets and Props greater than 250 KTS IAS.
- Boston—NO SATS = BED/LWM/BVY/FIT/6B6/2B2  
SO SATS = BOS/OWD/1B9/3B2

Bradley = BDL/BAF/CEF/7B2

Bradley/Hartford = HFD/MMK/JJD/4B8

Bradley/Worcester = ORH/3B0/1B6

Manchester = MHT/ASH/CON/LCI

Manchester/Pease = PSM/DAW/3B4

New York/Bridgeport = BDR/HVN/OXC/3B9

Philadelphia = NO SATS = OQN/MQS/LOM/DYLD/PNE/CKZ/PTW/UKT/TTN

SO SATS = ILG/EVY

Portland = PWM/IWI/NHZ/RKD

Portland/Augusta = AUG/LEW/MWL/IZG/81B

Providence = PVD/EWB/TAN/SFZ/UUU/LZD

Providence/Groton = GON/WST/BID/0B8

**Approach Control Area  
(Including Satellites)**

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
Albany	..... ALB GDM V431 LOBBY	10000	Bedford
	..... V14 V428 V29	6000	Binghamton
	..... ALB GDM V431 REVER	10000	Boston
	..... Direct	10000	Bradley
	..... ALB V203 STELA	10000	Bradley
	..... ALB V44 DENNA	10000	Bridgeport
	..... V14	10000	Buffalo
	..... (3) ALB V123 HAARP	10000	Danbury
	..... (4) ALB V157 HAARP	10000	Danbury
	..... V14 V428	8000	Elmira
	..... V2	10000	Griffiss
	..... ALB V203 STELA GON	10000	Groton

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# TOWER ENROUTE CONTROL

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination	
	..... Direct	10000	Hartford	
	..... ALB CTR PVD V151 GAILS	10000	Hyannis	
	..... V14 V428	8000	Ithaca	
	..... ALB EEN MHT	10000	Manchester	
	..... ALB CTR V405 PVD	10000	Marthas Vineyard	
	..... ALB CTR PVD PVD PVD167 NEWBE DEEPO	10000	Nantucket	
	..... ALB GDM V431 LOBBY	10000	Norwood	
	..... ALB CAM CON	10000	Portland	
	..... ALB CON	10000	Portsmouth	
	..... ALB CTR PVD	10000	Providence	
	..... ALB CTR PVD V151 GAILS	10000	Provincetown	
	..... V2	10000	Rochester	
	..... V14 BEEPS	10000	Rochester	
	..... ALB V123 TRESA	10000	Stewart	
	..... ALB V203 STELA	10000	Worcester	
Allentown	..... FJC LAAYK	7000	Albany	
	..... FJC ARD CYN	5000	Atlantic City	
	..... ETX V39 LRP V499 BAL	8000	Baltimore	
	..... FJC V162 HUO IGN PWL PWL111 BRISS	5000	Bradley/Hartford	
	..... (2) ETX V30 SBJ	5000	Farmingdale	
	..... ETX V162 HAR	8000	Harrisburg	
	..... ETX V39 LRP	4000	Lancaster	
	..... FJC BWZ	6000	Newark	
	..... FJC ARD	5000	North Philadelphia	
	..... ETX V29 PTW (piston only)	4000	Philadelphia	
	..... BUSKY PTW (turbojet only RNAV equipped)	7000	Philadelphia	
	..... BUSKY PTW (turboprop only RNAV equipped)	5000	Philadelphia	
	..... FJC V6 SEG	8000	Pittsburgh	
	..... ETX	4000	Reading	
	..... ETX V164 FQM	8000	Rochester	
	..... FJC STW	5000	Teterboro	
	..... (2) FJC V162 HUO IGN V157 HAARP	5000	Westchester Co	
	..... (4) STW SAX V39 BREZY	5000	Westchester Co	
	..... ETX V39 LRP V499 BAL	8000	Washington (DCA)	
	..... ETX LRP V143 MULRR AML	8000	Washington (IAD)	
	..... FJC LVZ	7000	Wilkes-Barre	
	..... ETX V29 PTW	4000	Wilmington	
	Atlantic City	..... V229 DIXIE V276 ARD	5000	Allentown
		..... V1 DIXIE V276 ARD (Single Engine only)	5000	Allentown
		..... V1 ATR V308 OTT	4000	Andrews AFB
..... LEEAH V268 BAL		4000	Baltimore	
..... V1 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)		5000	Bangor	
..... V1 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)		5000	Bar Harbor	
..... V1 JFK V229 HFD HFD053 DREEM (Single Engine only)		5000	Boston (North)	
..... V1 JFK V229 HFD V3 WOONS (Single Engine only)		5000	Boston	
..... V1 JFK V229 HFD FOSTY WOONS (Single engine and /E, /F, /G only)		5000	Boston	
..... V1 JFK V229 BDR		5000	Bradley	
..... V184 ZIGGI JFK 210 JFK V229 BDR (Twins only, n/a between 1400-2100)		5000	Bridgeport	
..... HOWIE V1 JFK V229 BDR (Single engine only)		5000	Bridgeport	
..... V184 OOD DQO V469 HAR		4000	Capital City	
..... LEEAH V268 ENO		4000	Dover	
..... LEEAH V268 BAL BAL294 KROLL AML (No jets)		4000	Dulles	
..... LEEAH V229 PXT V16 V286 CSN (Jets only)		4000	Dulles	
..... V268 ENO V29 AVP V147		4000	Elmira	
..... V1 JFK BDR MAD MAD126 MONDI (Single Engine only)		5000	Groton	
..... V184 OOD DQO V469		4000	Harrisburg	
..... V1 JFK V229 (Single engine only)		5000	Hartford	
..... V1 JFK V229 HFD V167 PVD V151 GAILS (Single Engine only)		5000	Hyannis	
..... V1 JFK CCC (Single Engine only)		5000	Islip	



## TOWER ENROUTE CONTROL

Approach Control Area  
(Including Satellites)

	Route	Highest Altitude	Destination
	V184 ZIGGI JFK210 JFK CCC (No Single Engine; n/a btn 1400–2100 local)	5000	Islip
	V1 JFK (Single Engine only)	5000	Kennedy
	V184 ZIGGI JFK210 JFK (Jets/multiengine Props only; no OTFC)	5000	Kennedy
	V1 DIXIE V276 RBV V123 NANCI (Single Engine only)	5000	LaGuardia
	V229 DIXIE V276 RBV V123 NANCI (No Single Engine)	5000	LaGuardia
	V229 DIXIE V276 RBV V123 NANCI (Jets only)	7000	LaGuardia
	V184 OOD DQO DQO319 LRP144 LRP	4000	Lancaster
	HOWIE V1 CYN	5000	McGuire AFB
	VCN V16 CYN	7000	McGuire AFB
	V229 PANZE (Helicopters only)	3000	McGuire AFB
	SIE V44 PANZE	5000	McGuire AFB
	SIE V139 HARBO	5000	McGuire AFB
	V1 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	5000	Manchester
	V1 JFK V229 BDR MAD (Single Engine only)	5000	Meriden Markham
	V1 JFK V229 BDR MAD V475 V188 GON V374 (Single engine only)	5000	Martha's Vineyard
	V1 JFK V229 BDR MAD V475 V188 GON V58 NEWBE DEEPO (Single Engine only)	5000	Nantucket
	V229 DIXIE V276 RBV RBV005 OWBIE (Non-jets only)	5000	Newark
	V229 DIXIE V276 RBV V249 METRO	5000	Newark
	V229 DIXIE V276 RBV RBV005 OWBIE (Jets only)	6000	Newark
	V1 JFK V229 BDR MAD V475 V188 GON V374 MINNK (Single Engine only)	5000	New Bedford
	V229 DIXIE V276 ARD	5000	North Philadelphia
	ACY V184 OOD	4000	Philadelphia
	V1 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	5000	Portland
	V1 JFK V229 BDR MAD V475 V188 GON (Single Engine only)	5000	Providence
	V1 JFK V229 HFD V167 PVD V151 GAILS (Single Engine only)	5000	Provincetown
	V1 JFK V229 BDR MAD V475 V188 GON (Single Engine only)	5000	Quonset
	V184 OOD DQO MXE MXE334 HUMEL	4000	Reading
	V1 SBY	6000	Salisbury
	SIE V139	4000	Snow Hill
	V1 ATR	6000	Snow Hill
	V1 JFK V229 BDR MAD V475 V188 GON V374 MINNK (Single Engine only)	5000	Taunton Muni
	V229 PANZE V184 ZIGGI V276 RBV V249 METRO (Turbojet only)	4000	Teterboro
	LEEAH V1 ATR V308 BILIT CAPKO (Props only)	4000	Washington
	V229 DIXIE V276 RBV V249 SAX V39 BREZY (Multi-engine Props only)	5000	Westchester Co
	V1 DIXIE V276 RBV V249 SAX V39 BREZY (Multi-engine props only)	5000	Westchester Co
	V1 JFK V229 HFD V1 GRAYM (Single Engine only)	5000	Worcester
	V93 LRP V39 ETX	7000	Allentown
	V268 LEEAH V229	7000	Atlantic City
	V268 ENO V16 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	7000	Bangor
	V268 ENO V16 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	7000	Bar Harbor
	V93 LRP V499	7000	Binghamton
	V268 ENO V16 JFK V229 HFD HFD053 DREEM (Single engine only)	7000	Boston (North)
	V268 ENO V16 JFK V229 HFD V3 WOONS (Single Engine only)	7000	Boston
	V268 ENO V16 JFK V229 HFD FOSTY WOONS (Single engine and /E, /F, /G only)	7000	Boston
	V268 ENO V16 JFK V229 BDR	7000	Bradley
	V268 ENO V16 JFK V229 BDR (Single Engine only)	7000	Bridgeport

Baltimore

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# TOWER ENROUTE CONTROL

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Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	..... V31 HAR	7000	Capital City
	..... V268 ENO	7000	Dover AFB
	..... V44 MRB	6000	Dulles
	..... V268 ENO V16 JFK V229 BDR MAD MAD126 MONDI (Single Engine only)	7000	Groton
	..... EMI EMI321 HGR089 HGR	6000	Hagerstown
	..... V31 HAR	7000	Harrisburg
	..... V268 ENO V16 JFK	7000	Islip
	..... V268 ENO V16 JFK (Single Engine)	7000	Kennedy
	..... V214 DQO V479 RUUTH V123 NANCI	7000	LaGuardia
	..... V499 LRP	5000	Lancaster
	..... V214 DQO OOD V312 CYN GXU	5000	McGuire
	..... V268 ENO V16 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	7000	Manchester
	..... V268 ENO V16 JFK V229 BDR MAD V475 V188 GON V374 MCV (Single Engine only)	7000	Martha's Vineyard
	..... V214 MRB	8000	Martinsburg
	..... V268 ENO V16 JFK V229 BDR MAD V475 V188 GON V58 NEWBE DEEPO (Single Engine only)	7000	Nantucket
	..... BAL V378 MXE ARD V214 METRO (-180 kts only)	5000	Newark
SO SATS	..... V214 DQO	7000	New Castle
	..... V93 PXT V16 V33 V286 STEIN	6000	Norfolk
	..... V419 MXE (Non turbojets only)	5000	N. Philadelphia
	..... V378 MXE (Non turbojets only)	5000	N. Philadelphia
NO SATS	..... V214 DQO (Turbojets only)	11000	N. Philadelphia
	..... V93 PXT	6000	Patuxent River
	..... V214 ODESA OOD (Non turbojets only)	7000	Philadelphia
	..... V214 DQO (Turbojets only)	9000	Philadelphia
	..... V268 ENO V16 JFK V229 HFD CLOWW (Single engine and /E, /F, /G only)	7000	Portland
	..... V93 PXT V16	6000	Richmond
	..... BAL BAL133 SBY332 SBY	7000	Salisbury
	..... V268 ENO V16 JFK CCC (Single Engine)	7000	Suffolk
	..... BAL V378 MXE V3 SBJ TEB (-180 kts only)	7000	Teterboro
	..... DIRECT	4000	Washington
	..... V93 LRP V39 V162 FJC STW SAX V39 BREZY	7000	Westchester Co
	..... V93 LRP ETX FJC BWZ SAX V39 BREZY	7000	Westchester Co
	..... V93 LVZ	7000	Wilkes Barre
Bangor	..... ENE LWM	10000	Bedford
	..... (3) ENE PSM PSM221 STEVO LWM	10000	Boston
	..... (4) ENE V167 SCUPP	10000	Boston
	..... ENE V106 GDM V229 WITNY	10000	Bradley
	..... CLOWW WITNY (RNAV only)	10000	Bradley
	..... ENE V106 GDM V229 HFD	10000	Bridgeport
	..... CLOWW WITNY HFD (RNAV only)	10000	Bridgeport
	..... AUG V39 CON	10000	Concord
	..... (3) AUG V39 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	Danbury
	..... AUG V39 GDM V14 ORW GON	10000	Groton
	..... AUG V39 GDM V229 HFD	10000	Hartford
	..... CLOWW WITNY HFD (RNAV only)	10000	Hartford
	..... ENE V139 TONNI	10000	Hyannis
	..... ENE V106 GDM V229 HFD V1 BELT	10000	Islip
	..... ENE V106 GDM V229 HFD V1 DPK	10000	Kennedy
	..... ENE MHT	10000	Manchester
	..... ENE V139 TONNI	10000	Martha's Vineyard
	..... ENE V139 TONNI	10000	Nantucket
	..... (3) CLOWW WITNY HFD V3 CMK V623 SAX (RNAV only)	10000	Newark & SATS
	..... ENE V106 GDM V3 CMK V188 SAX	10000	Newark & SATS
	..... (1) CLOWW WITNY HFD V229 V188 CMK V623 SAX (RNAV only)	10000	Newark & SATS
	..... (1) ENE V106 GDM V229 SEALL V188 SAX	10000	Newark & SATS
	..... ENE LWM	10000	Norwood

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	..... ENE V139 BURDY	10000	Providence
	..... ENE V139 TONNI	10000	Provincetown
	..... AUG V39 CON V93 STUBY V205 TRESA	10000	Stewart
	..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	White Plains
Binghamton	..... ENE V106 GDM V229 SPENO	10000	Worcester
	..... V29 LVZ V613	8000	Allentown
	..... V252 GEE V14	8000	Buffalo
	..... V270	8000	Elmira
	..... V423	8000	Ithaca
	..... V29 LVZ V613 FJC ARD	8000	N. Philadelphia
	..... V29 PTW	8000	Philadelphia
	..... V423 ITH	8000	Rochester
	..... V29	8000	Syracuse
	..... V29 LVZ V226 MUGZY	8000	Teterboro
	..... V29	8000	Wilkes-Barre
Boston	..... GLYDE V270 CTR	10000	Albany
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 JFK V229 ACY	10000	Atlantic City
	..... BOSOX V1 MAD BEADS V308 BRIGS	10000	Atlantic City
SO SATS	..... (1) V268 HTO CCC V16 V229	10000	Atlantic City
SO SATS	..... V268 BRIGS	10000	Atlantic City
	..... PSM ENE	10000	Augusta
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 ENO V268 BAL	10000	Baltimore
SO SATS	..... (1) V268 HTO CCC V16 V44 V268	10000	Baltimore
	..... BOSOX V1 MAD BEADS V268	10000	Baltimore
SO SATS	..... V268	10000	Baltimore
	..... PSM ENE BGR	10000	Bangor
	..... PSM ENE	10000	Bar Harbor
	..... BOSOX V1 GRAYM	10000	Bradley
NO SATS	..... BOSOX V1 HFD	10000	Bridgeport
SO SATS	..... V268 SEY V34 CREAM	10000	Bridgeport
	..... GLYDE V270 CTR V146 V14	10000	Buffalo
	..... MHT V141	10000	Burlington
	..... MHT CON	10000	Concord
	..... (3) BOSOX V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	..... (5) GLYDE BAF IGN V157 HAARP	10000	Danbury
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 ENO	10000	Dover AFB
SO SATS	..... (1) V268 HTO CCC V16 ENO	10000	Dover AFB
	..... BOSOX V1 MAD BEADS V268 ENO	10000	Dover AFB
SO SATS	..... V268 ENO	10000	Dover AFB
	..... GLYDE V270	10000	Elmira
	..... GLYDE V270	10000	Erie
	..... PVD	10000	Groton
NO SATS	..... BOSOX V1 HFD	10000	Hartford
	..... DRUNK V141 GAILS	10000	Hyannis
	..... BOSOX V1 BELTT	10000	Islip
SO SATS	..... V268 HTO V46 CCC	10000	Islip
	..... MHT	10000	Keene
	..... BOSOX V1 DPK	10000	Kennedy
SO SATS	..... V268 HTO V46 DPK	10000	Kennedy
	..... (3) BOSOX V1 MAD V475	10000	LaGuardia
	..... MHT	10000	Lebanon
	..... MHT	10000	Manchester
	..... MVT359035 MVT	10000	Martha's Vineyard
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 CYN	10000	McGuire AFB
SO SATS	..... (1) V268 HTO CCC V16 CYN	10000	McGuire AFB
	..... BOSOX V1 MAD BEADS V308 DRIFT V312 CYN	10000	McGuire AFB
SO SATS	..... V268 DRIFT V312 CYN	10000	McGuire AFB
	..... DRUNK V141	10000	Nantucket
	..... (1) BOSOX V1 HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
	..... (3) BOSOX V1 HFD V3 CMK V623 SAX	10000	Newark & SATS
NO SATS	..... BOSOX V1 HFD	10000	New Haven
SO SATS	..... V268 SEY V34 CREAM	10000	New Haven
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
SO SATS	..... (1) V268 HTO CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia

# TOWER ENROUTE CONTROL

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Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	..... BOSOX V1 MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
SO SATS	..... V268 MANTA V276 ARD	10000	N.E. Philadelphia
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 VCN OOD	10000	Philadelphia
SO SATS	..... (1) V268 HTO CCC V16 VCN OOD	10000	Philadelphia
	..... BOSOX V1 MAD BEADS V308 BRIGS ACY V184 OOD	10000	Philadelphia
SO SATS	..... V268 BRIGS ACY V184 OOD	10000	Philadelphia
	..... PSM ENE	10000	Portland
	..... Direct	10000	Portsmouth
	..... Direct	10000	Providence
	..... Direct	10000	Provincetown
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 RIC	10000	Richmond
SO SATS	..... (1) V268 HTO CCC V16	10000	Richmond
	..... BOSOX V1 MAD BEADS V268 ENO V16	10000	Richmond
SO SATS	..... V268 ENO V16	10000	Richmond
	..... GLYDE V270 CTR V146 ALB V2	10000	Rochester
	..... (GNSS equipped only) BOSOX NELLIE T212 TRESA	10000	Stewart
	..... MHT V490 UCA	10000	Syracuse
NO SATS	..... BOSOX V1 GRAYM V14 ORW V16 DIXIE V276 RBV	10000	Trenton
SO SATS	..... (1) V268 HTO CCC V16 DIXIE V276 RBV	10000	Trenton
	..... BOSOX V1 MAD BEADS V308 MANTA V276 ARD	10000	Trenton
SO SATS	..... V268 MANTA V276 RBV	10000	Trenton
	..... (3) BOSOX V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
NO SATS	..... BOSOX V1 BELTT	10000	Westhampton Bch
NO SATS	..... V268 HTO	10000	Westhampton Bch
	..... Direct	10000	Worcester
Boston ARTCC/Keene	..... GDM V431 LOBBY	10000	Bedford
	..... V431 REVER	10000	Boston
	..... Direct	10000	Bradley
	..... GDM V229 HFD	10000	Bridgeport
	..... (3) GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	..... GDM V14 ORW GON	10000	Groton
	..... GDM V229 HFD	10000	Hartford
	..... GDM V151 GAILS	10000	Hyannis
	..... GDM V151 PVD V405 MVY	10000	Marthas Vineyard
	..... GDM V151 PVD PVD167 NEWBE DEEPO	10000	Nantucket
	..... GDM V431 LOBBY	10000	Norwood
	..... GDM V151 PVD	10000	Providence
	..... GDM V151 GAILS	10000	Provincetown
	..... (GNSS equipped only) CTR V93 STUBY T212 TRESA	10000	Stewart
	..... GDM V229 SPENO	10000	Worcester
Boston ARTCC/Lebanon	..... LEB LEB167 BASUU (BED/FIT/6B6) or V141 CON LWM (BVY/LWM/2B2)	10000	Bedford
	..... V141 CON CON135 TOMIE LWM	10000	Boston
	..... EEN	10000	Bradley
	..... V151 GDM V229 HFD	10000	Bridgeport
	..... V151 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	..... V151 GDM V14 ORW GON	10000	Groton
	..... V151 GDM V229 HFD	10000	Hartford
	..... V141 CON LWM BOS GAILS	10000	Hyannis
	..... V141 CON LWM BOS	10000	Marthas Vineyard
	..... V141 CON LWM BOS LFW	10000	Nantucket
	..... LEB LEB167 BASUU	10000	Norwood
	..... V151 PVD	10000	Providence
	..... V141 CON LWM BOS	10000	Provincetown
	..... V151 GDM V229 SPENO	10000	Worcester
Bradley	..... DIRECT	10000	Albany
	..... PWL HUO V162	5000	Allentown
	..... GON CCC V16 JFK V229 ACY	10000	Atlantic City
	..... MAD BEADS V308 BRIGS	10000	Atlantic City
	..... EEN V93 CON	10000	Augusta
	..... GON CCC V16 ENO V268	10000	Baltimore
	..... MAD BEADS V268	10000	Baltimore
	..... EEN V93 CON V39 AUG	10000	Bangor

TOWER ENROUTE CONTROL

Approach Control Area  
(Including Satellites)

Route	Highest Altitude	Destination
..... EEN V93 ENE	10000	Bar Harbor
..... GRAYM HFD053 DREEM	10000	Bedford & NO SATS
..... PUT PUT 105 WOONS	10000	Boston & SO SATS
..... HFD	10000	Bridgeport
..... ALB V14	10000	Buffalo
..... EEN V93 CON	10000	Concord
..... (3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
..... (5) VEERS IGN V157 HAARP	10000	Danbury
..... GON CCC V16 ENO	10000	Dover AFB
..... MAD BEADS V268 ENO	10000	Dover AFB
..... CTR V270	10000	Elmira
..... CTR V270	10000	Erie
..... HFD GON	10000	Groton
..... PVD V151 GAILS	10000	Hyannis
..... MAD V1 BELTT	10000	Islip
..... DIRECT	10000	Keene
..... MAD V1 DPK	10000	Kennedy
..... (3) HFD V1 MAD V475	10000	LaGuardia
..... EEN V151	10000	Lebanon
..... EEN	10000	Manchester
..... PVD V405 MZY	10000	Marthas Vineyard
..... GON CCC V16 CYN	10000	McGuire AFB
..... MAD BEADS V308 DRIFT V312 CYN	10000	McGuire AFB
..... PVD PVD167 NEWBE DEEPO	10000	Nantucket
..... (1) HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
..... (3) HFD V3 CMK V623 SAX	10000	Newark & SATS
..... GON CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
..... PUT PUT105 WOONS	10000	Norwood
..... CON CCC V16 VCN OOD	10000	Philadelphia
..... MAD BEADS V308 BRIGS ACY V184 OOD	10000	Philadelphia
..... EEN	10000	Portland
..... (3) VAPER V39 GDM V106 RAYMY	10000	Portsmouth
..... (5) EEN	10000	Portsmouth
..... DIRECT	10000	Providence
..... PVD V151 GAILS	10000	Provincetown
..... GON CCC MAD JAFFY V16	10000	Richmond
..... MAD BEADS V268 ENO V16	10000	Richmond
..... ALB	10000	Rochester
..... (GNSS equipped only) VEERS T212 TRESA	10000	Stewart
..... ALB	10000	Syracuse
..... GON CCC MAD JAFFY V16 DIXIE V276 ARD	10000	Trenton
..... MAD BEADS V308 MANTA V276 ARD	10000	Trenton
..... HFD V1 BELTT	10000	Westhampton Beach
..... (3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
..... PWL V34 WEETS LVZ	6000	Wilkes-Barre
..... DIRECT	10000	Albany
..... PWL HUU V162	5000	Allentown
..... GON CCC V16 JFK V229 ACY	10000	Atlantic City
..... MAD BEADS V308 BRIGS	10000	Atlantic City
..... HFD V229 GDM V39 CON	10000	Augusta
..... HFD CLOWWW (/E, /F, /G only)	10000	Augusta
..... GON CCC V16 ENO V268 BAL	10000	Baltimore
..... MAD BEADS V268	10000	Baltimore
..... HFD V229 GDM V39 AUG	10000	Bangor
..... HFD CLOWWW (/E, /F, /G only)	10000	Bangor
..... HFD V229 GDM V106 ENE	10000	Bar Harbor
..... HFD CLOWWW (/E, /F, /G only)	10000	Bar Harbor
..... HFD HFD053 DREEM	10000	Bedford & NO SATS
..... HFD V3 WOONS	10000	Boston & SO SATS
..... DIRECT	10000	Bridgeport
..... ALB V14	10000	Buffalo
..... HFD V229 GDM V39 CON	10000	Concord
..... HFD CLOWWW (/E, /F, /G only)	10000	Concord
..... (3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
..... (5) NELIE VEERS IGN V157 HAARP	10000	Danbury

Bradley/Hartford

# TOWER ENROUTE CONTROL

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Approach Control Area  
(Including Satellites)

Route	Highest Altitude	Destination
..... GON CCC V16 ENO	10000	Dover AFB
..... MAD BEADS V268 ENO	10000	Dover AFB
..... CTR V270	10000	Elmira
..... CTR V270	10000	Erie
..... HFD GON	10000	Groton
..... HFD V167 PVD V151 GAILS	10000	Hyannis
..... MAD V1 BELTT	10000	Islip
..... HFD V229 GDM	10000	Keene
..... MAD V1 DPK	10000	Kennedy
..... (3) HFD V1 MAD V475	10000	LaGuardia
..... HFD V229 GDM V151	10000	Lebanon
..... HFD V229 GDM V106 MHT	10000	Manchester
..... HFD CLOWW (/E, /F, /G only)	10000	Manchester
..... GON V374 MVY	10000	Marthas Vineyard
..... GON CCC V16 CYN	10000	McGuire AFB
..... MAD BEADS V308 DRIFT V312 CYN	10000	McGuire AFB
..... GON V58 NEWBE DEEPO	10000	Nantucket
..... (1) HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
..... (3) HFD V3 CMK V623 SAX	10000	Newark & SATS
..... GON CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
..... PUT PUT105 WOONS	10000	Norwood
..... GON CCC V16 VCN OOD	10000	Philadelphia
..... MAD BEADS V308 BRIGS ACY V184 OOD	10000	Philadelphia
..... HFD V229 GDM V106 ENE	10000	Portland
..... HFD CLOWW (/E, /F, /G only)	10000	Portland
..... HFD V229 GDM V106 RAYMY	10000	Portsmouth
..... HFD CLOWW (/E, /F, /G only)	10000	Portsmouth
..... HFD V167 PVD	10000	Providence
..... PVD V151 GAILS	10000	Provincetown
..... GON CCC V16 RIC	10000	Richmond
..... MAD BEADS V268 ENO V16	10000	Richmond
..... ALB	10000	Rochester
..... (GNSS equipped only) VEERS T212 TRESA	10000	Stewart
..... ALB	10000	Syracuse
..... GON CCC V16 DIXIE V276 RBV	10000	Trenton
..... MAD BEADS V308 MANTA V276 ARD	10000	Trenton
..... V1 BELTT	10000	Westhampton Beach
..... (3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
..... PWL V34 WEETS LVZ	6000	Wilkes-Barre
..... CTR	10000	Albany
..... PWL HUO V162	5000	Allentown
..... ORW V16 JFK V229 ACY	10000	Atlantic City
..... MAD BEADS V308 BRIGS	10000	Atlantic City
..... GDM V93 CON	10000	Augusta
..... ORW V16 ENO V268 BAL	10000	Baltimore
..... MAD BEADS V268	10000	Baltimore
..... GDM V39 AUG	10000	Bangor
..... GDM V106 ENE	10000	Bar Harbor
..... DREEM	10000	Bedford & NO SATS
..... PUT PUT105 WOONS	10000	Boston & SO SATS
..... HFD	10000	Bridgeport
..... CTR ALB V14	10000	Buffalo
..... GDM	10000	Concord
..... (3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
..... (5) BAF IGN V157 HAARP	10000	Danbury
..... ORW V16 ENO	10000	Dover AFB
..... MAD BEADS V268 ENO	10000	Dover AFB
..... CTR V270	10000	Elmira
..... CTR V270	10000	Erie
..... ORW GON	10000	Groton
..... PUT V151 GAILS	10000	Hyannis
..... MAD V1 BELTT	10000	Islip
..... GDM	10000	Keene
..... MAD V1 DPK	10000	Kennedy
..... (3) HFD V1 MAD V475	10000	LaGuardia

Bradley/Worcester

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	GDM V151	10000	Lebanon
	GDM V106 MHT	10000	Manchester
	PUT V151 PVD V405 MVY	10000	Marthas Vineyard
	GON CCC V16 CYN	10000	McGuire AFB
	MAD BEADS V308 DRIFT V312 CYN	10000	McGuire AFB
	PUT V151 PVD PVD167 NEWBE DEEPO	10000	Nantucket
	(1) HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
	HDF V3 CMK V623 SAX	10000	Newark & SATS
	ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
	MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
	PUT PUT105 WOONS	10000	Norwood
	ORW V16 VCN OOD	10000	Philadelphia
	MAD BEADS V308 BRIGS ACY V184 OOD	10000	Philadelphia
	GDM V106 ENE	10000	Portland
	GDM V106 RAYMY	10000	Portsmouth
	PUT PVD	10000	Providence
	PUT V151 GAILS	10000	Provincetown
	ORW V16 RIC	10000	Richmond
	MAD BEADS V268 ENO V16	10000	Richmond
	CTR ALB	10000	Rochester
	(GNSS equipped only) VEERS T212 TRESA	10000	Stewart
	CTR ALB	10000	Syracuse
	ORW V16 DIXIE V276 RBV	10000	Trenton
	MAD BEADS V308 MANTA V276 ARD	10000	Trenton
	ORW HTO	10000	Westhampton Beach
	(3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
	PWL V34 WEETS LVZ	6000	Wilkes-Barre
Bridgeport (See New York/Bridgeport)			
Buffalo	V2	10000	Detroit
	V14	10000	Erie
	V115	10000	Jamestown
Burlington	CAM	10000	Albany
	V141 LEB LEB167 BASUU	10000	Bedford
	V141 CON LWM	10000	Beverly
	(3) V141 CON TOMIE LWM	10000	Boston
	EEN	10000	Bradley
	ALB V44 DENNA	10000	Bridgeport
	(3) ALB V123 HAARP	10000	Danbury
	(4) ALB V157 HAARP	10000	Danbury
	V229 GDM V14 ORW GON	10000	Groton
	V229 HFD	10000	Hartford
	V141 CON LWM BOS GAILS	10000	Hyannis
	V141 CON LWM BOS	10000	Marthas Vineyard
	V141 CON LWM BOS LFW	10000	Nantucket
	V229 SPENO	10000	Norwich
	V141 LEB LEB167 BASUU	10000	Norwood
	V229 GDM V151 PVD	10000	Providence
	V141 CON LWM BOS	10000	Provincetown
	ALB V123 TRESA	10000	Stewart
Cape/Hyannis	PVD V146	10000	Albany
	MVY MVY230 V34 SEY HTO V308 BRIGS	10000	Atlantic City
	(1) MINNK V374 GON CCC V16 JFK V229	10000	Atlantic City
	FREDO BOS PSM ENE	10000	Augusta
	MVY MVY230 V34 SEY HTO V268	10000	Baltimore
	(1) MINNK V374 GON CCC V16 ENO V268	10000	Baltimore
	FREDO BOS PSM ENE BGR	10000	Bangor
	FREDO BOS PSM ENE	10000	Bar Harbor
	FREDO	10000	Bedford
	FREDO	10000	Boston & Sats
	PVD	10000	Bradley
	(water) MVY MVY230 V34 SEY HTO HTO302 KEYED	10000	Bridgeport
	(land) MINNK V374 CREAM	10000	Bridgeport
	PVD V146 ALB V14	10000	Buffalo
	PVD V151 GDM V229	10000	Burlington
	FREDO BOS MHT CON	10000	Concord

# TOWER ENROUTE CONTROL

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Approach Control Area  
(Including Satellites)

Route	Highest Altitude	Destination
..... (3) PVD HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
..... (5) PVD V146 BAF V157 HAARP	10000	Danbury
..... MVY MVY230 V34 SEY HTO V268 ENO	10000	Dover AFB
..... (1) MINNK V374 GON CCC V16 ENO	10000	Dover AFB
..... PVD V146 CTR V270	10000	Elmira
..... PVD V146 CTR V270	10000	Erie
..... (5) MVY MVY230 V34 SEY V268 HTO V46 DPK	10000	Farmingdale
..... MINNK V374 GON CCC V46 DPK	10000	Farmingdale
..... Direct	10000	Groton
..... PVD HFD	10000	Hartford
..... (5) MVY MVY230 V34 SEY V268 HTO V46 CCC	10000	Islip
..... (1) MINNK V374 GON CCC	10000	Islip
..... PVD V151 GDM	10000	Keene
..... MVY MVY230 V34 SEY HTO V46 DPK	10000	Kennedy
..... MINNK V374 GON CCC V46 DPK	10000	Kennedy
..... PVD V167 HFD VI MAD V475	10000	LaGuardia
..... PVD V151	10000	Lebanon
..... FREDO BOS	10000	Manchester
..... MVY MVY230 V34 SEY HTO V308 DRIFT V312 CYN	10000	McGuire AFB
..... (1) MINNK V374 GON CCC V16 CYN	10000	McGuire AFB
..... (1) PVD V167 HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
..... (3) PVD V167 HFD V3 CMK V623 SAX	10000	Newark & SATS
..... MVY MVY230 V34 SEY V268 HTO V46 CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... (1) MINNK V374 GON CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... FREDO	10000	Norwood
..... MVY MVY230 V34 SEY HTO V308 BRIGS ACY V184 OOD	10000	Philadelphia
..... (1) MINNK V374 GON CCC V16 VCN OOD	10000	Philadelphia
..... FREDO BOS PSM ENE	10000	Portland
..... FREDO BOS	10000	Portsmouth
..... Direct	10000	Providence
..... MVY MVY230 V34 SEY HTO V308 CHOPS V16	10000	Richmond
..... (1) MINNK V374 GON CCC V16	10000	Richmond
..... PVD V146 ALB	10000	Rochester
..... (GNSS equipped only) PVD T255 NELIE T212 TRESA	10000	Stewart
..... PVD V146 ALB	10000	Syracuse
..... MVY MVY230 V34 SEY HTO V308 MANTA V276 RBV	10000	Trenton
..... (1) MINNK V374 GON CCC V16 DIXIE V276 ARD	10000	Trenton
..... (5) MVY MVY230 V34 SEY V268 HTO V46 CCC	10000	Westhampton Beach
..... (1) MINNK V374 GON CCC	10000	Westhampton Beach
..... PVD V167 HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
..... PVD PUT	10000	Worcester
..... PVD V146	10000	Albany
..... MVY MVY230 V34 SEY HTO V308 BRIGS	10000	Atlantic City
..... (1) V374 GON CCC V16 JFK V229	10000	Atlantic City
..... MVY MVY230 V34 SEY HTO V268	10000	Baltimore
..... (1) V374 GON CCC V16 ENO V268	10000	Baltimore
..... FREDO BOS PSM ENE	10000	Bar Harbor
..... FREDO	10000	Boston & SATS
..... PVD	10000	Bradley
..... MVY MVY230 V34 SEY HTO HTO302 KEYED (water)	10000	Bridgeport
..... (land) V374 CREAM	10000	Bridgeport
..... PVD V146 ALB V14	10000	Buffalo
..... PVD V151 GDM V229	10000	Burlington
..... FREDO BOS MHT CON	10000	Concord
..... (3) PVD HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
..... SEY V34 CREAM BDR BDR288 RYMES	10000	Danbury
..... (5) MVY V146 BAF IGN V157 HAARP	10000	Danbury
..... (1) MVY MVY230 V34 SEY HTO V268 ENO	10000	Dover AFB

Cape/Martha's  
Vineyard



TOWER ENROUTE CONTROL

Approach Control Area  
(Including Satellites)

Route	Highest Altitude	Destination
(1) V374 GON CCC V16 ENO	10000	Dover AFB
PVD V146 CTR V270	10000	Elmira
PVD V146 CTR V270	10000	Erie
MVY MVY230 V34 SEY HTO V46 DPK	10000	Farmingdale
V374 GON CCC V46 DPK	10000	Farmingdale
Direct	10000	Groton
MVY MVY230 V58 HFD	10000	Hartford
(5) MVY MVY230 V34 SEY V268 HTO V46 CCC	10000	Islip
(1) V374 GON CCC	10000	Islip
PVD V151 GDM	10000	Keene
MVY MVY230 V34 SEY HTO V46 DPK	10000	Kennedy
V374 GON CCC V46 DPK	10000	Kennedy
PVD V167 HFD V1 MAD V475	10000	LaGuardia
PVD V151	10000	Lebanon
FREDO BOS MHT	10000	Manchester
MVY MVY230 V34 SEY HTO V308 DRIFT V312 CYN	10000	McGuire AFB
(1) V374 GON CCC V16 CYN	10000	McGuire AFB
(1) PVD V167 HFD V229 V188 CMK V623 SAX	10000	Newark & SATS
(3) PVD V167 HFD V3 CMK V623 SAX	10000	Newark & SATS
MVY MVY230 V34 SEY HTO V308 MANTA V276 ARD	10000	N.E. Philadelphia
(1) V374 GON CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
FREDO	10000	Norwood
MVY MVY230 V34 SEY HTO V308 BRIGS ACY V184 OOD	10000	Philadelphia
(1) V374 GON CCC V16 VCN OOD	10000	Philadelphia
FREDO BOS PSM ENE	10000	Portland
FREDO BOS PSM	10000	Portsmouth
Direct	10000	Providence
MVY MVY230 V34 SEY HTO V308 CHOPS V16	10000	Richmond
(1) V374 GON CCC V16	10000	Richmond
PVD V146 ALB	10000	Rochester
(GNSS equipped only) PVD T255 NELIE T212 TRESA	10000	Stewart
PVD V146 ALB	10000	Syracuse
MVY MVY230 V34 SEY HTO V308 MANTA V267 RBV	10000	Trenton
(1) V374 GON CCC V16 DIXIE V276 ARD	10000	Trenton
MVY MVY230 V34 SEY V268 HTO V46 CCC	10000	Westhampton Beach
(1) V374 GON CCC	10000	Westhampton Beach
(Land) PVD V167 HFD V1 MAD V475 BDR RYMES	10000	White Plains
(Water) SEY V34 CREAM BDR BDR288 RYMES	10000	White Plains
PVD PUT	10000	Worcester
ACK 146	10000	Albany
ACK V34 SEY HTO V308 BRIGGS	10000	Atlantic City
(1) ACK V146 MVY V374 GON CCC V16 JFK V229	10000	Atlantic City
ACK FREDO BOS PSM ENE	10000	Augusta
ACK V34 SEY HTO V268	10000	Baltimore
(1) ACK V146 MVY V374 GON CCC V16 ENO V268	10000	Baltimore
ACK FREDO BOS PSM ENE BGR	10000	Bangor
ACK FREDO BOS PSM ENE	10000	Bar Harbor
ACK FREDO	10000	Bedford
ACK FREDO	10000	Boston & SATS
ACK V146 PVD	10000	Bradley
ACK V34 SEY HTO HTO302 KEYED (water)	10000	Bridgeport
(land) ACK V146 MVY V374 CREAM	10000	Bridgeport
ACK V146 ALB V14	10000	Buffalo
ACK V146 PVD V151 GDM V229	10000	Burlington
ACK FREDO BOS MHT CON	10000	Concord
(3) ACK V146 PVD HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
MVY SEY V34 CREAM BDR BDR288 RYMES	10000	Danbury
(5) ACK V146 BAF IGN V157 HAARP	10000	Danbury
ACK V34 SEY HTO V268 ENO	10000	Dover AFB

Cape/Nantucket

# TOWER ENROUTE CONTROL

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Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	..... (1) ACK V146 MZY V374 GON CCC V16 ENO	10000	Dover AFB
	..... ACK V146 CTR V270	10000	Elmira
	..... ACK V146 CTR V270	10000	Erie
	..... (5) ACK V34 SEY V268 HTO V46 DPK	10000	Farmingdale
	..... ACK V146 MZY V374 GON CCC V46 DPK	10000	Farmingdale
	..... ACK	10000	Groton
	..... ACK V58 HFD	10000	Hartford
	..... (5) ACK V34 SEY V268 HTO V46 CCC	10000	Islip
	..... (1) ACK V146 MZY V374 GON CCC	10000	Islip
	..... ACK V146 PVD V151 GDM	10000	Keene
	..... (5) ACK V34 SEY V268 HTO V46 DPK	10000	Kennedy
	..... ACK V146 MZY V374 GON CCC V46 DPK	10000	Kennedy
	..... ACK V146 PVD V167 HFD V1 MAD V475	10000	La Guardia
	..... ACK V146 PVD V151	10000	Lebanon
	..... ACK FREDO BOS MHT	10000	Manchester
	..... ACK V34 SEY HTO V308 DRIFT V312 CYN	10000	McGuire AFB
	..... (1) ACK V146 MZY V374 GON CCC V16 CYN	10000	McGuire AFB
	..... (1) ACK V146 PVD V167 HFD V229 V188 CMK V623 SAX	10000	Newark & SATS
	..... (3) ACK V146 PVD V167 HFD V3 CMK V623 SAX	10000	Newark & SATS
	..... ACK V34 SEY HTO V308 MANTA V276 ARD	10000	N.E. Philadelphia
	..... (1) ACK V146 MZY V374 GON CCC V16 DIXIE V276 ARD	10000	N.E. Philadelphia
	..... ACK FREDO	10000	Norwood
	..... ACK V34 SEY HTO V308 BRIGS ACY V184 OOD	10000	Philadelphia
	..... (1) ACK V146 MZY V374 GON CCC V16 VCN OOD	10000	Philadelphia
	..... ACK FREDO BOS PSM ENE	10000	Portland
	..... ACK FREDO BOS PSM	10000	Portsmouth
	..... ACK V146 PVD	10000	Providence
	..... ACK V34 SEY HTO V308 CHOPS V16	10000	Richmond
	..... (1) ACK V146 MZY V374 GON CCC V16	10000	Richmond
	..... (GNSS equipped only) ACK V146 PVD T255 NELIE T212 TRESA	10000	Stewart
	..... ACK V146 ALB	10000	Syracuse
	..... ACK V34 SEY HTO V308 MANTA V276 RBV	10000	Trenton
	..... (1) ACK V146 MZY V374 GON CCC V16 DIXIE V276 ARD	10000	Trenton
	..... (5) ACK V34 SEY V268 HTO	10000	Westhampton Beach
	..... (1) ACK V146 MZY V374 GON CCC	10000	Westhampton Beach
	..... (Land) ACK V146 PVD V167 HFD V1 MAD V475 BDR BDR288 RYMS	10000	White Plains
	..... (Water) ACK MZY SEY V34 CREAM BDR BDR288 RYMS	10000	White Plains
	..... ACK V146 PUT	10000	Worcester
Charleston	..... V35	9000	Clarksburg
	..... V4	9000	Elkins
	..... HVQ HVQ268 KIRRK	10000	Huntington
Dover AFB	..... ENO V268 LEEAH	7000	Atlantic City
	..... ENO V268 SWANN	6000	Baltimore
	..... V16 JFK V229 BDR (Single Engine only)	7000	Bridgeport
	..... ENO V16 HEDGE	3000	Easton
	..... V16 JFK V229 (Single Engine only)	7000	Hartford
	..... ENO V16 CYN	7000	McGuire AFB
	..... ENO V29 SBY V1	6000	Norfolk
	..... ENO V16	6000	Patuxent River
	..... ENO V29 PXT063 PXT	4000	Patuxent River
	..... ENO V29 DQO	5000	Philadelphia
	..... ENO V29	6000	Salisbury
	..... ENO V16 CHOPS V308 BILIT CAPKO OTT	6000	Washington
	..... ENO V29 DQO	5000	Wilmington
Dulles	..... DIRECT	4000	Baltimore
	..... MRB V214 WOOLY EMI V419 MXE ARD V214 METRO (-180 kts)	7000	Newark
	..... MRB V214 WOOLY EMI V419 MXE V3 SBJ TEB METRO (-180 kts only)	7000	Teterboro
	..... DIRECT	3000	Washington
Elmira	..... V428 V14	8000	Albany

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
Griffiss	..... V72	8000	Binghamton
	..... V147	8000	Rochester
	..... V31	8000	Rochester
	..... V35	8000	Syracuse
	..... V36 V29	8000	Wilkes-Barre
	..... V147	8000	Wilkes-Barre
	..... UCA V490 GALWA	10,000	Albany
	..... UCA V2	10,000	Albany
	..... GGT V14	10,000	Albany
	..... UCA V428 V29	8000	Binghamton
Harrisburg	..... UCA V428	8000	Elmira
	..... UCA V496	10,000	Glens Falls
	..... UCA V2	10,000	Syracuse
	..... HAR V162 ETX	7000	Allentown
	..... LRP V39 ETX	7000	Allentown
	..... HAR V469 OOD V184	5000	Atlantic City
	..... LRP LRP144 PADRE DQO OOD V184	5000	Atlantic City
	..... LRP V499	6000	Baltimore
	..... HAR V31	8000	Baltimore
	..... LRP V499	7000	Binghamton
Manchester	..... LRP V39 ROBRT AML	8000	Dulles
	..... HAR V162 V39 ROBRT AML	8000	Dulles
	..... LRP V39 V162 FJC V6 V232 COL (Props only)	7000	Kennedy
	..... HAR V162 FJC V6 V232 COL (Props only)	7000	Kennedy
	..... HAR V162 FJC V6 V232 TYKES V123 NANCI (Props only)	7000	LaGuardia
	..... LRP V39 V162 FJC V6 V232 TYKES V123 NANCI (Props only)	7000	LaGuardia
	..... HAR V162 FJC BWZ (Props only)	7000	Newark
	..... LRP V39 V162 FJC BWZ (Jets only)	7000	Newark
	..... LRP V210 BUNTS	5000	North Philadelphia
	..... HAR V210 BUNTS	5000	Philadelphia
	..... LRP LRP082 HUMEL (RDG ILS)	3000	Reading
	..... HAR V12 BOYER	5000	Reading
	..... HAR V162 FJC STW	7000	Teterboro
	..... LRP V39 V162 FJC STW	7000	Teterboro
	..... HAR V265 KRANT	8000	Washington
	..... LRP V93 BAL	8000	Washington
	..... HAR V162 FJC STW SAX V39 BREZY	7000	Westchester Co.
	..... LRP V39 V162 FJC STW SAX V39 BREZY	7000	Westchester Co.
	..... LRP V93	7000	Wilkes-Barre
	..... HAR RAV HZL	7000	Wilkes-Barre
	..... LRP LRP144 PADRE DQO	5000	Wilmington
	..... V469	5000	Wilmington
	..... (GNSS equipped only) EEN T295 LAAYK	10000	Allentown
	..... GDM ORW V16 JFK V229 ACY	10000	Atlantic City
	..... GDM HFD MAD BEADS V308 BRIGS	10000	Atlantic City
	..... GDM ORW V16 JFK V16 ENO V268 SWANN	10000	Baltimore
	..... GDM HFD MAD BEADS HTO V268 SWANN	10000	Baltimore
	..... (GNSS equipped only) EEN T295 LRP V93 BAL	10000	Baltimore
	..... GDM ORW V16 JFK COL	10000	Belmar
	..... GDM HFD MAD BEADS V308 MANTA V276 DIXIE	10000	Belmar
..... TOMIE LWM	10000	Boston	
..... GDM V229 WITNY	10000	Bradley	
..... CLOWW WITNY (RNAV only)	10000	Bradley	
..... GDM V229 HFD	10000	Bridgeport	
..... CLOWW WITNY HFD (RNAV only)	10000	Bridgeport	
..... (3) GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury	
..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	Danbury	
..... GDM ORW V16 ENO	10000	Dover AFB	
..... GDM HFD MAD BEADS V268 ENO	10000	Dover AFB	
..... EEN V93 CTR V270	10000	Elmira	
..... GDM HFD V1 DPK	10000	Farmingdale	
..... GDM V14 ORW GON	10000	Groton	

# TOWER ENROUTE CONTROL

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**Approach Control Area  
(Including Satellites)**

Route	Highest Altitude	Destination
..... (GNSS equipped only) EEN T295 DUMMR V162 HAR	10000	Harrisburg
..... GDM V229 HFD	10000	Hartford
..... CLOWW WITNY HFD (RNAV only)	10000	Hartford
..... LWM BOS GAILS	10000	Hyannis
..... GDM HFD V1 BELTT	10000	Islip
..... GDM HFD V1 DPK	10000	Kennedy
..... (3) GDM V229 HFD V1 MAD V475	10000	LaGuardia
..... (GNSS equipped only) EEN T295 LRP	10000	Lancaster
..... BOS	10000	Marthas Vineyard
..... BOS Lfv	10000	Nantucket
..... (1) GDM V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
..... (3) GDM V229 HFD V3 CMK V623 SAX	10000	Newark & SATS
..... CLOWW WITNY HFD V229 V188 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... CLOWW WITNY HFD V3 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... GDM V229 HFD	10000	New Haven
..... CLOWW WITNY HFD (RNAV only)	10000	New Haven
..... GDM ORW V16 JFK V1 ORF	10000	Norfolk
..... GDM HFD MAD BEADS V308 HTO V139	10000	Norfolk
..... GDM ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... GDM HFD MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
..... GDM ORW V16 VCN OOD	10000	Philadelphia
..... GDM HFD MAD BEADS V308 BRIGS ACY V184 OOD	10000	Philadelphia
..... (GNSS equipped only) EEN T295 LAAYK T216 PSB GRACE	10000	Pittsburgh
..... EEN CTR	10000	Pittsfield
..... GDM V151 PVD	10000	Providence
..... BOS	10000	Provincetown
..... GDM ORW V16 RIC	10000	Richmond
..... GDM HFD MAD BEADS HTO V268 ENO V16	10000	Richmond
..... (GNSS equipped only) GDM V106 BAF VEERS T212 TRESA	10000	Stewart
..... CAM V490 UCA	10000	Syracuse
..... GDM ORW V16 DIXIE V276 RBV	10000	Trenton
..... GDM HFD MAD BEADS V308 MANTA V276 RBV	10000	Trenton
..... GDM V229 HFD V3 SORRY	10000	Waterbury–Oxford
..... CLOWW WITNY HFD (RNAV only)	10000	Waterbury–Oxford
..... GDM ORW V308 HTO	10000	Westhampton Beach
..... (3) GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
..... (5) EEN V93 PWL IGN V157 HAARP	10000	White Plains
..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	White Plains
..... GDM ORW V16 JFK V229 ACY PANZE V44 SIE	10000	Wildwood
..... GDM ORW V308 SIE	10000	Wildwood
..... (GNSS equipped only) EEN T295 LAAYK	10000	Wilkes–Barre
..... GDM V229 SPENO	10000	Worcester
..... (GNSS equipped only) EEN T295 LAAYK	10000	Allentown
..... (1) MHT V106 GDM HFD MAD JAFFY V16 JFK V229	10000	Atlantic City
..... MHT V106 GDM HFD MAD BEADS V308 BRIGS	10000	Atlantic City
..... (1) GDM HFD MAD JAFFY V16 JFK V16 ENO V268	10000	Baltimore
..... (GNSS equipped only) EEN T295 LRP V93 BAL	10000	Baltimore
..... MHT V106 GDM HFD MAD BEADS V268	10000	Baltimore
..... LWM	10000	Bedford
..... (1) MHT V106 GDM ORW V16 JFK COL	10000	Belmar
..... MHT V106 GDM ORW V308 MANTA V276 DIXIE	10000	Belmar
..... STEVO LWM	10000	Boston
..... MHT V106 GDM V229 WITNY	10000	Bradley
..... CLOWW WITNY (RNAV only)	10000	Bradley
..... MHT V106 GDM V229 HFD	10000	Bridgeport
..... CLOWW WITNY HFD (RNAV only)	10000	Bridgeport
..... (3) MHT V106 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury

Manchester/Pease

## TOWER ENROUTE CONTROL

Approach Control Area  
(Including Satellites)

Route	Highest Altitude	Destination
..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	Danbury
..... (1) MHT V106 GDM HFD MAD JAFFY V16 ENO	10000	Dover AFB
..... MHT V106 GDM HFD MAD BEADS V268 ENO	10000	Dover AFB
..... EEN V93 CTR V270	10000	Elmira
..... MHT V106 GDM HFD V1 DPK	10000	Farmingdale
..... MHT V106 GDM V14 ORW GON	10000	Groton
..... (GNSS equipped only) EEN T295 DUMMR V162 HAR	10000	Harrisburg
..... MHT V106 GDM V229 HFD	10000	Hartford
..... CLOWW WITNY HFD (RNAV only)	10000	Hartford
..... EXALT V139 TONNI	10000	Hyannis
..... MHT V106 GDM HFD V1 BELTT	10000	Islip
..... MHT V106 GDM HFD V1 DPK	10000	Kennedy
..... (3) MHT V106 GDM V229 HFD V1 MAD V475	10000	LaGuardia
..... (GNSS equipped only) EEN T295 LRP	10000	Lancaster
..... EXALT V139 TONNI	10000	Marthas Vineyard
..... EXALT V139 TONNI	10000	Nantucket
..... (1) MHT V106 GDM V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
..... (3) MHT V106 GDM V3 CMK V623 SAX	10000	Newark & SATS
..... (1) CLOWW WITNY HFD V229 V188 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... (3) CLOWW WITNY HFD V3 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... MHT V106 GDM V229 HFD	10000	New Haven
..... CLOWW WITNY HFD (RNAV only)	10000	New Haven
..... (1) MHT V106 GDM HFD MAD JAFFY V16 JFK V1	10000	Norfolk
..... MHT V106 GDM HFD MAD BEADS V139	10000	Norfolk
..... LWM	10000	Norwood
..... (1) MHT V106 GDM HFD MAD JAFFY V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... MHT V106 GDM HFD MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
..... (1) MHT V106 GDM HFD MAD JAFFY V16 VCN OOD	10000	Philadelphia
..... MHT V106 GDM HFD MAD BEADS V308 BRIGS ACY V184 OOD	10000	Philadelphia
..... (GNSS equipped only) EEN T295 LAAYK T216 PSB GRACE	10000	Pittsburgh
..... EEN CTR	10000	Pittsfield
..... MHT V106 GDM V151 PVD	10000	Providence
..... EXALT V139 TONNI	10000	Provincetown
..... (1) MHT V106 GDM HFD MAD JAFFY V16	10000	Richmond
..... MHT V106 GDM HFD MAD BEADS V268 ENO V16	10000	Richmond
..... (GNSS equipped only) MHT V106 BAF VEERS T212 TRESA	10000	Stewart
..... MHT V490 UCA	10000	Syracuse
..... (1) MHT V106 GDM HFD MAD JAFFY V16 DIXIE V276 ARD	10000	Trenton
..... MHT V106 GDM MAD BEADS V308 MANTA V276 ARD	10000	Trenton
..... MHT V106 GDM V229 HFD V3 SORRY	10000	Waterbury–Oxford
..... CLOWW WITNY HFD (RNAV only)	10000	Waterbury–Oxford
..... MHT V106 GDM ORW V308 HTO	10000	Westhampton Beach
..... (3) MHT V106 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
..... (5) EEN V93 PWL IGN V157 HAARP	10000	White Plains
..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	White Plains
..... (1) MHT V106 GDM HFD MAD JAFFY V16 JFK V229 PANZE V44 SIE	10000	Wildwood
..... MHT V106 GDM HFD MAD BEADS V308 SIE	10000	Wildwood
..... (GNSS equipped only) EEN T295 LAAYK	10000	Wilkes–Barre
..... MHT V106 GDM V229 SPENO	10000	Worcester
..... V16 DIXIE V229	4000	Atlantic City
..... COL COL192 DIXIE V229	4000	Atlantic City
..... DIXIE V16 VCN (Overflights only)	6000	Atlantic City

McGuire

# TOWER ENROUTE CONTROL

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Approach Control Area  
(Including Satellites)

Route	Highest Altitude	Destination
..... CYN V1 HOWIE (Overflights only)	6000	Atlantic City
..... DIXIE V229 BDR BDR014 JUDDS (Preferred Single Engine Route)	7000	Bradley
..... DIXIE V16 ENO	6000	Dover AFB
..... DIXIE V229 (Single Engine only)	7000	Hartford
..... DIXIE V229 HFD V167 PVD V151 GAILS (Single Engine Only)	7000	Hyannis
..... RBV V276 DIXIE V16 JFK CCC (Single Engine only)	5000	Islip
..... V184 ZIGGI JFK210 JFK CCC (No single engine; N/A btn 1400-2100 local)	5000	Islip
..... GXU GXU055 RBV122 ZIGGI JFK210 JFK (No Single Engine)	5000	Kennedy
..... RBV V276 DIXIE V16 JFK (Single Engine only)	5000	Kennedy
..... RBV V276 ZIGGI JFK210 JFK (Twins only)	5000	Kennedy
..... V184 ZIGGI JFK210 JFK (Twins only)	5000	Kennedy
..... V229 JFK (Single Engine only)	5000	Kennedy
..... RBV V123 NANCI (Props)	4000	LaGuardia
..... RBV V123 NANCI (Jets only)	8000	LaGuardia
..... DIXIE V229 BDR MAD V475 V188 GON V374 (Single Engine Only)	7000	Martha's Vineyard
..... DIXIE V229 BDR MAD V475 V188 GON V58 NEWBE DEEPO (Single Engine Only)	7000	Nantucket
..... V184 ZIGGI V276 RBV RBV005 OWBIE (Jets only)	6000	Newark
..... DIXIE V276 RBV RBV005 OWBIE (Single Engine only)	5000	Newark
..... V229 DIXIE V276 RBV V249 METRO (Turbojet only)	4000	Newark (Sats)
..... V184 ZIGGI V276 ARD	4000	N. Philadelphia
..... V1 DIXIE V276 ARD	4000	N. Philadelphia
..... RBV V276 ARD	4000	No. Philadelphia
..... V1 CYN V312 OOD (Props only)	4000	Philadelphia
..... V1 CYN V312 OOD (Jets only)	5000	Philadelphia
..... DIXIE V229 JFK V229 BDR MAD V475 V188 GON (Single engine)	7000	Providence
..... DIXIE V16 VCN ATR V1	6000	Salisbury
..... V184 ZIGGI V276 RBV V249 SAX V39 BREZY	5000	Westchester Co.
..... SOARS V487 CANAN	10000	Albany
..... HVO V162 FJC	5000	Allentown
..... CCC V16 DIXIE V229 ACY (Single Engine only)	6000	Atlantic City
..... MAD V1 HFD V229 GDM V39 CON	10000	Augusta
..... MAD HFD CLOWW (/E, /F, /G only)	10000	Augusta
..... CCC V16 ENO V268 SWANN (Single Engine only)	6000	Baltimore
..... MAD V1 HFD V229 GDM V39 AUG	10000	Bangor
..... MAD HFD CLOWW (/E, /F, /G only)	10000	Bangor
..... MAD V1 HFD V229 GDM V106 ENE	10000	Bar Harbor
..... MAD HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
..... MAD V1 HFD HFD053 DREEM	10000	Bedford
..... DPK JFK COL	6000	Belmar
..... MAD V475 V188 GON	9000	Block Island
..... MAD V1 HFD HFD053 DREEM	9000	Boston (North)
..... (3) MAD V475 ORW V16 WOONS	10000	Boston
..... BDR	10000	Bradley
..... BDR	2000	Bridgeport SATS
..... SOARS V487 CAM	10000	Burlington
..... BDR JUDDS (/E, /F, /G only)	1000	Burlington
..... HVO V162 HAR	5000	Capital City
..... MAD V1 HFD V229 GDM V39 CON	10000	Concord
..... MAD HFD CLOWW (/E, /F, /G only)	10000	Concord
..... CCC V16 DIXIE V1 LEEAH V268 BAL BAL294 KROLL MRB AML (Single Engine only)	6000	Dulles
..... MAD MAD126 MONDI	7000	Groton
..... HTO	3000	Hampton
..... MAD V1 HFD	5000	Hartford
..... MAD V475 PVD V151 GAILS	10000	Hyannis
..... CCC	4000	Islip
..... MAD V1 HFD V229 GDM	10000	Keene
..... BDR JUDDS WHATE (/E, /F, /G only)	10000	Keene

New York/Bridgeport

Approach Control Area  
(Including Satellites)

Route	Highest Altitude	Destination
DPK	4000	Kennedy
R/V LGA075	4000	LaGuardia
HUO V162 ETX V39 LRP	5000	Lancaster
MAD V1 HFD V229 GDM V151	10000	Lebanon
BDR JUDDS WHATE (/E, /F, /G only)	10000	Lebanon
MAD V1 HFD V229 GDM V106 MHT	10000	Manchester
MAD HFD CLOWW (/E, /F, /G only)	10000	Manchester
CCC V16 DIXIE V16 CYN (Single Engine only)	6000	McGuire
MAD V475 V188 GON V374 MVY	9000	Martha's Vineyard
MAD	3000	Meriden Markham
CCC V16 VCN (Single Engine only)	6000	Millville
MAD V475 V188 GON V58 NEWBE DEEPO	10000	Nantucket
MAD V475 V188 GON V374 MINNK	9000	New Bedford
DIRECT	2000	New Haven
CMK V188 SAX	4000	Newark
CCC V16 DIXIE V1 (Single Engine only)	6000	Norfolk
(3) MAD V475 ORW V16 WOONS	10000	Norwood
CCC V16 DIXIE V276 ARD (Single Engine only)	6000	N. Philadelphia
DIXIE V16 CYN V312 OOD (Single Engine only)	6000	Philadelphia
MAD V1 HFD V229 GDM V106 ENE	10000	Portland
MAD HFD CLOWW (/E, /F, /G only)	10000	Portland
(3) MAD V1 HFD V229 GDM V106 RAYMY	10000	Portsmouth
MAD HFD CLOWW (/E, /F, /G only)	10000	Portsmouth
MAD V475 V188 GON	9000	Providence
MAD V475 PVD V151 GAILS	10000	Provincetown
MAD V475 V188 GON	9000	Quonset
SAX V249 SBJ V30 ETX V39 FLOAT (Props only)	7000	Reading
CCC V16 (Single Engine only)	6000	Richmond
CCC V16 DIXIE V1 (Single Engine only)	6000	Salisbury
HAAYS HUO V273 HNK	10000	Syracuse
CCC V16 DIXIE V1 V308 BILIT CAPKO (Single Engine only)	6000	Washington
BDR BDR 288 RYMES	4000	Westchester Co.
CCC V16 DIXIE V229 PANZE V44 SIE (Single Engine only)	6000	Wildwood
MAD V1 GRAYM	9000	Worcester
SAX V249 SBJ V30 ETX (Non jet/Non turboprop)	8000	Allentown
CCC V16 DIXIE V229 ACY (Single Engine only)	6000	Atlantic City
CCC V16 DIXIE V1 V308 OTT (Single Engine only)	6000	Andrews AFB
MAD HFD CLOWW (/E, /F, /G only)	10000	Augusta
CCC V16 ENO V268 SWANN (Single Engine only)	6000	Baltimore
MAD HFD CLOWW (/E, /F, /G only)	10000	Bangor
MAD HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
DPK JFK COL	6000	Belmar
HTO V268 SEY	7000	Block Island
HTO V308 ORW V16 WOONS	9000	Boston
MAD V1 HFD HFD053 DREEM	9000	Boston (North)
BDR BDR014 JUDDS (All types)	10000	Bradley
BDR	4000	Bridgeport
BDR JUDDS (/E, /F, /G only)	10000	Burlington
SAX V249 SBJ V30 ETX V162 HAR (Non jet/Non turboprop only)	8000	Capital City
MAD HFD CLOWW (/E, /F, /G only)	10000	Concord
CCC V16 DIXIE V1 LEEAH V268 BAL BAL294 KROLL MRB AML (Single Engine only)	6000	Dulles
HTO HTO034 MONDI	7000	Groton
HTO	3000	Hampton
MAD V1 HFD	5000	Hartford
HTO V139 PVD V151 GAILS	9000	Hyannis
CCC	2000	Islip (SATS)
BDR JUDDS WHATE (/E, /F, /G only)	10000	Keene
DPK	3000	Kennedy
R/V LGA075	5000	LaGuardia
HTO HTO302 NESSI LGA075	6000	LaGuardia
SAX V249 SBJ LANNA V30 ETX V39 LRP (Props only)	8000	Lancaster
BDR JUDDS WHATE (/E, /F, /G only)	10000	Lebanon

# TOWER ENROUTE CONTROL

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**Approach Control Area  
(Including Satellites)**

	<b>Route</b>	<b>Highest Altitude</b>	<b>Destination</b>
	..... CCC V16 CYN (Single Engine only)	6000	McGuire
	..... MAD HFD CLOWW (/E, /F, /G only)	10000	Manchester
	..... HTO V139 WACKY V374 MVY (Single Engine)	9000	Martha's Vineyard
	..... HTO V46 CLAMY (Twin Engine)	9000	Martha's Vineyard
	..... MAD	5000	Meriden
	..... CCC V16 VCN (Single Engine only)	6000	Millville
	..... HTO V46 CLAMY (Twin Engine)	9000	Nantucket
	..... HTO SEY V58 NEWBE DEEPO (Single Engine)	9000	Nantucket
	..... HTO V139 WACKY	9000	New Bedford
	..... HVN	4000	New Haven
	..... CMK V188 SAX	4000	Newark
	..... CCC V16 DIXIE V1 (Single Engine only)	6000	Norfolk
	..... CCC V16 DIXIE V276 ARD (Single Engine only)	6000	N. Philadelphia
	..... CCC V16 CYN V312 OOD (Single Engine only)	6000	Philadelphia
	..... MAD HFD CLOWW (/E, /F, /G only)	10000	Portland
	..... MAD HFD CLOWW (/E, /F, /G only)	10000	Portsmouth
	..... HTO V139 WACKY	9000	Providence
	..... HTO V139 WACKY	9000	Quonset
	..... SAX V249 SBJ V30 ETX V39 FLOAT (Non jet/Non turboprop only)	8000	Reading
	..... CCC V16 (Single Engine only)	6000	Richmond
	..... CCC V16 DIXIE V1 (Single Engine only)	6000	Salisbury
	..... CCC V16 DIXIE V1 ATR V308 BILIT CAPKO (Single Engine only)	6000	Washington
	..... BDR BDR 288 RYMES	5000	Westchester Co.
	..... HTO BDR BDR 288 RYMES	6000	Westchester Co.
	..... HTO V308 GON	9000	Westerly
	..... CCC V16 DIXIE V229 PANZE V44 SIE (Single Engine only)	6000	Wildwood
	..... MAD V1 GRAYM	9000	Worcester
New York /Kennedy	..... SAX V249 SBJ V30 ETX (Non jet/Non turboprop)	8000	Allentown
	..... DIXIE V229 ACY (Props only)	6000	Atlantic City
	..... DIXIE V1 HOWIE (Jets only)	8000	Atlantic City
	..... DIXIE V1 V308 OTT (Props only)	6000	Andrews AFB
	..... BDR HFD CLOWW (/E, /F, /G only)	10000	Augusta
	..... DIXIE V16 ENO V268 SWANN (Props only)	6000	Baltimore
	..... BDR HFD CLOWW (/E, /F, /G only)	10000	Bangor
	..... BDR HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
	..... COL	2000	Belmar
	..... BDR MAD V475 V188 GON	9000	Block Island
	..... BDR V229 HFD V3 WOONS	9000	Boston
	..... BDR V229 HFD HFD053 DREEM	9000	Boston (North)
	..... BDR HFD FOSTY WOONS (/E, /F, /G only)	10000	Boston
	..... BDR (All types)	10000	Bradley
	..... BDR	3000	Bridgeport
	..... BDR JUDDS (/E, /F, /G only)	10000	Burlington
	..... SAX V249 SBJ V30 ETX V162 HAR (Non jet/Non turboprop)	8000	Capital City
	..... BDR HFD CLOWW (/E, /F, /G only)	10000	Concord
	..... DIXIE V1 LEEAH V268 BAL BAL294 KROLL AML (Non-pressurized aircraft only)	6000	Dulles
	..... BDR MAD MAD126 MONDI	9000	Groton
	..... R/V CCC 232 CCC HTO	3000	Hampton
	..... BDR V229 HFD	9000	Hartford
	..... BDR V229 HFD V167 PVD V151 GAILS	9000	Hyannis
	..... R/V ILS 6 LOC (Text Info)	3000	Islip
	..... R/V CCC232 CCC	3000	Islip
	..... BDR JUDDS WHATE (/E, /F, /G only)	10000	Keene
	..... Direct	2000	LaGuardia
	..... SAX V249 SBJ V30 ETX V162 V93 LRP (Props only)	8000	Lancaster
	..... BDR JUDDS WHATE (/E, /F, /G only)	10000	Lebanon
	..... DIXIE V16 CYN	6000	McGuire
	..... BDR HFD CLOWW (/E, /F, /G only)	10000	Manchester
	..... BDR MAD V475 V188 GON V374 MVY	9000	Martha's Vineyard
	..... BDR MAD	3000	Meriden Markham
	..... DIXIE V16 VCN (Props only)	6000	Millville



TOWER ENROUTE CONTROL

Approach Control Area  
(Including Satellites)

	Route	Highest Altitude	Destination
	BDR MAD V475 V188 GON V58 NEWBE DEEPO	10000	Nantucket
	COL V232 SBJ	3000	Newark
	BDR MAD V475 V188 GON V374 MINNK	9000	New Bedford
	DIXIE V1 (Props only)	6000	Norfolk
	DIXIE V276 ARD	4000	N. Philadelphia
	DIXIE V16 CYN V312 OOD (Props only)	6000	Philadelphia
	DIXIE V16 CYN V312 OOD (Jets only)	8000	Philadelphia
	BDR HFD CLOWW (/E, /F, /G only)	10000	Portland
	BDR HFD CLOWW (/E, /F, /G only)	10000	Portsmouth
	BDR MAD V475 V188 GON (210 kts +)	9000	Providence
	BDR MAD V475 V188 GON	9000	Quonset
	SAX V249 SBJ V30 ETX V39 FLOAT (Non jet/Non turboprop only)	8000	Reading
	DIXIE V16 (Props only)	6000	Richmond
	DIXIE V1 (Props only)	6000	Salisbury
	DIXIE V1 ATR V308 BILIT CAPKO (Props only)	6000	Washington
	DPK V483 CMK	2000	Westchester Co
	BDR MAD V475 V188 GON	9000	Westerly
	DIXIE V229 PANZE V44 SIE (Props only)	6000	Wildwood
	DIXIE V1 HOWIE (Jets only)	8000	Wildwood
	BDR MAD V1 GRAYM	9000	Worcester
New York/ LaGuardia	SAX V249 SBJ V30 ETX	8000	Allentown
	DIXIE V229 ACY (Props only)	6000	Atlantic City
	DIXIE V1 HOWIE (Jets only)	8000	Atlantic City
	SAX V249 SBJ LANNA V30 ETX V39 LRP V93 BAL (Props only)	8000	Andrews AFB
	BDR HFD CLOWW (/E, /F, /G only)	10000	Augusta
	BDR HFD CLOWW (/E, /F, /G only)	10000	Bangor
	SAX V249 SBJ LANNA V30 ETX V39 LRP V499 BAL (Props only)	8000	Baltimore
	BDR HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
	JFK COL	6000	Belmar
	BDR MAD V475 V188 GON	9000	Block Island
	BDR V229 HFD V3 WOONS	9000	Boston
	BDR V229 HFD HFD053 DREEM	9000	Boston (North)
	BDR HFD FOSTY WOONS (/E, /F, /G only)	10000	Boston
	BDR (All types)	10000	Bradley
	BDR 248 CCC285 PUGGS V229 BDR	5000	Bridgeport
	R/V BDR248 BDR. . (Helicopter Route)	5000	Bridgeport (Points NE)
	BDR JUDDS (/E, /F, /G only)	10000	Burlington
	SAX V249 SBJ V30 ETX V162 HAR	8000	Capital City
	BDR HFD CLOWW (/E, /F, /G only)	10000	Concord
	SAX V249 SBJ LANNA V30 ETX V39 ROBERT AML (Props only)	8000	Dulles
	BDR MAD MAD126 MONDI	9000	Groton
	BDR 248 BDR HTO	5000	Hampton
	BDR V229 HFD	9000	Hartford
	BDR V229 HFD V167 PVD V151 GAILS	9000	Hyannis
	BDR 248 CCC285 CCC	5000	Islip
	BDR JUDDS WHATE (/E, /F, /G only)	10000	Keene
	DPK	5000	Kennedy
	SBJ SAX V249 V30 ETX V162 V93 LRP (Props only)	7000	Lancaster
	BDR JUDDS WHATE (/E, /F, /G only)	10000	Lebanon
	DIXIE V16 CYN	6000	McGuire
	BDR MAD V475 V188 GON V374 MZY	9000	Martha's Vineyard
	BDR HFD CLOWW (/E, /F, /G only)	10000	Manchester
	BDR MAD	5000	Meriden Markham
	DIXIE V16 VCN (Props only)	6000	Millville
	BDR MAD V475 V188 GON V58 NEWBE DEEPO	10000	Nantucket
	SBJ	3000	Newark
	BDR MAD V475 V188 GON V374 MINNK	9000	New Bedford
	DIXIE V1 (Props only)	6000	Norfolk
	BDR HFD CLOWW (/E, /F, /G only)	10000	Portland
	BDR HFD CLOWW(/E, /F, /G only)	10000	Portsmouth
	BDR MAD V475 V188 GON	9000	Providence
	BDR MAD V475 V188 GON	9000	Quonset

# TOWER ENROUTE CONTROL

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Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	..... SBJ SAX V249 V30 ETX V39 FLOAT	7000	Reading
	..... DIXIE V16 (Props only)	6000	Richmond
	..... DIXIE V1 (Props only)	6000	Salisbury
	..... SAX V249 SBJ LANNA V30 ETX V39 LRP V499 BAL(Props only)	8000	Washington
	..... CMK	3000	Westchester Co.
	..... DIXIE V229 PANZE V44 SIE (Props only)	6000	Wildwood
	..... DIXIE V1 HOWIE (Jets only)	8000	Wildwood
	..... BDR MAD V1 GRAYM	9000	Worcester
New York/Newark	..... LANNA V30 ETX (Jets only)	8000	Allentown
	..... LANNA V30 ETX (Props only)	6000	Allentown
	..... DIXIE V229 ACY (Props only)	6000	Atlantic City
	..... DIXIE V1 HOWIE (Jets only)	8000	Atlantic City
	..... BREZY V39 CMK V3 HFD CLOWW (E, /F, /G only)	10000	Augusta
	..... LANNA V30 ETX V39 LRP V499 BAL (Props only)	6000	Baltimore
	..... (Props 210 kts +)	8000	
	..... BREZY V39 CMK V3 HFD CLOWW (E, /F, /G only)	10000	Bangor
	..... BREZY V39 CMK V3 HFD CLOWW (E, /F, /G only)	10000	Bar Harbor
	..... COL	2000	Belmar
	..... BDR MAD V475 V188 GON (210 kts +)	9000	Block Island
	..... BREZY V39 CMK V3 HFD GON (- 210 kts)	9000	Block Island
	..... BDR V229 HFD HFD053 DREEM (210 kts +)	9000	Boston (North)
	..... BREZY V39 CMK V3 HFD HFD053 DREEM (-210 kts)	9000	Boston (North)
	..... BDR V229 HFD V3 WOONS (210 kts +)	9000	Boston
	..... BREZY V39 CMK V3 WOONS (-210 kts)	9000	Boston
	..... BREZY V39 CMK V3 HFD FOSTY WOONS (E, /F, /G only)	10000	Boston
	..... BDR (Jets only)	10000	Bradley
	..... (1) BREZY V39 CMK V419 JUDDS	9000	Bradley
	..... BDR248 CCC285 V229 (All Jets)	5000	Bridgeport
	..... BREZY V39 CMK V374 DENNA (All Props)	6000	Bridgeport
	..... BREZY V39 CMK SOARS JUDDS (E, /F, /G only)	10000	Burlington
	..... LANNA V30 ETX V162 HAR (Props only)	6000	Capital City
	..... BREZY V39 CMK V3 HFD CLOWW (E, /F, /G only)	10000	Concord
	..... BREZY V39 CMK	3000	Danbury
	..... LANNA V30 ETX V39 ROBERT AML (Props only)	6000	Dulles
	..... (Props 210 kts +)	8000	
	..... SAX V213 HELON	4000	Dutchess Co
	..... DIXIE V1 (Props 210 kts +)	6000	Grand Strand
	..... BDR MAD MAD126 MONDI (+ 210 kts)	9000	Groton
	..... BREZY V39 CMK V3 HFD GON (-210 kts)	9000	Groton
	..... BDR 248 BDR HTO (All Jets)	5000	Hampton
	..... BREZY V39 CMK V374 BETHA HTO (All Props)	6000	Hampton
	..... LANNA V30 ETX V162 HAR (Props only)	6000	Harrisburg Intl
	..... (Props 210 kts +)	8000	
	..... BDR V229 HFD (210 kts +)	9000	Hartford
	..... LANNA V30 ETX (Props only)	6000	Hazleton Muni
	..... (Props 210 kts +)	8000	
	..... BREZY V39 CMK V3 HFD (-210 kts)	9000	Hartford
	..... SBJ BIGGY B3 MAZIE	4000	Heritage Field
	..... BDR V229 HFD V167 PVD V151 GAILS (210 kts +)	9000	Hyannis
	..... BREZY V39 CMK V3 HFD V167 PVD V151 GAILS (-210 kts)	9000	Hyannis
	..... BDR 248 CCC285 CCC (All Jets)	5000	Islip
	..... BREZY V39 CMK V374 DENNA BDR CCC (All Props)	6000	Islip
	..... BREZY V39 CMK SOARS JUDDS WHATE (E, /F, /G only)	10000	Keene
	..... R/V DPK282 (EWR Dep 4 & EWRN)	5000	Kennedy
	..... COL JFK (EWR Dep 22 & EWRN)	4000	Kennedy
	..... LANNA V30 ETX V39 LRP (Props only)	6000	Lancaster
	..... (Props 210 kts +)	8000	
	..... BREZY V39 CMK SOARS JUDDS WHATE (E, /F, /G only)	10000	Lebanon
	..... (4)(5) LANNA V30 ETX	8000	Lehigh Valley Intl

## TOWER ENROUTE CONTROL

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	..... DIXIE V16 (Props only)	6000	Lynchburg Rgnl/Preston Glenn Fld
	..... BREZY V39 CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Manchester
	..... BDR MAD V475 V188 GON V374 MVY (210 kts +)	9000	Martha's Vineyard
	..... BREZY V39 CMK V3 HFD GON V374 MVY (-210 kts)	9000	Martha's Vineyard
	..... DIXIE V16 CYN	6000	McGuire
	..... BDR MAD	5000	Meriden
	..... (2) BREZY V39 CMK V3 YALER	5000	Meriden
	..... DIXIE V16 VCN (Props only)	6000	Millville
	..... BREZY V39 CMK V374 BETHA HTO	6000	Montauk
	..... BREZY V39 CMK V3 HFD V58 NEWBE DEEPO	10000	Nantucket
	..... BDR MAD V475 V188 GON V374 MINNK (210 kts +)	9000	New Bedford
	..... BREZY V39 CMK V3 HFD V167 PVD (-210 kts)	9000	New Bedford
	..... (4) BIGGY V3 MAZIE	8000	New Castle Co
	..... (Props only)	4000	
	..... DIXIE V1 (Props only)	6000	Norfolk
	..... BIGGY V3 MAZIE	4000	Northeast Philadelphia
	..... SAX V213 HELON	4000	Orange Co
	..... (4) BIGGY V3 MAZIE	8000	Philadelphia Intl
	..... (Props only)	4000	
	..... BREZY V39 CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Portland
	..... BREZY V39 CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Portsmouth
	..... BDR MAD V475 V188 GON (210 kts +)	9000	Providence
	..... BREZY V39 CMK V3 HFD V167 PVD (-210 kts)	9000	Providence
	..... BDR MAD V475 V188 GON (210 kts +)	9000	Quonset
	..... BREZY V39 CMK V3 HFD V167 PVD (-210 kts)	9000	Quonset
	..... DIXIE V16 RIC V157 LVL V155 (Props only)	6000	Raleigh-Durham Intl
	..... (4) SBJ LANNA V30 ETX	8000	Reading Rgnl/Carl A Spatz Fld
	..... (Props only)	4000	
	..... DIXIE V16 (Props only)	6000	Richmond
	..... LANNA V30 ETX V39 LRP V93 BAL (Props only)	6000	Ronald Reagan Washington Natl
	..... (Props 210 kts +)	8000	
	..... DIXIE V1 (Props only)	6000	Salisbury
	..... SAX SAX022 MANEE	4000	Stewart Intl
	..... SAX V213 HELON	4000	Sullivan Co Intl
	..... BREZY V39 CMK V374 BETHA HTO	6000	The Francis S Gabreski Arpt
	..... BIGGY V3 MAZIE	4000	Trenton Mercer
	..... BREZY V39 CMK V374 DENNA	6000	Waterbury-Oxford
	..... BREZY	3000	Westchester Co.
	..... DIXIE V229 PANZE V44 SIE (Props only)	6000	Wildwood
	..... Dixie V1 Howie (Jets only)	8000	Wildwood
	..... BDR MAD V1 GRAYM (210 kts +)	9000	Worcester
	..... BREZY V39 CMK V3 HFD V1 GRAYM (-210 kts)	9000	Worcester
New York/Stewart	..... STUBY V487 CANAN	10000	Albany
	..... STUBY V93 CON	10000	Augusta
	..... STUBY V93 CON V39 AUG	10000	Bangor
	..... STUBY V93 ENE	10000	Bar Harbor
	..... STUBY CEF CEF088 DREEM	10000	Bedford
	..... PWL HFD V3 WOONS	10000	Boston
	..... PWL PWL111 BRISS or PWL BAF (BAF/CEF)	10000	Bradley
	..... STUBY V487 CAM	10000	Burlington
	..... STUBY V93 CON	10000	Concord
	..... PWL HFD GON	10000	Groton
	..... PWL PWL111 BRISS	10000	Hartford
	..... PWL HFD V167 PVD V151 GAILS	10000	Hyannis
	..... STUBY	10000	Keene
	..... STUBY	10000	Lebanon
	..... STUBY V93 EEN	10000	Manchester
	..... PWL HFD V374 MVY	10000	Martha's Vineyard
	..... PWL HFD V58 NEWBE DEEPO	10000	Nantucket

# TOWER ENROUTE CONTROL

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Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	..... PWL HFD V3 WOONS	10000	Norwood
	..... STUBY V93 EEN	10000	Portland
	..... PWL BAF V106 RAYMY	10000	Portsmouth
	..... PWL HFD V167 PVD	10000	Providence
	..... PWL HFD V167 PVD V151 GAILS	10000	Provincetown
	..... WEARD DNY	10000	Syracuse
	..... PWL BAF	10000	Worcester
New York/ Westchester	..... HUO V162 FJC	5000	Allentown
	..... DIXIE V229 ACY (Props only)	6000	Atlantic City
	..... DIXIE V1 HOWIE (Jets Only)	8000	Atlantic City
	..... CMK V3 HFD V229 GDM V39 CON	10000	Augusta
	..... CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Augusta
	..... SAX V249 SBJ LANNA V30 ETX V39 LRP V499 BAL (Props only)	8000	Baltimore
	..... CMK V3 HFD V229 GDM V39 AUG	10000	Bangor
	..... CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Bangor
	..... CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Bar Harbor
	..... CMK V3 HFD V229 GDM V106 ENE	10000	Bar Harbor
	..... JFK COL	6000	Belmar
	..... CMK V3 HFD HFD053 DREEM	10000	Boston & NO SATS
	..... (3) CMK V3 WOONS	10000	Boston
	..... CMK V3 HFD FOSTY WOONS (/E, /F, /G only)	10000	Boston
	..... CMK V419 JUDDS	10000	Bradley
	..... CMK V374 DENNA	5000	Bridgeport
	..... CMK V39 SOARS V487 BTV	10000	Burlington
	..... CMK SOARS JUDDS (/E, /F, /G only)	10000	Burlington
	..... HUO V162 HAR	5000	Capital City
	..... CMK V3 HFD V229 GDM V39 CON	10000	Concord
	..... CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Concord
	..... SAX V249 SBJ LANNA V30 ETX V39 ROBERT AML (Props only)	8000	Dulles
	..... CMK V3 HFD GON	10000	Groton
	..... CMK V374 BETHA HTO	5000	Hampton
	..... CMK V3 HFD	10000	Hartford
	..... CMK V3 HFD V167 PVD V151 GAILS	10000	Hyannis
	..... CMK V374 DENNA BDR CCC	5000	Islip
	..... CMK V3 HFD V229 GDM	10000	Keene
	..... CMK SOARS JUDDS WHATE (/E, /F, /G only)	10000	Keene
	..... CMK V483 DPK	3000	Kennedy
	..... DIRECT	3000	LaGuardia
	..... HUO V162 ETX V39 LRP	5000	Lancaster
	..... CMK V3 HFD V229 GDM V15	10000	Lebanon
	..... CMK SOARS JUDDS WHATE (/E, /F, /G only)	10000	Lebanon
	..... CMK V3 HFD V229 GDM V106 MHT	10000	Manchester
	..... CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Manchester
	..... CMK V3 HFD GON V374 MVY	10000	Martha's Vineyard
	..... DIXIE V16 CYN	6000	McGuire
	..... Dixie V16 VCN (Props only)	6000	Millville
	..... CMK V3 HFD V58 NEWBE DEEPO	10000	Nantucket
	..... CMK V374 DENNA	5000	New Haven
	..... NYACK V188 SAX (Props)	4000	Newark
	..... NYACK V188 SAX (Jets)	5000	Newark
	..... DIXIE V1 (Props only)	6000	Norfolk
	..... CMK V3 WOONS	10000	Norwood & N SATS
	..... CMK V3 HFD V229 GDM V106 ENE	10000	Portland
	..... CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Portland
	..... CMK V3 HFD V229 GDM V106 RAYMY	10000	Portsmouth
	..... CMK V3 HFD CLOWW (/E, /F, /G only)	10000	Portsmouth
	..... CMK V3 HFD V167 PVD	10000	Providence
	..... CMK V3 HFD V167 PVD V151 GAILS	10000	Provincetown
	..... SAX V249 SBJ V30 ETX V39 FLOAT (Props only)	7000	Reading
	..... DIXIE V16 (Props only)	6000	Richmond
	..... SAX V249 SBJ LANNA V30 ETX V39 LRP V93 BAL (Props only)	8000	Ronald Reagan Washington Natl
	..... DIXIE V1 (Props only)	6000	Salisbury
	..... HAAYS HUO V273 SYR	10000	Syracuse

TOWER ENROUTE CONTROL

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
Norfolk	..... DIXIE V229 PANZE V44 SIE (Props only)	6000	Wildwood
	..... DIXIE V1 HOWIE (Jets only)	8000	Wildwood
	..... CMK V3 HFD V1 GRAYM	10000	Worcester
	..... HCM V33 COLIN V16 PXT	9000	Patuxent River
	..... HPW V260 RIC (West-bound only)	9000	Richmond
	..... CCV V1 SBY	5000	Salisbury
Patuxent	..... CCV V139 SWL (Northeast-bound only)	5000	Snow Hill
	..... HCM HCM330 SVILL	7000	Washington
	..... SWL V139	5000	Atlantic City
	..... PXT V16 V44	5000	Atlantic City
	..... SBY V1 V44	5000	Atlantic City
	..... SBY332 BAL133	4000	Baltimore
	..... PXT V93	5000	Baltimore
	..... SBY V29 ENO	5000	Dover AFB
	..... PXT V16 ENO	5000	Dover AFB
	..... PXT V16	5000	Dover AFB
Philadelphia	..... SBY VI ATR	5000	Dover AFB
	..... PXT V213 V286 FLUKY	6000	Dulles
	..... COLIN V33 HCM	6000	Newport News
	..... SBY V1 CCV	6000	Norfolk
	..... SWL V139 CCV	6000	Norfolk
	..... WHINO V33 V286 STEIN	5000	Norfolk
	..... PXT V213 ENO V29 DQO	5000	Philadelphia
	..... SBY V29 DQO	5000	Philadelphia
	..... PXT V16	6000	Richmond
	..... PXT V31 ARUYE CAPKO	4000	Washington
	..... SBY CHURK CAPKO	4000	Washington
	..... RV FJC185 FJC	4000	Allentown
	..... OOD VCN V184 ACY	3000	Atlantic City
	..... DQO BAINS TRISH (RNAV)-STAR (Turbojets only)	10000	Baltimore
	..... DQO V166 BELAY V378 BAL (Props only)	6000	Baltimore
	.....	/8000	
	..... OOD V157 ENO	4000	Dover AFB
	..... DQO V29 ENO	4000	Dover AFB
	..... MXE V408 ROBRT AML	8000	Dulles
	..... MXE V184 MXE283027 V469 HAR	6000	Harrisburg
..... PNE PNE090 ARD126 V16 DIXIE (Direct) (Single Engine only)	5000	Kennedy	
..... PNE PNE090 ARD126 V16 V276 ZIGGI (Direct) (No Single Engine)	5000	Kennedy	
..... RBV V123 PROUD (Jets only)	8000	LaGuardia	
..... MXE MXE295 HABER LRP137 LRP	4000	Lancaster	
..... ARD V214 METRO (Non Turbojets only)	5000	Newark	
..... ARD V214 METRO (Turbojet only)	7000	Newark	
..... MXE MXE334 HUMEL	4000	Reading	
..... MXE V3 SBJ	4000	Teterboro	
..... MXE V408 VINNY V93 BAL	8000	Washington	
..... DQO V166 BELAY V378 CLIPR (RNAV)-STAR	8000	Washington	
Portland	..... RV FJC185 FJC BWZ SAX V39 BREZY	5000	Westchester Co.
	..... FJC LVZ	5000	Wilkes Barre/Scranton
	..... CON CAM	10000	Albany
	..... DIRECT	10000	Bangor
	..... DIRECT	10000	Bar Harbor
	..... ENE LWM	10000	Bedford & NO SATS
	..... (3) ENE PSM PSM221 STEVO LWM	10000	Boston
	..... (5) ENE V167 SCUUP	10000	Boston
	..... ENE V106 GDM V229 WITNY	10000	Bradley
	..... CLOWW WITNY (RNAV only)	10000	Bradley
	..... ENE V106 GDM V229 HFD	10000	Bridgeport
	..... CLOWW WITNY HFD (RNAV only)	10000	Bridgeport
	..... (3) ENE V106 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	Danbury
..... ENE V106 GDM V229 HFD V1 DPK	10000	Farmingdale	
..... ENE V106 GDM V14 ORW GON	10000	Groton	

# TOWER ENROUTE CONTROL

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**Approach Control Area  
(Including Satellites)**

Route	Highest Altitude	Destination
..... ENE V106 GDM V229 HFD	10000	Hartford
..... CLOWW WITNY HFD (RNAV only)	10000	Hartford
..... ENE V139 TONNI	10000	Hyannis
..... ENE V106 GDM V229 HFD V1 BELTT	10000	Islip
..... ENE V106 GDM V229 HFD V1 DPK	10000	Kennedy
..... ENE V139 TONNI	10000	Marthas Vineyard
..... ENE V139 TONNI	10000	Nantucket
..... (1) ENE V106 GDM V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
..... (3) ENE V106 GDM V3 CMK V623 SAX	10000	Newark & SATS
..... (1) CLOWW WITNY HFD V229 V188 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... (3) CLOWW WITNY HFD V3 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... CLOWW WITNY HFD (RNAV only)	10000	New Haven
..... (1) ENE V106 GDM V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... ENE V106 GDM HFD MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
..... ENE LWM	10000	Norwood
..... ENE V106 GDM HFD MAD JAFFY V16 VCN OOD	10000	Philadelphia
..... ENE V106 GDM HFD MAD BEADS V308 BRIGS ACY V184 OOD	10000	Philadelphia
..... ENE V139 BURDY	10000	Providence
..... ENE V139 TONNI	10000	Provincetown
..... (GNSS equipped only) ENE V106 BAF VEERS T212 TRESA	10000	Stewart
..... CLOWW WITNY HFD (RNAV only)	10000	Waterbury–Oxford
..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (/RNAV only)	10000	White Plains
..... ENE V106 GDM V229 SPENO	10000	Worcester
..... CON CAM	10000	Albany
..... DIRECT	10000	Bangor
..... DIRECT	10000	Bar Harbor
..... ENE LWM	10000	Bedford & NO SATS
..... (3) ENE PSM PSM 221 STEVO LWM	10000	Boston
..... (5) ENE V167 SCUPP	10000	Boston
..... LABEL V39 GDM V229 WITNY	10000	Bradley
..... CLOWW WITNY (RNAV only)	10000	Bradley
..... LABEL V39 GDM V229 HFD	10000	Bridgeport
..... CLOWW WITNY HFD (RNAV only)	10000	Bridgeport
..... LABEL V39 CON	10000	Concord
..... (3) LABEL V39 GDM V229 HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
..... (3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (RNAV only)	10000	Danbury
..... LABEL V39 HFD V1 DPK	10000	Farmingdale
..... LABEL V39 GDM V14 ORW GON	10000	Groton
..... LABEL V39 GDM V229 HFD	10000	Hartford
..... CLOWW WITNY HFD (RNAV only)	10000	Hartford
..... ENE V139 TONNI	10000	Hyannis
..... LABEL V39 V229 HFD V1 BELTT	10000	Islip
..... LABEL V39 V229 HFD V1 DPK	10000	Kennedy
..... ENE MHT	10000	Manchester
..... ENE V139 TONNI	10000	Marthas Vineyard
..... ENE V139 TONNI	10000	Nantucket
..... (1) LABEL V39 GDM V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
..... (3) LABEL V39 GDM V3 CMK V623 SAX	10000	Newark & SATS
..... CLOWW WITNY HFD V229 V188 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... (3) CLOWW WITNY HFD V3 CMK V623 SAX (RNAV only)	10000	Newark & SATS
..... CLOWW WITNY HFD (RNAV only)	10000	New Haven
..... LABEL V39 GDM ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
..... LABEL V39 GDM HFD MAD BEADS V308 MANTA V276 ARD	10000	N.E. Philadelphia
..... ENE LWM	10000	Norwood
..... ENE V106 GDM HFD MAD JAFFY V16 VCN OOD	10000	Philadelphia

Portland/Augusta

TOWER ENROUTE CONTROL

Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
	ENE V106 GDM HFD MAD BEAS V308 BRIGS ACY V184 OOD	10000	Philadelphia
	ENE	10000	Portsmouth
	ENE V139 BURDY	10000	Providence
	ENE V139 TONNI	10000	Provincetown
	(GNSS equipped only) LABEL V39 GDM V106 BAF VEERS T212 TRESA	10000	Stewart
	CLOWW WITNY HFD (RNAV only)	10000	Waterbury–Oxford
	(3) CLOWW WITNY HFD V1 MAD V475 BDR BDR288 RYMES (E, /F, /G only)	10000	White Plain
Portsmouth	LABEL V39 GDM V229 SPENO	10000	Worcester
	GDM ORW V16 JFK V229 ACY	10000	Atlantic City
	GDM ORW V16 JFK V16 ENO V268 SWANN	10000	Baltimore
	GDM ORW V16 JFK COL	10000	Belmar
	GDM ORW V16 ENO	10000	Dover AFB
	GDM ORW V16 V1 ORF	10000	Norfolk
	GDM ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
	GDM ORW V16 JFK V1 ORF	10000	Philadelphia
	GDM ORW V16 RIC	10000	Richmond
	GDM ORW V16 DIXIE V276 RBV	10000	Trenton
Providence	GDM ORW V16 JFK V229 ACY PANZE V44 SIE	10000	Wildwood
	PUT ALB	10000	Albany
	HFD PWL HUO V162	5000	Allentown
	(1) ORW V16 JFK V229	10000	Atlantic City
	WOONS BOS PSM ENE	10000	Augusta
	(1) ORW V16 ENO V268 SWANN	10000	Baltimore
	WOONS BOS PSM ENE BGR	10000	Bangor
	WOONS BOS PSM ENE	10000	Bar Harbor
	WOONS	10000	Bedford & NO SATS
	(3) WOONS	10000	Boston
	(5) PVD V151 INNDY	10000	Boston
	PVD V405 BDL	10000	Bradley
	HFD	10000	Bridgeport
	PUB ALB V14	10000	Buffalo
	PUT V151 GDM V229	10000	Burlington
	WOONS MHT CON	10000	Concord
	(3) HFD V1 MAD V475 BDR BDR288 RYMES	10000	Danbury
	(5) PUT BAF IGN V157 HAARP	10000	Danbury
	(1) ORW V16 ENO	10000	Dover AFB
	PUT CTR V270	10000	Elmira
	PUT CTR V270	10000	Erie
	V475 ORW V16 CCC V46 DPK	10000	Farmingdale
	HFD PWL HUO V162 FJC	5000	Harrisburg
	HFD	10000	Hartford
	PVD V151 GAILS	10000	Hyannis
	SEY HTO V46 CCC	10000	Islip
	PUT V151 GDM	10000	Keene
	V475 ORW V16 CCC V46 DPK	10000	Kennedy
	PVD V167 HFD V1 MAD V475	10000	LaGuardia
	PUT V151	10000	Lebanon
	WOONS	10000	Manchester
	PVD V167 TUTOR	10000	Marthas Vineyard
	(1) ORW V16 CYN	10000	McGuire AFB
	PVD PVD143 CLAMY	10000	Nantucket
	(1) PVD V167 HFD V229 SEALL V188 CMK V623 SAX	10000	Newark & SATS
	(3) PVD V167 HFD V3 CMK V623 SAX	10000	Newark & SATS
	HFD	10000	New Haven
	(1) ORW V16 DIXIE V276 ARD	10000	N.E. Philadelphia
	WOONS	10000	Norwood & SO SATS
	(1) ORW V16 VCN OOD	10000	Philadelphia
	WOONS BOS PSM ENE	10000	Portland
	WOONS BOS	10000	Portsmouth
	PVD V151 GAILS	10000	Provincetown
	(1) ORW V16	10000	Richmond
	PUT ALB	10000	Rochester

# TOWER ENROUTE CONTROL

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Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination
Providence/Groton	..... (GNSS equipped only) LABEL V39 GDM V106 BAF VEERS T212 TRESA	10000	Stewart
	..... PUT ALB	10000	Syracuse
	..... (1) ORW V16 DIXIE V276 ARD	10000	Trenton
	..... HFD	10000	Waterbury–Oxford
	..... SEY HTO V46 CCC	10000	Westhampton Beach
	..... PVD V167 HFD V1 MAD V475 BDR BDR288 RYMES	10000	White Plains
	..... HFD PWL V34 WEETS LVZ	6000	Wilkes–Barre
	..... PUT	10000	Worcester
	..... GON BAF V146	10000	Albany
	..... HFD PWL HUO V162	5000	Allentown
	..... (1) GON V374 CREAM V16 JFK V229	10000	Atlantic City
	..... ORW V16 BOS PSM ENE	10000	Augusta
	..... (1) GON V374 CREAM V16 ENO V268 SWANN	10000	Baltimore
	..... ORW V16 BOS PSM ENE BGR	10000	Bangor
	..... ORW V16 BOS PSM ENE	10000	Bar Harbor
	..... ORW V16 WOONS	10000	Bedford & NO SATS
	..... (3) ORW V16 WOONS	10000	Boston
	..... (5) PVD V151 INNDY	10000	Boston
	..... HFD	10000	Bradley
	..... GON V374 CREAM	10000	Bridgeport
	..... GON BAF V146 ALB V14	10000	Buffalo
	..... ORW V14 GDM V229	10000	Burlington
	..... ORW V16 WOONS MHT CON	10000	Concord
	..... (3) GON V374 CREAM BDR BDR288 RYMES	10000	Danbury
	..... (5) ORW BAF IGN V157 HAARP	10000	Danbury
	..... (1) GON V374 CREAM V16 ENO	10000	Dover AFB
	..... GON CTR V270	10000	Elmira
	..... GON CTR V270	10000	Erie
	..... GON V374 KURTY V16 CCC V46 DPK	10000	Farmingdale
	..... HFD	10000	Hartford
	..... PVD V151 GAILS	10000	Hyannis
	..... GON V374 V16 CCC	10000	Islip
	..... ORW V14 GDM	10000	Keene
	..... GON V374 KURTY V16 CCC V46 DPK	10000	Kennedy
	..... GON V374 CREAM BDR V475	10000	LaGuardia
	..... ORW V14 GDM V151	10000	Lebanon
	..... ORW V16 WOONS	10000	Manchester
	..... GON V374 MZY	10000	Marthas Vineyard
	..... (1) GON V374 CREAM V16 CYN	10000	McGuire AFB
	..... GON V58 NEWBE DEEPO	10000	Nantucket
	..... (1) GON HFD V229 SEALL V188 CMK V623 SAX	10000	Neward & SATS
	..... (3) GON HFD V3 CMK V623 SAX	10000	Newark & SATS
	..... GON V374 CREAM	10000	New Haven
	..... (1) GON V374 CREAM V16 DIXIE V276 ARD	10000	N.E. Philadelphia
	..... ORW V16 WOONS	10000	Norwood & SO SATS
..... (1) GON V374 CREAM V16 VCN OOD	10000	Philadelphia	
..... ORW V16 WOONS BOS PSM ENE	10000	Portland	
..... ORW V16 WOONS BOS	10000	Portsmouth	
..... PVD V151 GAILS	10000	Provincetown	
..... (1) GON V374 CREAM V16	10000	Richmond	
..... GON BAF V146 ALB	10000	Rochester	
..... (GNSS equipped only) GON NELIE T212 TRESA	10000	Stewart	
..... GON BAF V146 ALB	10000	Syracuse	
..... (1) GON V374 CREAM V16 DIXIE V276 ARD	10000	Trenton	
..... GON V374 CREAM	10000	Waterbury–Oxford	
..... GON V374 V16 CCC	10000	Westhampton Beach	
..... GON V374 CREAM BDR BDR288 RYMES	10000	White Plains	
..... HFD PWL V34 WEETS LVZ	6000	Wilkes–Barre	
..... ORW V14 GRAYM	10000	Worcester	
Reading	..... ETX	3000	Allentown
	..... BOYER V12 HAR	4000	Harrisburg
	..... V39	4000	Lancaster
	..... FJC BWZ	5000	Newark
	..... PTW	5000	No.Philadelphia



Approach Control Area (Including Satellites)	Route	Highest Altitude	Destination	
Richmond	..... MXE 355 BUNTS	5000	Philadelphia	
	..... V93	5000	Wilkes-Barre	
	..... MXE V29 DQO	5000	Wilmington	
	..... V286 STEIN	5000	Norfolk	
	..... V33 HCM	6000	Norfolk	
	..... V38 HCM	9000	Norfolk	
	..... V16	5000	Patuxent River NAS	
	..... V33	5000	Patuxent River	
	..... V376	8000	Washington	
	..... PSK V45	7000	Greensboro	
Roanoke	..... V103	10000	Greensboro	
	..... V119 GEE V464 DKK V14	10000	Cleveland	
Rochester	..... VESPE V14 ALB	10000	Albany	
	..... V483 SHERB V14 ALB GDM V431 LOBBY	10000	Bedford	
Syracuse	..... V29	6000	Binghamton	
	..... V483 SHERB V14 ALB GDM V431 REVER	10000	Boston	
Washington	..... ALB	10000	Bradley	
	..... RKA V433 PETER V270 ATHOS V44 DENNA	10000	Bridgeport	
	..... (3) RKA V433 TRESA V123 HAARP	10000	Danbury	
	..... V35	8000	Elmira	
	..... V29 V428	8000	Elmira	
	..... ALB V203 STELA GON	10000	Groton	
	..... ALB	10000	Hartford	
	..... ALB CTR PVD V151 GAILS	10000	Hyannis	
	..... ALB CTR PVD V405 MVY	10000	Marthas Vineyard	
	..... ALB CTR PVD V405 MVY	10000	Nantucket	
	..... V483 SHERB V14 ALB GDM V431 LOBBY	10000	Norwood	
	..... CAM CON	10000	Portland	
	..... ALB CTR PVD	10000	Providence	
	..... ALB CTR PVD V151 GAILS	10000	Provincetown	
	..... V14	10000	Rochester	
	..... ALB V203 STELA	10000	Worcester	
	..... DIRECT	4000	Baltimore	
	..... DIRECT	3000	Dulles	
	..... V265	5000	Harrisburg	
	..... V265 V457 LRP	5000	Lancaster	
	..... V265 EMI V419 MXE ARD V214 METRO (-180 kts only)	7000	Newark	
	..... DIRECT	3000	Patuxent River NAS	
	..... V123 V433 DQO	7000	Philadelphia	
	..... OJAAY ZUNAR		Richmond	
	..... BAL V378 MXE V3 SBJ TEB (-180 kts only)	7000	Teterboro	
	Westchester (See New York/Westchester)			
	Wilkes-Barre	..... V164 ETX	5000	Allentown
..... V29		8000	Binghamton	
..... LVZ V106 SEG V31 HAR		8000	Capital City	
..... V499		7000	Binghamton	
..... V147		8000	Elmira	
..... V36		8000	Elmira	
..... V106 SEG V31		8000	Harrisburg	
..... HZL RAV		8000	Harrisburg	
..... V93		6000	Lancaster	
..... V613 FJC BWZ (Non jets only)		5000	Newark	
..... V613 FJC BWZ (Jets only)		6000	Newark	
..... V93		6000	Reading	

## NORTH AMERICAN ROUTES FOR NORTH ATLANTIC TRAFFIC (NAR)

### “NORTH AMERICAN ROUTE PROGRAM (NRP).”

#### Introduction

- (a) The North American Route Program (NRP) is a joint FAA and NAV CANADA program, the objective of which is to harmonize and adopt common procedures, to the extent possible, for application to random route flight operations at and above FL 290 within the conterminous U.S. and Canada.
- (b) The NRP will be implemented through various phases with the end goal of allowing all international and domestic flight operations to participate in the NRP throughout the conterminous U.S., Alaska, and Canada.
- (c) Flights may participate in the NRP under specific guidelines and filing requirements:
  1. provided the flight originates and terminates within conterminous U.S. and Canada; or,
  2. for North Atlantic international flights operating within the North American Route (NAR) System.

#### FAA/NAV CANADA Common Procedures

The following common FAA and NAV CANADA procedures apply:

- (a) Flights to operate at or above FL 290.
- (b) For that portion of flight within 200 NM of the departure or destination airport, flights shall be filed and operated via Standard Instrument Departures (SID), Departure Procedures (DP), Standard Terminal Arrival Routes (STAR) or published Preferred IFR Routes. If none of the above are available, airways may be used.
- (c) NRP flights are not normally subject to routing restrictions such as published Preferred IFR Routes or airways, beyond a 200 NM radius of both the departure and destination airports.
- (d) Flight planning requirements are:
  1. routes shall contain at least one significant point in each delegated area of airspace jurisdiction for each FAA Air Route Traffic Control Center (ARTCC) or Canadian FIR/CTA;
  2. significant points may be a navigational aid or waypoint defined in fix-radial distance (FRD) format from a navigational aid. Within Canadian airspace a significant point may also be a coordinate described in degrees and minutes of latitude/longitude;
  3. for routes that cross the U.S./Canadian border, a significant point within 30 NM of either side of the border shall be filed;
  4. significant points should be filed for all turnpoints;
  5. route(s) shall avoid active Class F airspace;
  6. “NRP” shall be entered in the Remarks section of the flight plan; and
  7. flight plans to be filed at least one hour prior to departure.
- (e) In the event that a NRP aircraft has to be cleared due to weather or tactical reasons, ATC will attempt to return the aircraft to the original NRP routing as soon as practical. Aircraft that depart from the NRP routing due to a pilot request or an ATC clearance authorizing a direct routing will be considered as a non participant of the NRP.
- (f) Unless published routing restrictions are in effect, North Atlantic International flights planning to operate within the NAR System may file NRP routes beyond 200 NM of the NAR identified system airport and the published Inland Navigation Fixes (INFs).

#### Specific FAA Requirements

The following specific FAA requirements apply:

- (a) Flights may not be filed via a DP/STAR within offshore transition areas (12 NM or more off the U.S. shoreline).
- (b) Flights may be filed and flown on the complete transition of DPs and/or STARs for specific airports in lieu of the 200 NM route planning requirement described in Common Procedures, paragraph “b” above. For listing of the airports refer to the current FAA Advisory Circular–NRP.
- (c) Flights not meeting the above guidelines are to be requested through the FAA nonpreferred route programs. Those requests will be approved/disapproved on a workload permitting basis.

#### NORTH AMERICAN ROUTE (NAR) SYSTEM

##### GENERAL

- a. The objectives of the NAR System are as follows:
  1. To expedite flight planning.
  2. To reduce the complexity of route clearances and thereby minimize the confusion and error potential inherent in lengthy transmissions and readbacks; and
  3. To minimize the time spent in the route clearance delivery function.
- b. The NAR System is designed to accommodate major airports in North America where the volume of North Atlantic (NAT) traffic and route complexity dictate a need to meet the above objectives. It is for the use of traffic entering/exiting the NAT and consists of a series of pre-planned routes from/to coastal fixes and identified system airports. Most of the routes are divided into two portions:
  1. Common Portion: That portion of the route between a specified coastal fix or an oceanic entry/exit point and a specified inland navigation fix (INF). Some routes have a common portion only (N598A-N700A); and
  2. Non-common Portion: That portion of the route between a specified INF and a system airport. The routes are within the high level airspace structure with a transition to/from system airports.
- c. The routes are prefixed by the abbreviation “N” with the numbering for the common portions orientated geographically from south to north. The ODD numbers have eastbound applications while the EVEN numbers apply to westbound. Following a one-to three-digit number, an alpha character indicates the validation codes and forms part of the route identifier. Validation codes are associated to amendments to the common routes only and not to non-common route portions.
- d. Since a primary function of the NAR system is to complement the NAT traffic flow, a limited number of NAR routes, appropriate for the coastal fixes or oceanic entry/exit points serving the organized Organized Track System (OTS) and the domestic traffic organization, are included in the daily NAT/OTS message published by the Gander and Shanwick Oceanic Area Centers.
- e. Aircraft can only join the NAR system:
  1. At an identified coastal fix or oceanic entry/exit point; or
  2. On departure from one of the identified system airports; or
  3. At an identified INF.

## FLIGHT PLANNING—GENERAL

**Westbound**

- a. Westbound routes begin at the oceanic exit points, thence along common route portions to an INF and then fan-out along non common routes to selected system airports;
- b. For aircraft proceeding to an identified system airport and the route of flight to destination is described by a single NAR designator, use the designator;
- c. For aircraft proceeding to a non system airport but the route of flight is described by the common route portion to an identified INF, use the designator to the INF followed by a detailed routing to the destination.

**Eastbound**

- a. Eastbound routes only have a common portion from the INF to a coastal fix or oceanic entry point;
- b. When the route of flight is described by a single NAR designator, use the designator;
- c. For aircraft departing from a non-system airport, file via an appropriate detailed routing to the applicable INF and thence via the common portion to the coastal fix or oceanic entry point using the NAR designator;

**General**

For those cases not described above, a detailed routing is required.

**NAR REQUIREMENT****General**

- a. Generally there is no requirement to flight plan and operate using the NAR system. Eastbound aircraft intending to operate on the NAT OTS and operating wholly on or south of a line between the intersections BAREE and TUDEP shall flight plan and operate using one of the NARs published on the daily OTS Message. Westbound aircraft exiting the ocean via oceanic/coastal fixes JEBBY, CARAC, BOBTU, JAROM or VODOR must file via one of the published NAR common portions as specified in the CFS unless re-entering NY oceanic via M201/M202/M203:
  - i. JEBBY CARAC - N14B, N16B, N18D, N20A, N22A
  - ii. BOBTU JAROM - N24A, N26A, N28A, N30A, N32A, N34A, N36F, N38F, N40F
  - iii. VODOR - N42C, N44C, N46F, N48F, N50F, N52F, N54F, N56F
- b. NARs may be assigned by air traffic control for the tactical management of air traffic in Canadian domestic airspace.
- c. For operators who elect not to use the NAR system, the rules of the NRP apply.

**ROUTE CLEARANCES**

- a. For aircraft operating within the NAR System, the ATC routing clearance and pilot readback will be indicated by the NAR designator, e.g., "North American Route 105B";
- b. For aircraft operating in the NAR System, but only using the common route portion, the ATC routing clearance and pilot readback will be indicated by the NAR designator followed by the detailed routing;
- c. For aircraft not operating in the NAR System, the ATC routing clearance and pilot readback will be via a detailed route;
- d. Aircraft cleared to a system airport via a NAR designator are to follow the common and the non-common portion of the route to a system airport. If either the common or non-common portion of the issued NAR is incompatible or unacceptable, the pilot is to advise ATC accordingly.

**DOCUMENTATION**

- a. It is expected that the following NAR documentation will be carried on the flight deck of each aircraft operating within the NAR system:
  1. The current publications of NAV CANADA Canadian Flight Supplement; or Federal Aviation Administration Airport/Facility Directory Northeast U.S. (AFDNE); or another product which provides the current NAR; and
  2. the information in the current NAT/OTS message.
- b. Changes to the NAR routes are advertised in the monthly publication Notices to Airmen Publication (NTAP).

**COMMON PROCEDURES FOR RADIO COMMUNICATIONS FAILURE**

- a. The following procedures are intended to provide general guidance for North Atlantic (NAT) aircraft experiencing a communications failure. These procedures are intended to complement and not supersede state procedures/regulations. It is not possible to provide guidance for all situations associated with a communications failure.
  1. If so equipped, the pilot of an aircraft experiencing a two-way radio communications failure shall:
    - i. operate the secondary radar transponder on identity Mode A) Code 7600 and Mode C; and
    - ii. attempt to contact any ATC facility or another aircraft and inform them of the difficulty and request they relay information to the ATC facility with whom communications are intended.
- b. **Communications failure prior to entering NAT oceanic airspace**
  1. If operating with a received and acknowledged oceanic clearance, the pilot shall enter oceanic airspace at the cleared oceanic entry point, level and speed and proceed in accordance with the received and acknowledged oceanic clearance. Any level or speed changes required to comply with the oceanic clearance shall be completed within the vicinity of the oceanic entry point.
  2. If operating without a received and acknowledged oceanic clearance, the pilot shall enter oceanic airspace at the first oceanic entry point, level and speed, as contained in the filed flight plan and proceed via the filed flight plan route to landfall. That first oceanic level and speed shall be maintained to landfall.
- c. **Communications failure prior to exiting NAT oceanic airspace**
  1. **Cleared on flight plan route**  
The pilot shall proceed in accordance with the last received and acknowledged oceanic clearance to the last specified oceanic route point, normally landfall, then continue on the flight plan route. Maintain the last assigned oceanic level and speed to landfall. After passing the last specified oceanic route point, conform with the relevant State procedures/regulations.
  2. **Cleared on other than flight plan route**  
The pilot shall proceed in accordance with the last received and acknowledged oceanic clearance to the last specified oceanic route point, normally landfall. After passing this point, rejoin the filed flight plan route by proceeding directly to the next significant point ahead of the track of the aircraft as contained in the filed flight plan. Where possible use published ATS route structures, then continue on the flight plan route. Maintain the last assigned oceanic level and speed to the last specified oceanic route point. After this point conform with the relevant State procedures/regulations.

**BOSTON ARTCC NORTH ATLANTIC ADVISORY**

The Boston ARTCC North Atlantic Advisory is published daily and establishes required routing for aircraft that transition into the North American Route structure and the North Atlantic Track system. The North Atlantic Advisory provides specific routing for international traffic transitioning Boston ARTCC airspace and proceeding across the North Atlantic with the following exceptions:

Departures from ATL, CLT, DFW, IAD, IAH, MCO, MIA, RDU via eastbound routes that will traverse Boston ARTCC airspace may file the following:

- (1) Via RBV LLUND
  - a. LLUND BAYYS PUT QUBIS/TAFFY/ MIILS/TOPPS/EBONY
  - b. LLUND BAYYS PUT WITCH ALLEX
  - c. LLUND BAYYS PUT TUSKY/BRADD/KANNI
- (2) Via RBV J62 RIFLE SHHAR TUSKY/BRADD/KANNI/WHALE/VITOL
- (3) Via J174 RIFLE SHHAR TUSKY/BRADD/KANNI/WHALE/VITOL
- (4) When the tracks are ALLEX and North, users may file to the most southern INF published on the daily track message
  - a. Via RBV J62 RIFLE ACK (then direct to the most southern published INF)
  - b. Via J174 RIFLE ACK (then direct to the southernmost published INF)

The Boston ARTCC North Atlantic Advisory is effective between the hours of 2000–0500 UTC.

## NORTH AMERICAN ROUTES

### NORTH AMERICAN ROUTES (NAR)

The following listing divides the NAR Route descriptions into two sections according to the direction of flight (eastbound or westbound). Each section is subdivided according to the route portion (Common or Non-common). The Common portion describes the NAR route between the Coastal Fix and the Inland Navigational Facility/Fix. The Non-common portion describes the route between the NAR route system airport being used and the Inland Navigational Facility/Fix.

#### COMMON PORTION (EASTBOUND)

NAR Designator	Inland Navigation Facility/Fix	Route Description	Coastal Fix
N3A	SIE	B24 LYNUS	SLATN
N7A	MANTA	OWENZ LINND R56	SLATN
N11A	SIE	B24 LYNUS	JOBOC
N15B	MANTA	OWENZ LINND R56 KENDA	JOBOC
N21A	VITOL	Direct	CARAC
N25A	ALLEX	Direct	CARAC
N31F	VITOL	LOMPI	JAROM
N33D	WHALE	LOMPI	JAROM
N35B	WHALE	GAYBL LOMPI	JAROM
N37C	EBONY	LOMPI	JAROM
N45D	VITOL	NANSO	RAFIN
N47C	VITOL	CARAC NANSO	RAFIN
N49C	WHALE	NANSO	RAFIN
N51D	WHALE	GAYBL NANSO	RAFIN
N53D	KANNI	NANSO	RAFIN
N55A	BRADD	SCOTS	RAFIN
N57A	MIILS	PEPRA	RAFIN
N59C	MIILS	Direct	RAFIN
N75A	WHALE	Direct	SUPRY
N77A	WHALE	GAYBL	SUPRY
N79A	KANNI	Direct	SUPRY
N81A	BRADD	Direct	SUPRY
N83A	BRADD	SCOTS	SUPRY
N85A	TUSKY	SCOTS	SUPRY
N87A	TUSKY	Direct	SUPRY
N89A	MIILS	PEPRA	SUPRY
N91A	MIILS	RUBDA	SUPRY
N93A	MIILS	Direct	SUPRY
N105D	WHALE	Direct	RELIC
N107D	WHALE	GAYBL	RELIC
N109D	KANNI	Direct	RELIC
N111D	BRADD	Direct	RELIC
N113D	BRADD	SCOTS	RELIC
N115D	TUSKY	Direct	RELIC
N117B	TUSKY	SCOTS	RELIC
N119A	ALLEX	Direct	RELIC
N121A	MIILS	RUBDA	RELIC
N123A	MIILS	Direct	RELIC
N135A	WHALE	Direct	PORTI
N137A	WHALE	GAYBL	PORTI
N139A	KANNI	Direct	PORTI
N141D	BRADD	Direct	PORTI
N143B	BRADD	SCOTS	PORTI
N145B	TUSKY	Direct	PORTI
N147B	TUSKY	ACADN	PORTI
N149D	ALLEX	Direct	PORTI
N151G	MIILS	RUBDA	PORTI
N153E	MIILS	SUTKO	PORTI
N155A	MIILS	Direct	PORTI
N165A	WHALE	Direct	OMSAT
N167A	WHALE	GAYBL	OMSAT
N169A	KANNI	Direct	OMSAT

NAR Designator	Inland Navigation Facility/Fix	Route Description	Coastal Fix
N171D	BRADD	Direct	OMSAT
N173D	BRADD	SCOTS	OMSAT
N175E	TUSKY	Direct	OMSAT
N177E	TUSKY	ACADN	OMSAT
N179E	ALLEX	Direct	OMSAT
N181G	MIILS	SUTKO	OMSAT
N183A	MIILS	Direct	OMSAT
N195A	KANNI	Direct	NICSO
N197A	BRADD	Direct	NICSO
N199A	BRADD	SCOTS	NICSO
N201B	TUSKY	Direct	NICSO
N203B	TUSKY	ACADN	NICSO
N205B	ALLEX	Direct	NICSO
N207B	MIILS	SUTKO	NICSO
N209D	MIILS	TAGRA	NICSO
N211E	MIILS	Direct	NICSO
N225A	KANNI	Direct	MUSAK
N227A	BRADD	Direct	MUSAK
N229A	BRADD	SCOTS	MUSAK
N231A	TUSKY	Direct	MUSAK
N233A	ALLEX	Direct	MUSAK
N235A	MIILS	TAGRA	MUSAK
N237A	MIILS	Direct	MUSAK
N255A	BRADD	Direct	JOOPY
N257A	BRADD	SCOTS	JOOPY
N259A	KANNI	ACADN	JOOPY
N261A	TUSKY	Direct	JOOPY
N263A	ALLEX	Direct	JOOPY
N265A	MIILS	TAGRA	JOOPY
N267A	MIILS	VINSI	JOOPY
N269A	MIILS	Direct	JOOPY
N285A	BRADD	Direct	IBERG
N287A	KANNI	Direct	IBERG
N289A	KANNI	ACADN	IBERG
N291A	TUSKY	Direct	IBERG
N293A	ALLEX	Direct	IBERG
N295A	EBONY	Direct	IBERG
N297A	TOPPS	Direct	IBERG
N299A	MIILS	VINSI	IBERG
N301B	MIILS	Direct	IBERG
N303B	CEFOU	Direct	IBERG
N315A	KANNI	SCOTS	ELSIR
N317A	KANNI	Direct	ELSIR
N319A	BRADD	Direct	ELSIR
N321A	TUSKY	Direct	ELSIR
N323A	ALLEX	Direct	ELSIR
N325A	EBONY	Direct	ELSIR
N327B	TOPPS	Direct	ELSIR
N329B	MIILS	Direct	ELSIR
N331B	CEFOU	LOPRO	ELSIR
N333B	CEFOU	Direct	ELSIR
N345A	KANNI	Direct	BUDAR
N347A	KANNI	ACADN	BUDAR
N349A	BRADD	Direct	BUDAR
N351B	TUSKY	Direct	BUDAR
N353B	ALLEX	Direct	BUDAR
N355B	EBONY	Direct	BUDAR
N357B	TOPPS	Direct	BUDAR

NAR Designator	Inland Navigation Facility/Fix	Route Description	Coastal Fix
N359B	MIILS	Direct	BUDAR
N361B	MIILS	LOPRO	BUDAR
N363A	CEFOU	MIGLI	BUDAR
N365A	CEFOU	Direct	BUDAR
N375A	BRADD	Direct	ALLRY
N377A	TUSKY	Direct	ALLRY
N379A	ALLEX	Direct	ALLRY
N381B	EBONY	Direct	ALLRY
N383B	TOPPS	Direct	ALLRY
N385B	MIILS	Direct	ALLRY
N387B	CEFOU	MIGLI	ALLRY
N389B	CEFOU	Direct	ALLRY
N405A	BRADD	Direct	UMESI
N407A	TUSKY	Direct	UMESI
N409A	ALLEX	Direct	UMESI
N411B	EBONY	Direct	UMESI
N413B	TOPPS	Direct	UMESI
N415B	MIILS	Direct	UMESI
N417B	CEFOU	Direct	UMESI
N419B	BAREE	Direct	UMESI
N435A	TUSKY	Direct	TUDEP
N437A	ALLEX	Direct	TUDEP
N439A	EBONY	Direct	TUDEP
N441A	TOPPS	Direct	TUDEP
N443A	MIILS	Direct	TUDEP
N445A	BAREE	Direct	TUDEP
N465A	TUSKY	Direct	SAXAN
N467A	ALLEX	Direct	SAXAN
N469A	EBONY	Direct	SAXAN
N471A	TOPPS	Direct	SAXAN
N473A	MIILS	Direct	SAXAN
N475A	TAFFY	Direct	SAXAN
N477A	BAREE	Direct	SAXAN
N495C	ALLEX	Direct	RIKAL
N497C	EBONY	Direct	RIKAL
N499A	TOPPS	Direct	RIKAL
N501A	MIILS	Direct	RIKAL
N503A	TAFFY	Direct	RIKAL
N505A	BAREE	Direct	RIKAL
N525A	ALLEX	Direct	PELTU
N527A	EBONY	Direct	PELTU
N529A	TOPPS	Direct	PELTU
N531A	MIILS	Direct	PELTU
N533A	TAFFY	Direct	PELTU
N535A	BAREE	Direct	PELTU
N555A	EBONY	Direct	NEEKO
N557A	TOPPS	Direct	NEEKO
N559A	TAFFY	Direct	NEEKO
N561A	BAREE	Direct	NEEKO
N563A	MIILS	Direct	NEEKO
N585A	EBONY	Direct	MELDI
N587A	TOPPS	Direct	MELDI
N589A	MIILS	Direct	MELDI
N591A	TAFFY	Direct	MELDI
N593A	QUBIS	Direct	MELDI
N595A	ANCER	Direct	MELDI
N597A	BAREE	Direct	MELDI
N615A	EBONY	Direct	LOMSI

NORTH AMERICAN ROUTES

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NAR Designator	Inland Navigation Facility/Fix	Route Description	Coastal Fix
N617A	TOPPS	Direct	LOMSI
N619A	MIILS	Direct	LOMSI
N621A	TAFFY	Direct	LOMSI
N623A	QUBIS	Direct	LOMSI
N625A	ANCER	Direct	LOMSI
N645A	EBONY	Direct	KODIK
N647A	TOPPS	Direct	KODIK
N649A	MIILS	Direct	KODIK
N651A	TAFFY	Direct	KODIK
N653A	QUBIS	Direct	KODIK
N655A	ANCER	Direct	KODIK
N675A	EBONY	Direct	JANJO
N677A	TOPPS	Direct	JANJO
N679A	MIILS	Direct	JANJO
N681A	TAFFY	Direct	JANJO
N683A	QUBIS	Direct	JANJO
N685A	ANCER	Direct	JANJO
N705A	EBONY	SERBO	IRLOK
N707A	TOPPS	SERBO	IRLOK
N709A	MIILS	Direct	IRLOK
N711A	TAFFY	Direct	IRLOK
N713A	QUBIS	Direct	IRLOK
N715A	ANCER	Direct	IRLOK
N735A	TOPPS	Direct	HOIST
N737A	MIILS	Direct	HOIST
N739A	TAFFY	Direct	HOIST
N741A	QUBIS	Direct	HOIST
N743A	BAREE	Direct	HOIST
N745A	ANCER	YBC	HOIST
N765A	TOPPS	Direct	ENNSO
N767A	MIILS	Direct	ENNSO
N769A	TAFFY	Direct	ENNSO
N771A	QUBIS	Direct	ENNSO
N773A	BAREE	Direct	ENNSO
N775A	ANCER	YBC	ENNSO
N795A	MIILS	Direct	DORYY
N797A	TAFFY	Direct	DORYY
N799A	QUBIS	Direct	DORYY
N801A	BAREE	YBC	DORYY
N815A	BAREE	Direct	CUDDY
N825A	BAREE	Direct	BOKTO
N827A	TAFFY	Direct	BOKTO
N835A	TAFFY	Direct	AVUTI
N837A	QUBIS	Direct	AVUTI
N839A	BAREE	DUVBI	AVUTI
N855A	TAFFY	DUVBI	VESMI
N857A	QUBIS	DUVBI	VESMI
N859A	BAREE	DUVBI	VESMI
N875A	TAFFY	YDP	URTAK
N877A	QUBIS	YDP	URTAK
N879A	BAREE	YDP	URTAK



## NORTH AMERICAN ROUTES

### COMMON PORTION (WESTBOUND)

NAR Designator	Coastal Fix	Route Description	Inland Navigation Facility Fix
N4A	SLATN	Direct	BERGH
N6B	SLATN	J97	LACKS
N12D	JOBOD	Direct	BERGH
N14C	JOBOD	Direct	SAILE
N20B	DOVEY	Direct	SAILE
N26B	CARAC	Direct	VITOL
N28B	CARAC	Direct	WHALE
N30B	CARAC	Direct	KANNI
N32B	CARAC	Direct	BRADD
N34B	CARAC	Direct	TOPPS
N46G	JAROM	LOMPI CARAC	VITOL
N48G	JAROM	LOMPI GAYBL	VITOL
N50G	JAROM	LOMPI	WHALE
N52G	JAROM	LOMPI GAYBL	WHALE
N54G	JAROM	LOMPI	KANNI
N56G	JAROM	LOMPI	BRADD
N58D	JAROM	LOMPI	TUSKY
N60D	JAROM	LOMPI SCOTS	TUSKY
N62C	JAROM	LOMPI	TOPPS
N76A	RAFIN	NANSO	VITOL
N78A	RAFIN	NANSOL GAYBL	VITOL
N80A	RAFIN	NANSO	WHALE
N82A	RAFIN	NANSO	KANNI
N84A	RAFIN	Direct	BRADD
N86A	RAFIN	Direct	TUSKY
N88A	RAFIN	ACADN	TUSKY
N90A	RAFIN	Direct	MIILS
N106B	SUPRY	Direct	VITOL
N108B	SUPRY	GAYBL	VITOL
N110B	SUPRY	Direct	WHALE
N112D	SUPRY	Direct	KANNI
N114E	SUPRY	Direct	BRADD
N116A	SUPRY	Direct	TUSKY
N118A	SUPRY	ACADN	TUSKY
N120A	SUPRY	Direct	MIILS
N136A	RELIC	Direct	VITOL
N138A	RELIC	GAYBL	VITOL
N140A	RELIC	Direct	WHALE
N142D	RELIC	SCOTS	WHALE
N144D	RELIC	Direct	BRADD
N146D	RELIC	SCOTS	BRADD
N148D	RELIC	Direct	TUSKY
N150B	RELIC	SCOTS	TUSKY
N152A	RELIC	Direct	ALLEX
N154A	RELIC	Direct	MIILS
N166A	PORTI	Direct	WHALE
N168A	PORTI	Direct	KANNI
N170A	PORTI	Direct	BRADD
N172B	PORTI	SCOTS	BRADD
N174B	PORTI	Direct	TUSKY
N176B	PORTI	ACADN	TUSKY
N180A	PORTI	Direct	ALLEX
N182A	PORTI	Direct	MIILS
N196A	OMSAT	Direct	WHALE
N198A	OMSAT	GAYBL	WHALE
N200D	OMSAT	Direct	KANNI
N202D	OMSAT	Direct	BRADD

NAR Designator	Coastal Fix	Route Description	Inland Navigation Facility Fix
N204D	OMSAT	SCOTS	BRADD
N206E	OMSAT	Direct	TUSKY
N208A	OMSAT	ACADN	TUSKY
N210A	OMSAT	Direct	ALLEX
N212A	OMSAT	Direct	MIILS
N226A	NICSO	SCOTS	BRADD
N228A	NICSO	ACADN	TUSKY
N230A	NICSO	Direct	KANNI
N232A	NICSO	Direct	BRADD
N234A	NICSO	Direct	TUSKY
N236A	NICSO	Direct	ALLEX
N238A	NICSO	Direct	MIILS
N256A	MUSAK	Direct	BRADD
N258A	MUSAK	SCOTS	BRADD
N260A	MUSAK	Direct	TUSKY
N262A	MUSAK	Direct	ALLEX
N264A	MUSAK	Direct	MIILS
N276C	JOOPY	Direct	TUSKY
N278B	JOOPY	Direct	ALLEX
N280A	JOOPY	Direct	MIILS
N296A	IBERG	Direct	TUSKY
N298A	IBERG	Direct	ALLEX
N300B	IBERG	Direct	EBONY
N302E	IBERG	Direct	TOPPS
N304B	IBERG	Direct	MIILS
N316A	ELSIR	Direct	TUSKY
N318A	ELSIR	Direct	ALLEX
N320A	ELSIR	Direct	EBONY
N322A*	ELSIR	Direct	TOPPS
N324A	ELSIR	Direct	MIILS
N336A	BUDAR	Direct	TUSKY
N338A	BUDAR	Direct	ALLEX
N340A	BUDAR	Direct	EBONY
N342A	BUDAR	Direct	TOPPS
N344A	BUDAR	Direct	MIILS
N356E	ALLRY	Direct	ALLEX
N358A	ALLRY	Direct	EBONY
N360A	ALLRY	Direct	TOPPS
N362A	ALLRY	Direct	MIILS
N376A	UMESI	Direct	ALLEX
N378A	UMESI	Direct	EBONY
N380B	UMESI	Direct	TOPPS
N382B	UMESI	Direct	MIILS
N384B	UMESI	Direct	YRI
N386B	UMESI	YRI	COVAN
N396A	TUDEP	Direct	ALLEX
N398A	TUDEP	Direct	TOPPS
N400A	TUDEP	Direct	MIILS
N402A	TUDEP	Direct	YRI
N404A	TUDEP	YRI	COVAN
N416B	SAXAN	Direct	ALLEX
N418B	SAXAN	Direct	TOPPS
N420A	SAXAN	Direct	MIILS
N422A	SAXAN	Direct	YRI
N424G	SAXAN	YRI	COVAN
N436A	RIKAL	Direct	ALLEX
N438A	RIKAL	Direct	TOPPS
N440A	RIKAL	Direct	YRI

NAR Designator	Coastal Fix	Route Description	Inland Navigation Facility Fix
N442A	RIKAL	YRI	COVAN
N456B	PELTU	Direct	ALLEX
N458A	PELTU	Direct	TOPPS
N460A	PELTU	Direct	TAFFY
N462A	PELTU	Direct	YRI
N464A	PELTU	YRI	COVAN
N476A	NEEKO	Direct	ALLEX
N478A	NEEKO	Direct	TOPPS
N480A	NEEKO	Direct	TAFFY
N482A	NEEKO	Direct	YRI
N484A	NEEKO	YRI	COVAN
N496F	MELDI	Direct	TOPPS
N498C	MELDI	Direct	TAFFY
N500A	MELDI	Direct	YRI
N502C	MELDI	YRI	COVAN
N516A	LOMSI	Direct	TOPPS
N518A	LOMSI	Direct	TAFFY
N520A	LOMSI	Direct	YRI
N522A	LOMSI	YRI	COVAN
N536C	KODIK	Direct	TOPPS
N538C	KODIK	Direct	TAFFY
N540C	KODIK	Direct	YBC
N542A	KODIK	Direct	YRI
N544A	KODIK	YRI	COVAN
N556A	JANJO	Direct	TOPPS
N558A	JANJO	Direct	TAFFY
N560A	JANJO	Direct	YBC
N562A	JANJO	YRI	COVAN
N576A	IRLOK	Direct	TAFFY
N578A	IRLOK	Direct	QUBIS
N580A	IRLOK	Direct	YBC
N582A	IRLOK	YRI	COVAN
N584B	IRLOK	OMTOL	MT
N596A	HOIST	Direct	TAFFY
N598C	HOIST	Direct	QUBIS
N600A	HOIST	Direct	YBC
N602A	HOIST	YRI	COVAN
N604B	HOIST	OMTOL	MT
N606A	HOIST	YYR	YRI
N616A	ENNSO	Direct	TAFFY
N618A	ENNSO	Direct	QUBIS
N620B	ENNSO	Direct	YBC
N622A	ENNSO	YRI	COVAN
N624B	ENNSO	OMTOL	MT
N636A	DORYY	BORUB	YZV
N638A	DORYY	Direct	TAFFY
N640B	DORYY	Direct	QUBIS
N642A	DORYY	Direct	YBC
N644A	DORYY	YRI	COVAN
N656A	CUDDY	Direct	HO
N658A	CUDDY	Direct	MT
N660B	CUDDY	NOWAA	SSM
N662A	CUDDY	UM UAC	YBC
N676A	BOKTO	Direct	DUVBI
N678A	BOKTO	DUVBI UM	YBC
N680A	BOKTO	DUVBI UM	QUBIS
N682A	BOKTO	DUVBI	MT
N684A	BOKTO	YKL	ROUND

NAR Designator	Coastal Fix	Route Description	Inland Navigation Facility Fix
N696A	AVUTI	Direct	YDP
N698A	AVUTI	Direct	DUVBI
N700B	AVUTI	DUVBI	TAFFY
N702A	AVUTI	DUVBI	QUBIS
N704A	AVUTI	YDP	YBC
N706A	AVUTI	YDP	MT
N708A	AVUTI	YDP MT REEDO ART	SYR
N710A	AVUTI	YDP	ROUND
N712A	AVUTI	YDP JOVIE HENDY SELBO	SSM
N714A	AVUTI	YDP ROUND	SSM
N716A	AVUTI	ALSOP	TEALS
N726A	VESMI	Direct	ALSOP
N728A	VESMI	LOMTA	TEALS
N730A	VESMI	ALSOP YKL	ROUND
N732A	VESMI	ALSOP JOVIE	MT
N734A	VESMI	ALSOP UM	YBC
N736A	VESMI	ALSOP	QUBIS
N746A	URTAK	Direct	ALSOP
N748A	URTAK	Direct	LOMTA
N750A	URTAK	LOMTA	TAFFY
N752A	URTAK	LOMTA	QUBIS
N754A	URTAK	LOMTA	YBC
N756A	URTAK	LOMTA YBC	COVAN
N758A	URTAK	LOMTA	VANSI
N760A	URTAK	LOMTA VANSI STAFE	SSM
N762A	URTAK	UDMAR	MCKEE
N776A	TOXIT	Direct	UDMAR
N778A	TOXIT	UDMAR	QUBIS
N780A	TOXIT	LAKES	YBC
N782A	TOXIT	Direct	LAKES
N784A	TOXIT	UDMAR	TEALS
N796A	SAVRY	Direct	IRBIM
N798A	SAVRY	IRBIM	TAFFY
N800A	SAVRY	IRBIM	YBC
N802A	SAVRY	IRBIM	MT
N804A	SAVRY	IRBIM MT REEDO ART	SYR
N806A	SAVRY	Direct	LAKES
N808A	SAVRY	Direct	SINGA
N810A	SAVRY	Direct	UDMAR
N816A	RADUN	Direct	SINGA
N818A	RADUN	SINGA	LAKES
N820A	RADUN	Direct	KLIPS
N822A	RADUN	PEPKI	LOPVI
N836A	PIDSO	Direct	SINGA
N838A	PIDSO	Direct	PEPKI
N840A	PIDSO	PEPKI	LOPVI
N842A	PIDSO	MUSLO	RODBO
N846A	NIFTY	Direct	MUSLO
N848A	NIFTY	MUSLO	SEMTO
N850A	NIFTY	MUSLO	LOPVI
N856A	MAXAR	Direct	MIBNO
N858A	MAXAR	MIBNO	RODBO
N860A	MAXAR	Direct	MUSLO
N862A	MAXAR	MUSLO	LOPVI
N866A	LIBOR	Direct	RODBO
N868A	LIBOR	GRIBS	JELCO
N876A	KETLA	Direct	GRIBS
N878A	KETLA	GRIBS	JELCO

NAR Designator	Coastal Fix	Route Description	Inland Navigation Facility Fix
N880A	KETLA	Direct	FEDDY
N886A	EMBOK	IKMAN	FEDDY
N888A	EMBOK	BERUS	TEFFO
N896A	CLAVY	KAGLY	TEFFO
N898A	CLAVY	Direct	MUSVA
N906A	AVPUT	NALDI	DUTUM

\* Check for all active CYBG NOTAMS before flight planning this NAR. NARS affected by each military area can be determined by the following:

**AFFECTED NARS BLW FL330:**

CYR630: N458A, N460A, N344C, N500B, N542B

CYR629: N388A, N390A, N392F, N420A, N422A, N462A, N464F, N506A, N542B, N544A, N550A, N590A, N596A

CYR628: N388A, N390A, N392F, N420A, N422A, N462A, N464F, N506A, N544A, N550A, N590A, N596A

**AFFECTED NARS ABV FL310:**

CYR666: N458A, N460A, N500B, N542B

CYR665: N388A, N390A, N392F, N420A, N422A, N462A, N464F, N506A, N542B, N544A, N550A, N590A, N596A

CYR664: N388A, N390A, N392F, N420A, N422A, N462A, N464F, N506A, N544A, N550A, N590A, N596A

**NON-COMMON PORTION (WESTBOUND)  
VIA ALLEX**

Inland Navigation Facility/Fix	Non-Common Portion	Destination
ALLEX	EMJAY J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
ALLEX	ENE BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
ALLEX	ENE NELIE J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
ALLEX	AJJAY OOSHN (RNAV)-STAR	BOSTON
ALLEX	EMJAY J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
ALLEX	ENE NELIE J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
ALLEX	ENE BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
ALLEX	SEAER J79 Lfv J174 HTO J121 SIE	DOVER
ALLEX	ENE BAF Hyper Arrival	DULLES
ALLEX	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
ALLEX	ENE BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
ALLEX	ENE Parch Arrival	KENNEDY
ALLEX	SEAER J79 Lfv J174 HTO J121 DRIFT V312 CYN	MCGUIRE
ALLEX	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
ALLEX	HANAA FLOSI (RNAV)-STAR	NEWARK
ALLEX	EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
ALLEX	SEAER J79 Lfv J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
ALLEX	ENE CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
ALLEX	EMJAY J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
ALLEX	ENE BAF Q480 AIR J80 VHP AARCH (RNAV)-STAR	ST LOUIS
ALLEX	ENE NELIE J75 CMK J75 TAY Dades Arrival	TAMPA

# NORTH AMERICAN ROUTES

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## VIA BERGH

Inland Navigation Facility/Fix	Non-Common Portion	Destination
BERGH	L454 OWENZ DRIFT J121 SIE	DOVER
BERGH	L454 BOUNO CREEL J62 RBV Hyper Arrival	DULLES
BERGH	L454 OWENZ CAMRN	KENNEDY
BERGH	L454 OWENZ MANTA V276 GAMBY	MCGUIRE
BERGH	L454 OWENZ V139 DRIFT BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA

## VIA BRADD

Inland Navigation Facility/Fix	Non-Common Portion	Destination
BRADD	LFV J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
BRADD	BOS BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
BRADD	BOS J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
BRADD	EURRO OOSHN (RNAV)-STAR	BOSTON
BRADD	LFV J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
BRADD	BOS J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
BRADD	BOS BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
BRADD	LFV J174 HTO J121 SIE	DOVER
BRADD	BOS BAF HYPER Arrival	DULLES
BRADD	ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
BRADD	BOS BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
BRADD	PLYMM Parch Arrival	KENNEDY
BRADD	LFV J174 HTO J121 DRIFT V312 CYN	MCGUIRE
BRADD	ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
BRADD	BOS NELIE FLOSI (RNAV)-STAR	NEWARK
BRADD	LFV J150 HTO J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
BRADD	LFV J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
BRADD	BOS CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
BRADD	ACK J62 RIFLE J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
BRADD	BOS Q480 AIR J80 VHP AARCH (RNAV)-STAR	ST. LOUIS
BRADD	BOS J75 CMK J75 TAY Dades Arrival	TAMPA

## VIA COVAN

Inland Navigation Facility/Fix	Non-Common Portion	Destination
COVAN	ALB CMK J75 MXE V378 BAL	ANDREWS
COVAN	ALB ACOVE DBABE Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
COVAN	ALB PWL CMK J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
COVAN	ALB J6 BWZ PTW J48 EMI J61 HUBBS J193 WEAVR J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
COVAN	ALB PWL CMK J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
COVAN	ALB J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
COVAN	ALB J37 JFK CYN SIE	DOVER
COVAN	ALB HYPER Arrival	DULLES
COVAN	ALB J6 BWZ PTW J48 EMI J61 HUBBS J193 WEAVR J121 CHS J79 OMN FISEL Arrival	FT. LAUDERDALE
COVAN	ALB IGN IGN Arrival	KENNEDY
COVAN	ALB DNY LAAYK LVZ V147 MAZIE	MCGUIRE
COVAN	ALB PWL CMK J75 CAE J51 SAV J103 OMN HILEY Arrival	MIAMI
COVAN	HANAA FLOSI (RNAV)-STAR	NEWARK
COVAN	ALB PWL CMK J75 DUNKN AMG BUGGZ (RNAV)-STAR	ORLANDO
COVAN	ALB DNY SPUDS (RNAV)-STAR	PHILADELPHIA
COVAN	ALB J49 HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
COVAN	ALB PWL CMK J75 TAY DADES Arrival	TAMPA

## NORTH AMERICAN ROUTES

## VIA EBONY

Inland Navigation Facility/Fix	Non-Common Portion	Destination
EBONY	EMJAY J174 ZIZZI ATR LAFNLN SPISY (RNAV)-STAR	ANDREWS
EBONY	ENE BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
EBONY	ENE NELIE J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
EBONY	AJJAY OOSHNN (RNAV)-STAR	BOSTON
EBONY	EMJAY J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
EBONY	ENE NELIE J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
EBONY	ENE BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
EBONY	SEAEER J79 Lfv J174 HTO J121 SIE	DOVER
EBONY	ENE BAF HYPER Arrival	DULLES
EBONY	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
EBONY	ENE BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
EBONY	ENE Parch Arrival	KENNEDY
EBONY	SEAEER J79 Lfv J174 HTO J121 DRIFT V312 CYN	MCGUIRE
EBONY	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
EBONY	HANAA FLOSI (RNAV)-STAR	NEWARK
EBONY	EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
EBONY	SEAEER J79 Lfv J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
EBONY	ENE CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
EBONY	EMJAY J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
EBONY	ENE BAF Q480 AIR J80 VHP AARCH (RNAV)-STAR	ST. LOUIS
EBONY	ENE NELIE J75 CMK J75 TAY Dades Arrival	TAMPA

## VIA KANNI

Inland Navigation Facility/Fix	Non-Common Portion	Destination
KANNI	ALB CMK J75 MXE V378 BAL	ANDREWS
KANNI	BOS BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
KANNI	BOS J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
KANNI	EURRO OOSHNN (RNAV)-STAR	BOSTON
KANNI	LFV J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
KANNI	BOS J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
KANNI	BOS BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
KANNI	LFV J174 HTO J121 SIE	DOVER
KANNI	BOS BAF HYPER Arrival	DULLES
KANNI	ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
KANNI	BOS BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
KANNI	PLYMM Parch Arrival	KENNEDY
KANNI	LFV J174 HTO J121 DRIFT V312 CYN	MCGUIRE
KANNI	ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
KANNI	BOS NELIE FLOSI (RNAV)-STAR	NEWARK
KANNI	LFV J150 HTO J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
KANNI	LFV J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
KANNI	BOS CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
KANNI	ACK J62 RIFLE J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
KANNI	BOS BAF Q480 AIR J80 VHP AARCH (RNAV)-STAR	ST. LOUIS
KANNI	BOS J75 CMK J75 TAY Dades Arrival	TAMPA

## VIA LACKS

Inland Navigation Facility/Fix	Non-Common Portion	Destination
LACKS	FERNZ OOSHNN (RNAV)-STAR	BOSTON

# NORTH AMERICAN ROUTES

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## VIA MIILS

Inland Navigation Facility/Fix	Non-Common Portion	Destination
MIILS	ENE BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
MIILS	LETAK Q824 TAGUM ECK FNT WYNDE (RNAV)-STAR	CHICAGO
MIILS	LETAK DEBUM Q806 BOBTA DERLO DJB J83 APE TIGRR (RNAV)-STAR	CINCINNATI
MIILS	LETAK DEBUM Q806 BOBTA DERLO WWSHR Q29 KLYNE PXV J131 LIT FEWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
MIILS	YUL Q806 BOBTA YQO Spica Arrival	DETROIT
MIILS	LETAK DEBUM Q806 BOBTA DERLO WWSHR Q29 KLYNE PXV J131 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
MIILS	VLV OMBRE Ombre Arrival	MONTREAL/TRUDEAU
MIILS	VLV CATOG VEPSU DIRECT	MONTREAL/MIRABEL
MIILS	YXI ECK GIJ RBS AARCH (RNAV)-STAR	ST. LOUIS*
MIILS	LETAK IMEBA Arrival	TORONTO

\* NOTE:

St. Louis route usable only for aircraft at or above FL350.



## NORTH AMERICAN ROUTES

## VIA MT

Inland Navigation Facility/Fix	Non-Common Portion	Destination
MT	ALB CMK J75 MXE V378 BAL	ANDREWS
MT	TVC OBK J73 BNA NEWBB IHAVE KNGGG DRMMM (RNAV)-STAR	ATLANTA
MT	ALB PWL CMK J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
MT	ALB J6 BWZ PTW J48 EMI J61 HUBBS J193 WEAVR J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
MT	ALB PWL CMK J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
MT	SSM PAITN Arrival	CHICAGO
MT	YXI Q802 KENLU Q804 DERLO DJB J83 APE TIGRR (RNAV)-STAR	CINCINNATI
MT	TVC BAE J105 RZC FSM RRNET SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
MT	KAPUX HOCKE FNT POLAR POLAR-Arrival	DETROIT
MT	ALB J37 JFK CYN SIE	DOVER
MT	ALB HYPER Arrival	DULLES
MT	ALB J6 BWZ PTW J48 EMI J61 HUBBS J93 WEAVR J121 CHS J79 OMN Fisel Arrival	FT. LAUDERDALE
MT	TVC OBK J101 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
MT	ALB IGN IGN Arrival	KENNEDY
MT	ALB DNY LAAYK LVZ V147 MAZIE	MCGUIRE
MT	ALB PWL CMK J75 CAE J51 SAV J103 OMN Hiley Arrival	MIAMI
MT	OBRET DATAB VIDGO EMPEK SATOT PIGNA	MONTREAL/MIRABEL
MT	OBRET LAFLEUR Arrival	MONTREAL/TRUDEAU
MT	ALB PWL CMK J75 DUNKN AMG BUGGZ (RNAV)-STAR	ORLANDO
MT	ALB DNY SPUDS (RNAV)-STAR	PHILADELPHIA
MT	ALB J49 HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
MT	TVC OBK J71 RBS AARCH (RNAV)-STAR	ST. LOUIS
MT	ALB CMK J75 TAY Dades Arrival	TAMPA
MT	YXI IMEBA Arrival	TORONTO

## VIA QUBIS

Inland Navigation Facility/Fix	Non-Common Portion	Destination
QUBIS	EMJAY J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
QUBIS	ALB ACOVE DBABE Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
QUBIS	ENE NELIE J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
QUBIS	AJJAY OOSHN (RNAV)-STAR	BOSTON
QUBIS	EMJAY J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
QUBIS	ENE NELIE J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
QUBIS	ALB J6 LIT FEWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
QUBIS	ALB HYPER Arrival	DULLES
QUBIS	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
QUBIS	ENE BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
QUBIS	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
QUBIS	MOTOR HANAA FLOSI (RNAV)-STAR	NEWARK
QUBIS	EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
QUBIS	ALB J49 HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
QUBIS	EMJAY J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
QUBIS	ENE NELIE J75 CMK J75 TAY Dades Arrival	TAMPA

# NORTH AMERICAN ROUTES

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## VIA ROUND

Inland Navigation Facility/Fix	Non-Common Portion	Destination
ROUND	TVC OBK J73 BNA NEWBB IHAVE KNGGG DRMMM (RNAV)-STAR	ATLANTA
ROUND	SSM PAITN Arrival	CHICAGO
ROUND	YXI Q802 KENLU Q804 DERLO DJB J83 APE TIGRR (RNAV)-STAR	CINCINNATI
ROUND	TVC BAE J105 RZC FSM RRNET SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
ROUND	YVO KAPUX HOCKE FNT POLAR POLAR-Arrival	DETROIT
ROUND	TVC OBK J101 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
ROUND	TVC OBK J71 RBS AARCH (RNAV)-STAR	ST. LOUIS
ROUND	YXI IMEBA Arrival	TORONTO

## VIA SAILE

Inland Navigation Facility/Fix	Non-Common Portion	Destination
SAILE	ACK HTO J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
SAILE	ACK HTO RBV J230 BYRDD J48 FLASK WINNG (RNAV)-STAR	ATLANTA
SAILE	FERNZ OOSHN (RNAV)-STAR	BOSTON
SAILE	ACK HTO J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
SAILE	ACK HTO J121 SIE	DOVER
SAILE	ACK J62 RBV HYPER (RNAV)-STAR	DULLES
SAILE	ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS FISEL (RNAV)-STAR	FT. LAUDERDALE
SAILE	PLYMM PARCH (RNAV)-STAR	KENNEDY
SAILE	ACK HTO J121 DRIFT V312 CYN	MCGUIRE
SAILE	ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY (RNAV)-STAR	MIAMI
SAILE	BOS NELIE FLOSI (RNAV)-STAR	NEWARK
SAILE	ACK HTO J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
SAILE	ACK HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
SAILE	ACK J62 RIFLE J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
SAILE	NELIE J75 TAY DADES (RNAV)-STAR	TAMPA

## VIA SSM

Inland Navigation Facility/Fix	Non-Common Portion	Destination
SSM	GRB J101 BAE J89 OBK J73 BNA NEWBB IHAVE KNGGG DRMMM (RNAV)-STAR	ATLANTA
SSM	PAITN Arrival	CHICAGO
SSM	SSM J101 BAE J105 RZC FSM RRNET SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
SSM	GEP J114 ONL ANCHR (RNAV)-STAR	DENVER
SSM	STL J101 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
SSM	GRB HOKKY BAINY (RNAV)-STAR	MINNEAPOLIS/ ST. PAUL
SSM	TVC OBK J71 RBS AARCH (RNAV)-STAR	ST. LOUIS

## NORTH AMERICAN ROUTES

## VIA SYR

Inland Navigation Facility/Fix	Non-Common Portion	Destination
SYR	SYR J59 PSB SHILO V93 BAL	ANDREWS
SYR	SYR J59 PSB HVQ HLRRY PECHY (RNAV)-STAR	ATLANTA
SYR	FQM IZZEE TRISH (RNAV)-STAR	BALTIMORE
SYR	FQM HAR EMI J61 HUBBS J193 WEAVR J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
SYR	SYR J59 PSB HVQ LNDIZ PARQR (RNAV)-STAR	CHARLOTTE
SYR	JHW DJB J83 APE TIGRR (RNAV)-STAR	CINCINNATI
SYR	GONZZ Q29 KLYNE PVX J131 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
SYR	HAR LRP V210 SPERY	DOVER
SYR	SYR J59 PSB MAPEL (RNAV)-STAR	DULLES
SYR	JHW Q29 KLYNE PVX J131 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
SYR	IGN KINGSTON Arrival	KENNEDY
SYR	LVZ V147 MAZIE	McGUIRE
SYR	HNK FLOSI Arrival	NEWARK
SYR	CFB SPUDS (RNAV)-STAR	PHILADELPHIA
SYR	JHW YNG JESEY (RNAV)-STAR	PITTSBURGH
SYR	ROD VHP AARCH (RNAV)-STAR	ST. LOUIS

## VIA TAFFY

Inland Navigation Facility/Fix	Non-Common Portion	Destination
TAFFY	EMJAY J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
TAFFY	ALB ACOVE DBABE Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
TAFFY	PQI J55 ENE NELIE J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
TAFFY	AJJAY OOSHN (RNAV)-STAR	BOSTON
TAFFY	EMJAY J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
TAFFY	ENE NELIE J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
TAFFY	ALB J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
TAFFY	SEAER J79 LRV J174 HTO J121 SIE	DOVER
TAFFY	ALB HYPER Arrival	DULLES
TAFFY	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
TAFFY	ENE BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
TAFFY	ENE Parch Arrival	KENNEDY
TAFFY	SEAER J79 LRV J174 HTO J121 DRIFT V312 CYN	MCGUIRE
TAFFY	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
TAFFY	HANAA FLOSI (RNAV)-STAR	NEWARK
TAFFY	EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
TAFFY	SEAER J79 LRV J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
TAFFY	ENE CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
TAFFY	EMJAY J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
TAFFY	ENE NELIE J75 CMK J75 TAY Dades Arrival	TAMPA

# NORTH AMERICAN ROUTES

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## VIA TOPPS

Inland Navigation Facility/Fix	Non-Common Portion	Destination
TOPPS	EMJAY J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
TOPPS	ENE BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
TOPPS	ENE NELIE J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
TOPPS	AJJAY OOSHN (RNAV)-STAR	BOSTON
TOPPS	EMJAY J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
TOPPS	ENE NELIE J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
TOPPS	YUL LETAK Q824 TAGUM ECK FNT WYNDE (RNAV)-STAR	CHICAGO
TOPPS	YUL LETAK DEBUM Q806 BOBTA DERLO DJB J83 APE TIGRR (RNAV)-STAR	CINCINNATI
TOPPS	ENE BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
TOPPS	YUL Q806 BOBTA YQO SPICA Arrival	DETROIT
TOPPS	SEAEAR J79 Lfv J174 HTO J121 SIE	DOVER
TOPPS	ENE BAF HYPER Arrival	DULLES
TOPPS	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
TOPPS	ENE BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
TOPPS	ENE Parch Arrival	KENNEDY
TOPPS	SEAEAR J79 Lfv J174 HTO J121 DRIFT V312 CYN	MCGUIRE
TOPPS	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
TOPPS	HANAA FLOSI (RNAV)-STAR	NEWARK
TOPPS	EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
TOPPS	SEAEAR J79 Lfv J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
TOPPS	ENE CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
TOPPS	EMJAY J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
TOPPS	ENE BAF Q480 AIR J80 VHP AARCH (RNAV)-STAR	ST. LOUIS
TOPPS	ENE NELIE J75 CMK J75 TAY Dades Arrival	TAMPA
TOPPS	VLV OMBRE Arrival	MONTREAL/TRUDEAU
TOPPS	VLV CATOG VEPSU DIRECT	MONTREAL/MIRABEL
TOPPS	YUL LETAK IMEBA Arrival	TORONTO

## VIA TUSKY

Inland Navigation Facility/Fix	Non-Common Portion	Destination
TUSKY	EMJAY J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
TUSKY	BOS BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
TUSKY	BOS J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
TUSKY	EURRO OOSHN (RNAV)-STAR	BOSTON
TUSKY	EMJAY J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
TUSKY	BOS J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
TUSKY	BOS BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
TUSKY	LFV J174 HTO J121 SIE	DOVER
TUSKY	BOS BAF HYPER Arrival	DULLES
TUSKY	EMJAY J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
TUSKY	BOS BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
TUSKY	PLYMM Parch Arrival	KENNEDY
TUSKY	LFV J174 HTO J121 DRIFT V312 CYN	MCGUIRE
TUSKY	EMJAY J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
TUSKY	BOS NELIE FLOSI (RNAV)-STAR	NEWARK
TUSKY	EMJAY J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
TUSKY	LFV J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
TUSKY	BOS CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
TUSKY	EMJAY J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
TUSKY	BOS BAF Q480 AIR J80 VHP AARCH (RNAV)-STAR	ST. LOUIS
TUSKY	BOS J75 CMK J75 TAY Dades Arrival	TAMPA

## NORTH AMERICAN ROUTES

## VIA VANSI

Inland Navigation Facility/Fix	Non-Common Portion	Destination
VANSI	TVC OBK J73 BNA NEWBB IHAVE KNGGG DRMMM (RNAV)-STAR	ATLANTA
VANSI	SSM PAITN Arrival	CHICAGO
VANSI	YXI Q802 KENLU Q804 DERLO DJB J83 APE TIGRR (RNAV)-STAR	CINCINNATI
VANSI	TVC BAE J105 RZC FSM RRNET SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
VANSI	YVO KAPUX HOCKE FNT POLAR POLAR -Arrival	DETROIT
VANSI	TVC OBK J101 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
VANSI	TVC OBK J71 RBS AARCH (RNAV)-STAR	ST LOUIS
VANSI	YXI IMEBA Arrival	TORONTO

## VIA VITOL

Inland Navigation Facility/Fix	Non-Common Portion	Destination
VITOL	ACK HTO J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
VITOL	ACK HTO RBV J230 BYRDD J48 FLASK WINNG (RNAV)-STAR	ATLANTA
VITOL	EURRO OOSH (RNAV)-STAR	BOSTON
VITOL	ACK HTO J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
VITOL	ACK HTO J121 SIE	DOVER
VITOL	ACK J62 RBV HYPER Arrival	DULLES
VITOL	ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
VITOL	PLYMM Parch Arrival	KENNEDY
VITOL	ACK HTO J121 DRIFT V312 CYN	MCGUIRE
VITOL	ACK J62 RIFLE J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
VITOL	BOS NELIE FLOSI (RNAV)-STAR	NEWARK
VITOL	ACK HTO J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
VITOL	ACK HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
VITOL	ACK J62 RIFLE J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
VITOL	NELIE J75 TAY DADES (RNAV)-STAR	TAMPA

## VIA WHALE

Inland Navigation Facility/Fix	Non-Common Portion	Destination
WHALE	LFV J174 ZIZZI ATR LAFLN SPISY (RNAV)-STAR	ANDREWS
WHALE	BOS BAF Q448 PTW J48 FLASK WINNG (RNAV)-STAR	ATLANTA
WHALE	BOS J75 MXE V378 NUGGY TRISH (RNAV)-STAR	BALTIMORE
WHALE	EURRO OOSH (RNAV)-STAR	BOSTON
WHALE	LFV J174 SWL J121 ISO AMYLU (RNAV)-STAR	CHARLESTON, SC
WHALE	BOS J75 GVE LYH CHSLY (RNAV)-STAR	CHARLOTTE
WHALE	BOS BAF Q406 BWZ J6 LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT. WORTH
WHALE	LFV J174 HTO J121 SIE	DOVER
WHALE	BOS BAF HYPER Arrival	DULLES
WHALE	ACK J62 RIFLE J174 SWL CEBEE WETRO ILM AR21 CRANS Fisel Arrival	FT. LAUDERDALE
WHALE	BOS BAF Q448 PTW J48 CSN FANPO Q40 AEX DOOBI (RNAV)-STAR	HOUSTON
WHALE	PLYMM Parch Arrival	KENNEDY
WHALE	LFV J174 HTO J121 DRIFT V312 CYN	MCGUIRE
WHALE	LFV J174 SWL CEBEE WETRO DIW AR22 JORAY Hiley Arrival	MIAMI
WHALE	BOS NELIE FLOSI (RNAV)-STAR	NEWARK
WHALE	LFV J150 HTO J174 ORF J121 CHS J79 OMN CWRLD (RNAV)-STAR	ORLANDO
WHALE	LFV J174 HTO J121 BRIGS JIIMS (RNAV)-STAR	PHILADELPHIA
WHALE	BOS CTR HNK CFB J190 SLT HAYNZ (RNAV)-STAR	PITTSBURGH
WHALE	ACK J62 RIFLE J174 SWL KAROO (RNAV)-STAR	RALEIGH-DURHAM
WHALE	BOS Q480 AIR J80 VHP AARCH (RNAV)-STAR	ST. LOUIS
WHALE	BOS J75 TAY DADES (RNAV)-STAR	TAMPA

# NORTH AMERICAN ROUTES

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## VIA YBC

Inland Navigation Facility/Fix	Non-Common Portion	Destination
YBC	POLTY Q804 DERLO DJB J83 APE SPAYD HLRRY PECHY (RNAV)-STAR	ATLANTA
YBC	VBS KAPUX HOCKE FNT WYNDE (RNAV)-STAR	CHICAGO
YBC	POLTY Q804 DERLO DJB J83 APE TIGRR-STAR	CINCINNATI
YBC	POLTY Q804 DERLO WWSHR Q29 KLYNE PXV LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT WORTH
YBC	VBS KAPUX HOCKE FNT POLAR POLAR-Arrival	DETROIT
YBC	VBS KAPUX AXIS SPICA SPICA-STAR	DETROIT
YBC	POLTY Q804 DERLO WWSHR Q29 KLYNE PXV J131 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
YBC	CATOG VEPSU DIRECT	MONTREAL/MIRABEL
YBC	OMBRE OMBRE Arrival	MONTREAL/TRUDEAU
YBC	YXI ECK GIJ RBS AARCH (RNAV)-STAR	ST. LOUIS
YBC	POLTY IMEBA Arrival	TORONTO

## VIA YRI

Inland Navigation Facility/Fix	Non-Common Portion	Destination
YRI	POLTY Q804 DERLO DJB J83 APE SPAYD HLRRY PECHY (RNAV)-STAR	ATLANTA
YRI	KAPUX ASP WYNDE (RNAV)-STAR	CHICAGO
YRI	POLTY Q804 DERLO DJB J83 APE TIGRR (RNAV)-STAR	CINCINNATI
YRI	POLTY Q804 DERLO WWSHR Q29 KLYNE PXV LIT FEWWWW SEEVR (RNAV)-STAR	DALLAS/FT WORTH
YRI	KAPUX HOCKE FNT POLAR POLAR-Arrival	DETROIT
YRI	KAPUX AXIS SPICA SPICA-STAR	DETROIT
YRI	POLTY Q804 DERLO WWSHR Q29 KLYNE PXV J131 LIT J180 SWB ZEEKK (RNAV)-STAR	HOUSTON
YRI	CATOG VEPSU DIRECT	MONTREAL/MIRABEL
YRI	OMBRE Ombre Arrival	MONTREAL/TRUDEAU
YRI	YXI ECK GIJ RBS AARCH (RNAV)-STAR	ST. LOUIS
YRI	POLTY IMEBA Arrival	TORONTO

## VIA ZQA

Inland Navigation Facility/Fix	Non-Common Portion	Destination
ZQA	BR22V DEKAL	FT LAUDERDALE
ZQA	BR49V FOWEE Fowee Arrival	MIAMI
ZQA	BR54V	PALM BEACH

### RNAV Routing Pitch and Catch Points

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

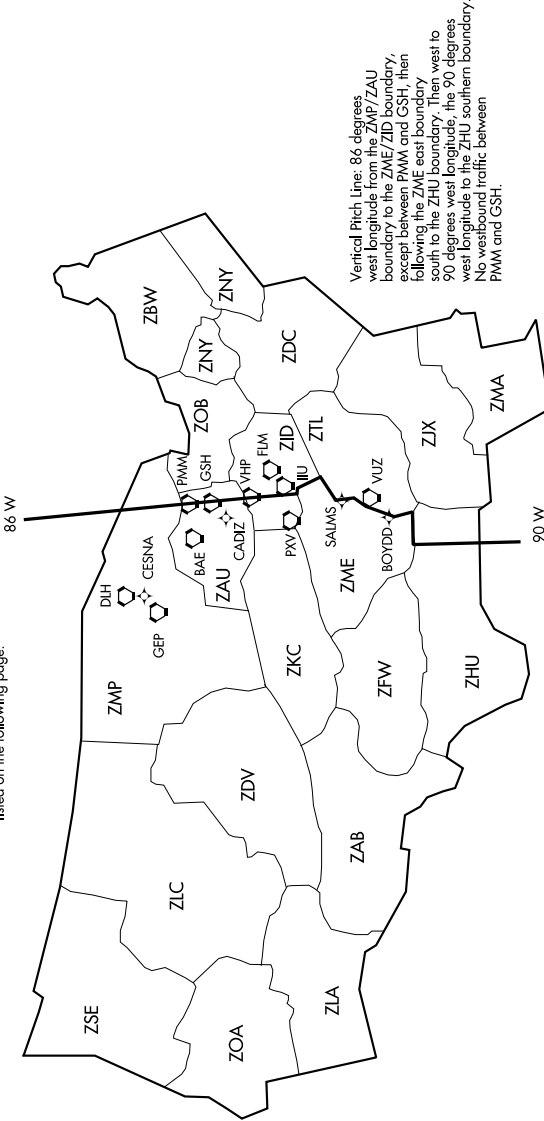
Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcme.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch at the airspace boundary, at the vertical pitch line, or at the fixes listed on the following page.



Vertical Pitch Line: 86 degrees west longitude from the ZMP/ZAU boundary to the ZME/ZID boundary, except between PMM and GSH, then following the ZME east boundary south to the ZHU boundary. Then west to 90 degrees west longitude, the 90 degrees west longitude to the ZHU southern boundary. No westbound traffic between PMM and GSH.



**HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING****HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace**

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLM, IIU, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

**HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace**

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MZV or BAE
Dallas–Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD–STAR or MLC J105 SGF BDF BRADFORD–STAR
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, ELD, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE–RNAV STAR or Aircraft joining J37 to the northeast, GUSTI SID GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42
Houston Hobby	LIT, ELD, MLC, JCT, or Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTS or KENTN

Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE
Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI

San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area Oakland San Jose	GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

\*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

**Catch Points for Airports Located Outside HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)-STAR or PATYN HONIE (RNAV)-STAR
Baltimore-Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton-Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR-STAR or VHP FWA MIZAR-STAR
Detroit Young	VHP FWA or LAN SPRTN-STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY-STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP VHP, IIU, BNA, VUZ
Raleigh-Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP

Teterboro\* GEP, VHP, CRL, BNA, VUZ

Washington Dulles/National\* GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ

White Plains\* GEP, VHP, CRL, FLM, IIU, BNA, VUZ

Willow Run\* LAN, LFD, VHP, FWA, GEP

\*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area	CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR
Austin Terminal Area	Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO
Boca Raton, FL	CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR
Chicago Midway	CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR
Chicago O'Hare Terminal Area	GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR
Dallas-Fort Worth Terminal Area	IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS
Ft Lauderdale or Ft Lauderdale Executive	CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR
Houston Bush	CRP, CVE, LLO, LUKIY, SAT or Aircraft south and east of LLA, JEPEG or MISLE Q40 AEX or Aircraft north and east of SJI, SJI or Aircraft east of PXV, PXV Q31 DHART SWB or Aircraft north and west of PXV, PROWL Q33 DHART SWB

Houston Hobby	CRP, ELLVR, SAT, SWB or Aircraft south and east of GIRLY, KCEEE or Aircraft north and east of SJI, SJI or BESOM Q38 ROKIT ROKIT-STAR or Aircraft east of PXV, PXV Q29 HARES SWB or Aircraft north and west of PXV, PROWL Q33 DHART SWB
Jacksonville	GADAY ZOOSS TAY Aircraft through ZHU airspace remain south of ZME and ZTL airspace or ZOOSS TAY
John Wayne-Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER-STAR or PWE ROBINSON-STAR or EMP JHAWK-STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA, PGS, LYNSY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVNVN Q104 CYY DEEDS (RNAV)-STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER-STAR or RWF SKETR-STAR or ALO KASPR-STAR or BRD GOPHER-STAR or BAE EAU CLAIRE-STAR or FOD TWOLF-STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)-STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVNVN Q104 PLYER PIKKR (RNAV)-STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLS
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO

Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE-STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE-STAR
Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)-STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)-STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	JKNOX HHOOD-STAR or JOTBA HHOOD-STAR or SOERN TMBRS-STAR or GALLO TMBRS-STAR or MACHU TMBRS-STAR or SPNSR TMBRS-STAR or MOXEE MOXEE-STAR
St. Louis Terminal Area	SGF TRAKE-STAR or BUM TRAKE-STAR or ANX TRAKE-STAR or LMN IRK RIVRS-STAR or RBS VANDALIA-STAR











Salt Lake City Terminal Area	JNC J12 HELPR SPANE-STAR or EKR MTU SPANE-STAR or BCE DTA-TCH or MLF DTA-TCH or BVL BONNEVILLE-STAR or BYI BEARR-STAR or PIH BEARR-STAR or DBS BRIGHAM CITY-STAR or JAC BRIGHAM CITY-STAR or BPI BRIGHAM CITY-STAR or OCS BRIGHAM CITY-STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north-south line at LFK, BLEWE or East of a north-south line at LFK, IDU
San Francisco	FMG GOLDEN GATE-STAR or MVA MODESTO-STAR or ENI GOLDEN GATE-STAR or OAL MODESTO-STAR or South of a line ILC to DVC, REANA KATTS OAL MODESTO-STAR
San Jose	FMG HYP EL NIDO-STAR or OAL HYP EL NIDO-STAR or ENI GOLDEN GATE-STAR or South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO-STAR
Seattle Terminal Area	Aircraft from northeast, southeast, south, TEMPL GLASR-STAR or SUNED CHINS-STAR or BTG HAWKZ-STAR
Southwest Florida Airports RSW and FMY	CEW DEFUN Q104 SWABE JOSFF-STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW HEVVN Q104 SWABE JOSFF-STAR
Tampa Terminal Area	CEW DEFUN Q104 HEVVN DARBS-STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW DARBS-STAR
Tucson	DRK PXR or MOHAK GBN

In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the Chart Supplement. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the Chart Supplement may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

### PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

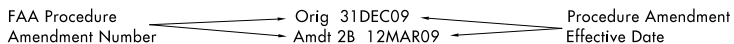
1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
  2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (\*) indicates non-standard PCL, consult Chart Supplement, e.g., .
- To activate lights, use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

<u>KEY MIKE</u>	<u>FUNCTION</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

### CHART CURRENCY INFORMATION

Date of Latest Revision                      09365

The Date of Latest Revision identifies the Julian date the chart was added or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest revision of any kind has been made to the chart.



The FAA Procedure Amendment Number represents the most current amendment of a given procedure. The Procedure Amendment Effective Date represents the AIRAC cycle date on which the procedure amendment was incorporated into the chart. Updates to the amendment number & effective date represent procedural/criteria revisions to the charted procedure, e.g., course, fix, altitude, minima, etc.

NOTE: Inclusion of the "Procedure Amendment Effective Date" will be phased in as procedures are amended. As this occurs, the Julian date will be relocated to the upper right corner of the chart.

### MISCELLANEOUS

★ Indicates a non-continuously operating facility, see Chart Supplement.

For Civil (FAA) instrument procedures, "RADAR REQUIRED" in the planview of the chart indicates that ATC radar must be available to assist the pilot when transitioning from the en route environment. "Radar required" in the pilot briefing portion of the chart indicates that ATC radar is required on portions of the procedure outside the final approach segment, including the missed approach. Some military procedures also have equipment requirements such as "Radar Required", but do not conform to the same charting application standards used by the FAA. Distances in nautical miles (except visibility in statute miles and Runway Visual Range in hundreds of feet). Runway Dimensions in feet. Elevations in feet. Mean Sea Level (MSL). Ceilings in feet above airport elevation. Radials/ bearings/headings/courses are magnetic. Horizontal Datum: Unless otherwise noted on the chart, all coordinates are referenced to North American Datum 1983 (NAD 83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

Terrain is scaled within the neat lines (planview boundaries) and does not accurately underlie not-to-scale distance depictions or symbols.

16147

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH

Runways



Hard Surface



Other Than Hard Surface



Stopways, Taxiways, Parking Areas, Water Runways



Displaced Threshold



Closed Runway



Closed Taxiway



Under Construction



Metal Surface

ARRESTING GEAR: Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



ARRESTING SYSTEM (EMAS)

REFERENCE FEATURES

- Hot Spot ..... ○
- Runway Holding Position Markings ..... ==
- Buildings ..... ■
- 24-Hour Self-Serve Fuel ### ..... 🚰
- Tanks ..... ●
- Obstructions ..... ▲
- Airport Beacon # ..... ☆
- Runway Radar Reflectors ..... ▼
- Control Tower # ..... TWR

# When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

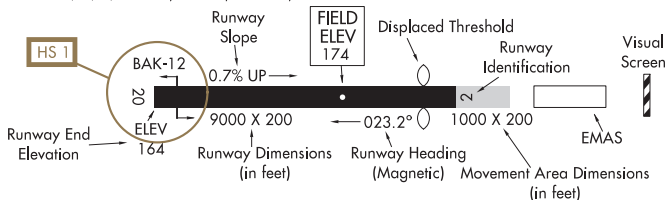
### A fuel symbol is shown to indicate 24-hour self-serve fuel available, see appropriate Chart Supplement for information.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate Chart Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 PCN 80 F/D/X/U S-75, D-185, 2S-175, 2D-325



SCOPE

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

Helicopter Alighting Areas (H) (H) (H) (H) (H)  
 Negative Symbols used to identify Copter Procedures landing point..... (H) (H) (H) (H) (H)

Runway Threshold elevation.....THRE 123  
 Runway TDZ elevation.....TDZE 123  
 Runway Slope.....0.8% UP  
 (shown when runway slope is greater than or equal to 0.3%)

NOTE:  
 Runway Slope measured to midpoint on runways 8000 feet or longer.

U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or 1/2 minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:  
 All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)

LEGEND

## HOT SPOTS

An "Airport surface hot spot" is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A "hot spot" is a runway safety related problem area on an airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as open circles or polygons designated as "HS 1", "HS 2", etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>CONNECTICUT</b>		
BRIDGEPORT		
IGOR I SIKORSKY MEM (BDR)	HS 1	Maintain vigilance exiting the general aviation ramp on Twy A and Twy D.
DANBURY		
DANBURY MUNI (DXR)	HS 1	Maintain vigilance confusing twy configuration.
	HS 2	Area not visible from the twr.
	HS 3	Active ramp adjacent to twy.
	HS 4	Hold position marking on Twy C for Rwy 26 is further from the rwy than the std location. It will appear before you expect it.
GROTON (NEW LONDON)		
GROTON-NEW LONDON (GON)	HS 1	When ldg Rwy 15-33 and exit on Twy C, you immediately enter the parallel Twy B.
	HS 2	When ldg Rwy 15-33 and exit on Twy J, you immediately enter the parallel Twy B.
HARTFORD		
HARTFORD-BRAINARD (HFD)	HS 1	Helipad is in close proximity to the intersection of Twy A and Twy H.
WINDSOR LOCKS		
BRADLEY INTL (BDL)	HS 1	Twy C and Twy E complex intersection in close proximity to Rwy 01-19.
	HS 2	Acft on Twy S missing Twy C may enter Rwy 24.
	HS 3	Acft on Twy J missing Twy S may enter Rwy 33.
<b>DELAWARE</b>		
DOVER		
DOVER AFB (DOV)	HS 1	Intersecting twys and rwys can create confusion. Query twr if lost or need help.
	HS 2	Notice: Controlled Movement Area (CMA) boundary lines and stop lines are not always co-located with rwy hold lines.
	HS 3	Hold lines are further back from rwy than anticipated.
WILMINGTON		
NEW CASTLE (ILG)	HS 1	Twy F intersects Rwy 09-27 which is in close proximity to the thld of Rwy 14-32.
<b>DISTRICT OF COLUMBIA</b>		
WASHINGTON		
RONALD REAGAN WASHINGTON NATIONAL (DCA)	HS 1	Twy M and Twy J intersection in close proximity of the rwy.
	HS 2	Twy N, Twy K, Twy L, and Twy J complex intersection in close proximity of the rwy.
<b>MAINE</b>		
PORTLAND		
PORTLAND INTL JETPORT (PWM)	HS 1	Acft taxiing southbound on Twy C must be alert to not miss the turn at Twy A and enter Rwy 11-29 w/o authorization.
	HS 2	Acft taxiing northbound on Twy C must maint vigilance apch the Rwy 18 hold short marking which is lctd further S on Twy C than most pilots would anticipate.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>MARYLAND</b>		
EASTON EASTON/NEWMAM FLD (ESN)	HS 1	Acft taxiing southbound on Twy A to Rwy 33 inadvertently miss the turn onto Twy B and enter Rwy 33 without a clearance. Twy A and Twy B intersection in close proximity to the rwy.
FREDERICK FREDERICK MUNI (FDK)	HS 1	Eastbound tfc on Twy E and North and Southbound tfc on Twy A must remain alert for tfc exiting Rwy 05-23 at Twy E.
	HS 2	Northbound tfc on Twy A must remain alert as to not miss Twy B when taxiing to Rwy 30 and Southeast bound tfc on Twy B as not to miss Twy A when taxiing to Rwy 23.
	HS 3	Northbound tfc on Twy A need to be alert as not to miss Twy B and inadvertently taxi onto Rwy 30.
	HS 4	Southeast bound tfc on Twy B need to be alert as not to miss Twy A and inadvertently taxi onto Rwy 23.
<b>MASSACHUSETTS</b>		
BEDFORD LAURENCE G HANSCOM FLD (BED)	HS 1	Pilots become confused with the wide expanse of pavement and convergence of numerous twys.
BEVERLY BEVERLY MUNI (BVY)	HS 1	Prepare to hold short of Rwy 16-34 immediately after exiting the East Ramp.
	HS 2	Acft taxiing SE on Twy E fail to turn on Twy H and enter Rwy 27 without authorization.
BOSTON GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)	HS 1	Maintain vigilance when taxiing on Rwy 15L-33R approaching Rwy 04L-22R.
	HS 2	Maintain vigilance on Twy C when approaching Rwy 04L-22R.
	HS 3	Maintain vigilance on Twy E and Twy K when approaching Rwy 04L-22R.
	HS 4	Holdline on Twy B is further back than expected. Rwy 14 markings are not taxi markings, thus is confusing to where to hold short.
LAWRENCE LAWRENCE MUNI (LWM)	HS 1	Maintain vigilance approaching Rwy 05-23 hold lines.
	HS 2	Maintain vigilance on Twy A; hold line to Rwy 14-32 appears quickly.
	HS 3	Maintain vigilance approaching Rwy 05-23 hold lines.
NANTUCKET NANTUCKET MEM (ACK)	HS 1	Maintain vigilance while taxiing. High tfc area.
	HS 2	Maintain vigilance while taxiing. High tfc area.
	HS 3	Maintain vigilance while taxiing. High tfc area.
NORWOOD NORWOOD MEM (OWD)	HS 1	Hold position marking on Twy A for Rwy 35 is further from the rwy than the standard location. It will appear before you expect it.
WORCESTER WORCESTER RGNL (ORH)	HS 1	Maintain vigilance on Twy D and Twy F, converging twys in close proximity to Rwy 15-33.
<b>NEW HAMPSHIRE</b>		
LEBANON LEBANON MUNI (LEB)	HS 1	Rwy hold position marking for Rwy 25 on Twy B is further down the twy than most pilots would expect. When taxiing to Rwy 25 on Twy B the hold line will appear before you expect it.
	HS 2	North Ramp and Twy B between Twy B1 and Twy B2 area not visible from the twr.
	HS 3	Acft routinely back taxi on Rwy 18-36.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
MANCHESTER MANCHESTER (MHT)	HS 1	Maint vigilance apch the rwy holding posn markings. Anticipate the Rwy 17 hold line upon cros Rwy 24 northbound on Twy H.
	HS 2	Maint vigilance when taxiing to Rwy 35 on Twy A. Rwy holding posn markings lctd on the edge of Twy A at Twy P and Twy U.
<b>NEW JERSEY</b>		
CALDWELL ESSEX CO (CDW)	HS 1	Pilots taxiing to Rwy 28 northbound on Twy P should exercise caution at intersection of Twy P and Twy N due to close proximity to Rwy 28.
NEWARK NEWARK LIBERTY INTL (EWR)	HS 1	Maintain heightened awareness on Twy P btn Rwy 22L and Rwy 22R, north of Rwy 11-29.
	HS 2	Southbound ttc on Twy Z3 & Twy Z4 should not confuse Rwy 11-29 for Twy Z.
TETERBORO TETERBORO (TEB)	HS 1	Tfc taxiing on Twy B between Rwy 01-19 and Rwy 06-24 should maintain vigilance due to close proximity to both rwys. Distance between rwy hold short lines limited to 16 ft.
	HS 2	Maintain vigilance on Twy L at Rwy 06-24. High ttc area.
	HS 3	Maintain vigilance on Twy G at Rwy 06-24. High ttc area.
<b>NEW YORK</b>		
ALBANY ALBANY INTL (ALB)	HS 1	Maintain vigilance Twy A and Twy C complex int in close proximity to Rwy 10-28.
BINGHAMTON GREATER BINGHAMTON/EDWIN A LINK FLD (BGM)	HS 1	Maintain vigilance int in close proximity to Rwy 28 and Rwy 34.
BUFFALO BUFFALO NIAGARA INTL (BUF)	HS 1	Maintain vigilance Twy D and Twy A waiver for ATC crossings.
NEW YORK LAGUARDIA (LGA)	HS 1	Intersection of rwys and Twy G, Twy P, Twy R, Twy S.
	HS 2	Maintain vigilance when exiting Rwy 04 at Twy Q. Be sure to completely cross the hold line which requires crossing onto another twy.
NEW YORK STEWART INTL (SWF)	HS 1	Northbound ttc on Twy C sometimes encounter ttc on Twy A.
	HS 2	Maint vigilance high ttc area in GA ramp.
ROCHESTER GREATER ROCHESTER INTL (ROC)	HS 1	Be alert during ldg/tkf Rwy 25 and Rwy 28 thlds in close proximity to each other.
SYRACUSE SYRACUSE HANCOCK INTL (SYR)	HS 1	Tfc exiting General Aviation parking sometimes miss the turn onto Twy H and enter Rwy 10-28 without authorization.
	HS 2	Acft taxiing southbound on Twy B, Twy E or Twy F miss the turn onto Twy A and enter the rwy without authorization.
<b>PENNSYLVANIA</b>		
HARRISBURG CAPITAL CITY (CXY)	HS 1	Rwy 26 LAHSO pavement marking is difficult to see in late afternoon due to sun.
	HS 2	Rwy 08 ILS Critical Area hold line pavement marking is NSTD.
	HS 3	Twy C at Rwy 30. Entrance to Twy B is difficult to see from Twy C due to large pavement area.

## AIRPORT DIAGRAMS

CITY/AIRPORT	HOT SPOT	DESCRIPTION
PHILADELPHIA PHILADELPHIA INTL (PHL)	HS 1	Acft taxiing on Twy D must remain alert to not enter Rwy 08-26 w/o proper clearance.
	HS 2	Tfc taxiing south on Twy Y must be alert to not miss the turn at Twy S and enter onto Rwy 09R-27L.
	HS 3	Maint vigilance, Twy E apch hold to protect Rwy 26 ovrn.
PITTSBURGH ALLEGHENY CO (AGC)	HS 1	Wide pavement int multiple rwys.
	HS 2	Wide pavement int with ramps, twys, and rwy.
READING READING RGNL/CARL A SPAATZ FLD (RDG)	HS 1	Hold lines on Twy B for Rwy 31 and Rwy 36 can be confusing due to close proximity.
	HS 2	Area along Twy H from Twy D to Rwy 18 hold line not visible from ATCT.
	HS 3	Area along Twy A from terminal ramp to Rwy 36 hold line not visible from ATCT.
WILLIAMSPORT WILLIAMSPORT RGNL (IPT)	HS 1	Tfc approaching the Rwy 27 and Rwy 30 Hold Line on Twy B must remain alert so as not to mistake that Hold Line as applying to a single rwy only. The Hold Line applies to Rwy 27 and Rwy 30.

## RHODE ISLAND

PROVIDENCE THEODORE FRANCIS GREEN STATE (PVD)	HS 1	Main vigilance at Twy M and Twy C due to vast amount of pavement and multiple rwy hold lines in close proximity of rwy.
	HS 2	Int of Rwy 16-34, Twy V, Twy N, and Twy T –complex int with a convergence of numerous twys with Rwy 16-34.
	HS 3	Twy M at the int of Twy B use extra vigilance due to vast amount of pavement and multiple hold lines in close proximity of rwy.
	HS 4	Maint vigilance dep northwest ramp. Twy S is immed adj to NW ramp. Acft could inadvertently enter Rwy 16-34.

## VERMONT

BURLINGTON BURLINGTON INTL (BTV)	HS 1	Wrong rwy departure risk. Pilots instructed to depart Rwy 19 mistakenly depart wrong rwy – Rwy 15.
	HS 2	Maintain vigilance on Twy C approaching Rwy 01-19 hold lines.

## VIRGINIA

NEWPORT NEWS NEWPORT NEWS/WILLIAMSBURG INTL (PHF)	HS 1	Maintain vigilance. Due to the large pavement area at the int of Rwy 07-25 and Rwy 02-20, pilots can easily become disoriented through the int.
	HS 2	Wrong rwy departure risk. Pilots instructed to depart Rwy 07 or Rwy 02 may mistakenly depart the adjacent rwy due to the close proximity of the thlds.
RICHMOND RICHMOND INTL (RIC)	HS 1	Wrong rwy departure risk. Pilots instructed to depart Rwy 20 or Rwy 16 mistakenly depart the adjacent rwy due to close proximity of thlds. Acft Idg Rwy 34 unable to exit Twy C expect to cross the departure end of Rwy 02 to clear the rwy.
ROANOKE ROANOKE-BLACKSBURG RGNL/WOODRUM FLD (ROA)	HS 1	Northbound t/c on Twy A for Rwy 24 sometimes fail to make the turn at Twy G and enter Rwy 06-24 without a clearance.
	HS 2	Maint situation awareness at Twy A and Twy D.

# AIRPORT DIAGRAMS

619

CITY/AIRPORT	HOT SPOT	DESCRIPTION
HUNTINGTON TRI-STATE/MILTON J FERGUSON FLD (HTS)	<b>WEST VIRGINIA</b>	
	HS 1	Maintain vigilance, Twy A does not lead to the end of Rwy 12. Full length departures rqr rwy crossing.
	HS 2	Maintain vigilance, Twy B relocated 200' southeast. Former twy is partially blocked and used as a vehicle access road.

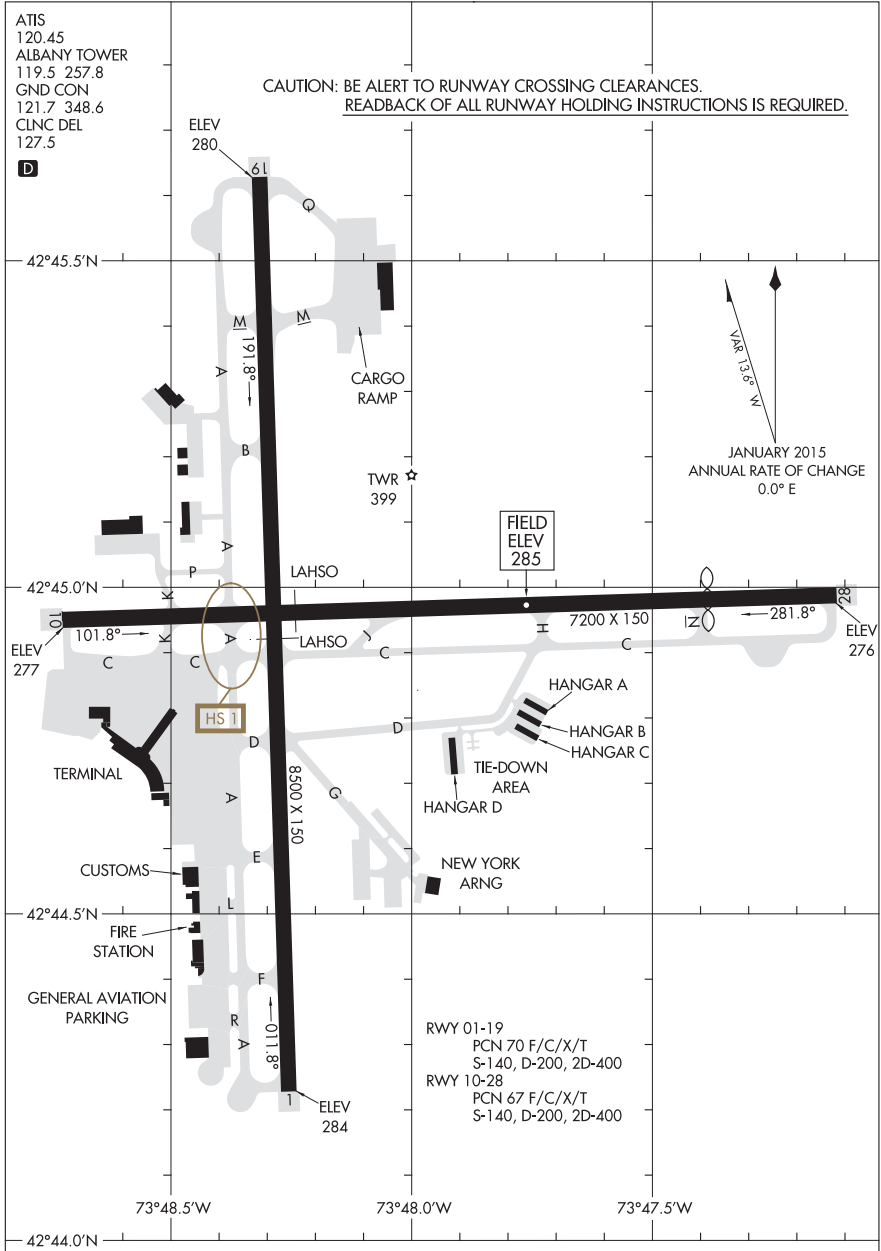


15344

AIRPORT DIAGRAM

AL-10 (FAA)

ALBANY INTL (ALB)  
ALBANY, NEW YORK



AIRPORT DIAGRAM

ALBANY, NEW YORK  
ALBANY INTL (ALB)

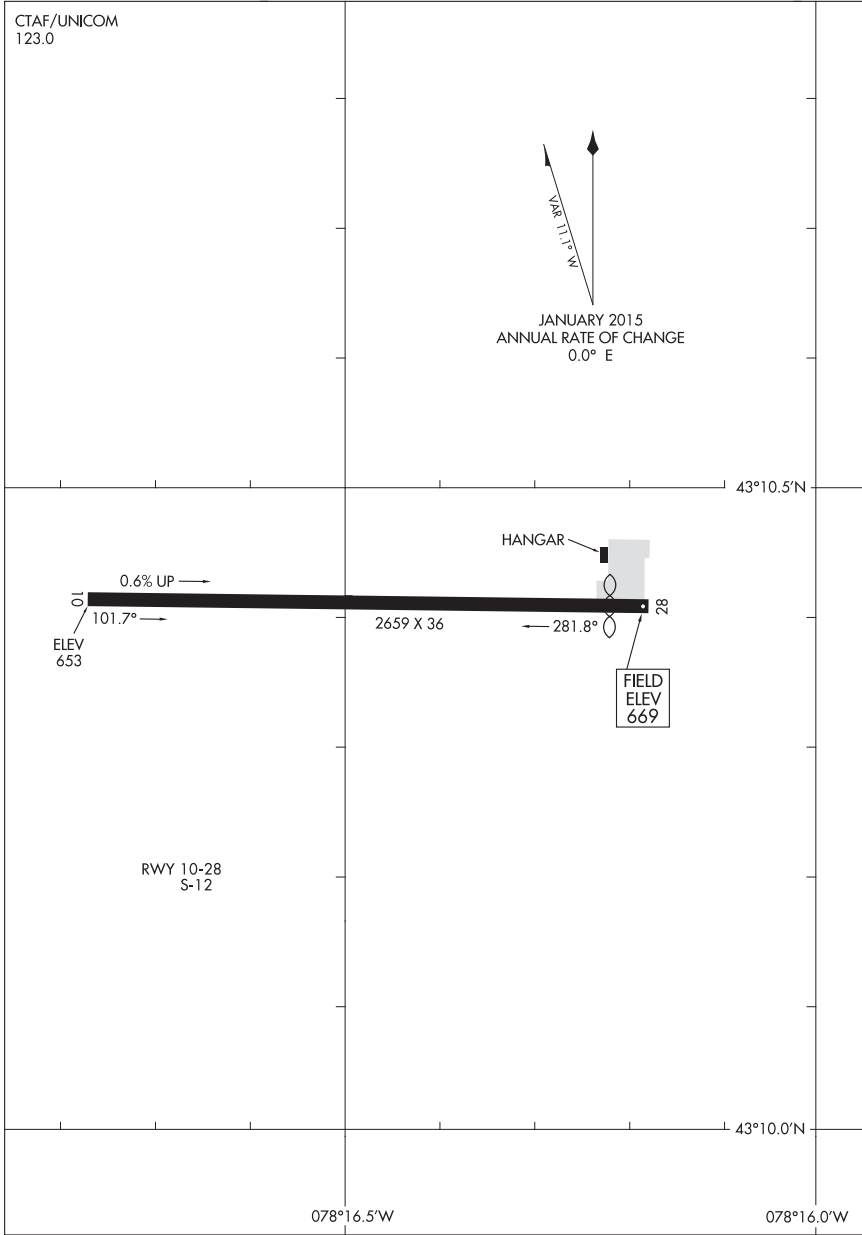
15344

15120

AIRPORT DIAGRAM

AL-6495 (FAA)

PINE HILL (9G6)  
ALBION, NEW YORK



AIRPORT DIAGRAM

15120

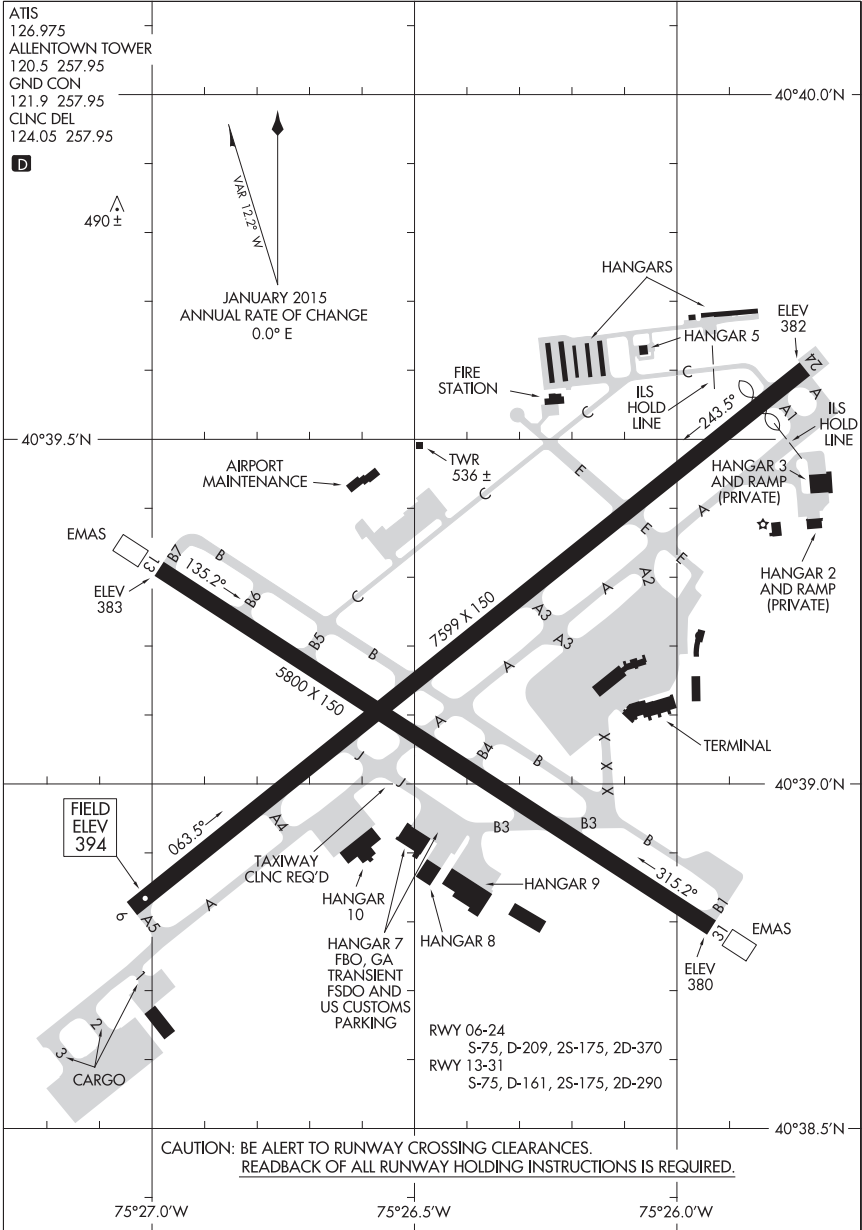
ALBION, NEW YORK  
PINE HILL (9G6)

16147

AIRPORT DIAGRAM

AL-15 (FAA)

LEHIGH VALLEY INTL (ABE)  
ALLENTOWN, PENNSYLVANIA



AIRPORT DIAGRAM

ALLENTOWN, PENNSYLVANIA  
LEHIGH VALLEY INTL (ABE)

16147

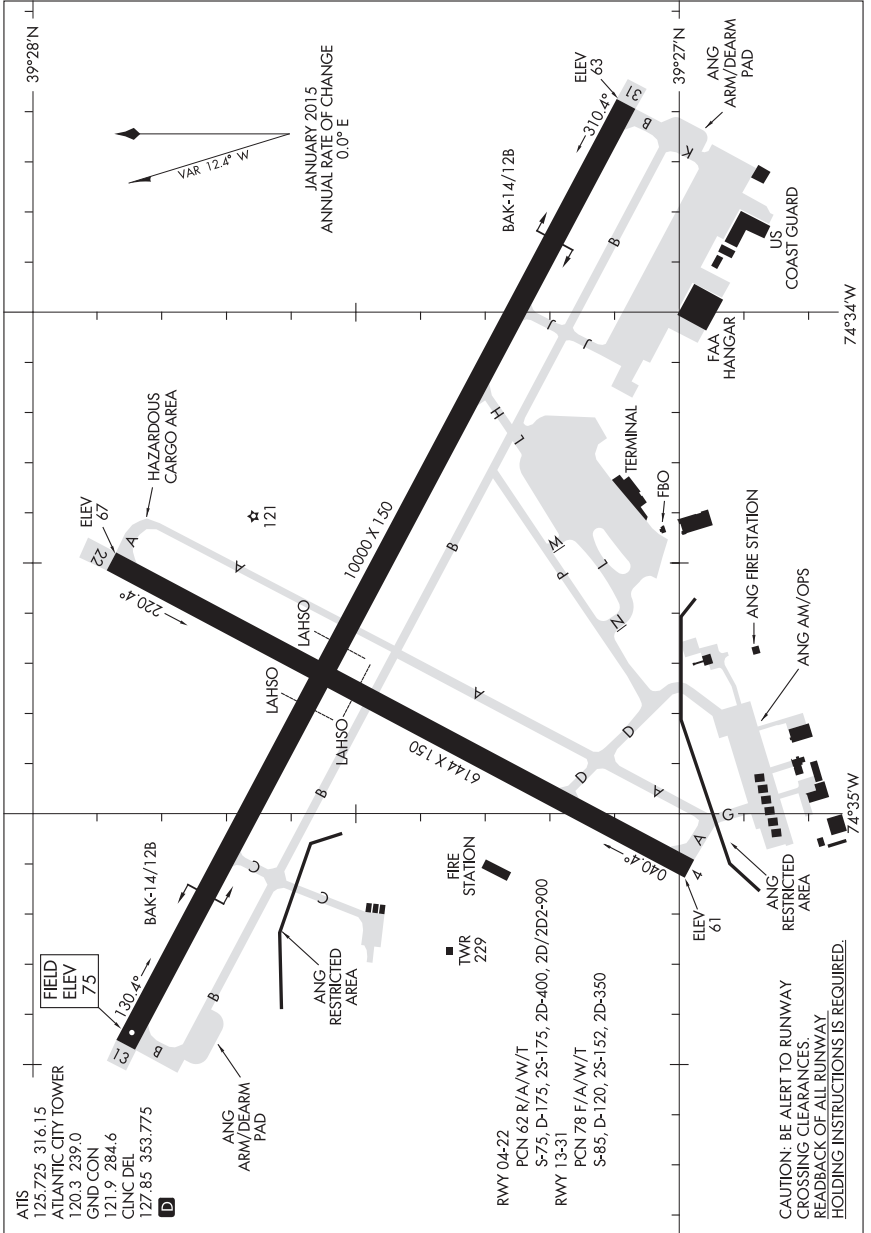
16035

AIRPORT DIAGRAM

AL-669 (FAA)

ATLANTIC CITY INTL (ACY)

ATLANTIC CITY, NEW JERSEY



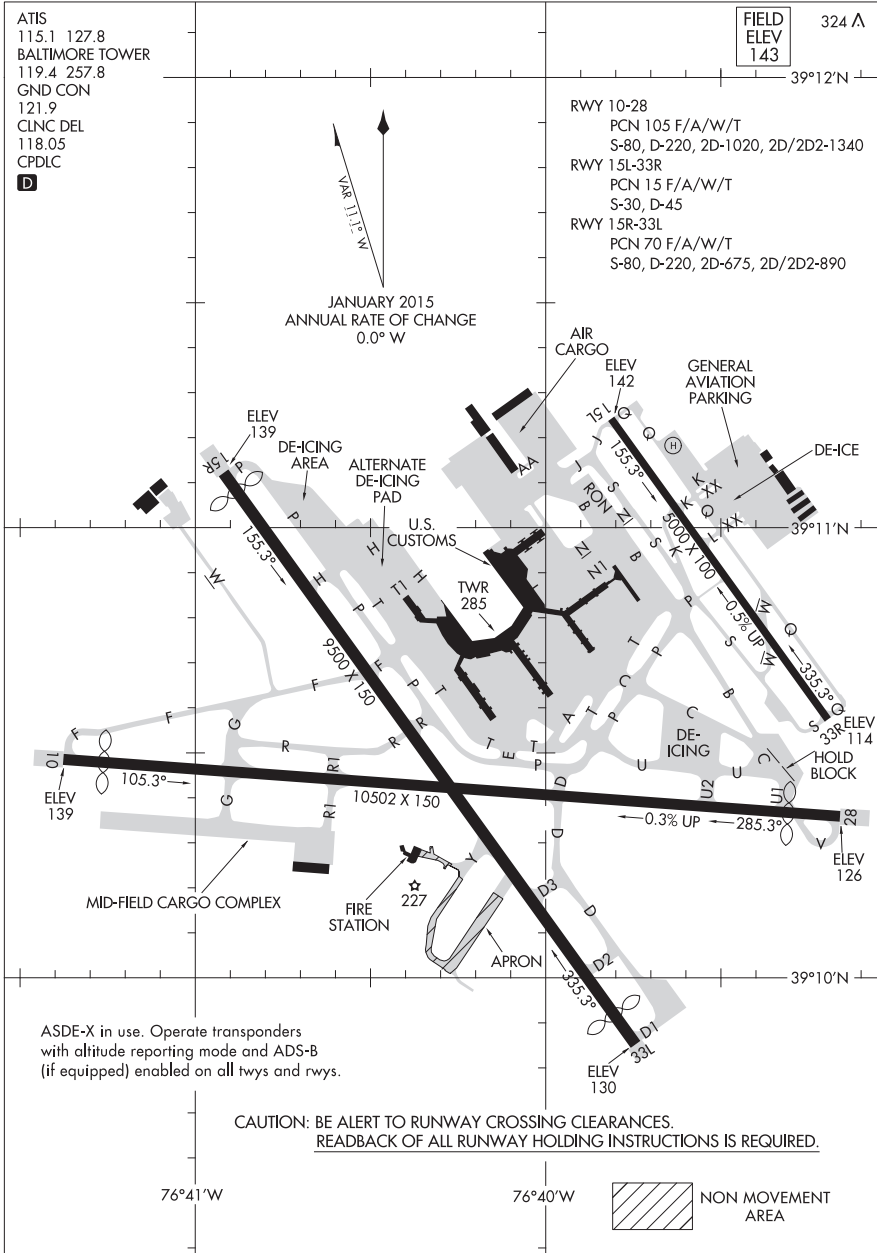
AIRPORT DIAGRAM

16035

ATLANTIC CITY, NEW JERSEY  
ATLANTIC CITY INTL (ACY)

16259  
AIRPORT DIAGRAM

BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)  
AL-804 (FAA) BALTIMORE, MARYLAND



AIRPORT DIAGRAM  
16259

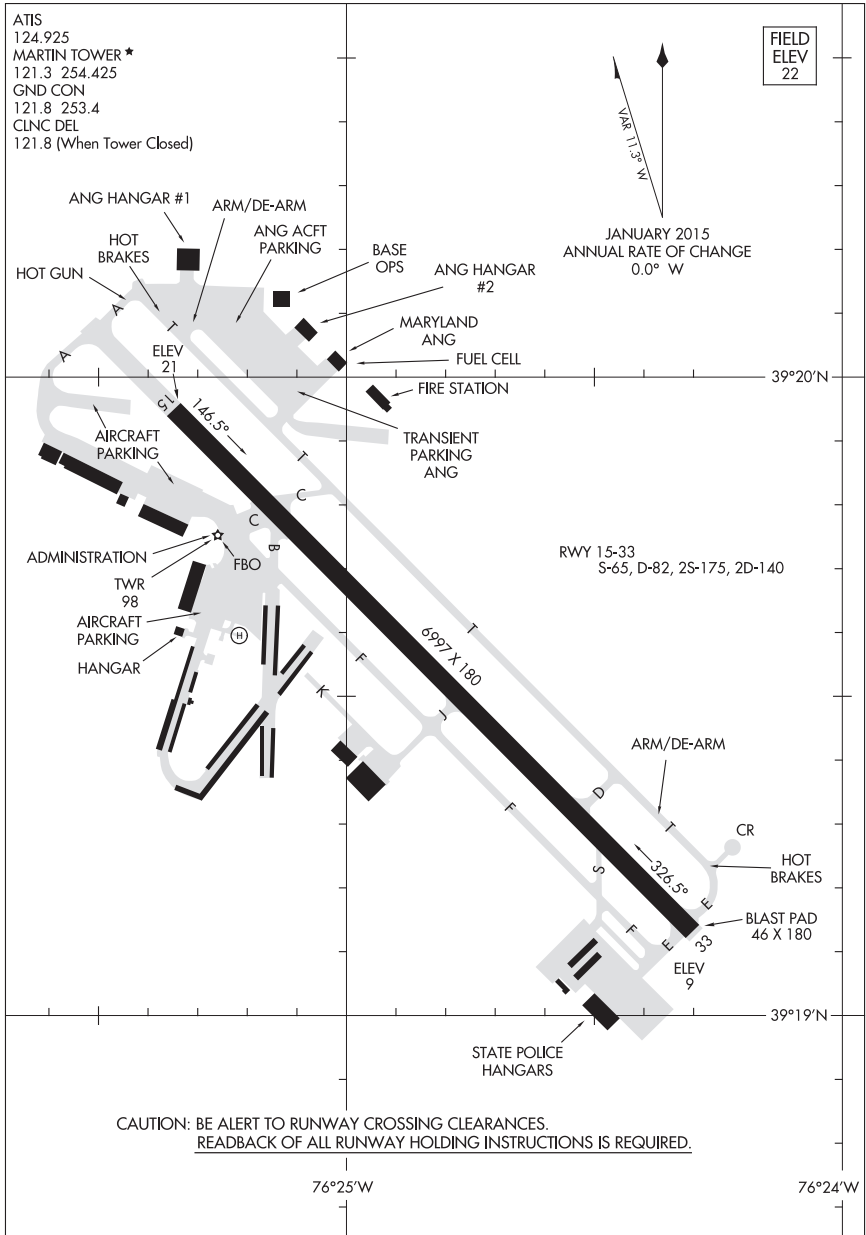
BALTIMORE, MARYLAND  
BALTIMORE/WASHINGTON INTL THURGOOD MARSHALL (BWI)

15120

AIRPORT DIAGRAM

AL-5222 (FAA)

MARTIN STATE (MTN)  
BALTIMORE, MARYLAND



AIRPORT DIAGRAM

15120

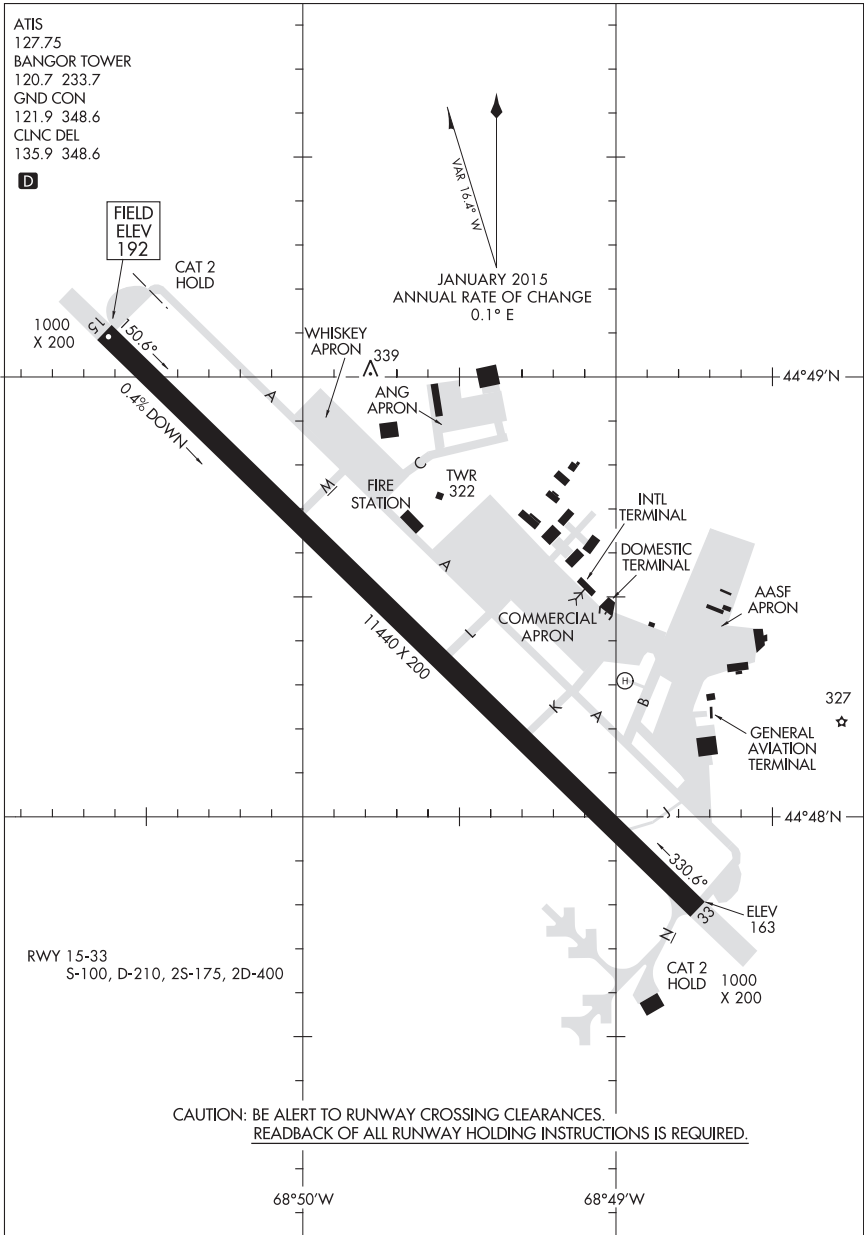
BALTIMORE, MARYLAND  
MARTIN STATE (MTN)

15232

AIRPORT DIAGRAM

AL-39 (FAA)

BANGOR INTL (BGR)  
BANGOR, MAINE



AIRPORT DIAGRAM

15232

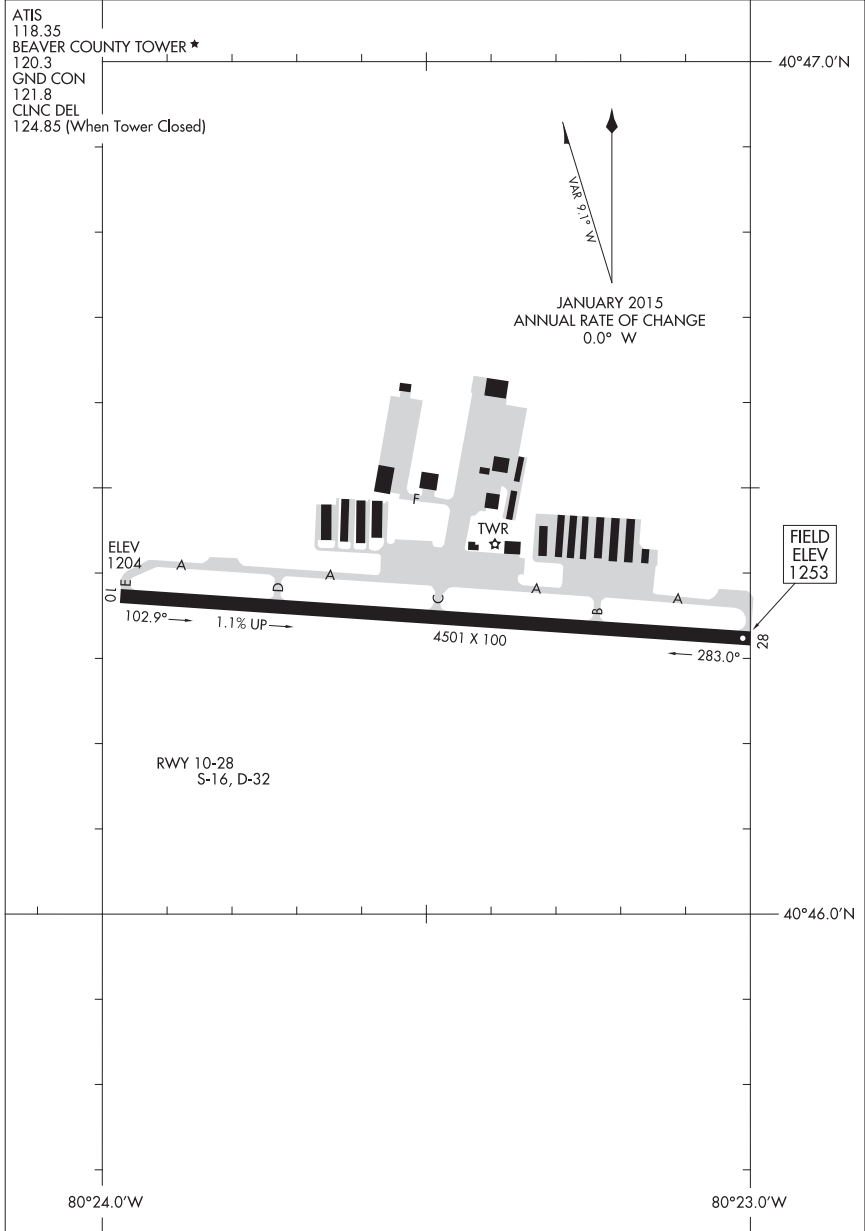
BANGOR, MAINE  
BANGOR INTL (BGR)

15064

AIRPORT DIAGRAM

AL-5206 (FAA)

BEAVER COUNTY (BVI)  
BEAVER FALLS, PENNSYLVANIA



AIRPORT DIAGRAM

15064

BEAVER FALLS, PENNSYLVANIA  
BEAVER COUNTY (BVI)



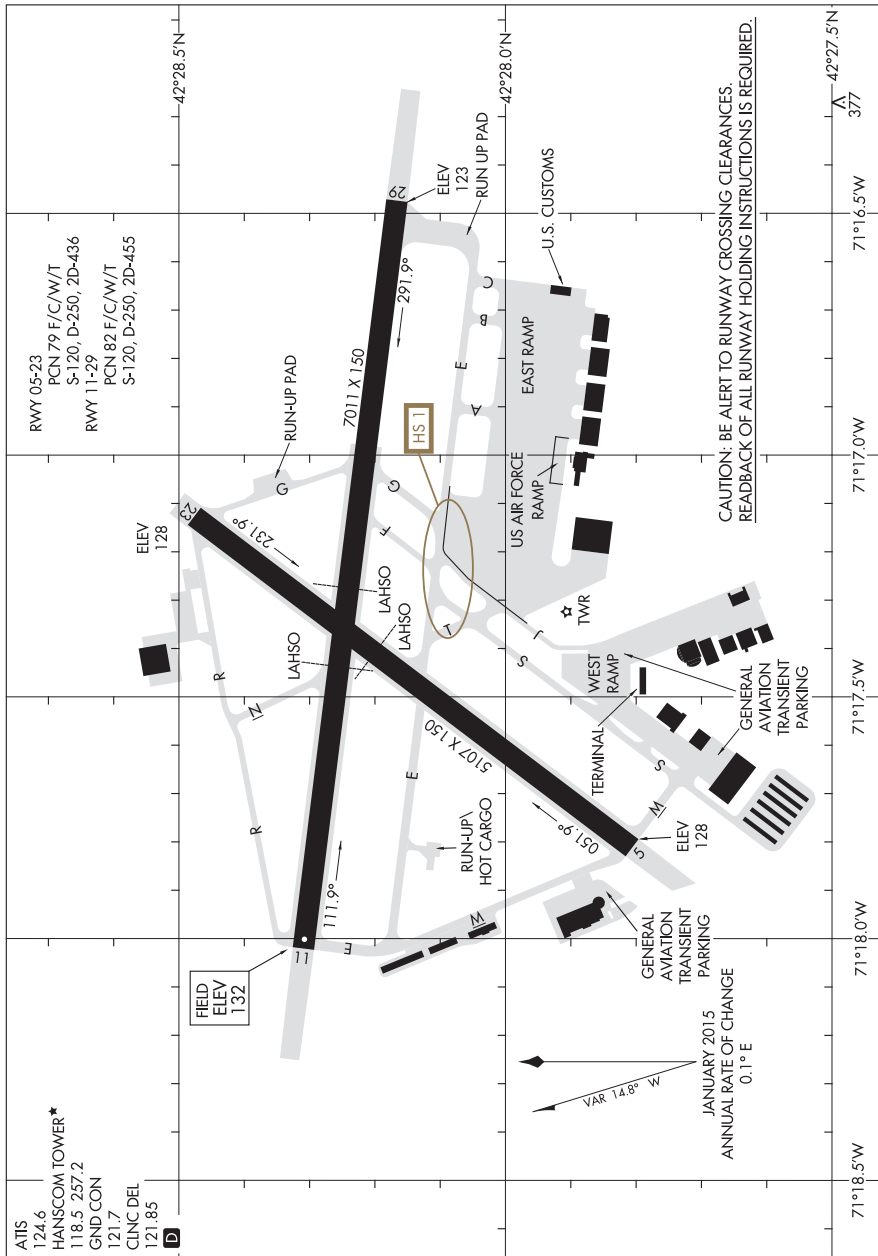
16091

AIRPORT DIAGRAM

LAURENCE G. HANSCOM FIELD (B/E/D)

AL-626 (FAA)

BEDFORD, MASSACHUSETTS



AIRPORT DIAGRAM

BEDFORD, MASSACHUSETTS

LAURENCE G. HANSCOM FIELD (B/E/D)

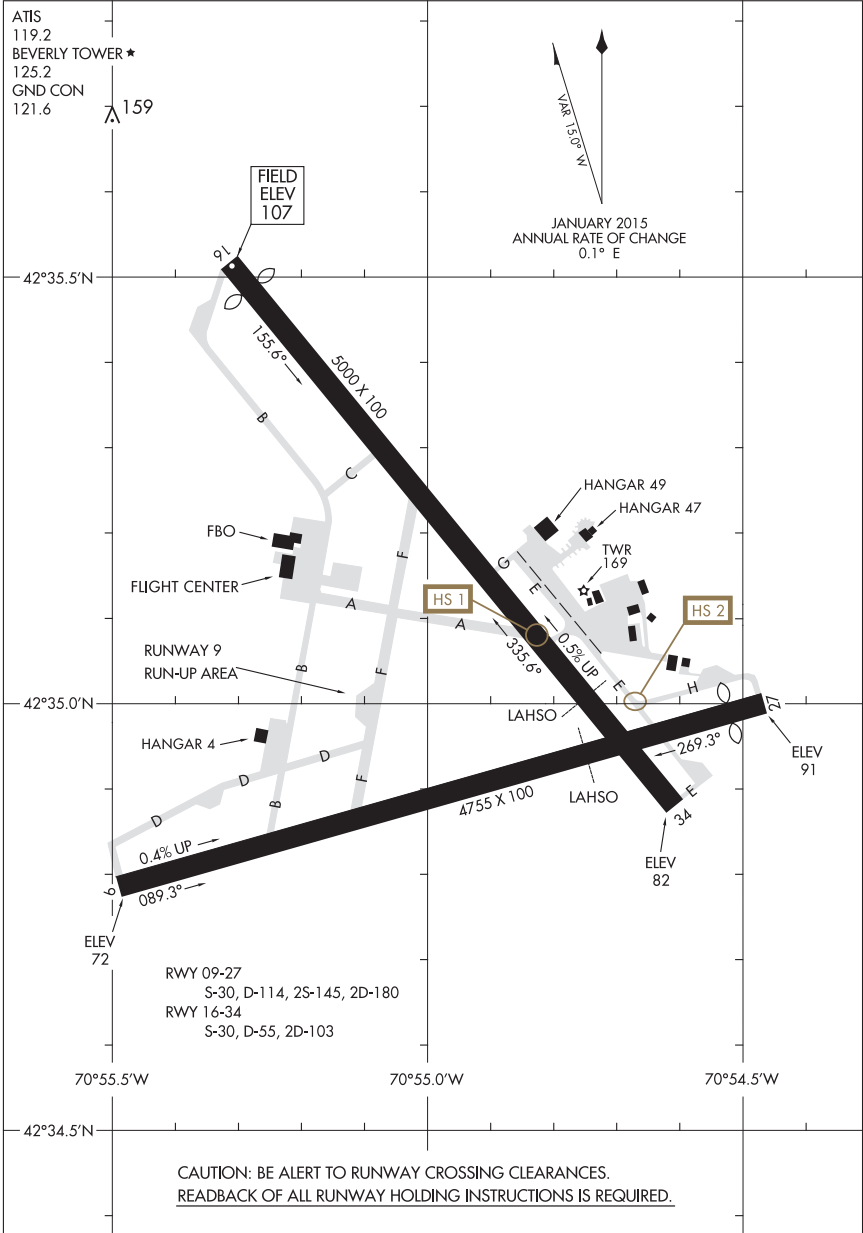
16091

15344

AIRPORT DIAGRAM

AL-5039 (FAA)

BEVERLY MUNI (BVY)  
BEVERLY, MASSACHUSETTS



AIRPORT DIAGRAM

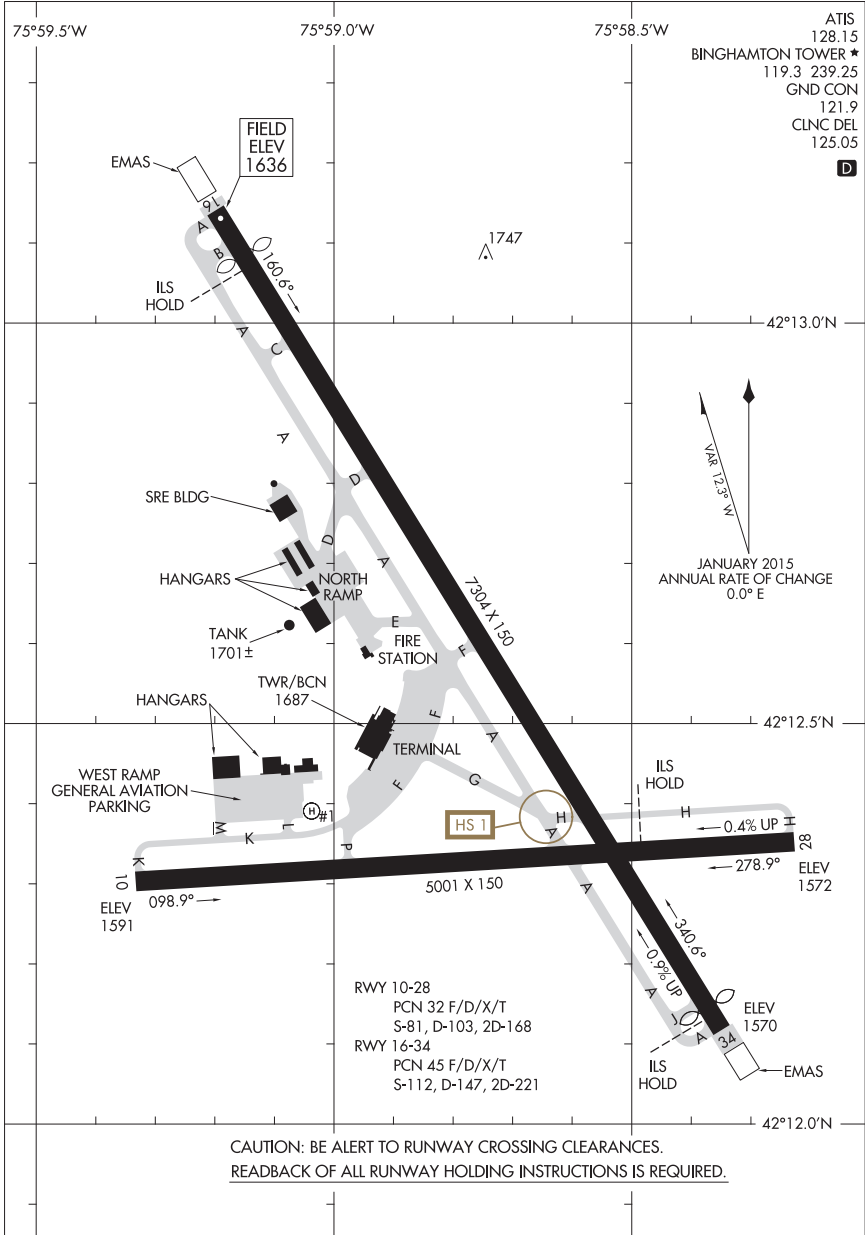
BEVERLY, MASSACHUSETTS  
BEVERLY MUNI (BVY)

15344

17005

AIRPORT DIAGRAM

GREATER BINGHAMTON/EDWIN A LINK FIELD (BGM)  
AL-20 (FAA)  
BINGHAMTON, NEW YORK



AIRPORT DIAGRAM

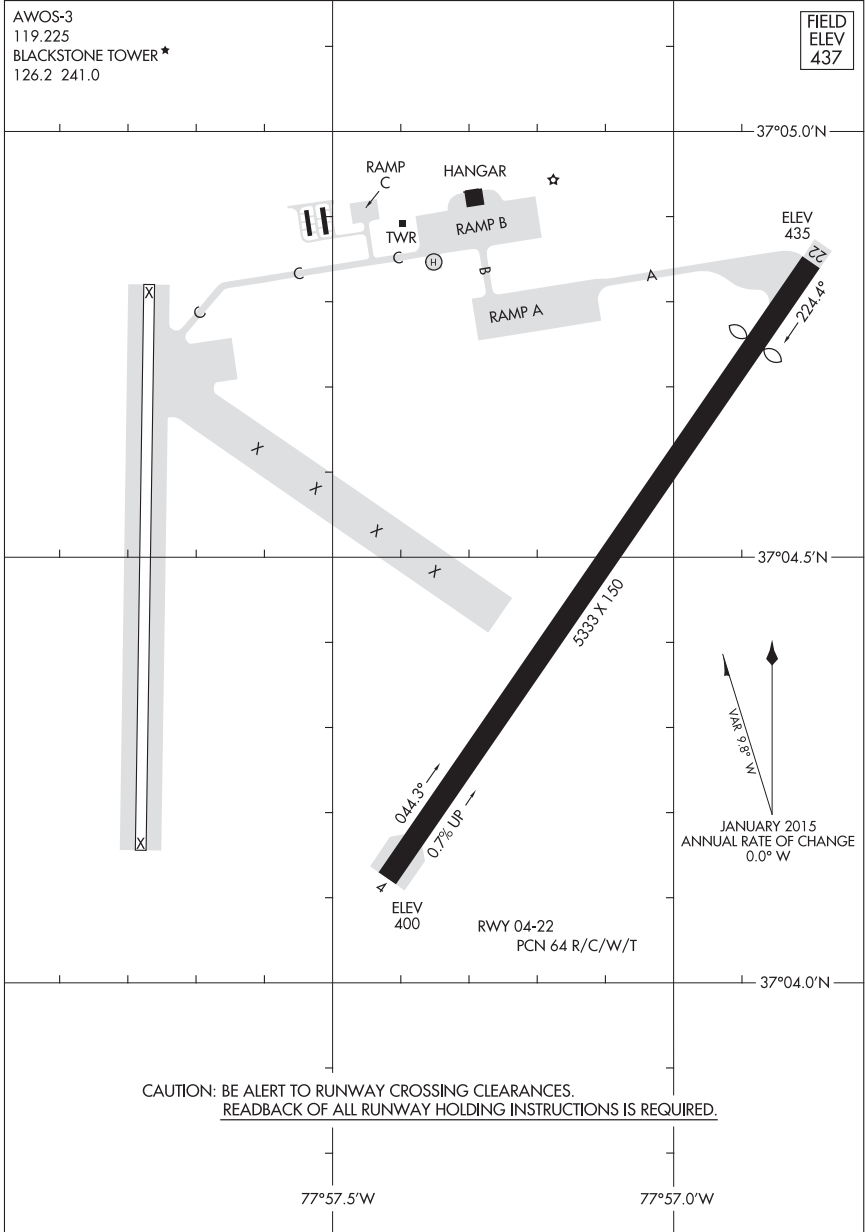
17005

BINGHAMTON, NEW YORK  
GREATER BINGHAMTON/EDWIN A LINK FIELD (BGM)

15120

AIRPORT DIAGRAM

ALLEN C. PERKINSON BLACKSTONE AAF (BKT)  
AL-52 (FAA) BLACKSTONE, VIRGINIA



AIRPORT DIAGRAM

15120

BLACKSTONE, VIRGINIA  
ALLEN C. PERKINSON BLACKSTONE AAF (BKT)

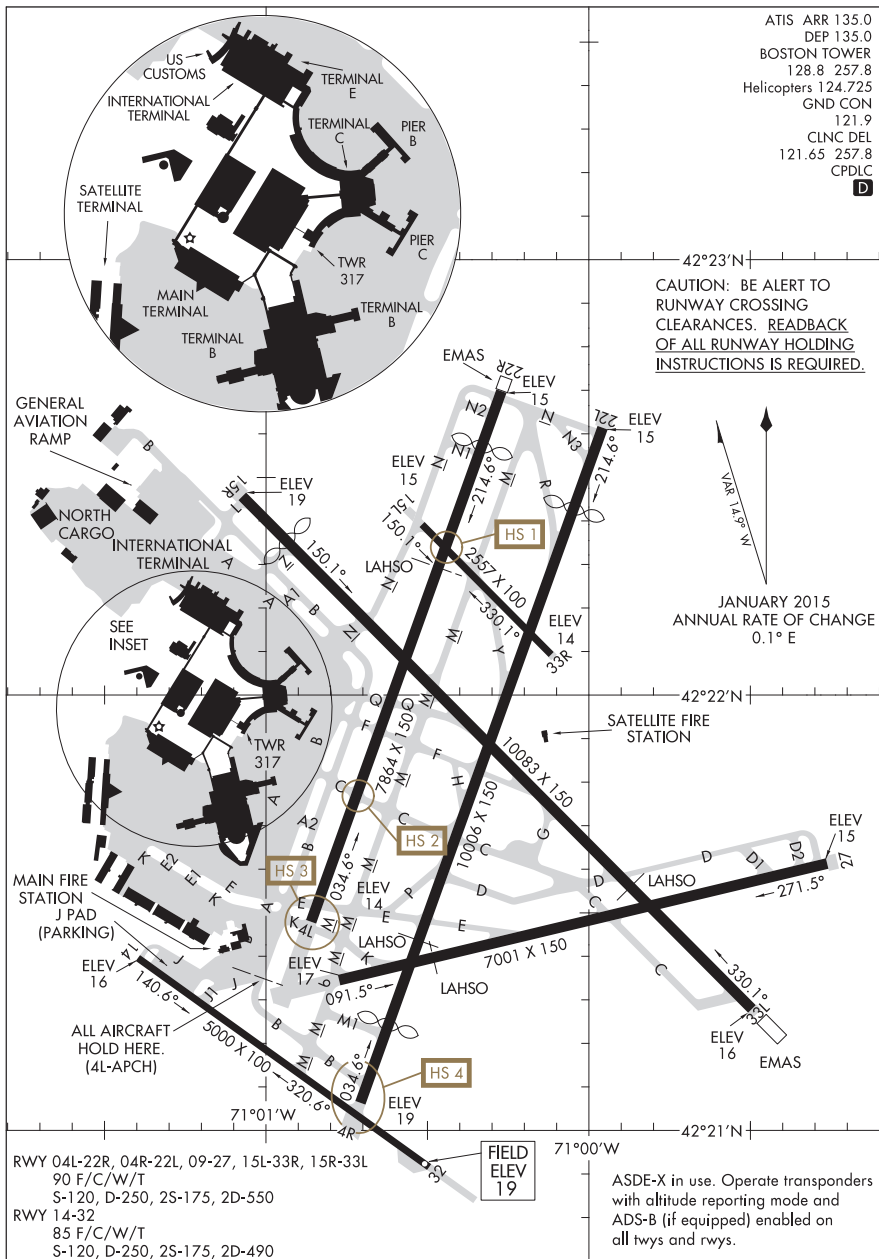
16315

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

AL-58 (FAA)

BOSTON, MASSACHUSETTS

# AIRPORT DIAGRAM



# AIRPORT DIAGRAM

16315

GENERAL EDWARD LAWRENCE LOGAN INTL (BOS)

BOSTON, MASSACHUSETTS

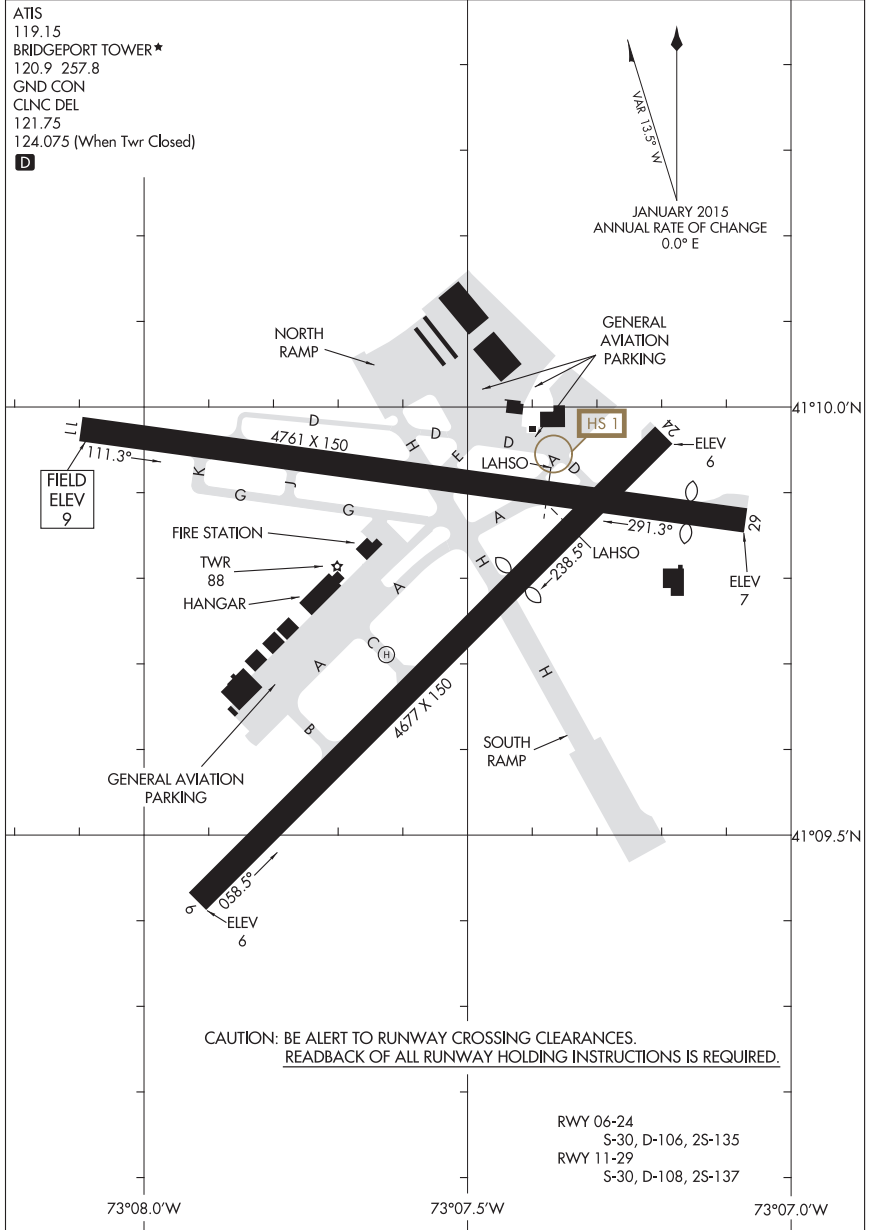
16035

AIRPORT DIAGRAM

IGOR I. SIKORSKY MEMORIAL (BDR)

AL-621 (FAA)

BRIDGEPORT, CONNECTICUT



AIRPORT DIAGRAM

16035

BRIDGEPORT, CONNECTICUT

IGOR I. SIKORSKY MEMORIAL (BDR)

15232

# AIRPORT DIAGRAM

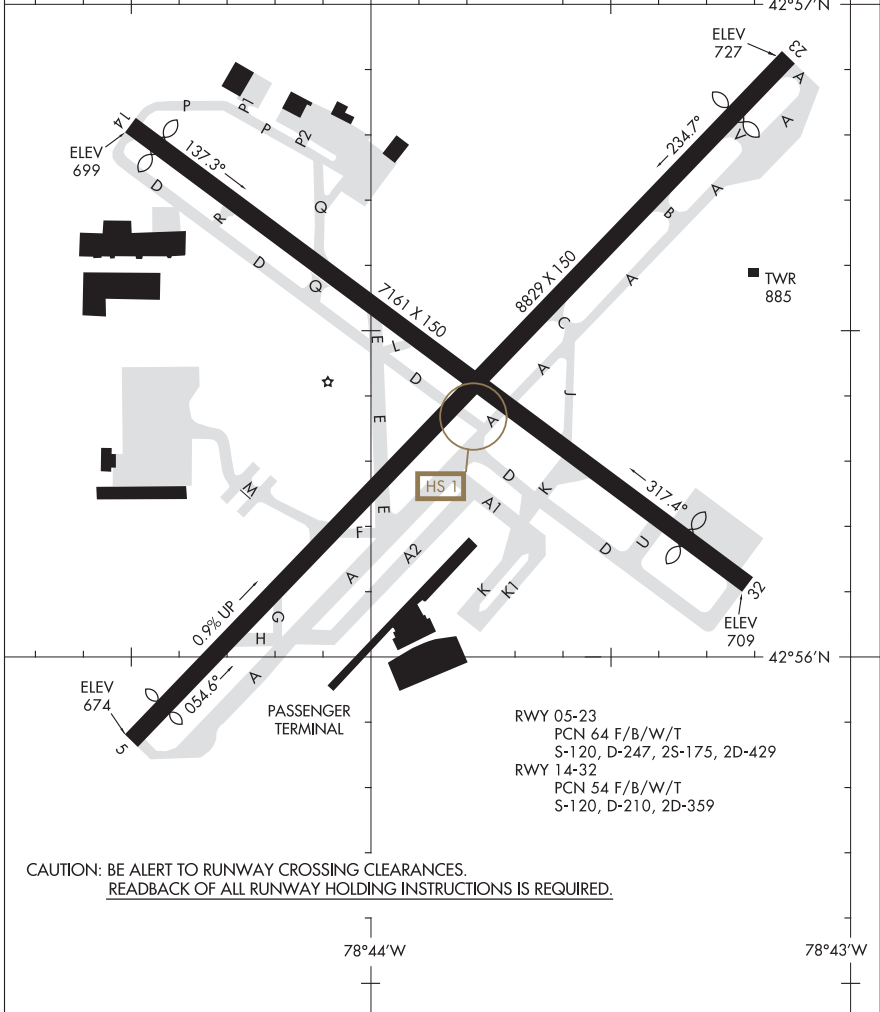
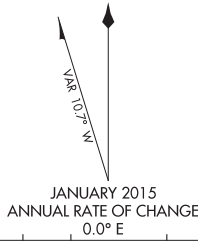
BUFFALO NIAGARA INTL (BUF)  
BUFFALO, NEW YORK

AL-65 (FAA)

ATIS  
 135.35  
 BUFFALO TOWER  
 120.5 257.8  
 GND CON  
 133.2 257.8  
 CLNC DEL  
 124.7 257.8

**D**

FIELD ELEV 727
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CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

RWY 05-23  
 PCN 64 F/B/W/T  
 S-120, D-247, 25-175, 2D-429  
 RWY 14-32  
 PCN 54 F/B/W/T  
 S-120, D-210, 2D-359

# AIRPORT DIAGRAM

15232

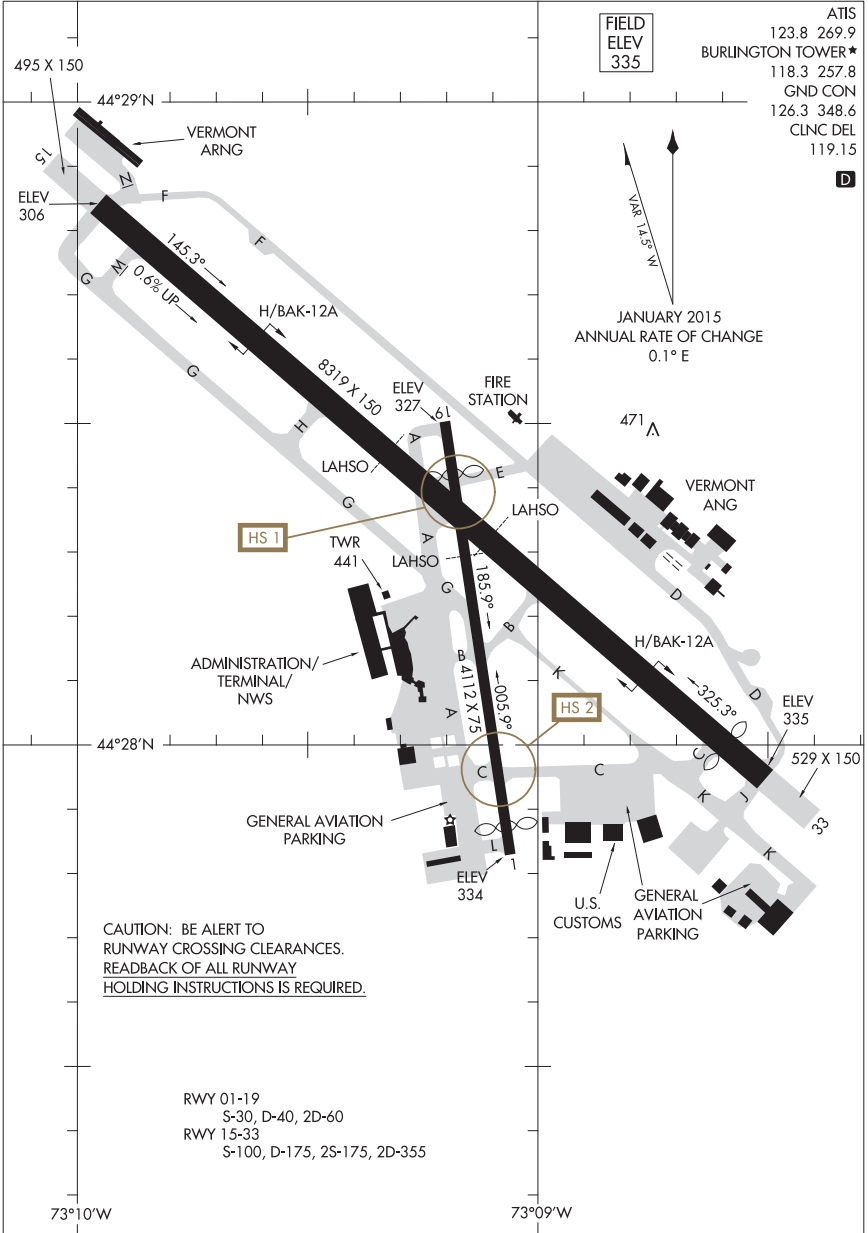
BUFFALO, NEW YORK  
BUFFALO NIAGARA INTL (BUF)

16203

AIRPORT DIAGRAM

AL-70 (FAA)

BURLINGTON INTL (BTV)  
BURLINGTON, VERMONT



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES. READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

RWY 01-19  
S-30, D-40, 2D-60  
RWY 15-33  
S-100, D-175, 2S-175, 2D-355

AIRPORT DIAGRAM

16203

BURLINGTON, VERMONT  
BURLINGTON INTL (BTV)

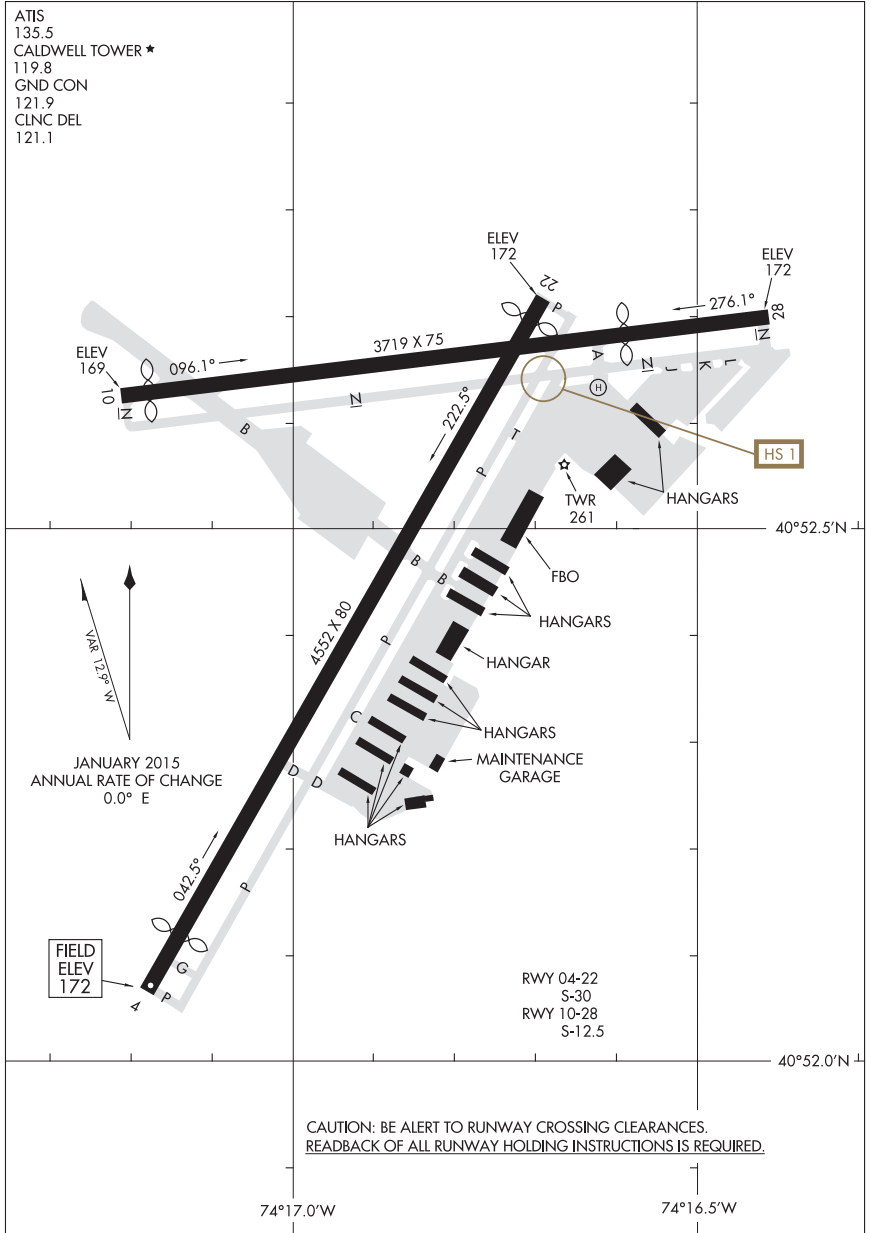


15232

AIRPORT DIAGRAM

AL-5275 (FAA)

ESSEX COUNTY (CDW)  
CALDWELL, NEW JERSEY



AIRPORT DIAGRAM

15232

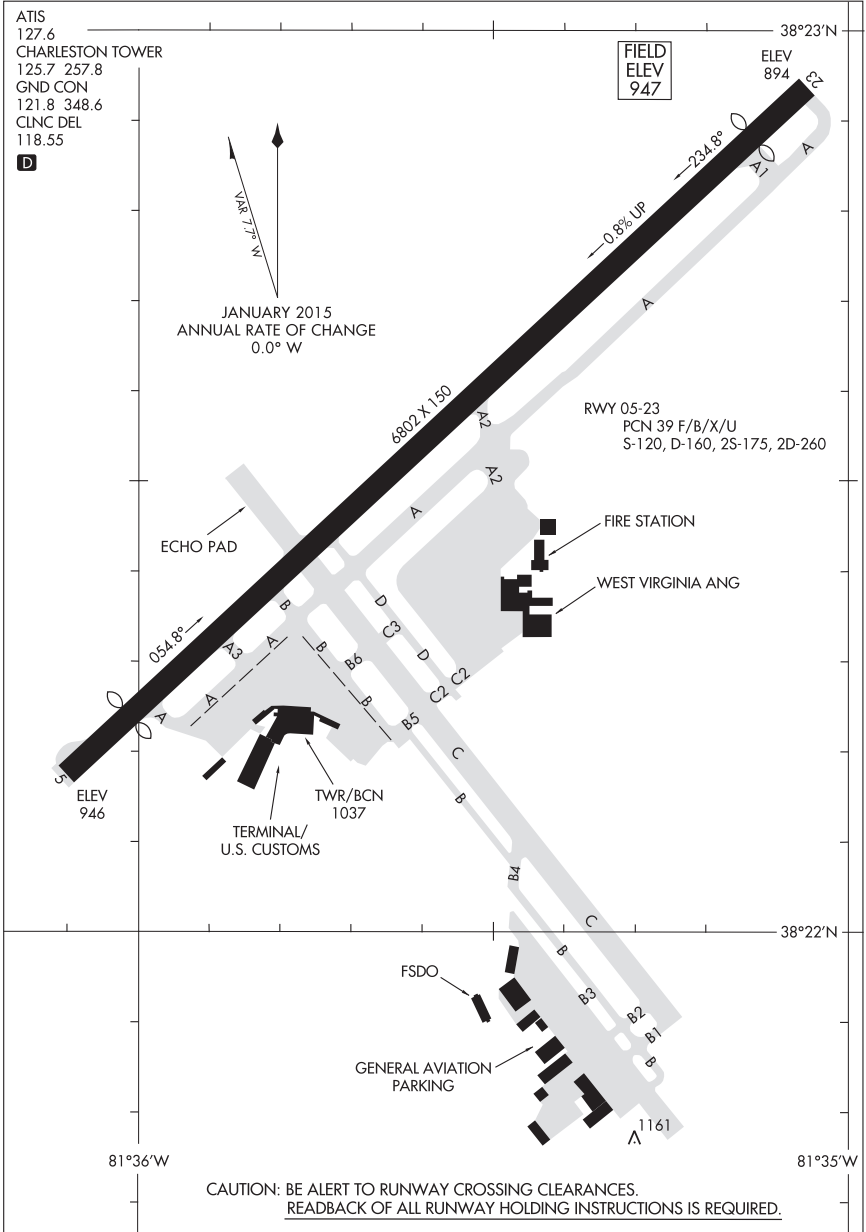
CALDWELL, NEW JERSEY  
ESSEX COUNTY (CDW)

15344

AIRPORT DIAGRAM

AL-852 (FAA)

YEAGER (CRW)  
CHARLESTON, WEST VIRGINIA



AIRPORT DIAGRAM

15344

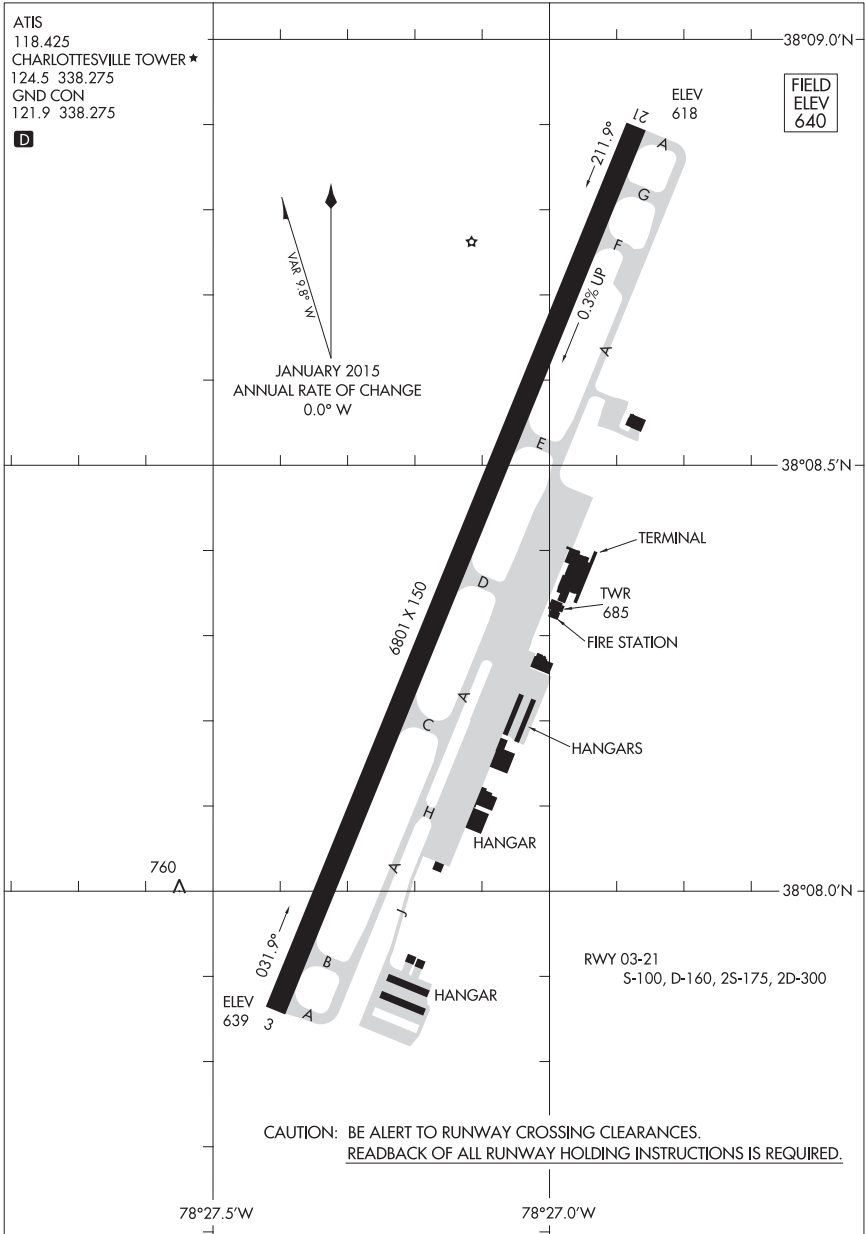
CHARLESTON, WEST VIRGINIA  
YEAGER (CRW)

15064

AIRPORT DIAGRAM

AL-765 (FAA)

CHARLOTTESVILLE-ALBERMARLE (CHO)  
CHARLOTTESVILLE, VIRGINIA



AIRPORT DIAGRAM

15064

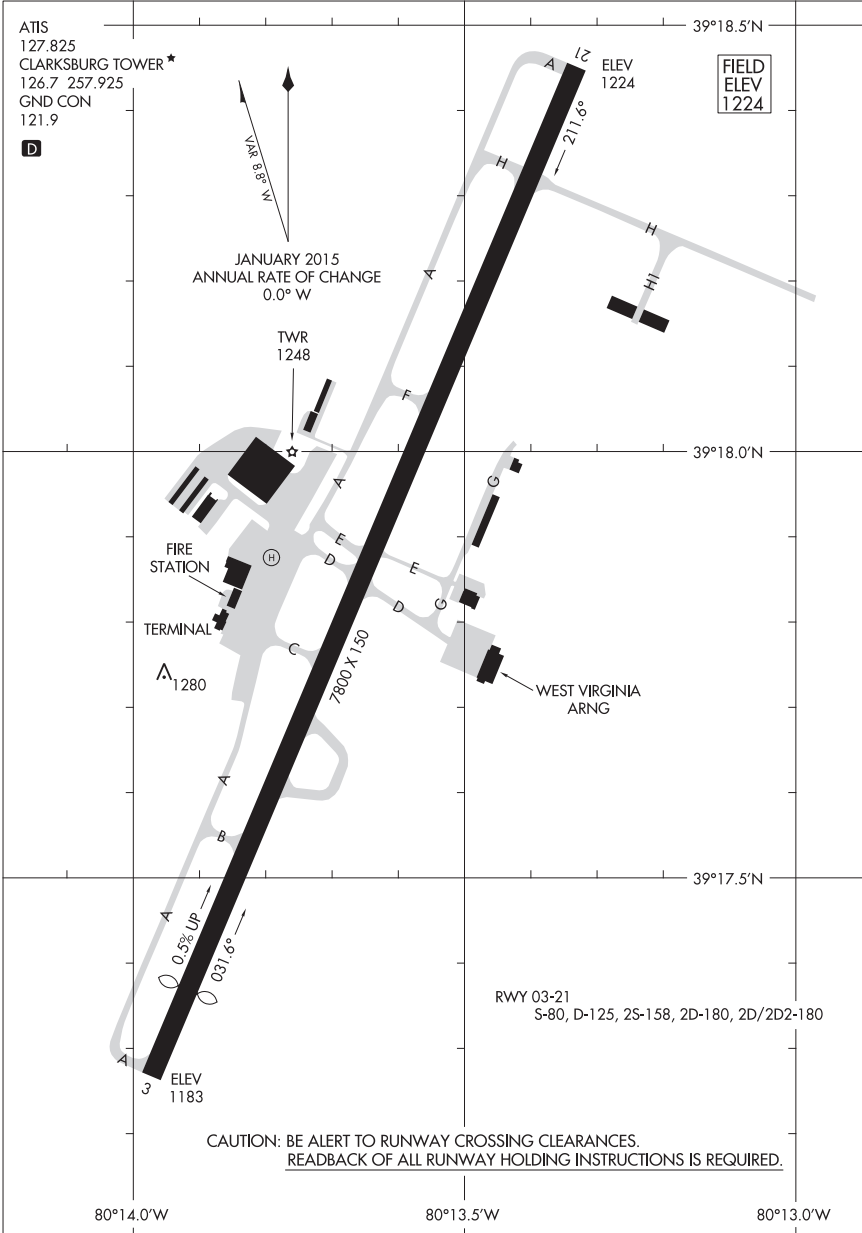
CHARLOTTESVILLE, VIRGINIA  
CHARLOTTESVILLE-ALBERMARLE (CHO)

16147

AIRPORT DIAGRAM

AL-616 (FAA)

NORTH CENTRAL WEST VIRGINIA (CKB)  
CLARKSBURG, WEST VIRGINIA



AIRPORT DIAGRAM

16147

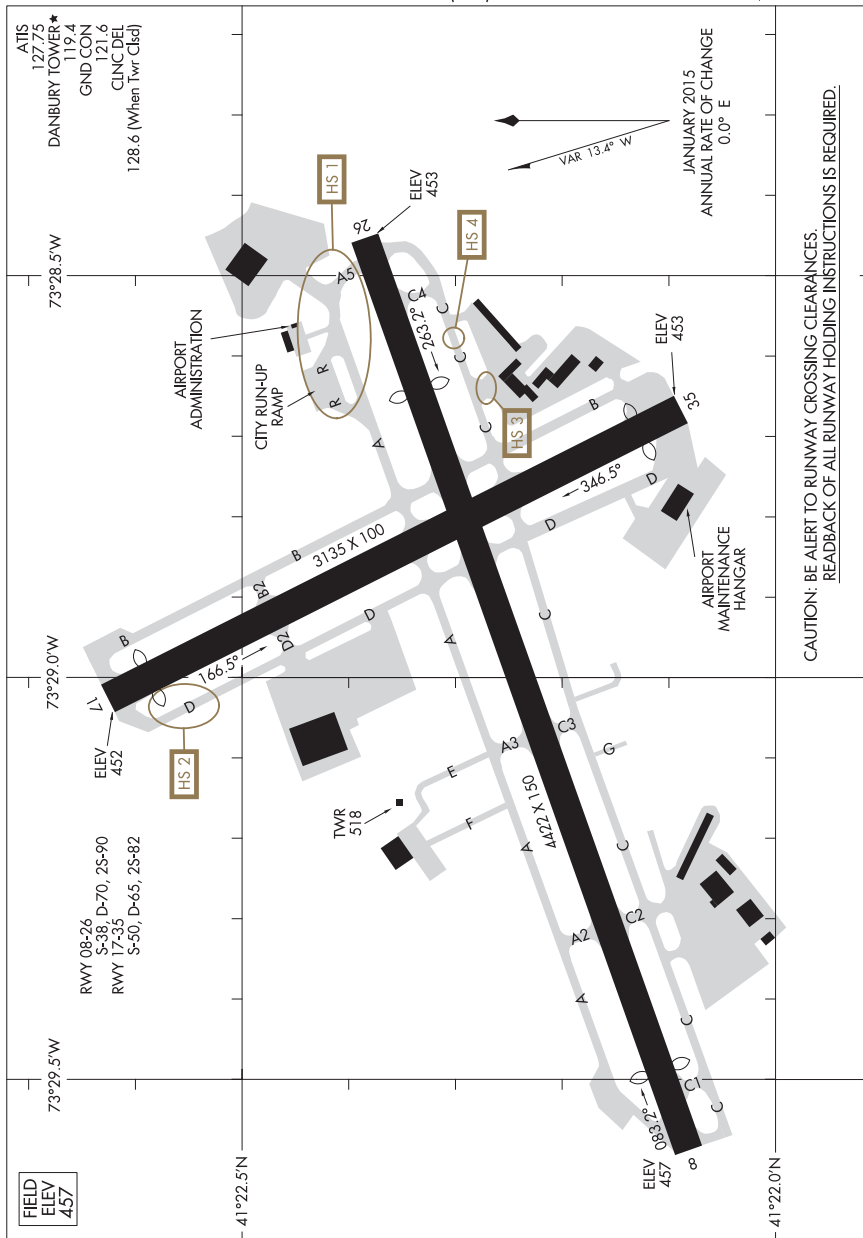
CLARKSBURG, WEST VIRGINIA  
NORTH CENTRAL WEST VIRGINIA (CKB)

16203

# AIRPORT DIAGRAM

AL-5272 (FAA)

DANBURY MUNI (DXR)  
DANBURY, CONNECTICUT



# AIRPORT DIAGRAM

DANBURY, CONNECTICUT  
DANBURY MUNI (DXR)

16203

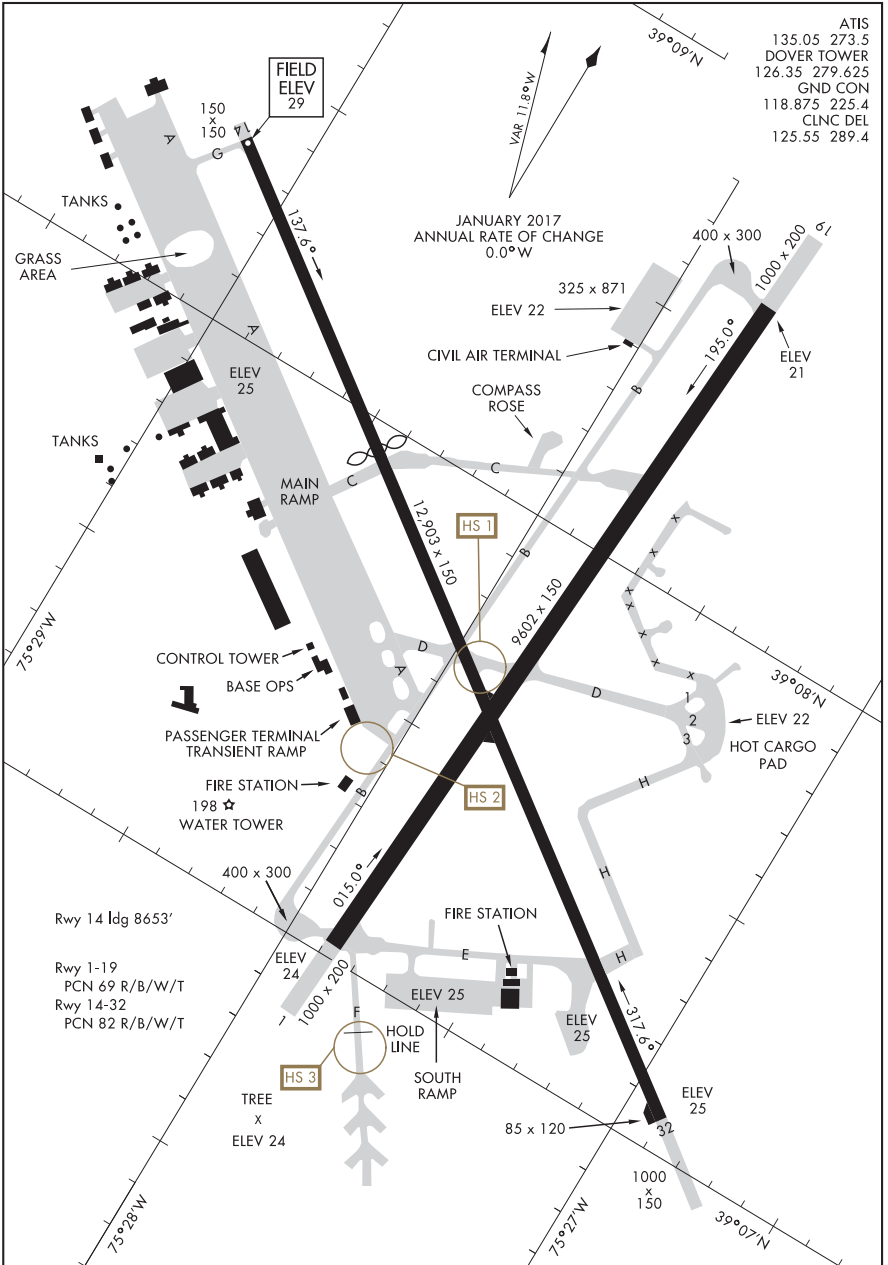
17005

AIRPORT DIAGRAM

AFD-562 [USAF]

DOVER AFB (KDOV)

DOVER, DELAWARE



- ATIS 135.05 273.5
- DOVER TOWER 126.35 279.625
- GND CON 118.875 225.4
- CLNC DEL 125.55 289.4

JANUARY 2017 ANNUAL RATE OF CHANGE 0.0°W

AIRPORT DIAGRAM

DOVER, DELAWARE

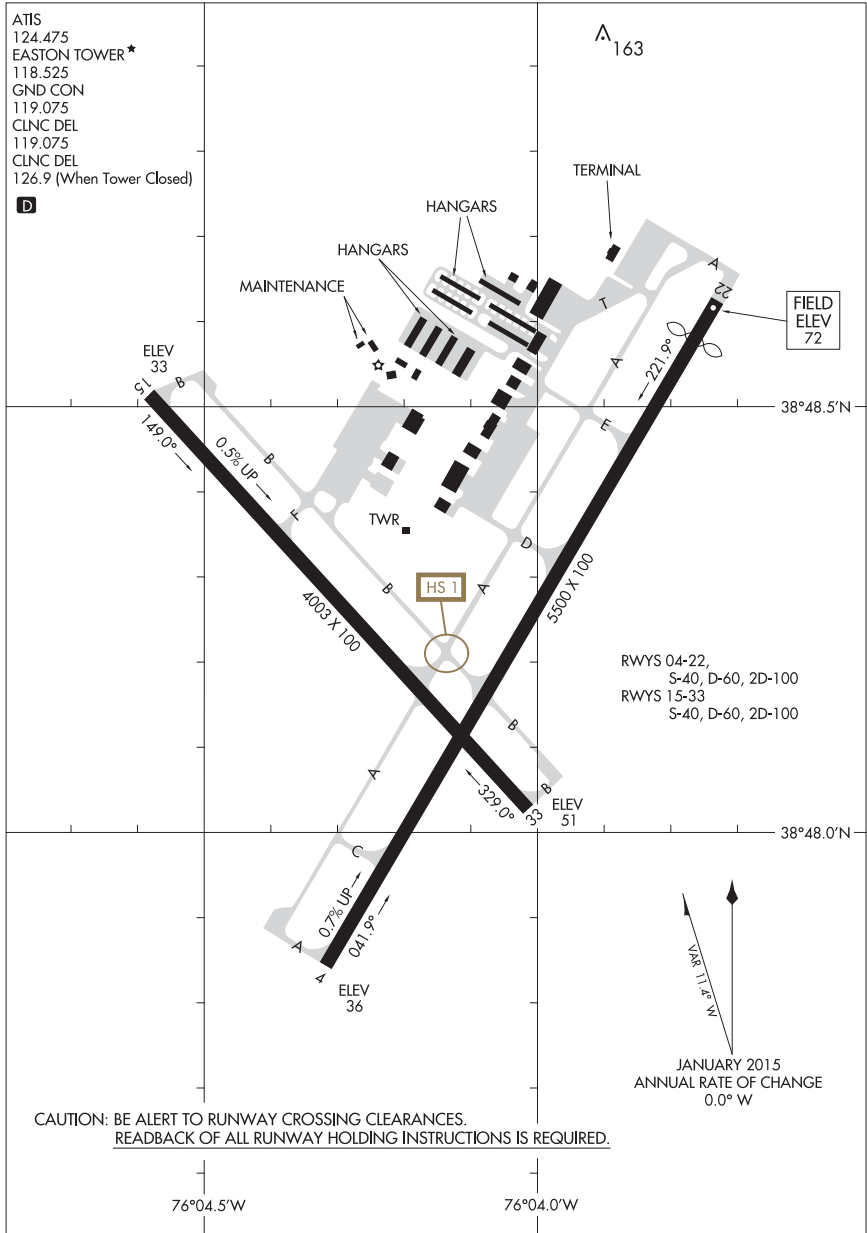
DOVER AFB (KDOV)

15064

AIRPORT DIAGRAM

AL-5596 (FAA)

EASTON/NEWMAM FIELD (ESN)  
EASTON, MARYLAND



AIRPORT DIAGRAM

15064

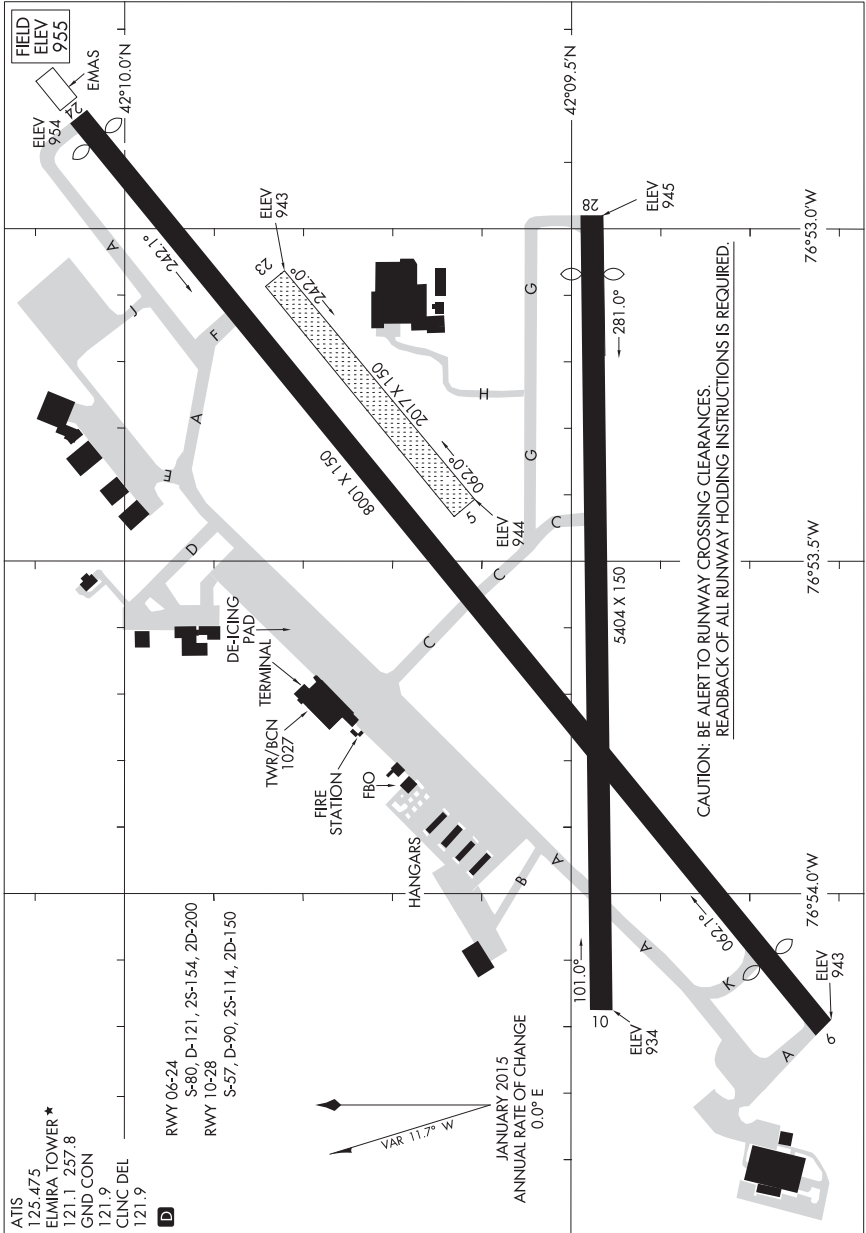
EASTON, MARYLAND  
EASTON/NEWMAM FIELD (ESN)

15064

AIRPORT DIAGRAM

AL-131 (FAA)

ELMIRA/CORNING RGNL (ELM)  
ELMIRA, NEW YORK



AIRPORT DIAGRAM

15064

ELMIRA, NEW YORK  
ELMIRA/CORNING RGNL (ELM)

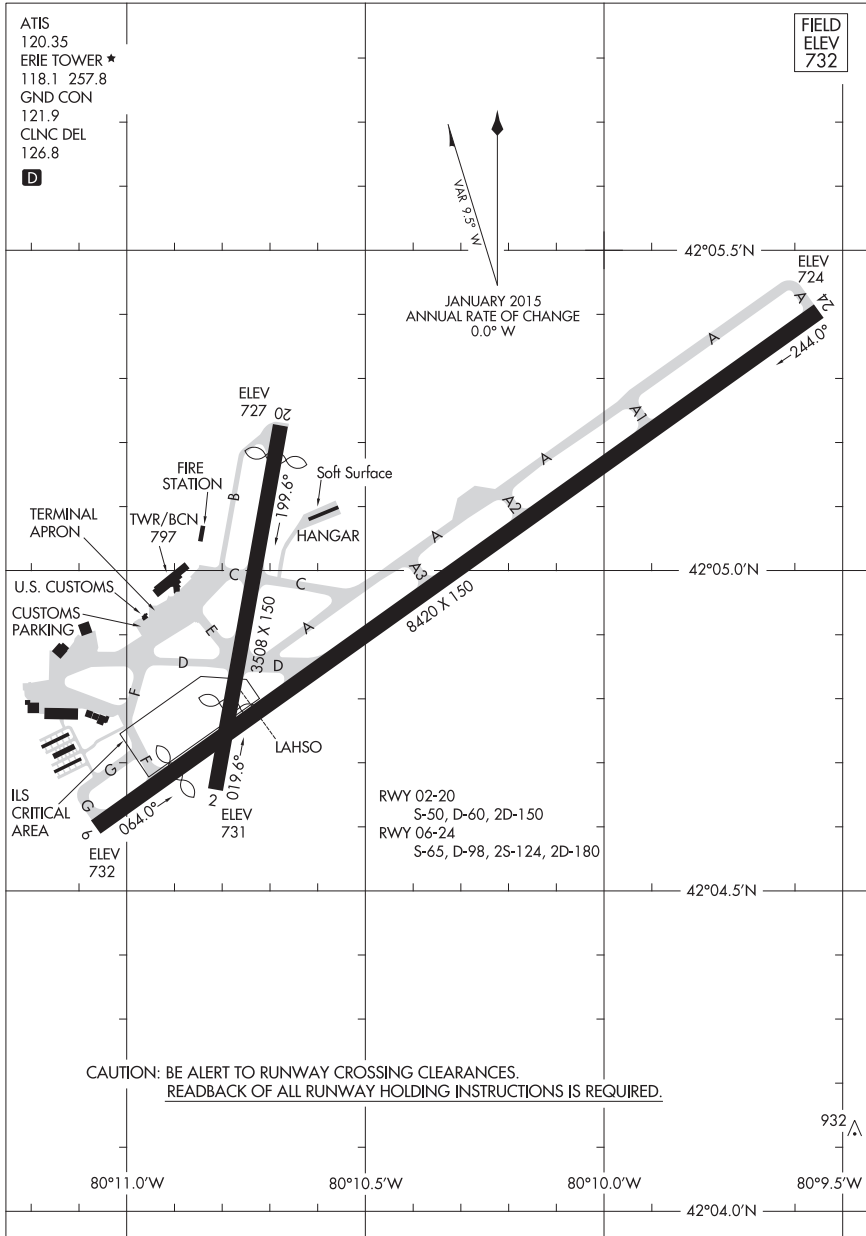


16203

# AIRPORT DIAGRAM

AL-139 (FAA)

ERIE INTL/TOM RIDGE FIELD (E.I.)  
ERIE, PENNSYLVANIA



# AIRPORT DIAGRAM

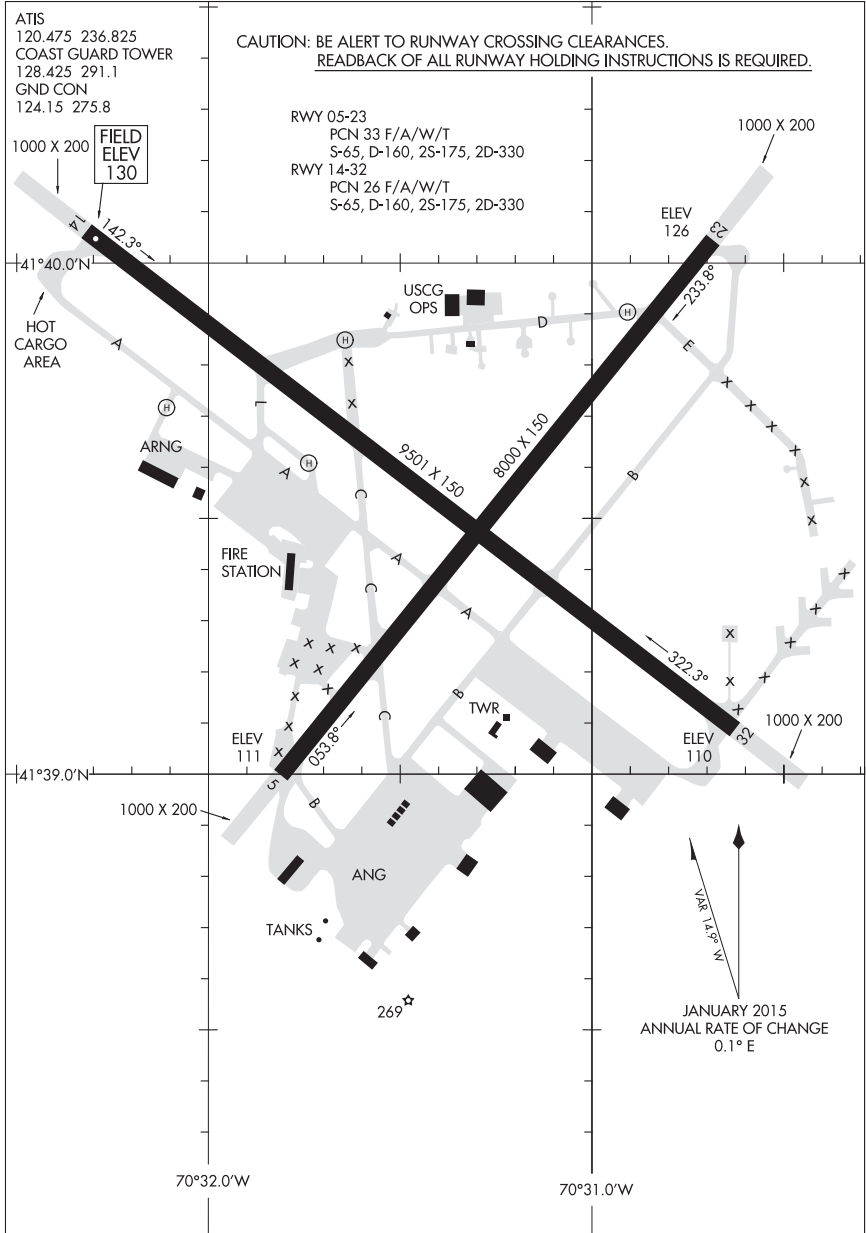
16203

ERIE, PENNSYLVANIA  
ERIE INTL/TOM RIDGE FIELD (E.I.)

15120

# AIRPORT DIAGRAM

CAPE COD COAST GUARD AIR STATION (F'MH)  
AL-10362 (FAA) FALMOUTH, MASSACHUSETTS



# AIRPORT DIAGRAM

15120

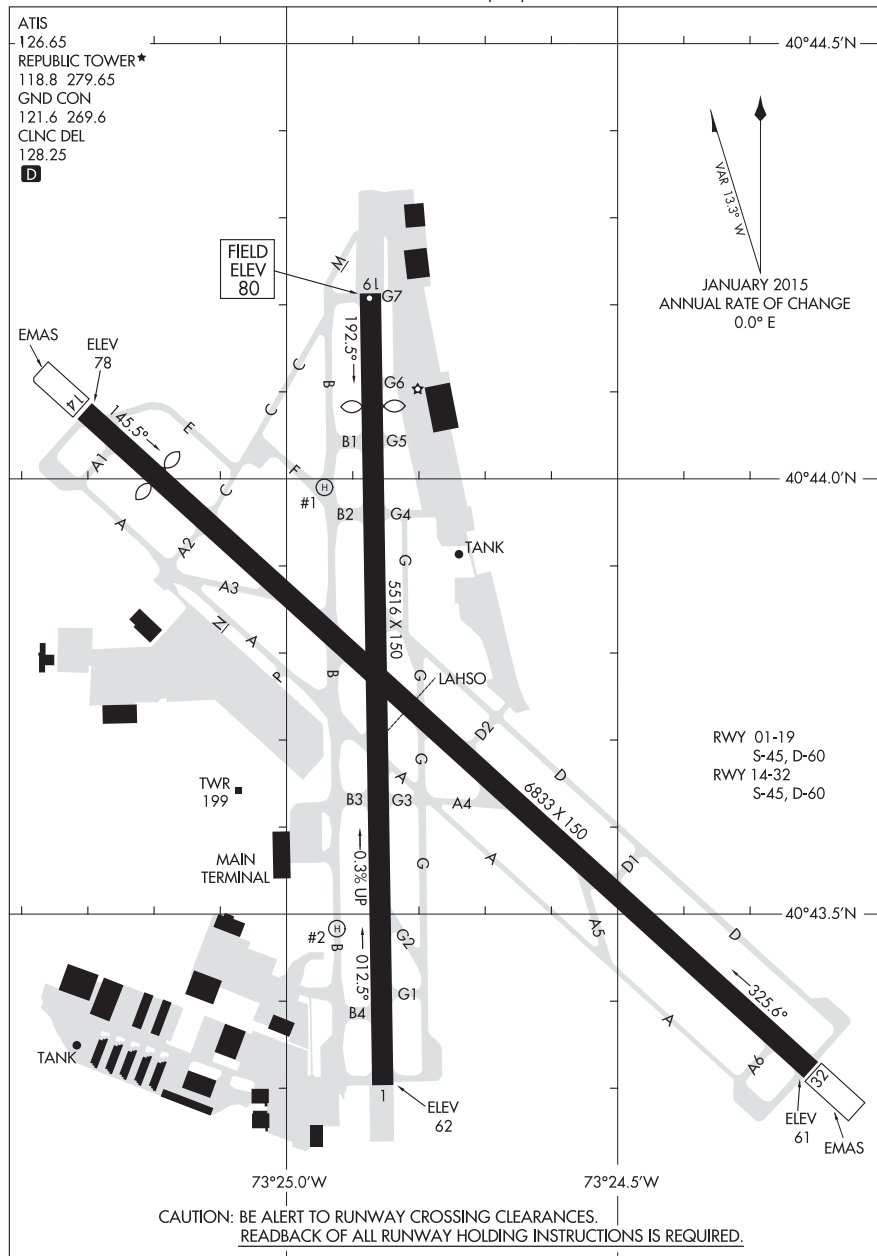
FALMOUTH, MASSACHUSETTS  
CAPE COD COAST GUARD AIR STATION (F'MH)

15288

AIRPORT DIAGRAM

AL-704 (FAA)

REPUBLIC (F'R'G)  
FARMINGDALE, NEW YORK



AIRPORT DIAGRAM

FARMINGDALE, NEW YORK  
REPUBLIC (F'R'G)

15288

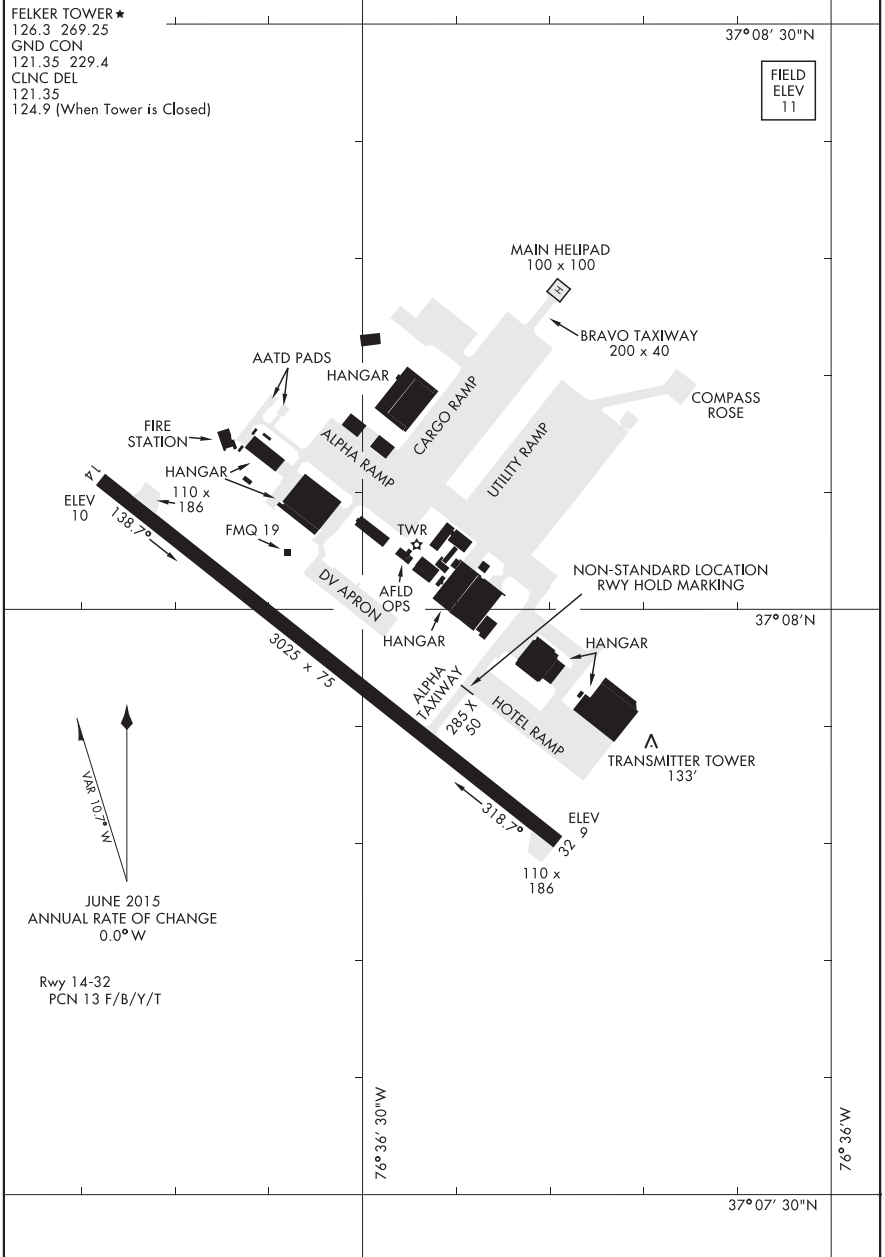
15176

FELKER AAF (KFAF)

AIRPORT DIAGRAM

AFD-5211 [USA]

FORT EUSTIS, VIRGINIA



AIRPORT DIAGRAM

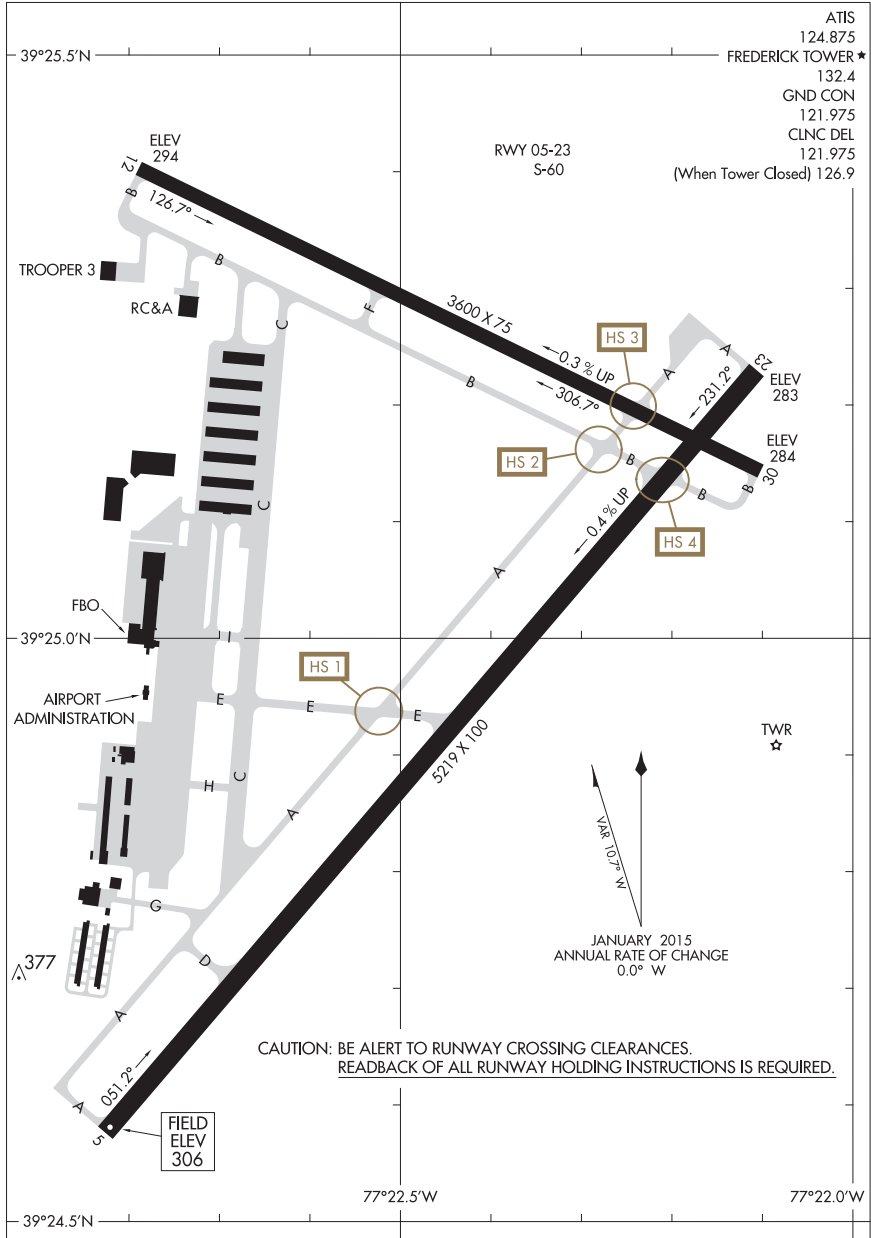
FORT EUSTIS, VIRGINIA  
FELKER AAF (KFAF)

16147

AIRPORT DIAGRAM

AL-5089 (FAA)

FREDERICK MUNI (F'DK)  
FREDERICK, MARYLAND



ATIS 124.875  
 FREDERICK TOWER ★ 132.4  
 GND CON 121.975  
 CLNC DEL 121.975  
 (When Tower Closed) 126.9

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

16147

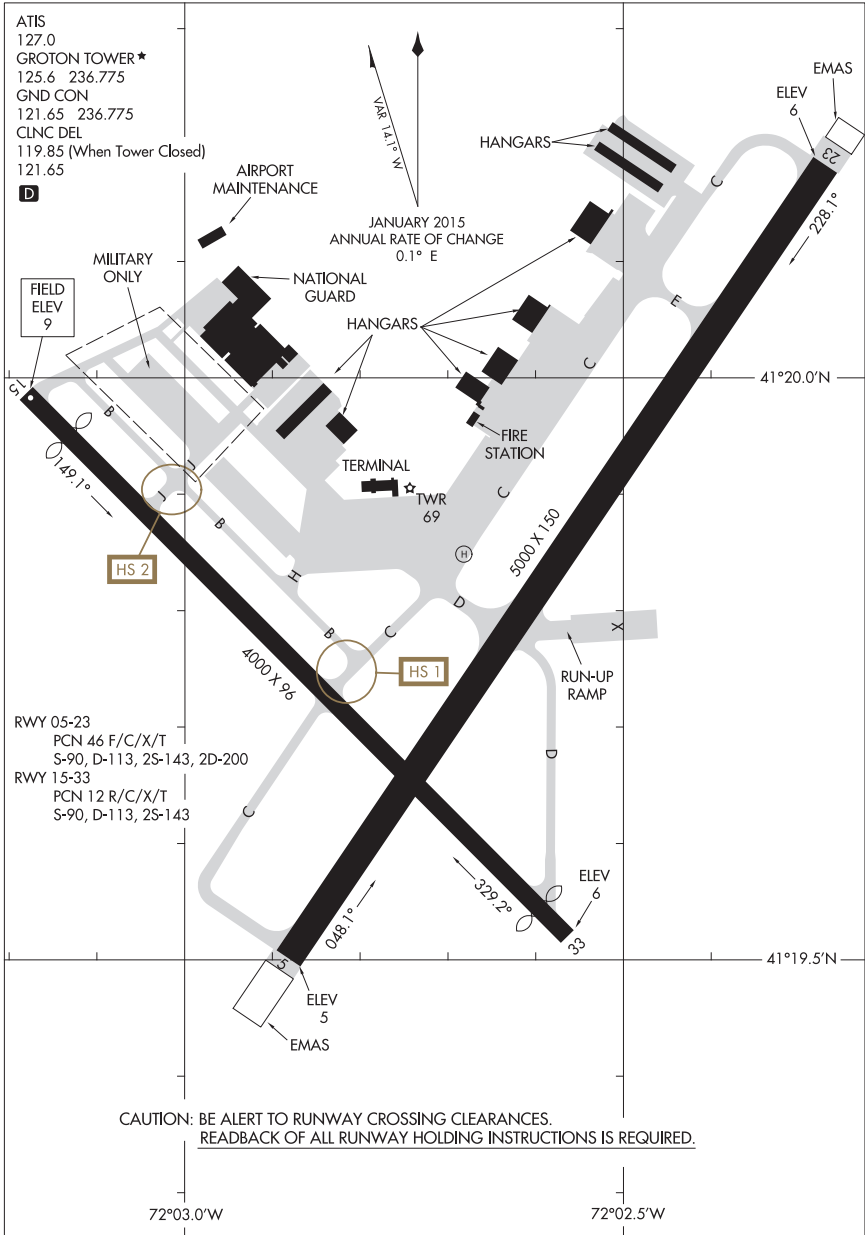
FREDERICK, MARYLAND  
FREDERICK MUNI (F'DK)

17005

AIRPORT DIAGRAM

AL-5049 (FAA)

GROTON-NEW LONDON (GON)  
GROTON (NEW LONDON), CONNECTICUT



AIRPORT DIAGRAM

17005

GROTON (NEW LONDON), CONNECTICUT  
GROTON-NEW LONDON (GON)

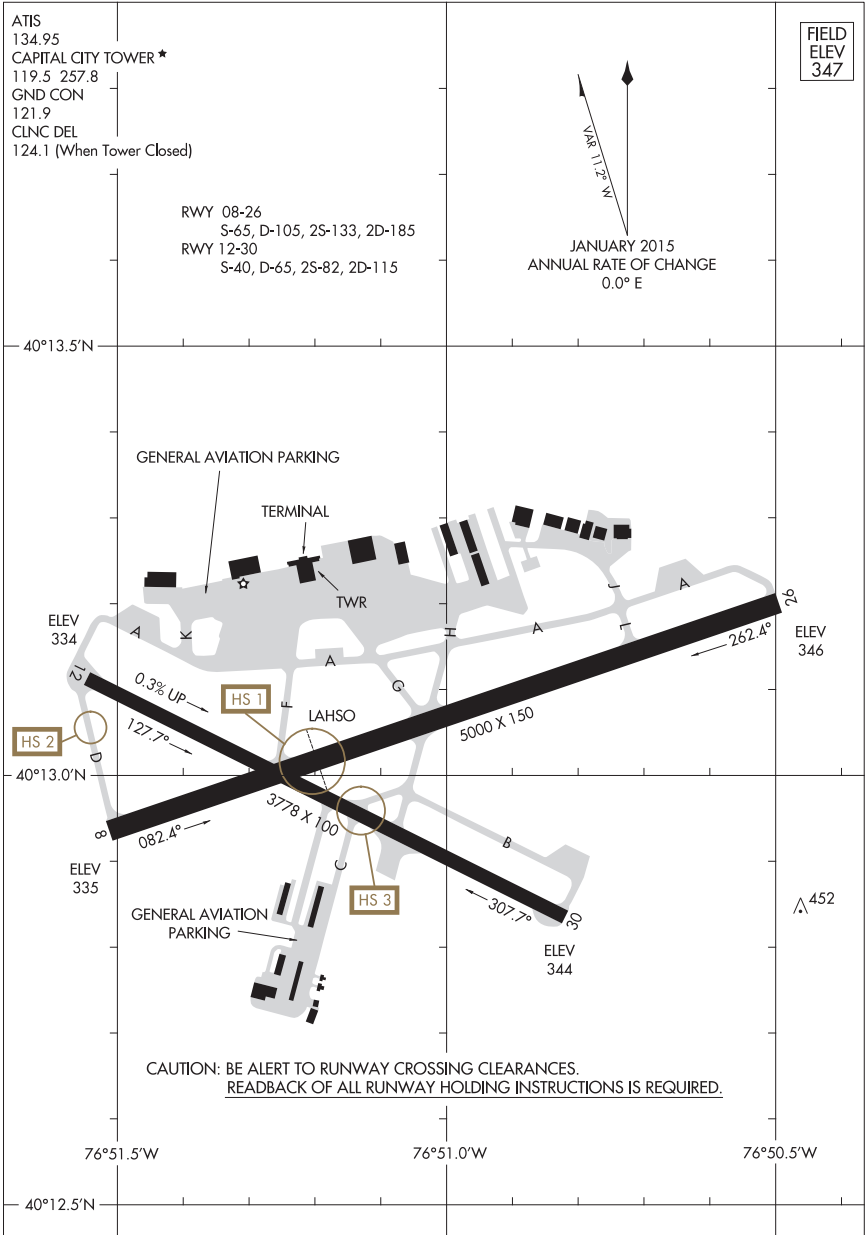


16315

AIRPORT DIAGRAM

AL-187 (FAA)

CAPITAL CITY (CXY)  
HARRISBURG, PENNSYLVANIA



AIRPORT DIAGRAM

HARRISBURG, PENNSYLVANIA  
CAPITAL CITY (CXY)

16315



15064

AIRPORT DIAGRAM

AL-188 (FAA)

HARRISBURG INTL (MDT)  
HARRISBURG, PENNSYLVANIA

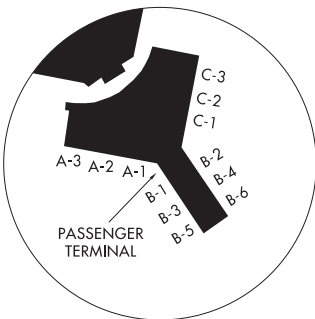
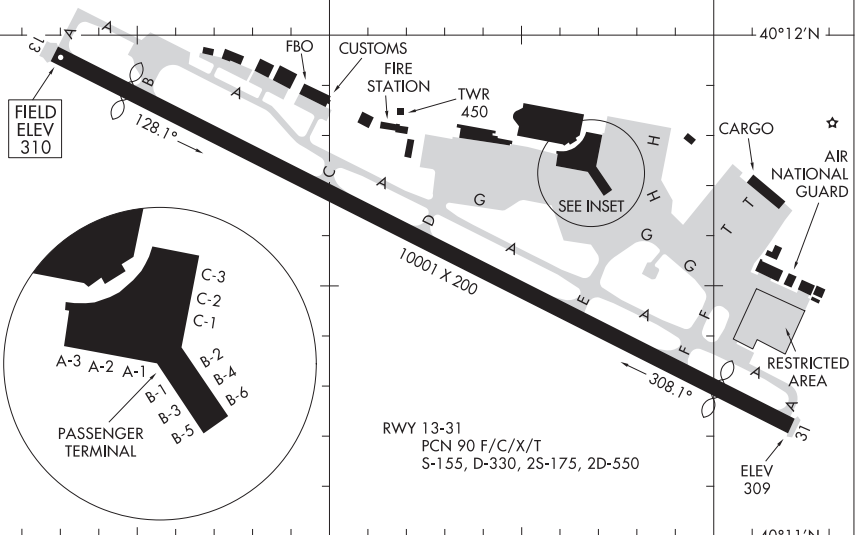
ATIS  
118.8  
HARRISBURG INTL TOWER  
124.8 269.35  
GND CON  
121.7 348.6

D

508  $\Delta$



JANUARY 2015  
ANNUAL RATE OF CHANGE  
0.0° E



RWY 13-31  
PCN 90 F/C/X/T  
S-155, D-330, 2S-175, 2D-550

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

76°46'W

76°45'W

AIRPORT DIAGRAM

15064

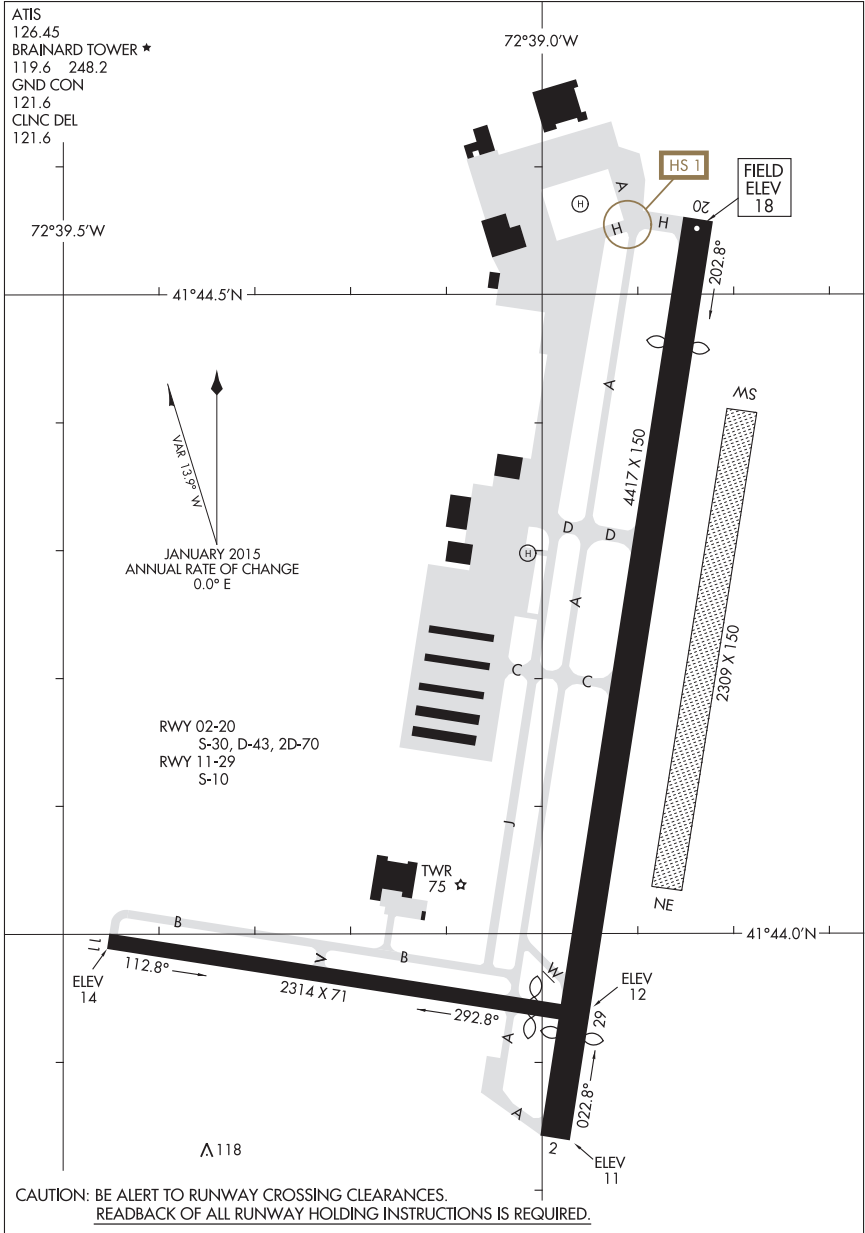
HARRISBURG, PENNSYLVANIA  
HARRISBURG INTL (MDT)

15232

AIRPORT DIAGRAM

AL-189 (FAA)

HARTFORD-BRAINARD (HF'D)  
HARTFORD, CONNECTICUT



AIRPORT DIAGRAM

15232

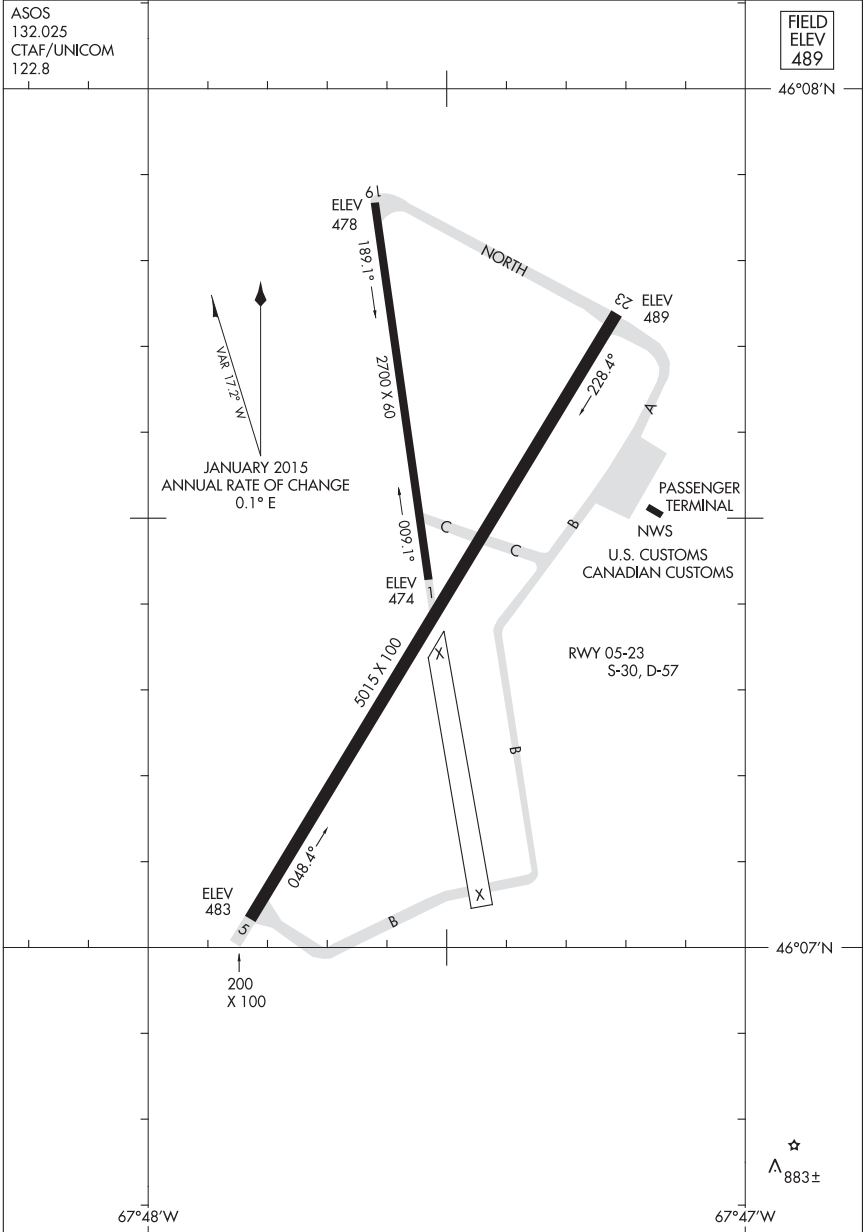
HARTFORD, CONNECTICUT  
HARTFORD-BRAINARD (HF'D)

16035

AIRPORT DIAGRAM

AL-196 (FAA)

HOULTON INTL (HUL)  
HOULTON, MAINE



AIRPORT DIAGRAM

16035

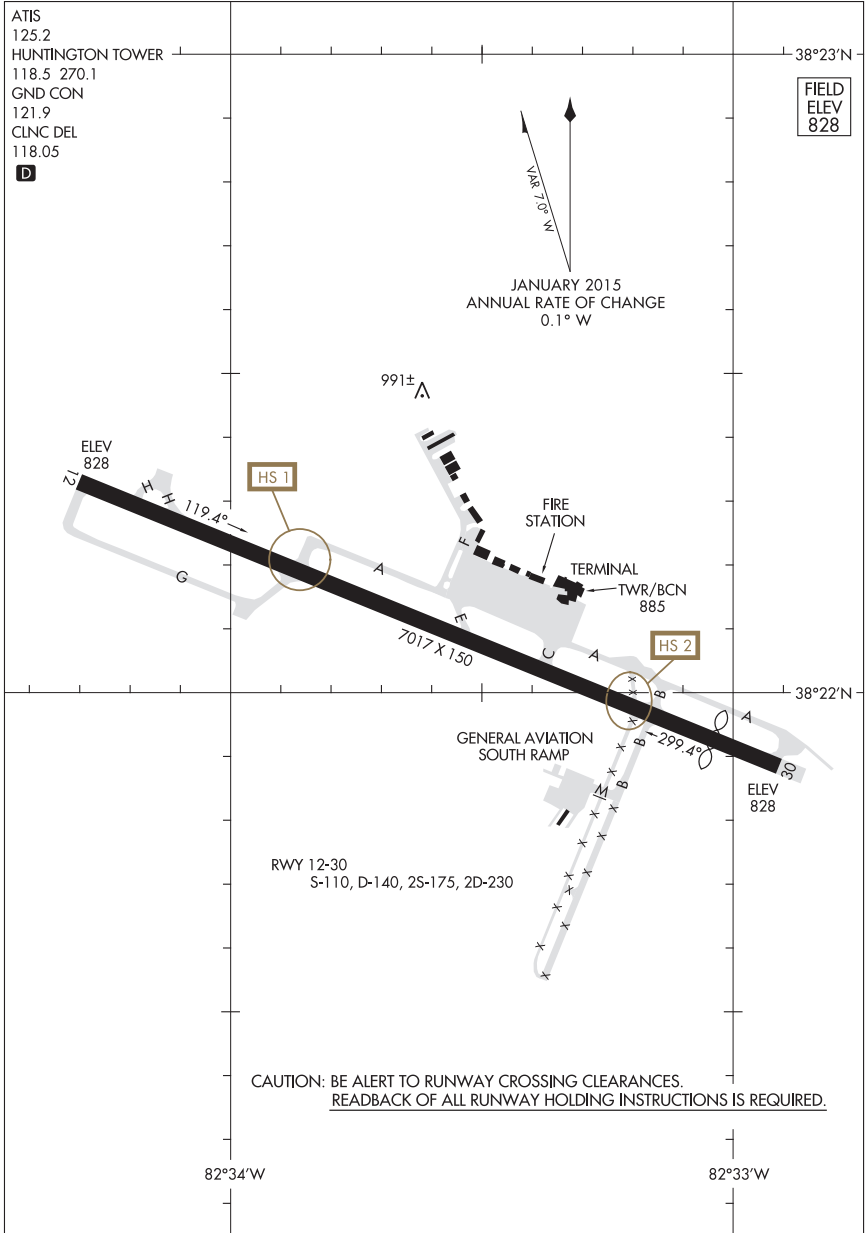
HOULTON, MAINE  
HOULTON INTL (HUL)

15232

AIRPORT DIAGRAM

AL-532 (FAA)

TRI-STATE/MILTON J FERGUSON FIELD (HTS)  
HUNTINGTON, WEST VIRGINIA



AIRPORT DIAGRAM

15232

HUNTINGTON, WEST VIRGINIA  
TRI-STATE/MILTON J FERGUSON FIELD (HTS)

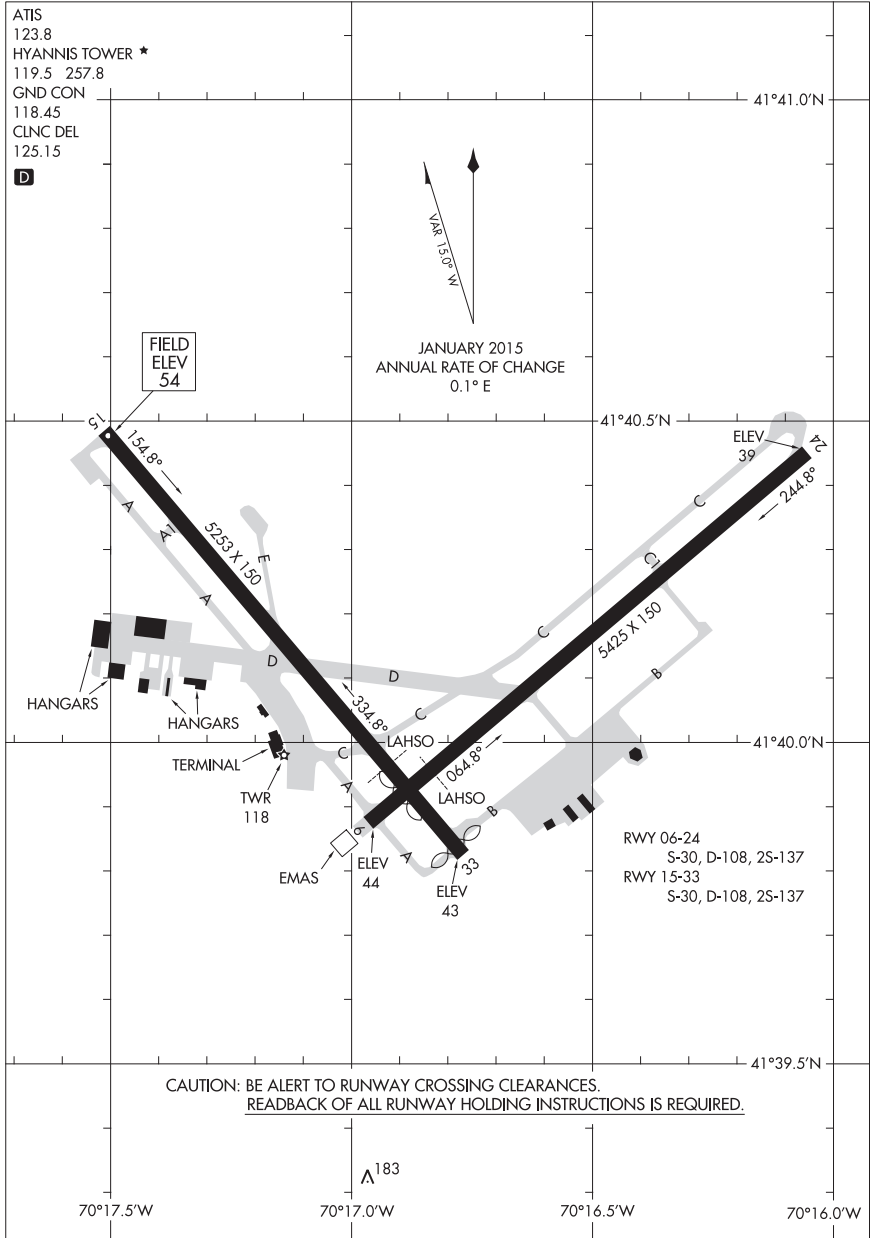
16147

BARNSTABLE MUNI-BOARDMAN/POLANDO FIELD (HYA)

AL-675 (FAA)

HYANNIS, MASSACHUSETTS

AIRPORT DIAGRAM



AIRPORT DIAGRAM

HYANNIS, MASSACHUSETTS

BARNSTABLE MUNI-BOARDMAN/POLANDO FIELD (HYA)

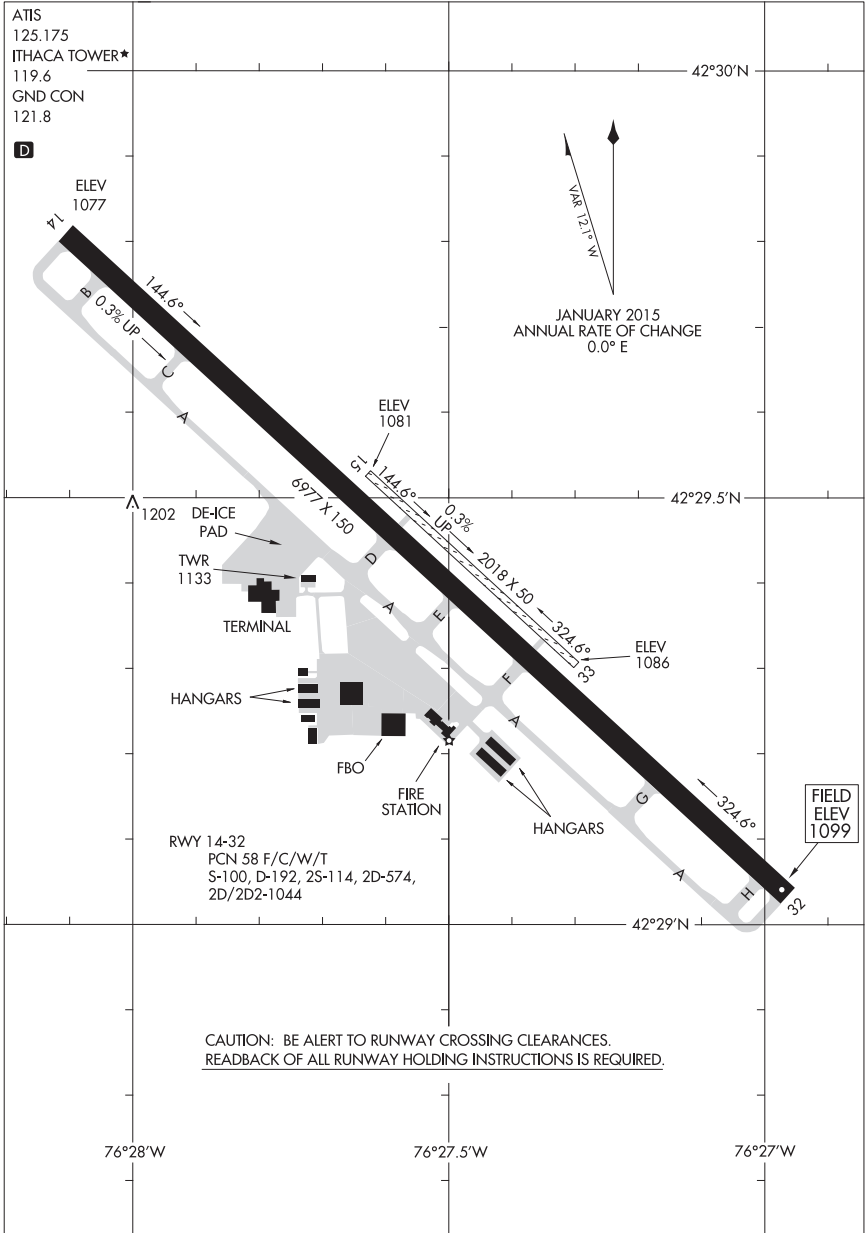
16147

15064

AIRPORT DIAGRAM

AL-779 (FAA)

ITHACA TOMPKINS RGNL (ITH)  
ITHACA, NEW YORK



AIRPORT DIAGRAM

15064

ITHACA, NEW YORK  
ITHACA TOMPKINS RGNL (ITH)

17005

AIRPORT DIAGRAM

AL-731 (FAA)

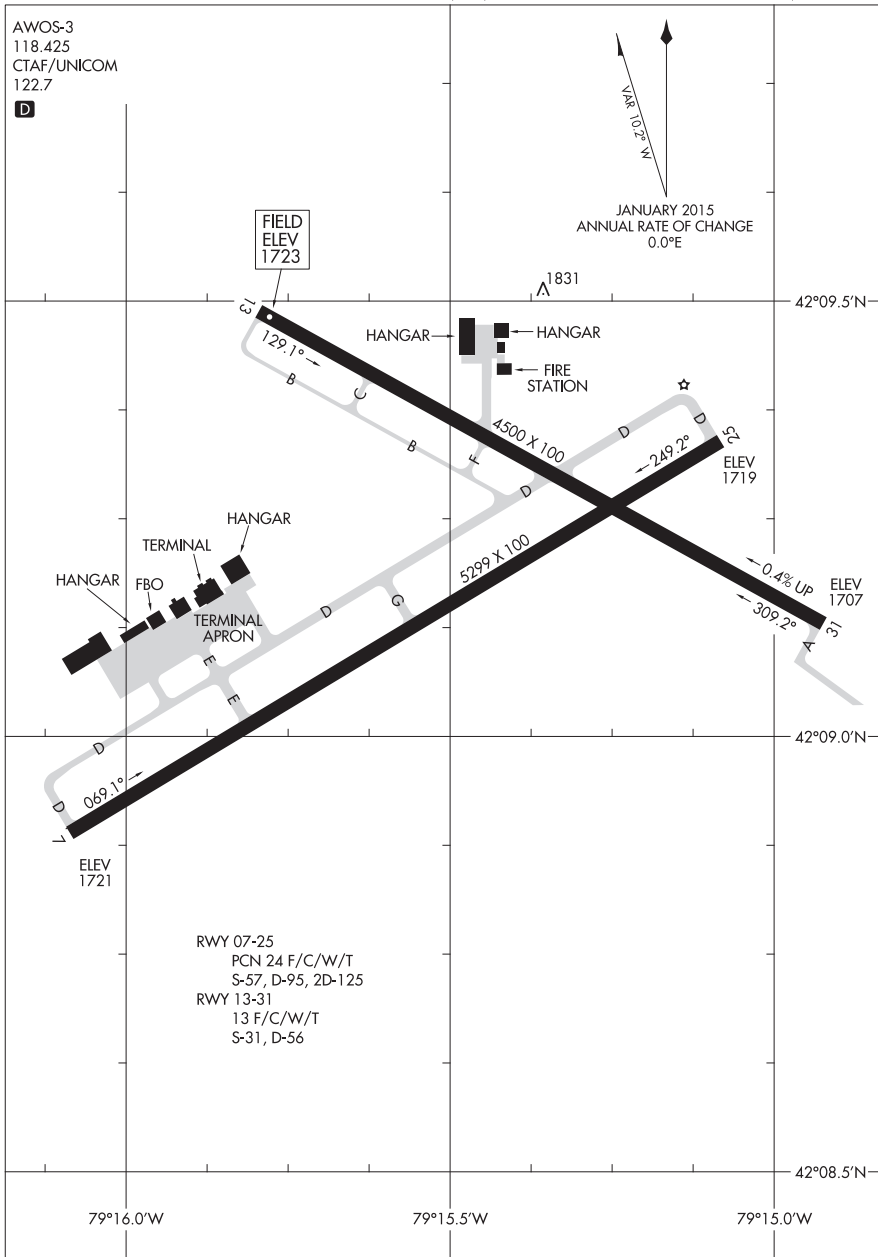
CHAUTAUGUA COUNTY (JHW)

JAMESTOWN, NEW YORK

AWOS-3  
118.425  
CTAF/UNICOM  
122.7

D

VAR 102° W  
JANUARY 2015  
ANNUAL RATE OF CHANGE  
0.0°E



RWY 07-25  
PCN 24 F/C/W/T  
S-57, D-95, 2D-125  
RWY 13-31  
13 F/C/W/T  
S-31, D-56

AIRPORT DIAGRAM

17005

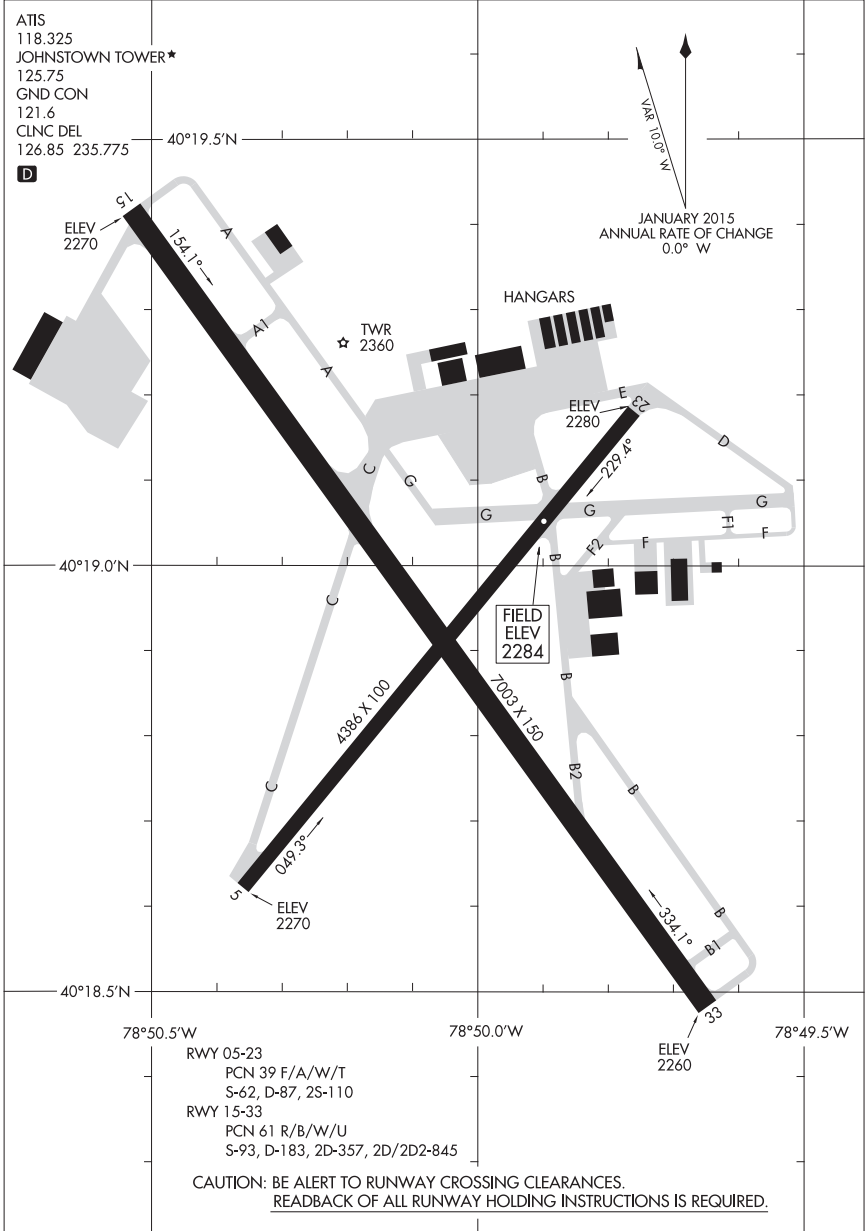
JAMESTOWN, NEW YORK

CHAUTAUGUA COUNTY (JHW)

15064

AIRPORT DIAGRAM

JOHN MURTHA JOHNSTOWN-CAMBRIA COUNTY (JST)  
AL-898 (FAA) JOHNSTOWN, PENNSYLVANIA



AIRPORT DIAGRAM

15064

JOHNSTOWN, PENNSYLVANIA  
JOHN MURTHA JOHNSTOWN-CAMBRIA COUNTY (JST)



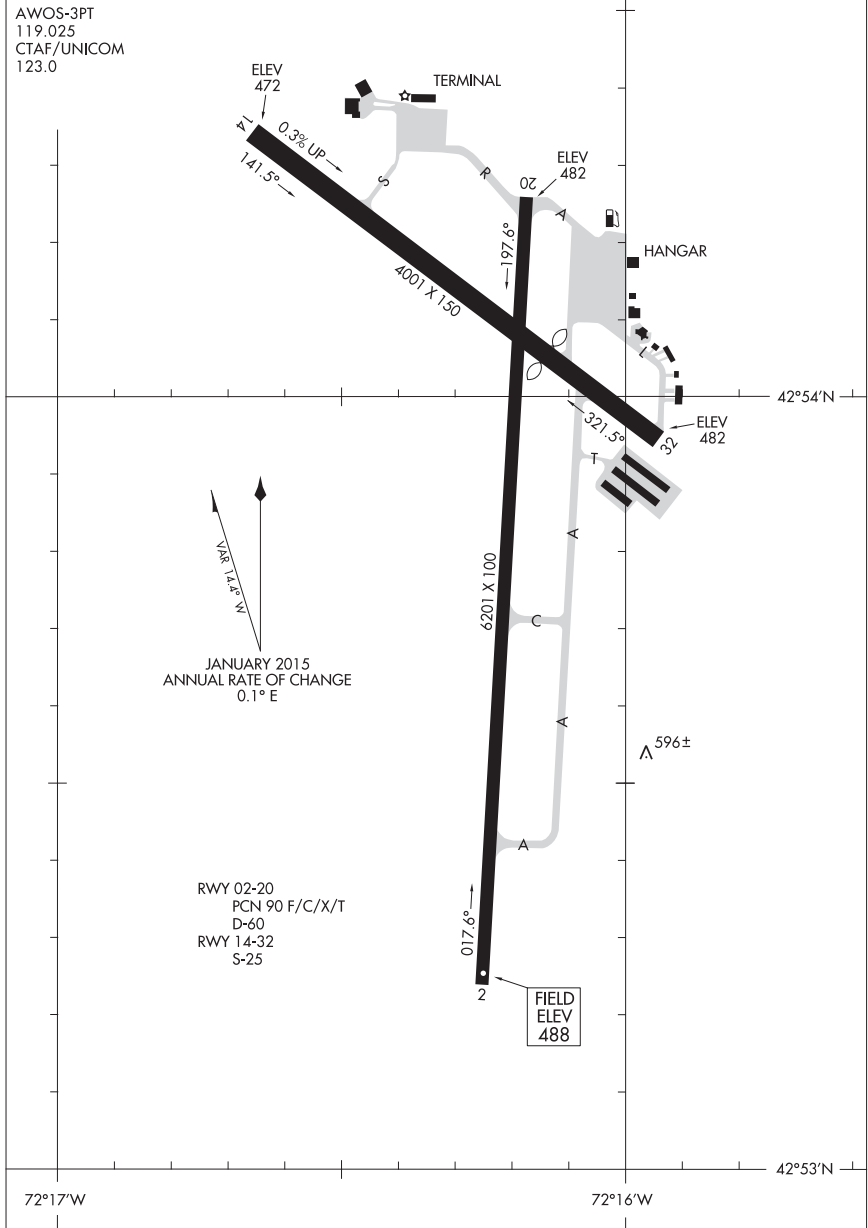


16315

AIRPORT DIAGRAM

AL-868 (FAA)

DILLANT-HOPKINS (EEN)  
KEENE, NEW HAMPSHIRE



AIRPORT DIAGRAM

16315

KEENE, NEW HAMPSHIRE  
DILLANT-HOPKINS (EEN)

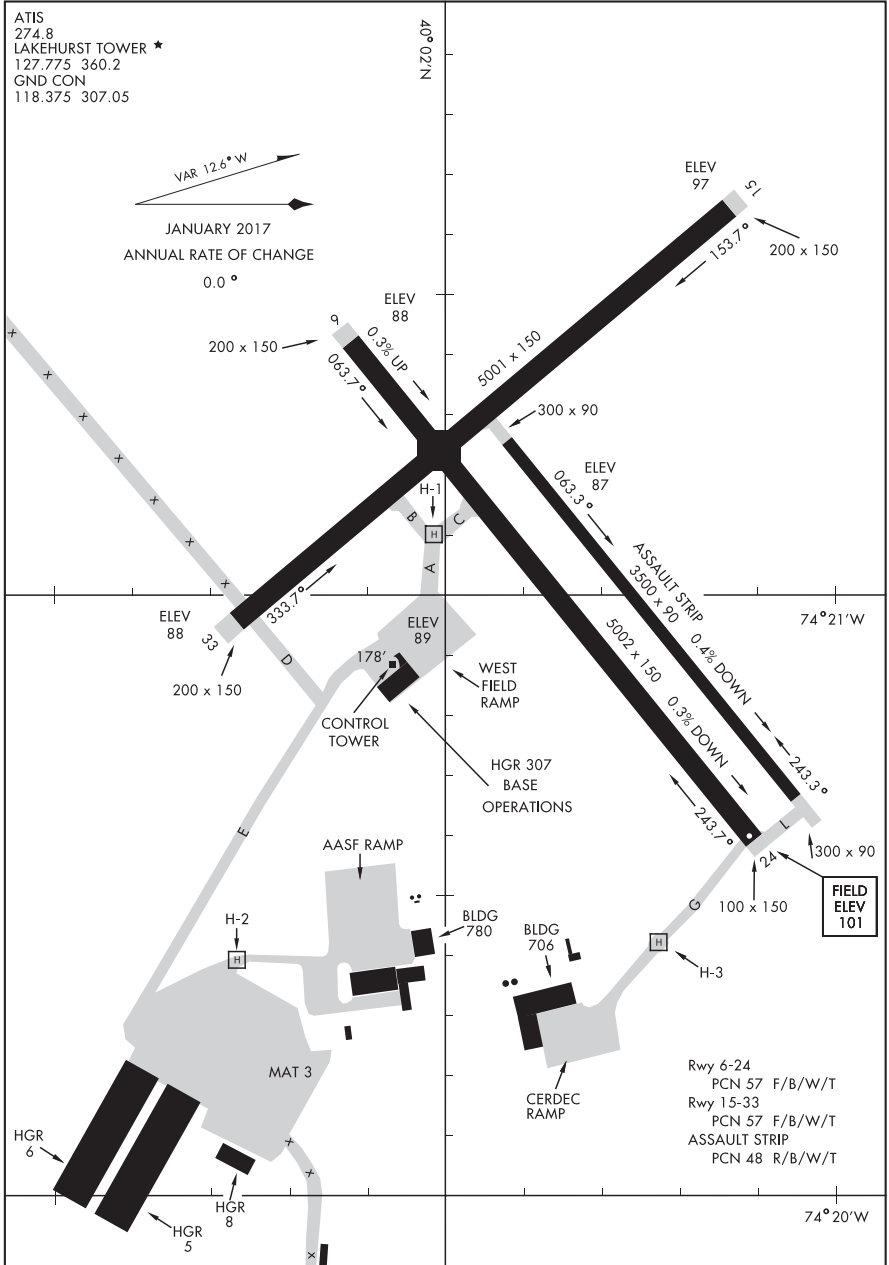
17005

LAKEHURST MAXFIELD FLD, (JOINT BASE MC GUIRE DIX LAKEHURST) (KNEL)

# AIRPORT DIAGRAM

AFD-223 [USN]

LAKEHURST, NEW JERSEY



# AIRPORT DIAGRAM

LAKEHURST, NEW JERSEY

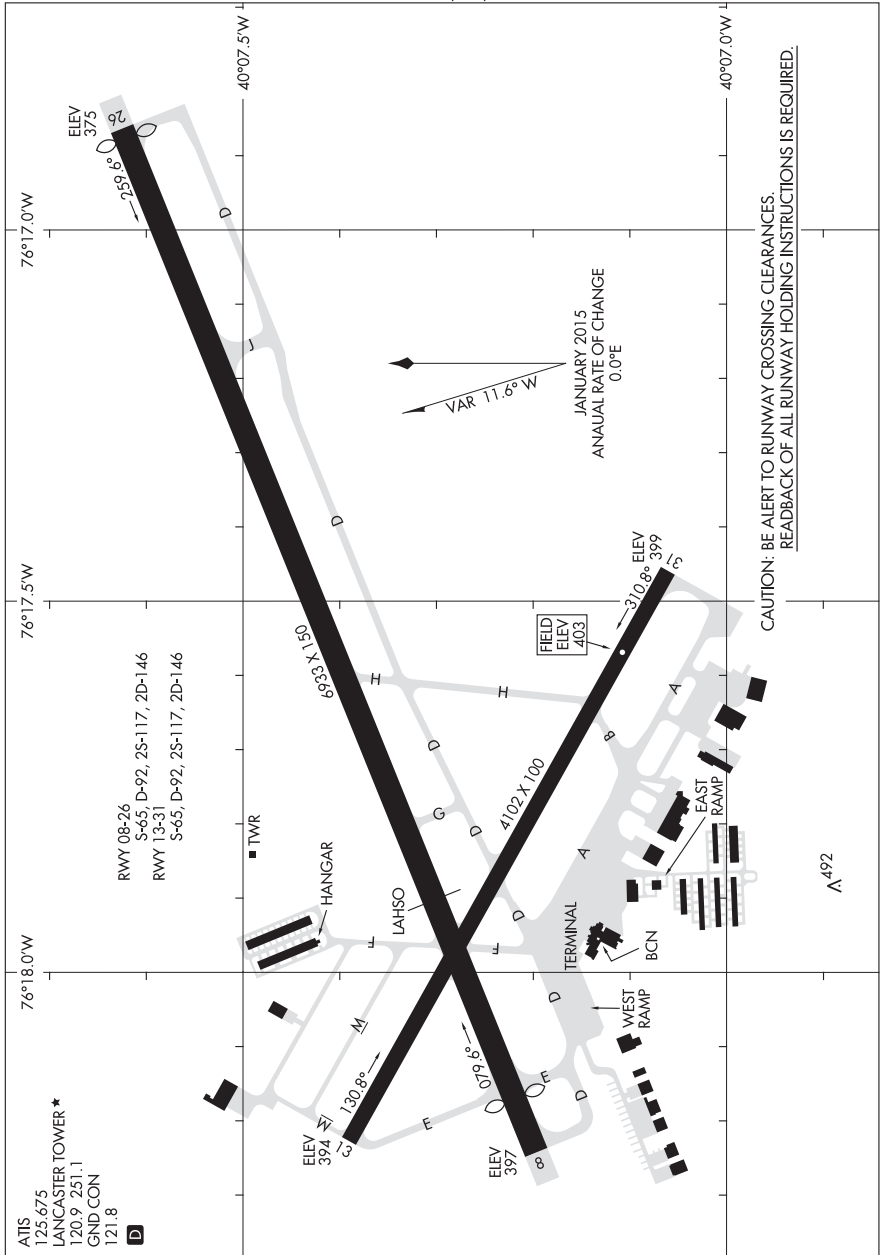
LAKEHURST MAXFIELD FLD, (JOINT BASE MC GUIRE DIX LAKEHURST) (KNEL)

15232

AIRPORT DIAGRAM

AL-927 (FAA)

LANCASTER (LNS)  
LANCASTER, PENNSYLVANIA



AIRPORT DIAGRAM

LANCASTER, PENNSYLVANIA  
LANCASTER (LNS)

15232

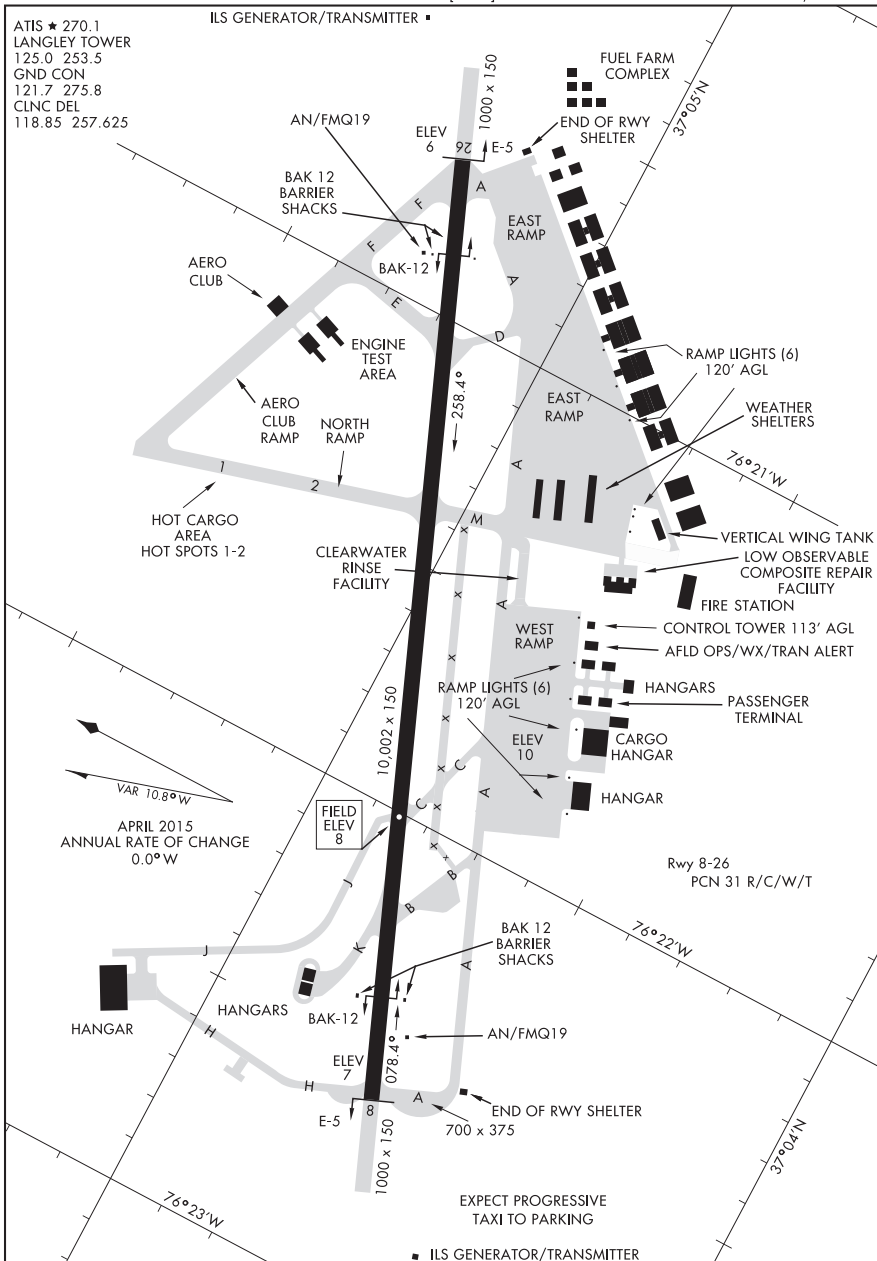
15120

AIRPORT DIAGRAM

AFD-185 [USAF]

LANGLEY AFB (KLF1)

HAMPTON, VIRGINIA



AIRPORT DIAGRAM

HAMPTON, VIRGINIA

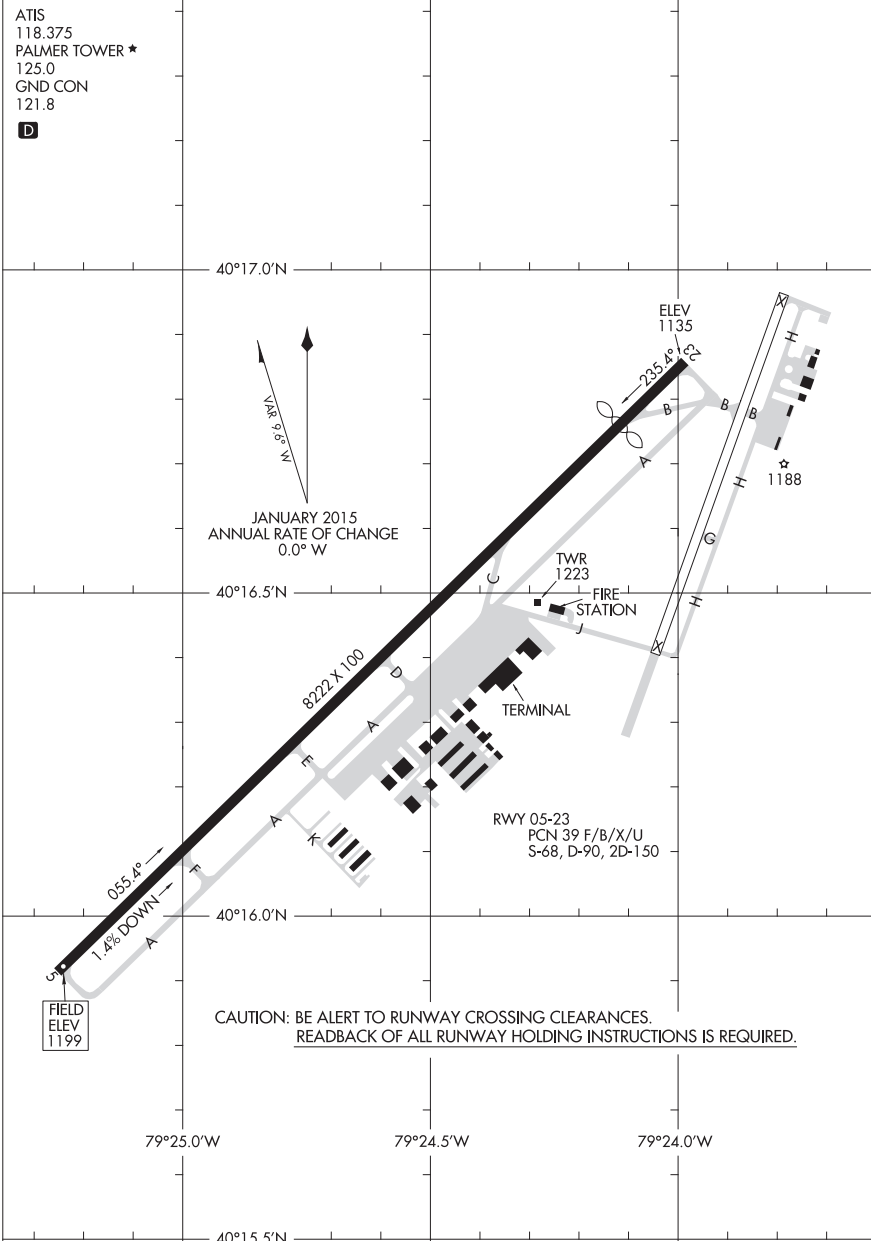
LANGLEY AFB (KLF1)

16147

AIRPORT DIAGRAM

AL-5125 (FAA)

ARNOLD PALMER RGNL (L,B,E)  
LATROBE, PENNSYLVANIA



AIRPORT DIAGRAM

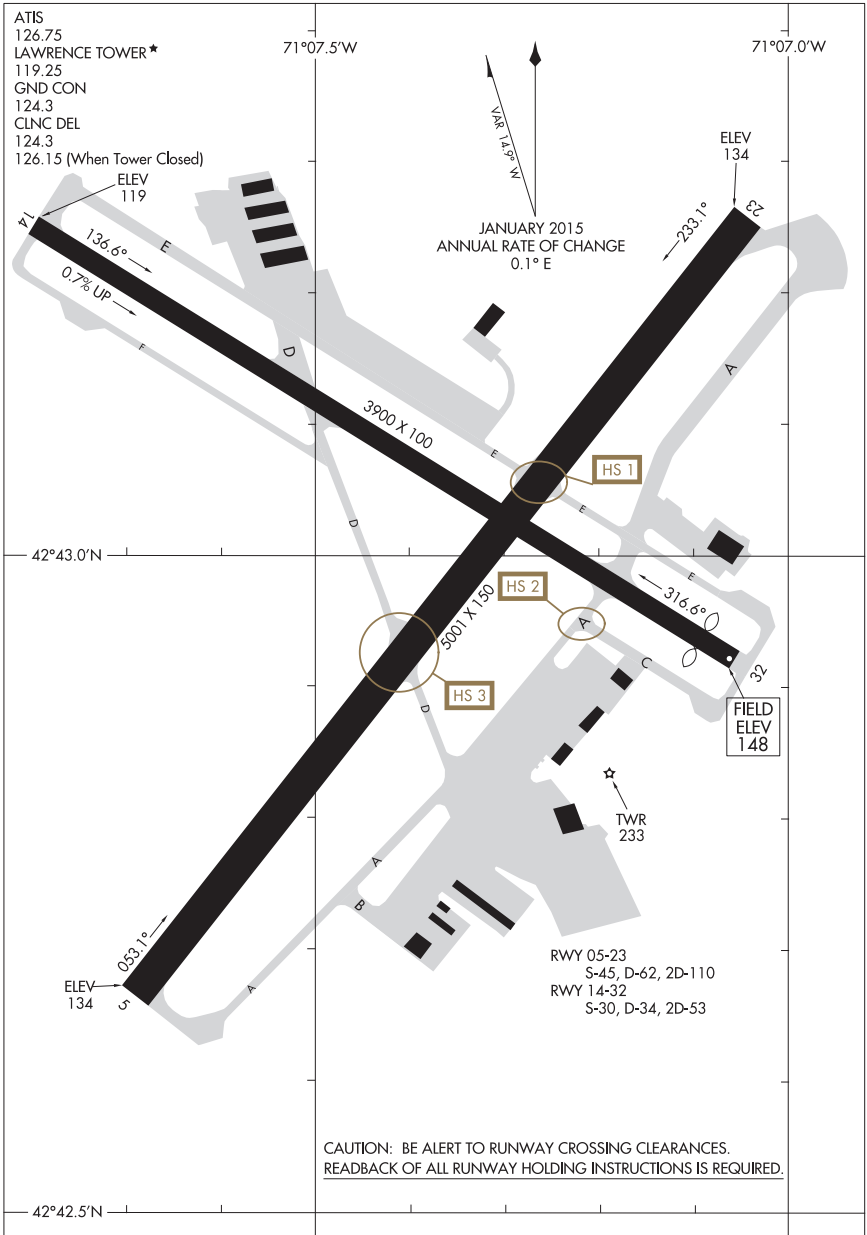
16147

LATROBE, PENNSYLVANIA  
ARNOLD PALMER RGNL (L,B,E)

# AIRPORT DIAGRAM

AL-654 (FAA)

LAWRENCE MUNI (LWM)  
LAWRENCE, MASSACHUSETTS



# AIRPORT DIAGRAM

16315

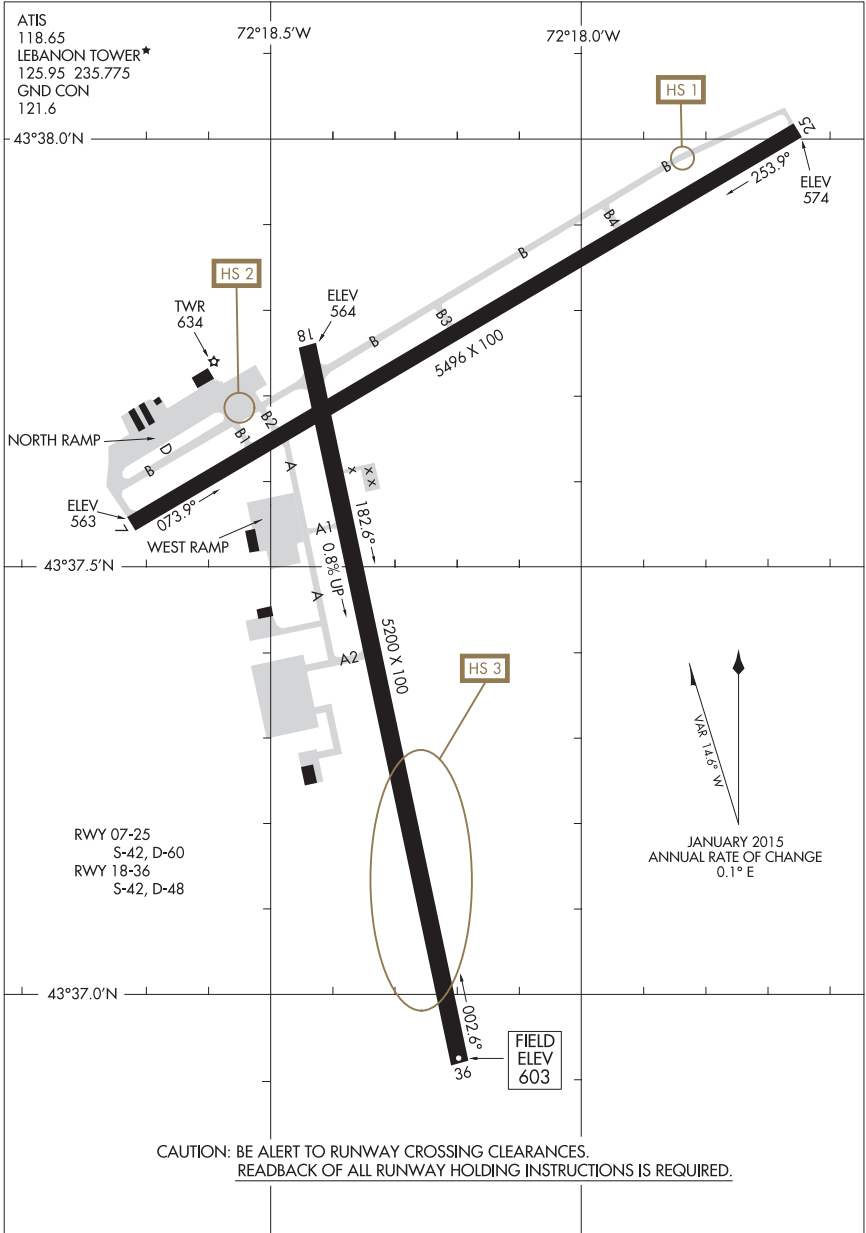
LAWRENCE, MASSACHUSETTS  
LAWRENCE MUNI (LWM)

15064

AIRPORT DIAGRAM

AL-859 (FAA)

LEBANON MUNI (LEB)  
LEBANON, NEW HAMPSHIRE



AIRPORT DIAGRAM

15064

LEBANON, NEW HAMPSHIRE  
LEBANON MUNI (LEB)

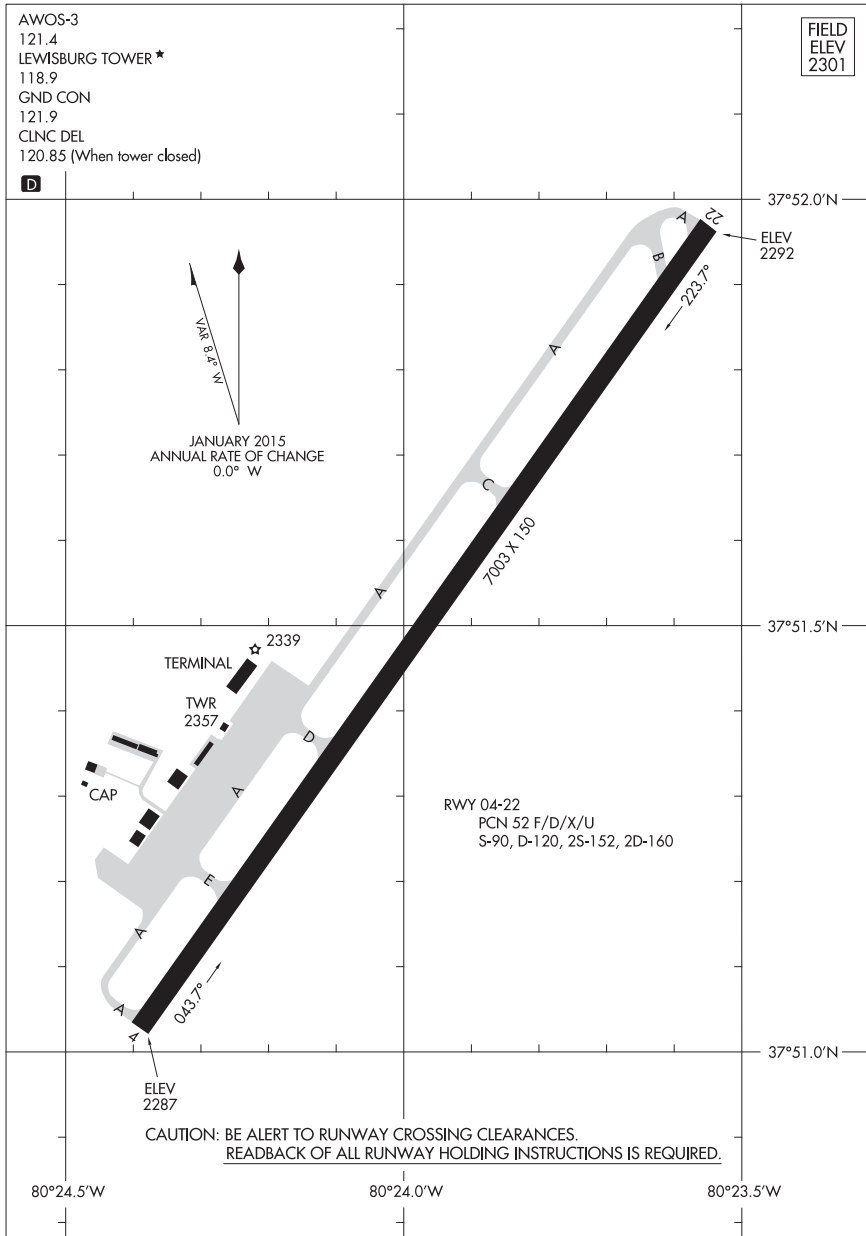


16259

# AIRPORT DIAGRAM

AL-5601 (FAA)

GREENBRIER VALLEY (LWB)  
LEWISBURG, WEST VIRGINIA



# AIRPORT DIAGRAM

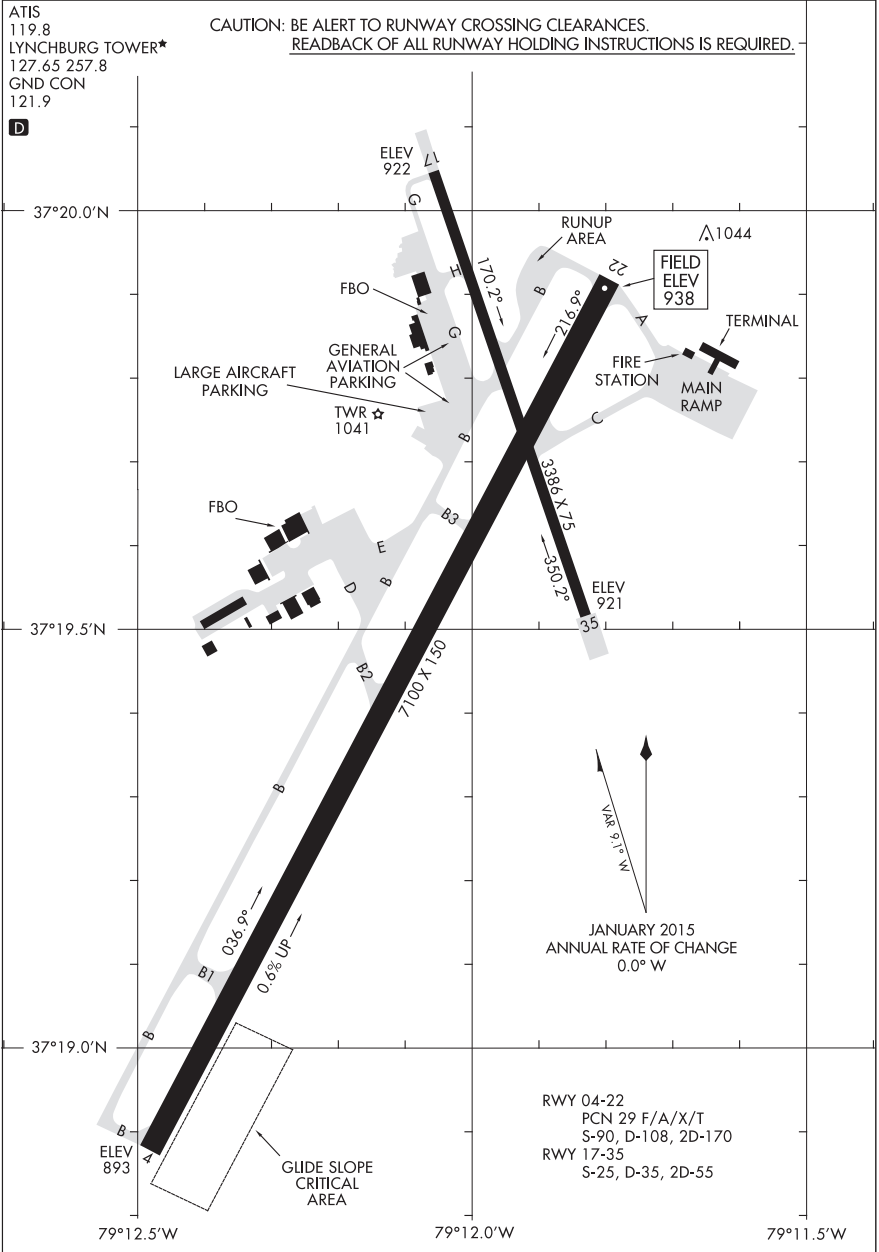
16259

LEWISBURG, WEST VIRGINIA  
GREENBRIER VALLEY (LWB)

15288

AIRPORT DIAGRAM

LYNCHBURG RGNL/PRESTON GLENN FLD (LYH)  
AL-499 (FAA)  
LYNCHBURG, VIRGINIA



AIRPORT DIAGRAM

15288

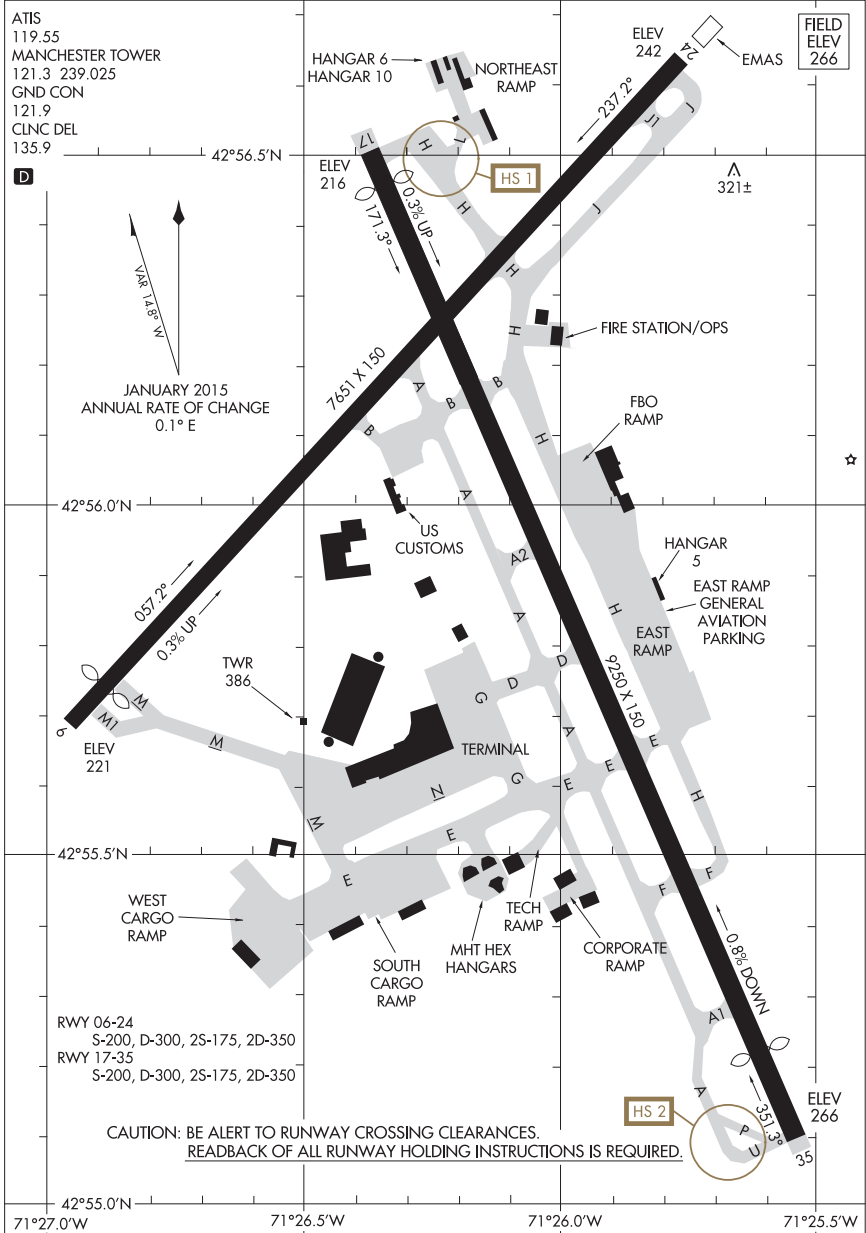
LYNCHBURG, VIRGINIA  
LYNCHBURG RGNL/PRESTON GLENN FLD (LYH)

16315

# AIRPORT DIAGRAM

AL-246 (FAA)

MANCHESTER (MHT)  
MANCHESTER, NEW HAMPSHIRE



# AIRPORT DIAGRAM

MANCHESTER, NEW HAMPSHIRE  
MANCHESTER (MHT)

16315

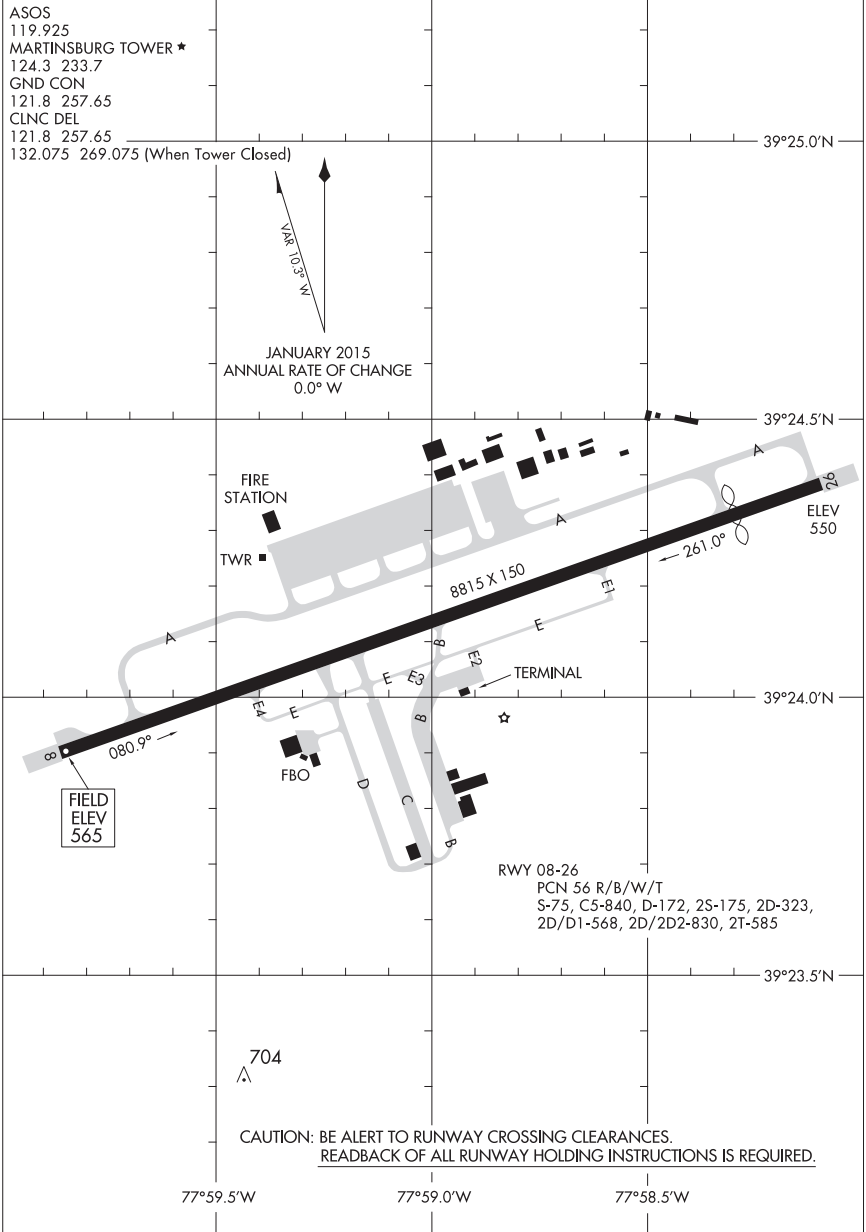
16203

AIRPORT DIAGRAM

EASTERN WV RGNL/SHEPHERD FLD (MRB)

AL-249 (FAA)

MARTINSBURG, WEST VIRGINIA



AIRPORT DIAGRAM

16203

MARTINSBURG, WEST VIRGINIA  
EASTERN WV RGNL/SHEPHERD FLD (MRB)

14261

MC GUIRE FLD, (JOINT BASE MC GUIRE DIX LAKEHURST) (KWRI)

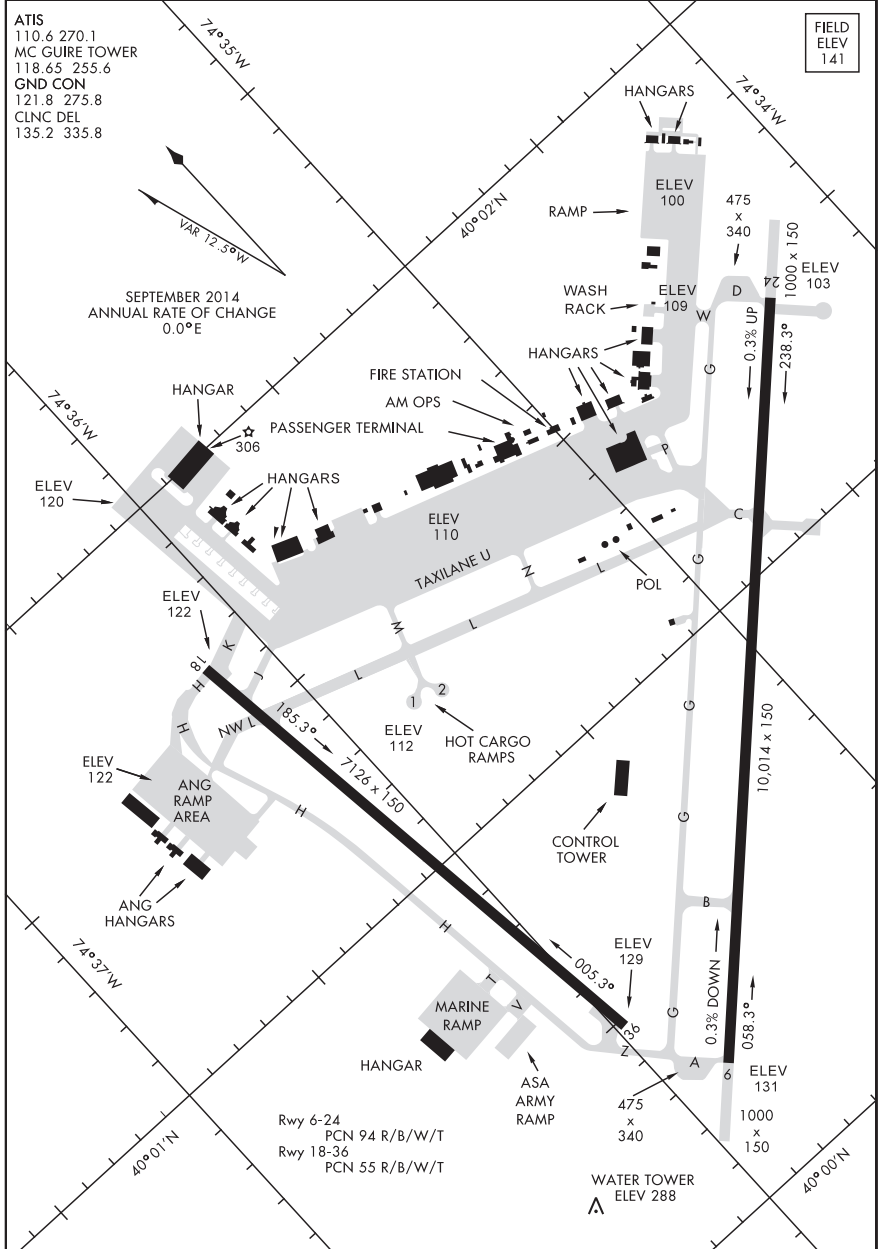
AFD-150 [USAF]

WRIGHTSTOWN, NEW JERSEY

# AIRPORT DIAGRAM

ATIS  
 110.6 270.1  
 MC GUIRE TOWER  
 118.65 255.6  
 GND CON  
 121.8 275.8  
 CLNC DEL  
 135.2 335.8

FIELD  
 ELEV  
 141



# AIRPORT DIAGRAM

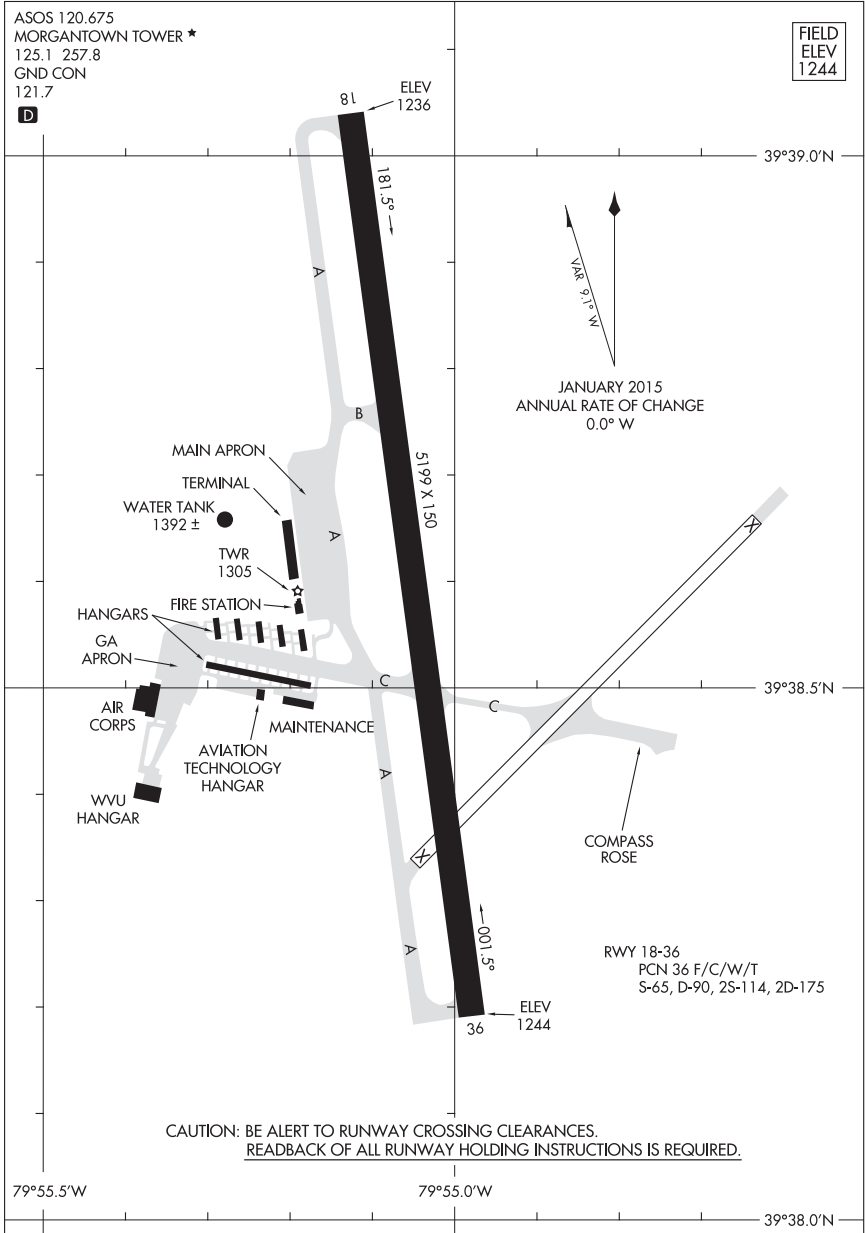
WRIGHTSTOWN, NEW JERSEY

MC GUIRE FLD, (JOINT BASE MC GUIRE DIX LAKEHURST) (KWRI)

15288

AIRPORT DIAGRAM

MORGANTOWN MUNI-WALTER L BILL HART FLD (MGW)  
AL-479 (FAA)  
MORGANTOWN, WEST VIRGINIA



AIRPORT DIAGRAM

15288

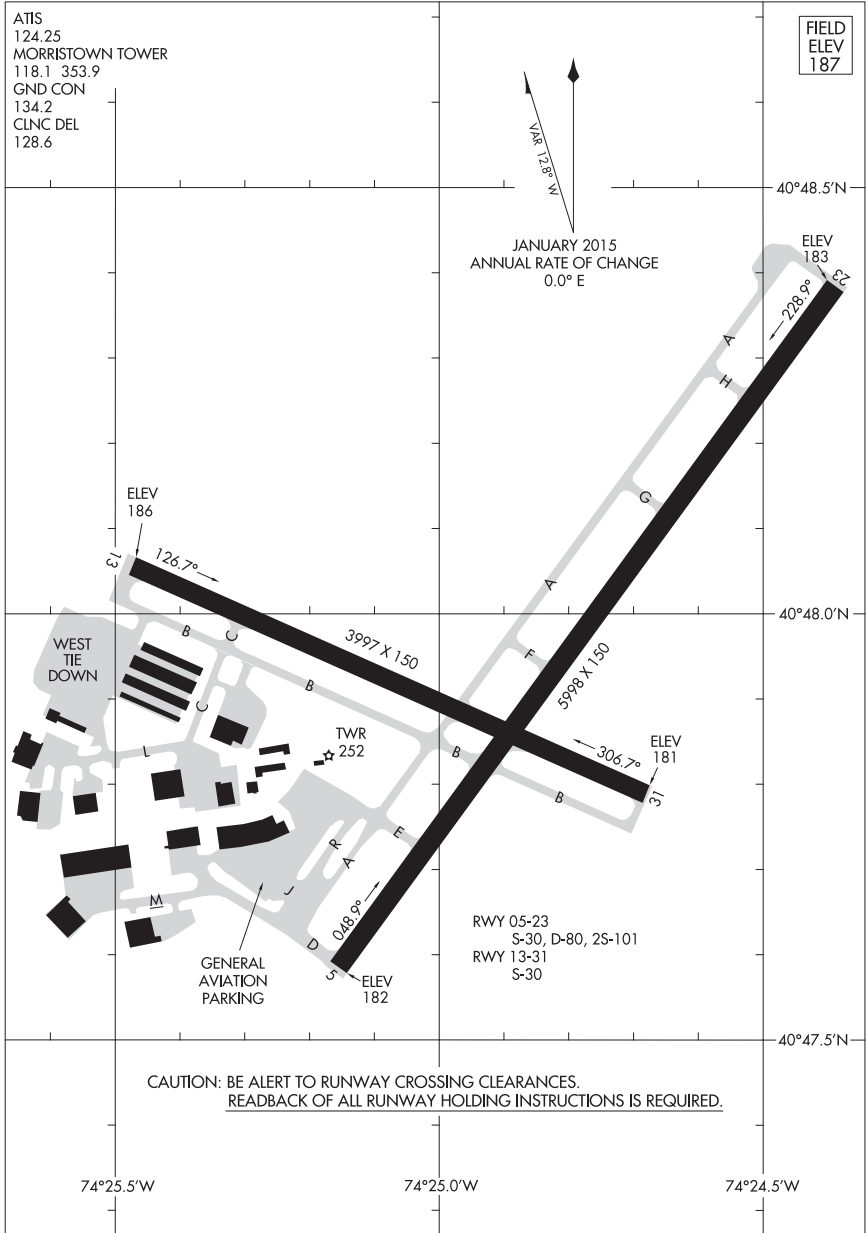
MORGANTOWN, WEST VIRGINIA  
MORGANTOWN MUNI-WALTER L BILL HART FLD (MGW)

15064

AIRPORT DIAGRAM

AL-931 (FAA)

MORRISTOWN MUNI (MMU)  
MORRISTOWN, NEW JERSEY



AIRPORT DIAGRAM

15064

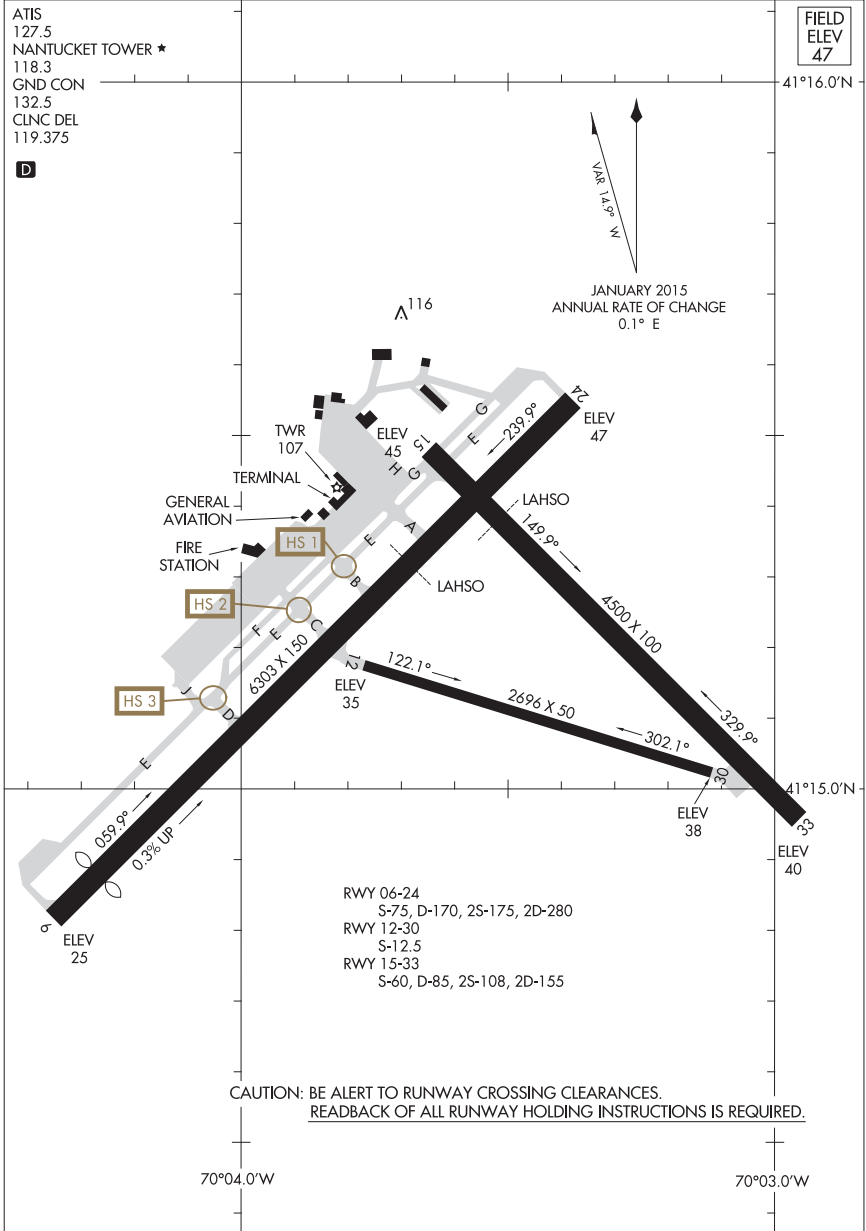
MORRISTOWN, NEW JERSEY  
MORRISTOWN MUNI (MMU)

15064

AIRPORT DIAGRAM

AL-659 (FAA)

NANTUCKET MEMORIAL (ACK)  
NANTUCKET, MASSACHUSETTS



AIRPORT DIAGRAM

15064

NANTUCKET, MASSACHUSETTS  
NANTUCKET MEMORIAL (ACK)

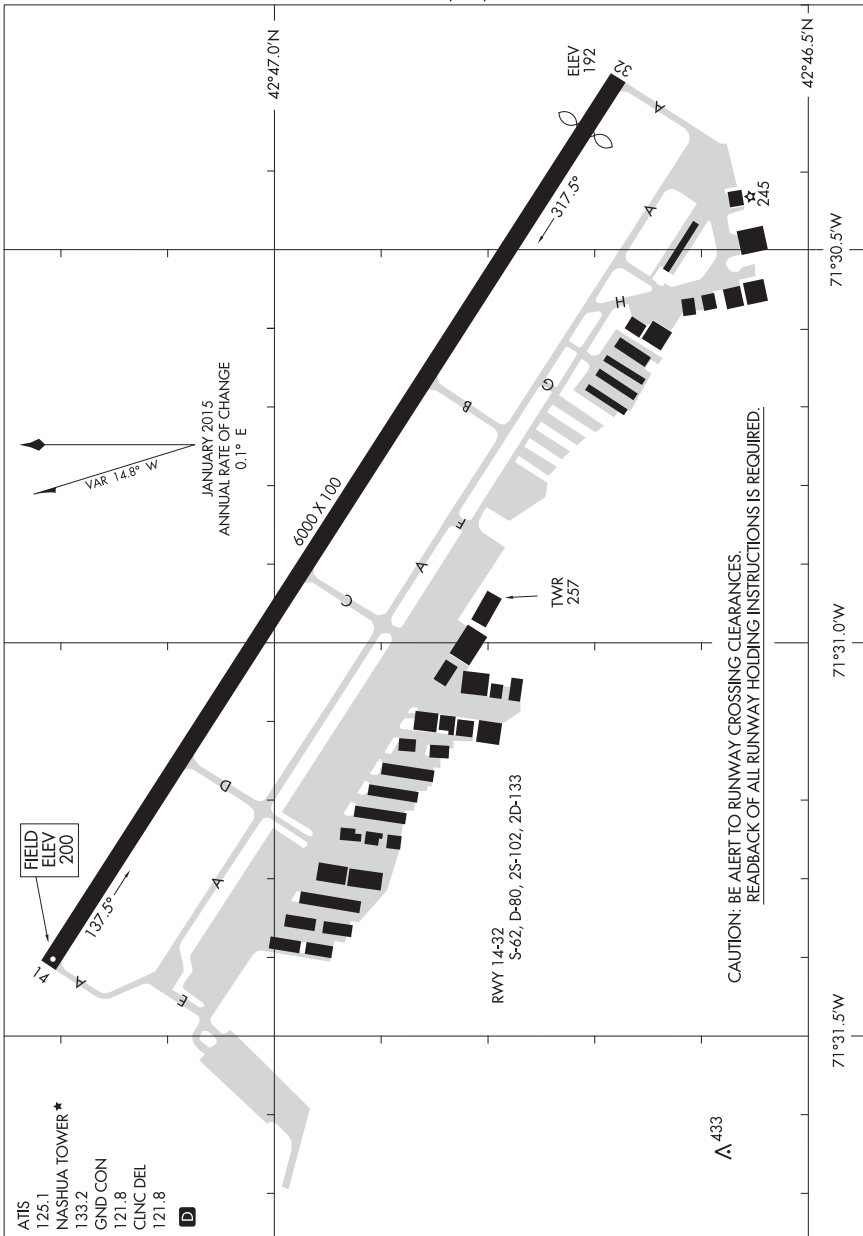


15064

# AIRPORT DIAGRAM

AL-5036 (FAA)

BOIRE FIELD (ASH)  
NASHUA, NEW HAMPSHIRE



# AIRPORT DIAGRAM

NASHUA, NEW HAMPSHIRE  
BOIRE FIELD (ASH)

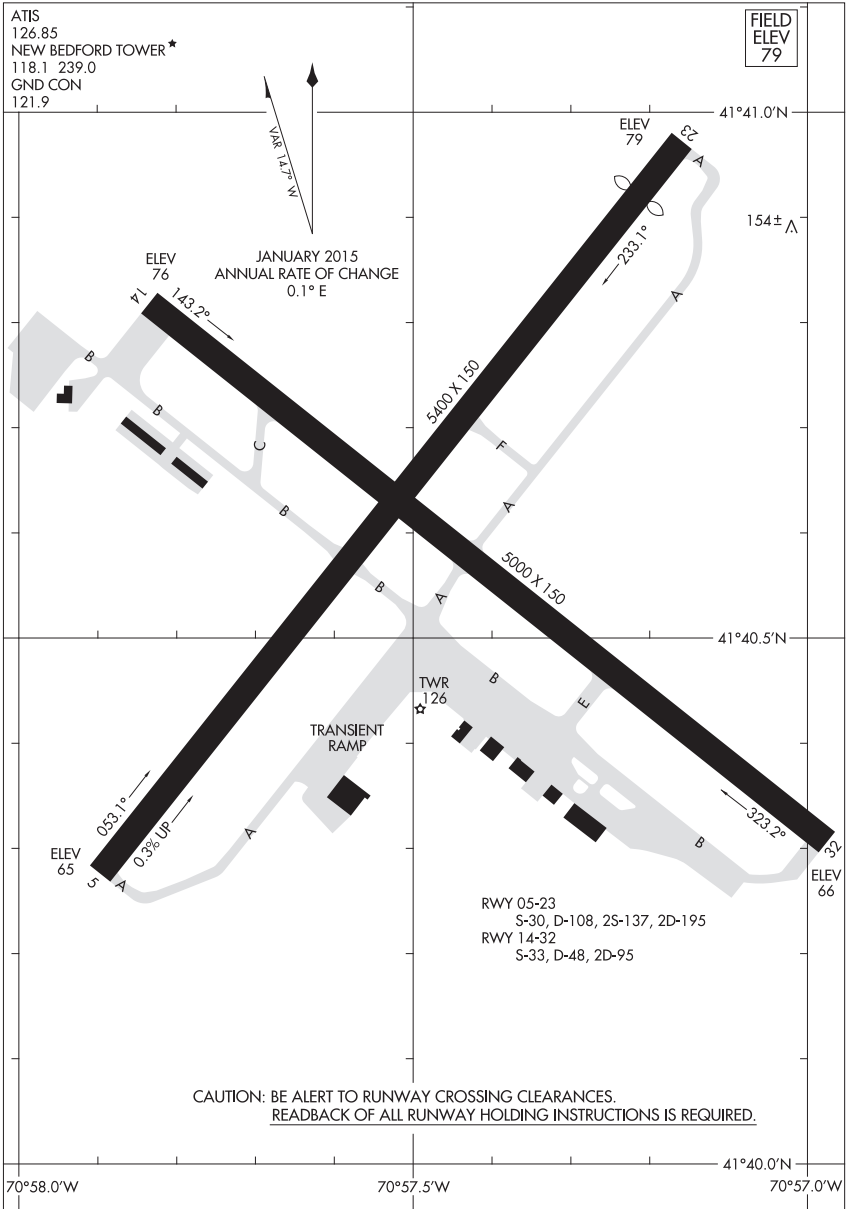
15064

15288

AIRPORT DIAGRAM

AL-644 (FAA)

NEW BEDFORD RGNL (EWB)  
NEW BEDFORD, MASSACHUSETTS



AIRPORT DIAGRAM

15288

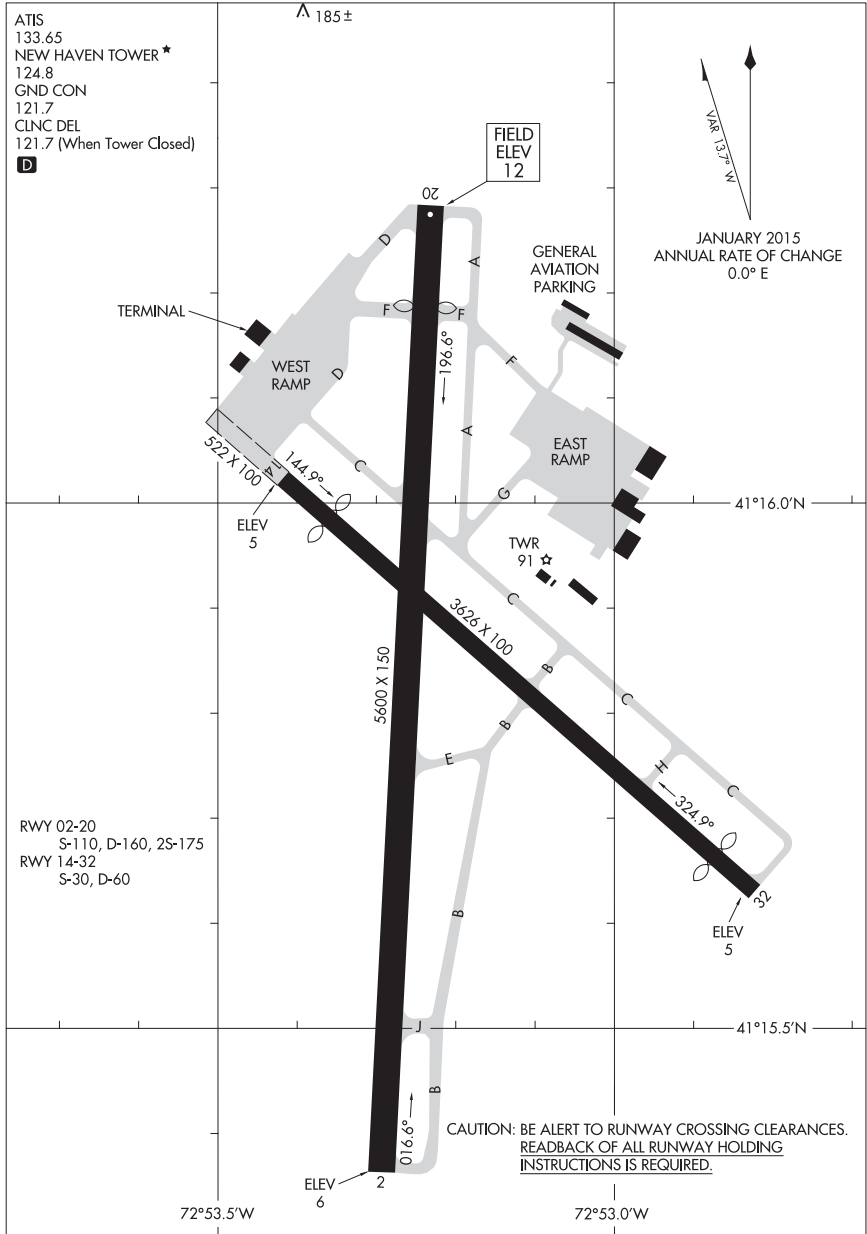
NEW BEDFORD, MASSACHUSETTS  
NEW BEDFORD RGNL (EWB)

15064

# AIRPORT DIAGRAM

AL-671 (FAA)

TWEED-NEW HAVEN (HVN)  
NEW HAVEN, CONNECTICUT



# AIRPORT DIAGRAM

15064

NEW HAVEN, CONNECTICUT  
TWEED-NEW HAVEN (HVN)

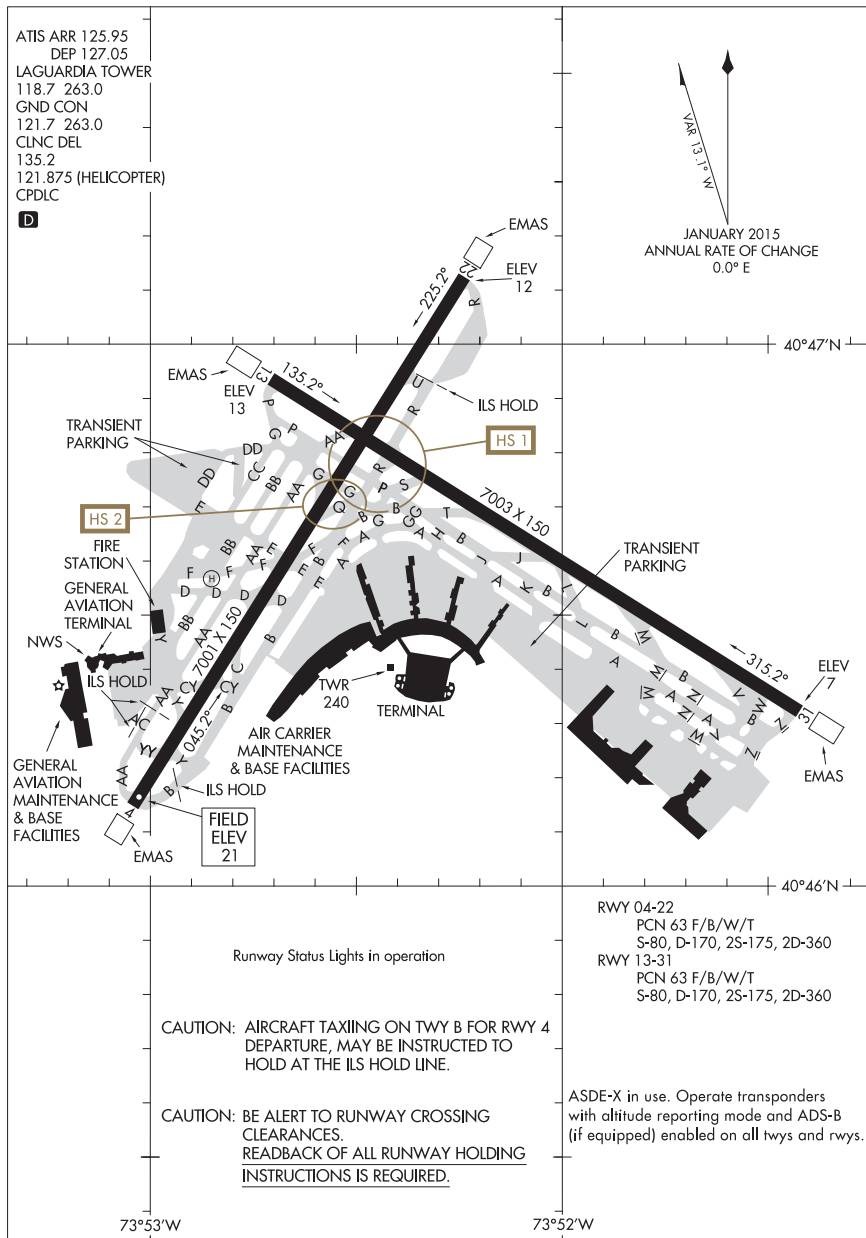


17005

AIRPORT DIAGRAM

AL-289 (FAA)

LAGUARDIA (L.G.A.)  
NEW YORK, NEW YORK



AIRPORT DIAGRAM

17005

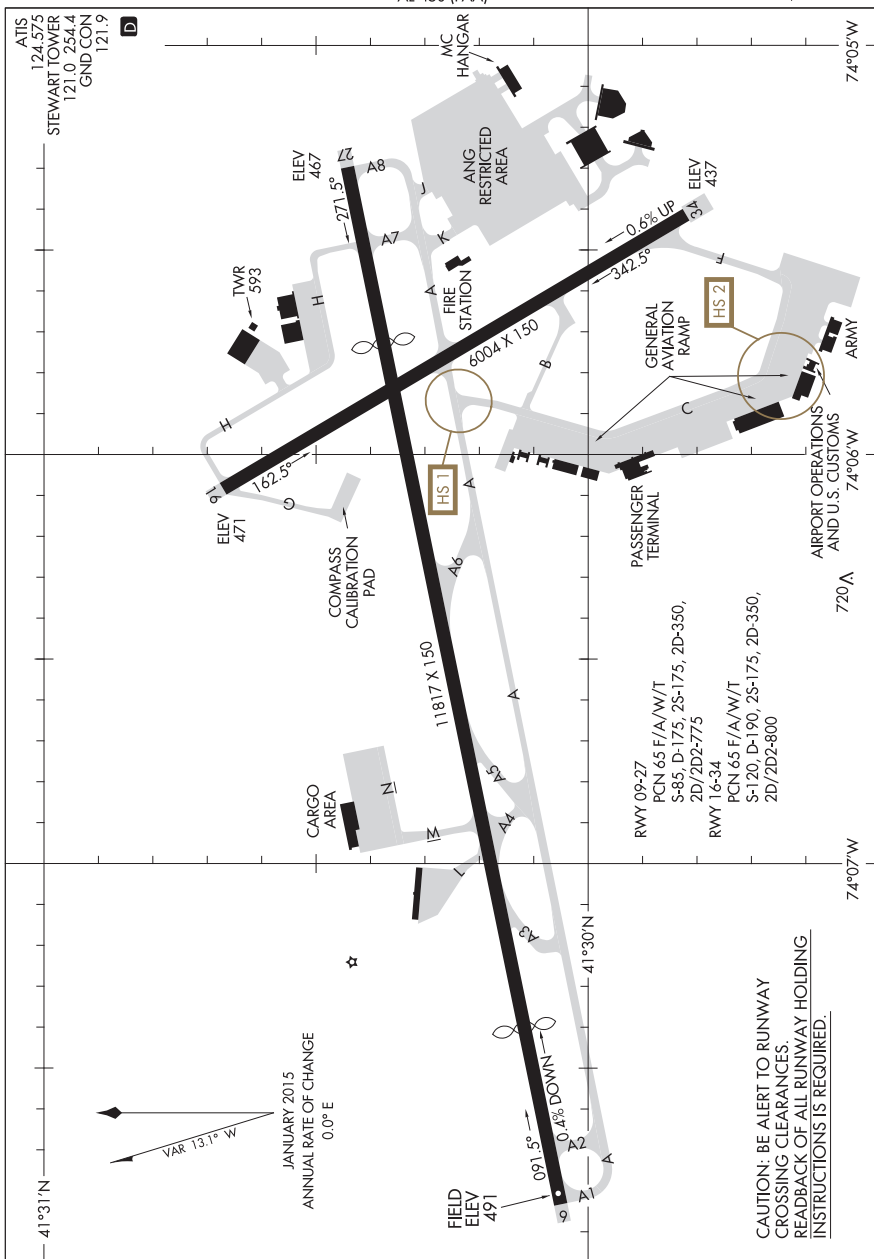
NEW YORK, NEW YORK  
LAGUARDIA (L.G.A.)



16259

# AIRPORT DIAGRAM

STEWART INTL (SWF)  
NEW YORK, NEW YORK



# AIRPORT DIAGRAM

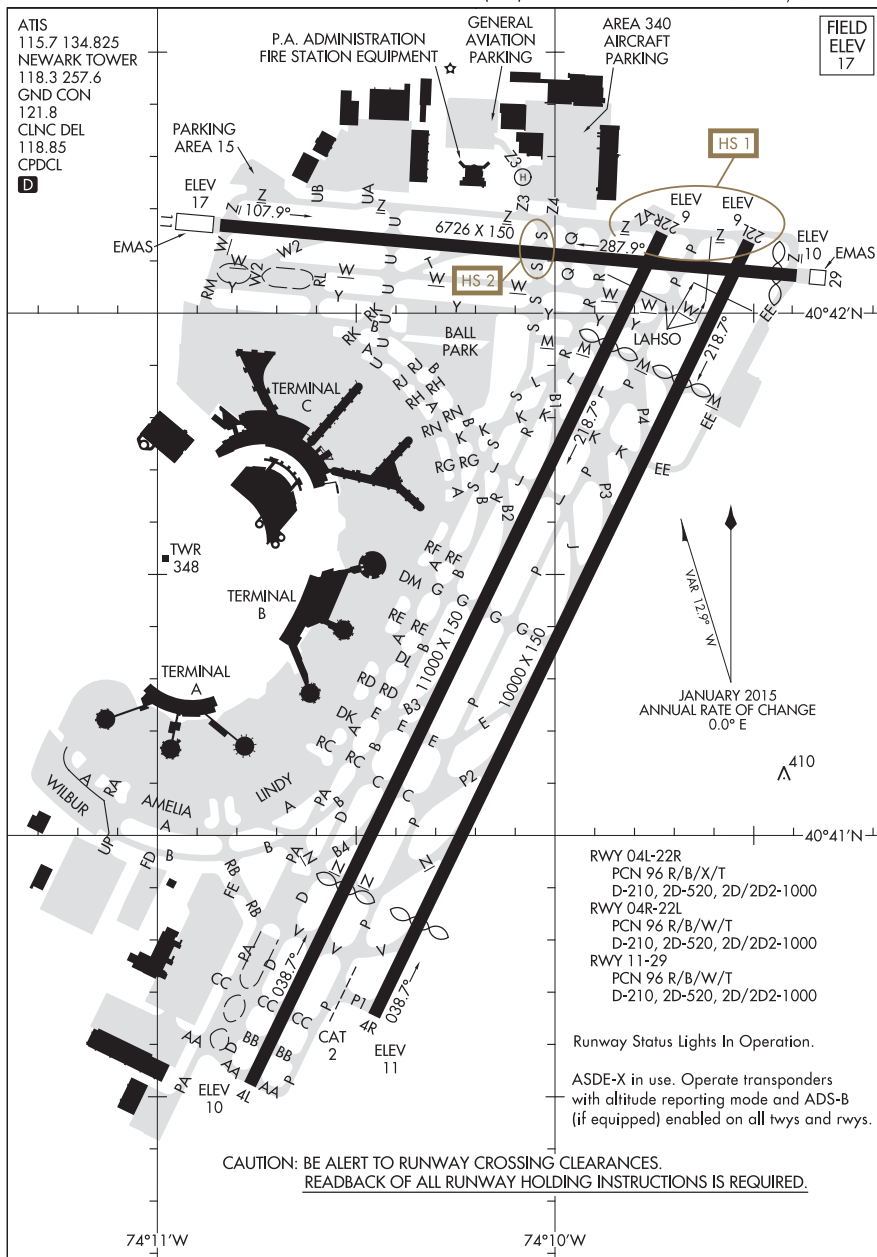
16259

NEW YORK, NEW YORK  
STEWART INTL (SWF)

16091

AIRPORT DIAGRAM

NEWARK LIBERTY INTL (EWR)  
NEWARK, NEW JERSEY



RWY 04L-22R  
PCN 96 R/B/X/T  
D-210, 2D-520, 2D/2D2-1000  
RWY 04R-22L  
PCN 96 R/B/W/T  
D-210, 2D-520, 2D/2D2-1000  
RWY 11-29  
PCN 96 R/B/W/T  
D-210, 2D-520, 2D/2D2-1000

Runway Status Lights In Operation.  
ASDE-X in use. Operate transponders with altitude reporting mode and ADS-B (if equipped) enabled on all twys and rwys.

**CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.**

AIRPORT DIAGRAM

NEWARK, NEW JERSEY  
NEWARK LIBERTY INTL (EWR)

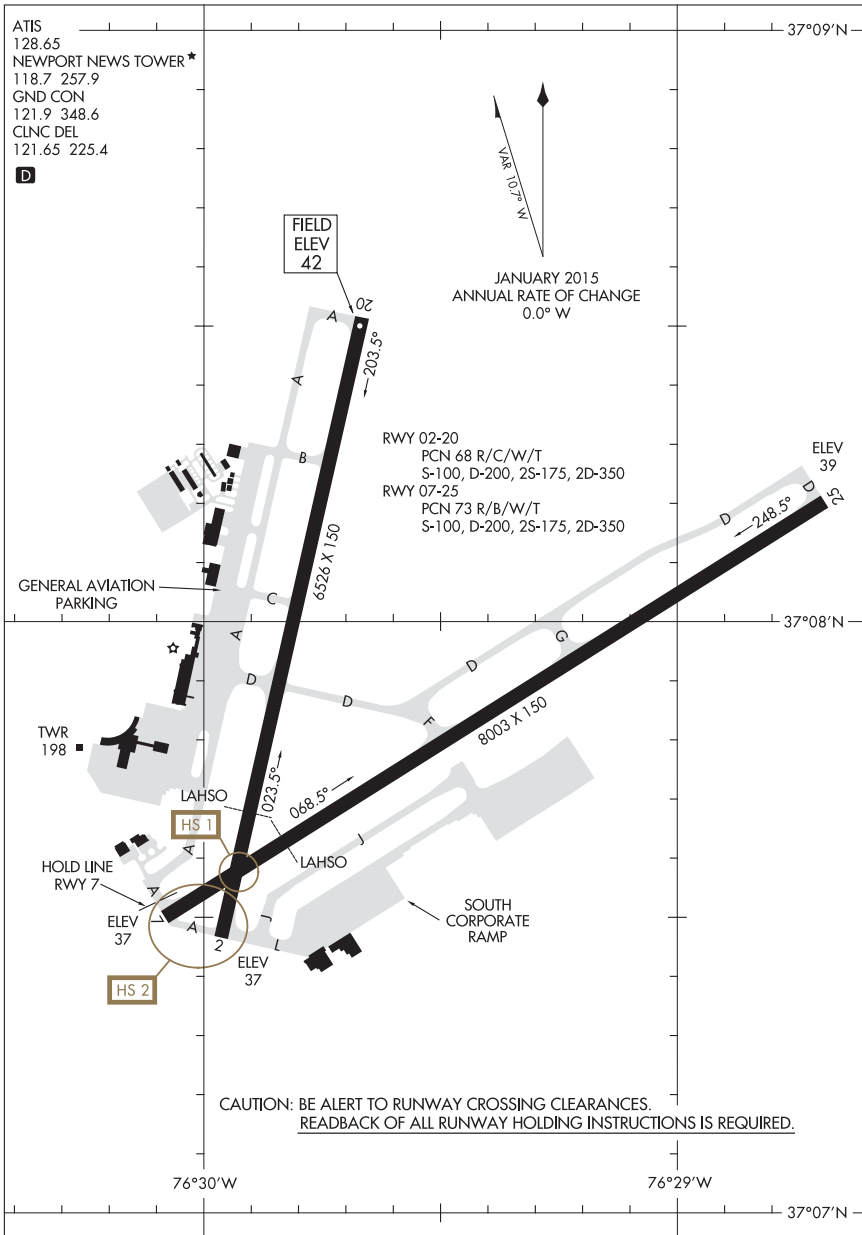
16091



15288

# AIRPORT DIAGRAM

NEWPORT NEWS/WILLIAMSBURG INTL (PHF)  
AL-957 (FAA)  
NEWPORT NEWS, VIRGINIA



# AIRPORT DIAGRAM

15288

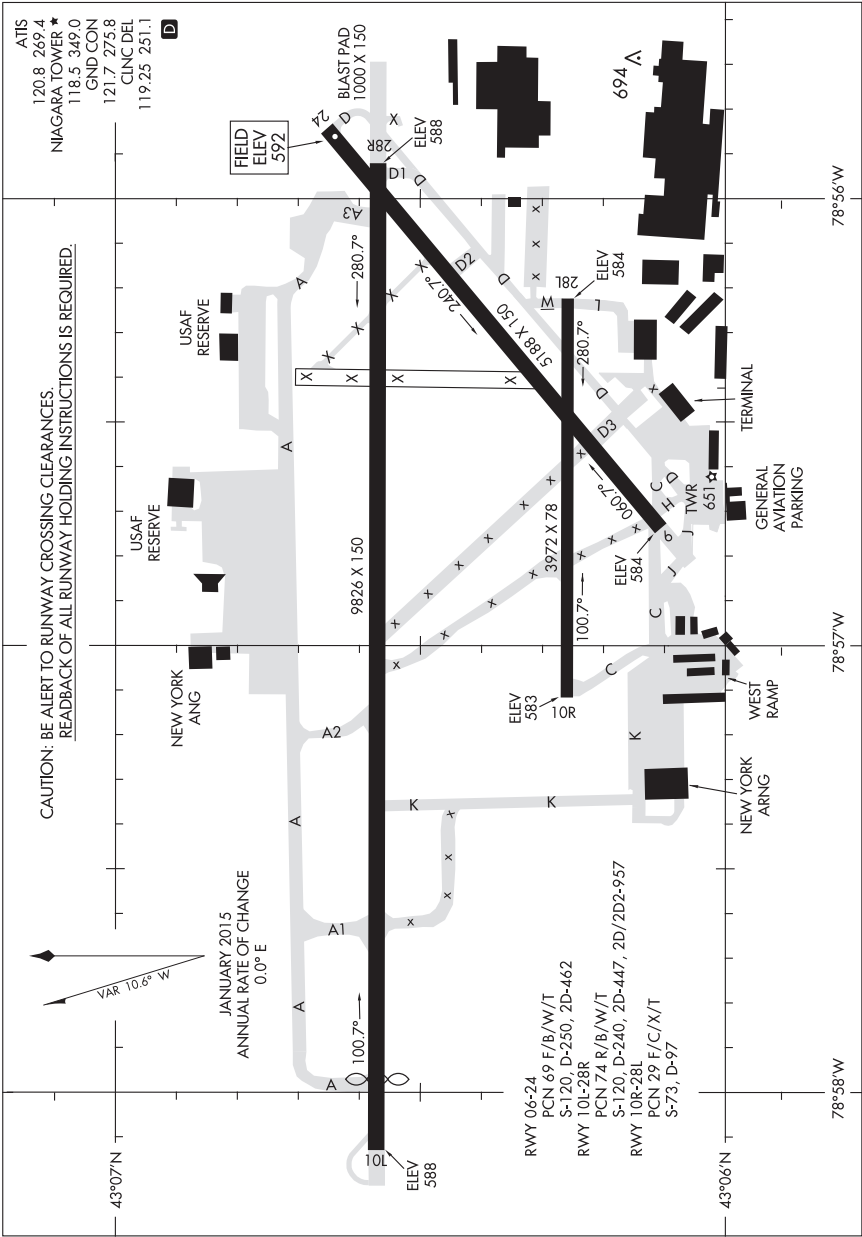
NEWPORT NEWS, VIRGINIA  
NEWPORT NEWS/WILLIAMSBURG INTL (PHF)

15288

AIRPORT DIAGRAM

AL-614 (FAA)

NIAGARA FALLS INTL (IAG)  
NIAGARA FALLS, NEW YORK



AIRPORT DIAGRAM

15288

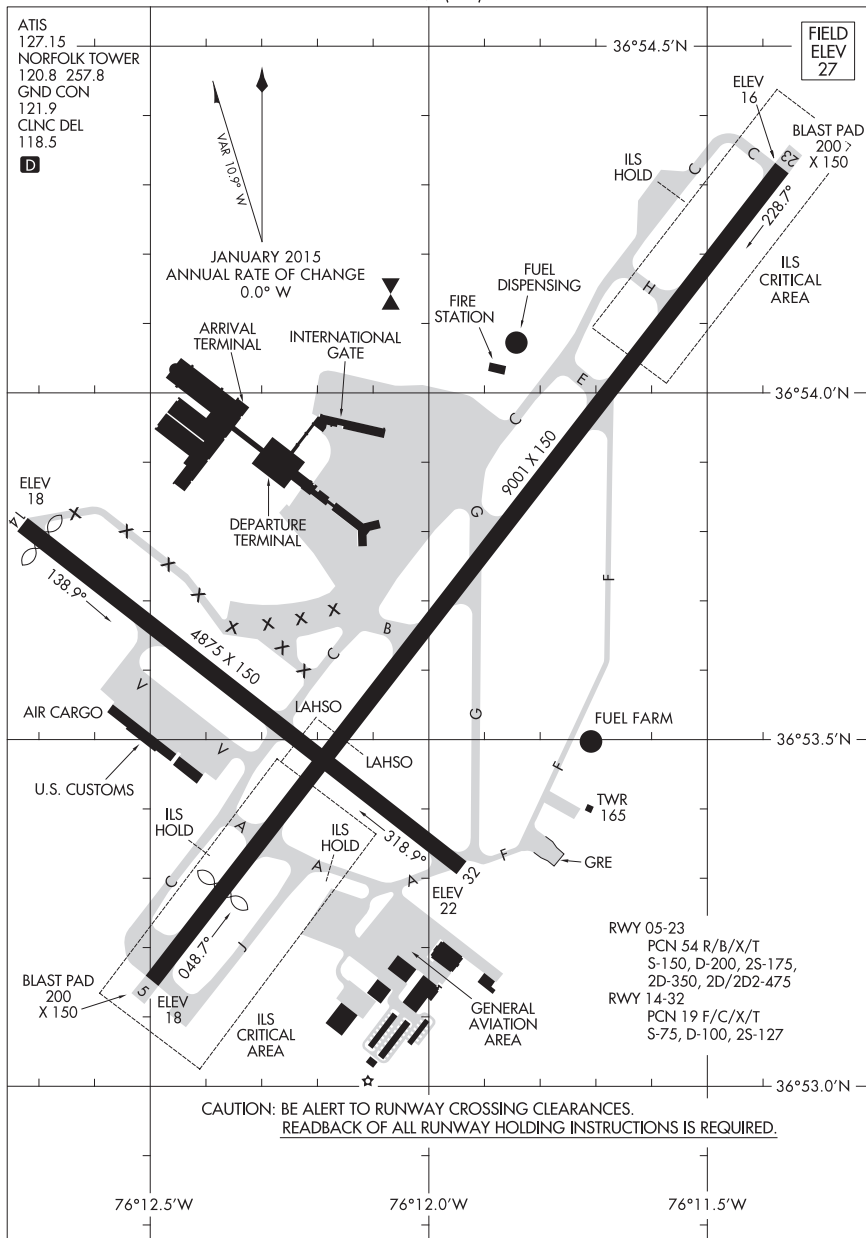
NIAGARA FALLS, NEW YORK  
NIAGARA FALLS INTL (IAG)

15064

# AIRPORT DIAGRAM

AL-291 (FAA)

NORFOLK INTL (O.R.F)  
NORFOLK, VIRGINIA



# AIRPORT DIAGRAM

15064

NORFOLK, VIRGINIA  
NORFOLK INTL (O.R.F)

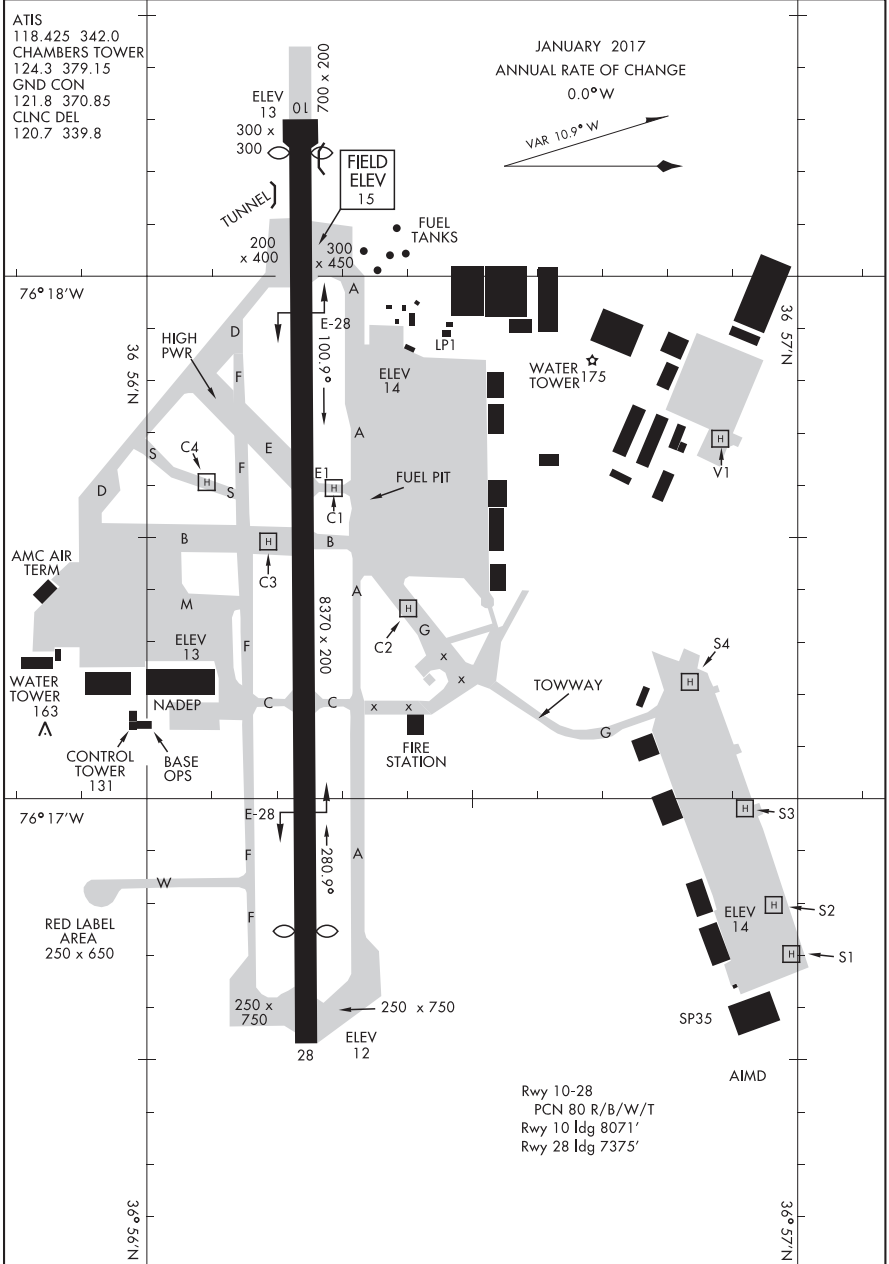
17005

NORFOLK NS (CHAMBERS FIELD) (KNGU)

AIRPORT DIAGRAM

AFD-290 [USN]

NORFOLK, VIRGINIA



AIRPORT DIAGRAM

NORFOLK, VIRGINIA  
NORFOLK NS (CHAMBERS FIELD) (KNGU)

16147

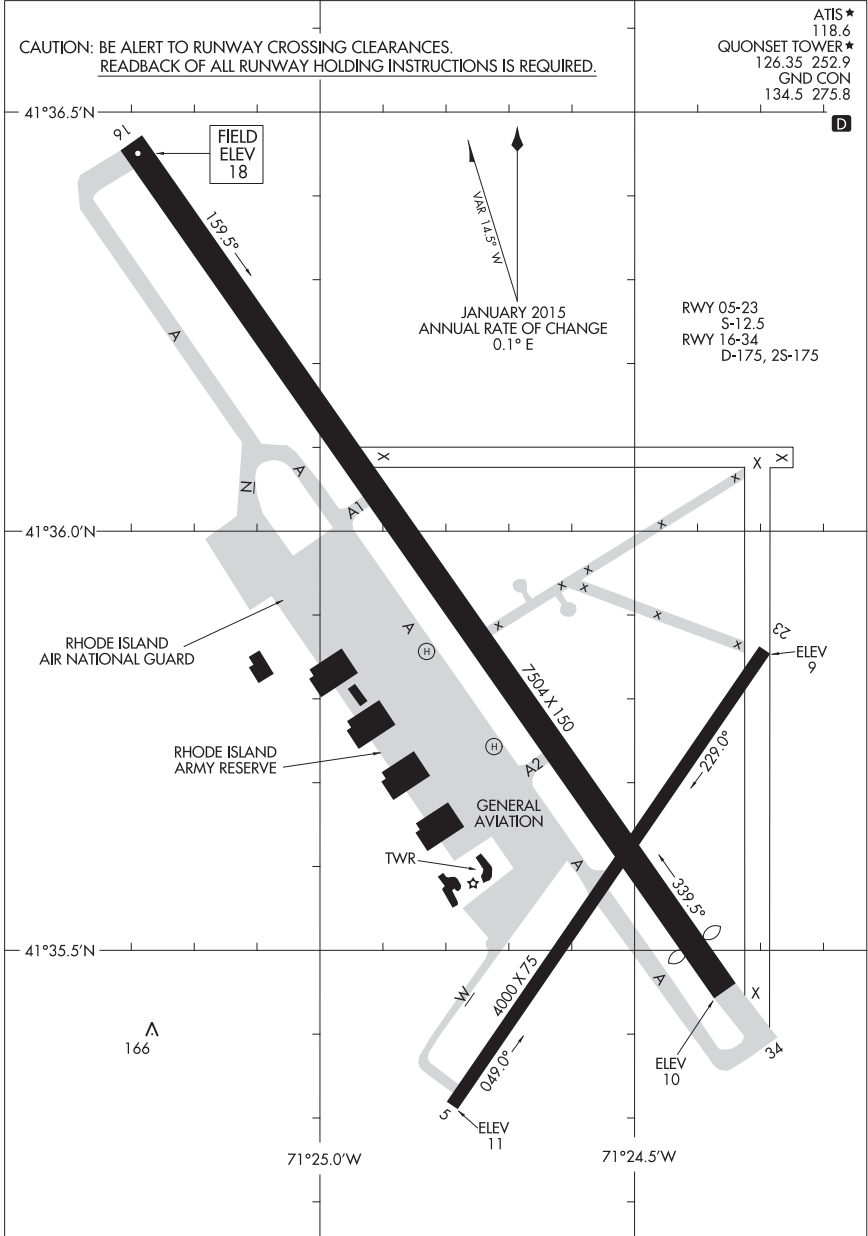
AIRPORT DIAGRAM

AL-338 (FAA)

QUONSET STATE (OQT)  
NORTH KINGSTOWN, RHODE ISLAND

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

ATIS ★  
118.6  
QUONSET TOWER ★  
126.35 252.9  
GND CON  
134.5 275.8



AIRPORT DIAGRAM

16147

NORTH KINGSTOWN, RHODE ISLAND  
QUONSET STATE (OQT)



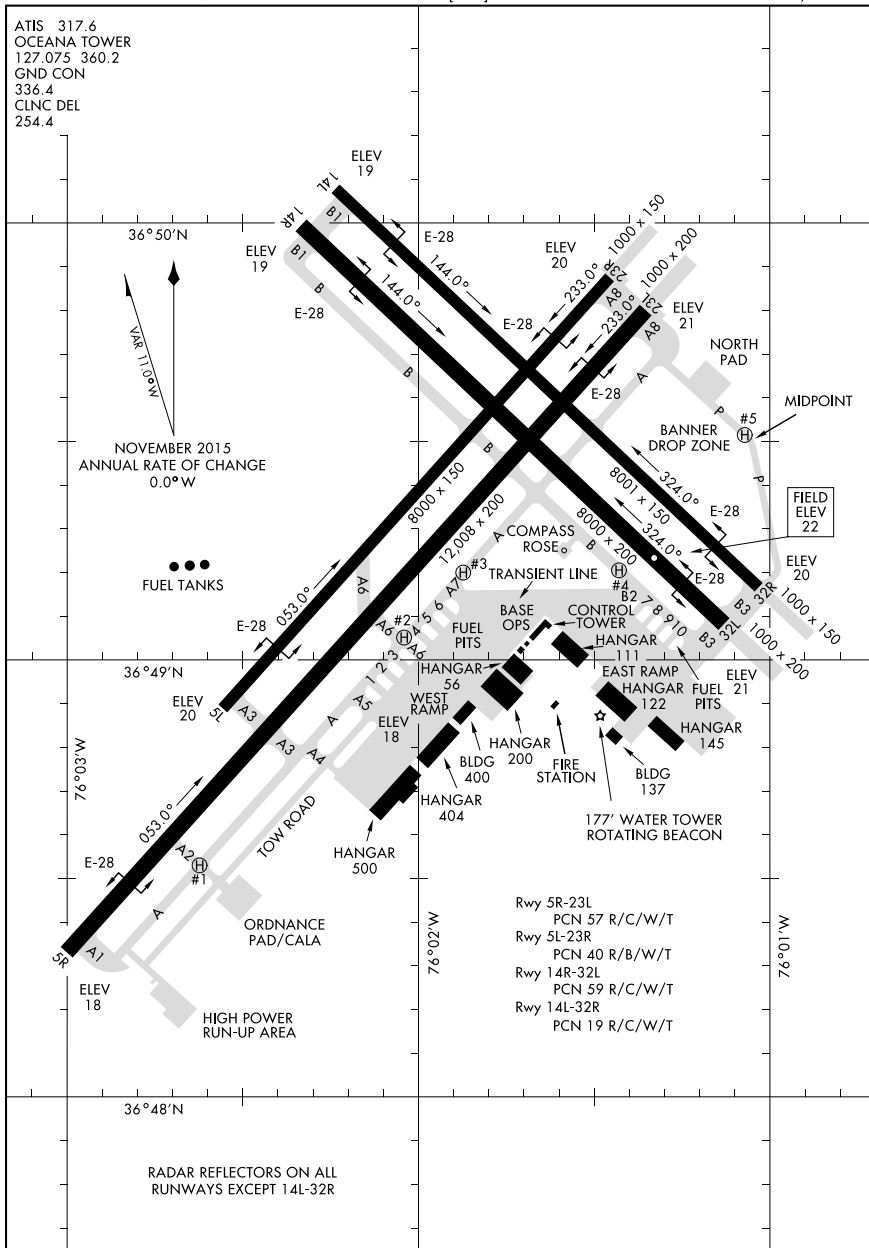
15316

OCEANA NAS (APOLLO SOUCEK FIELD) (KNTU)

AIRPORT DIAGRAM

AFD-934 [USN]

VIRGINIA BEACH, VIRGINIA



AIRPORT DIAGRAM

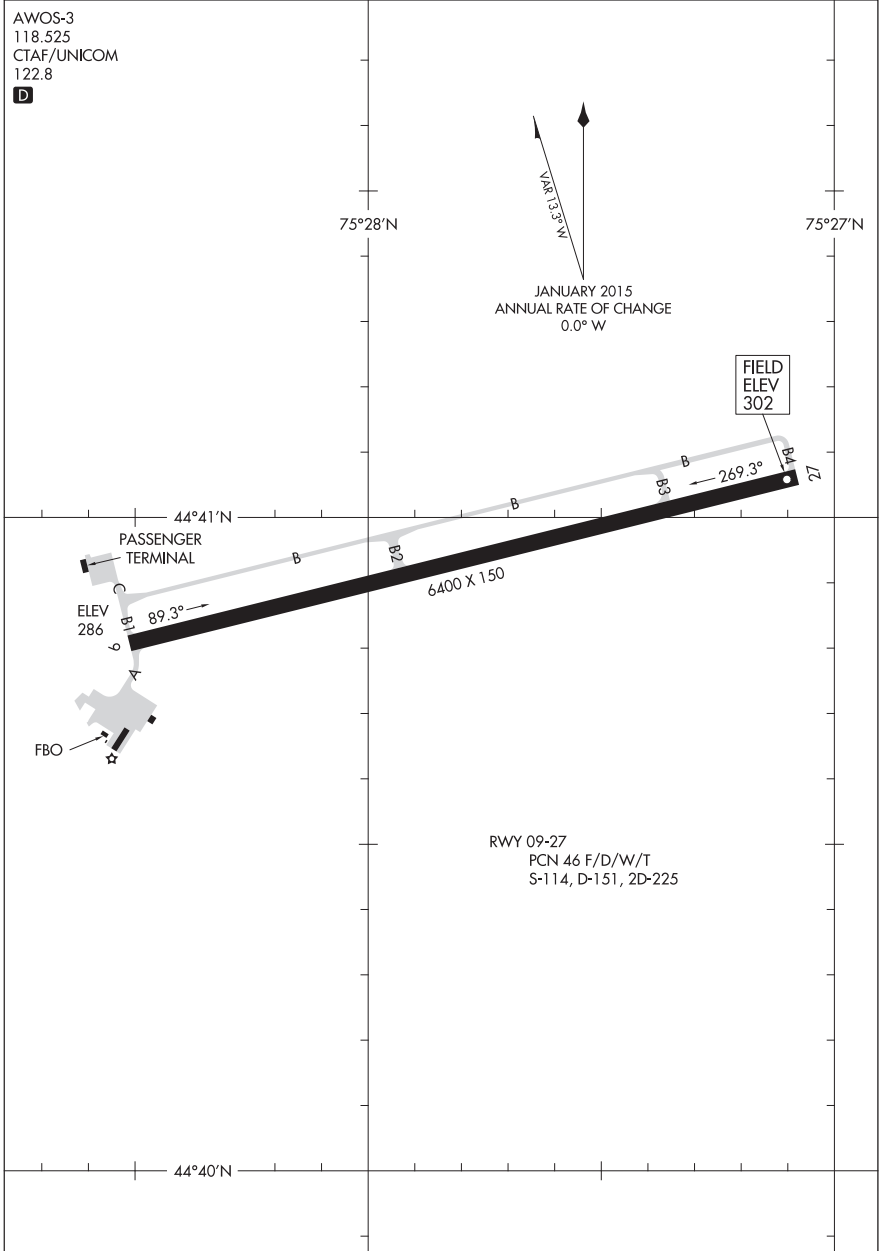
VIRGINIA BEACH, VIRGINIA  
OCEANA NAS (APOLLO SOUCEK FIELD) (KNTU)

17005

AIRPORT DIAGRAM

AL-5207 (FAA)

OGDENSBURG INTL. (OGS)  
OGDENSBURG, NEW YORK



AIRPORT DIAGRAM

17005

OGDENSBURG, NEW YORK  
OGDENSBURG INTL. (OGS)

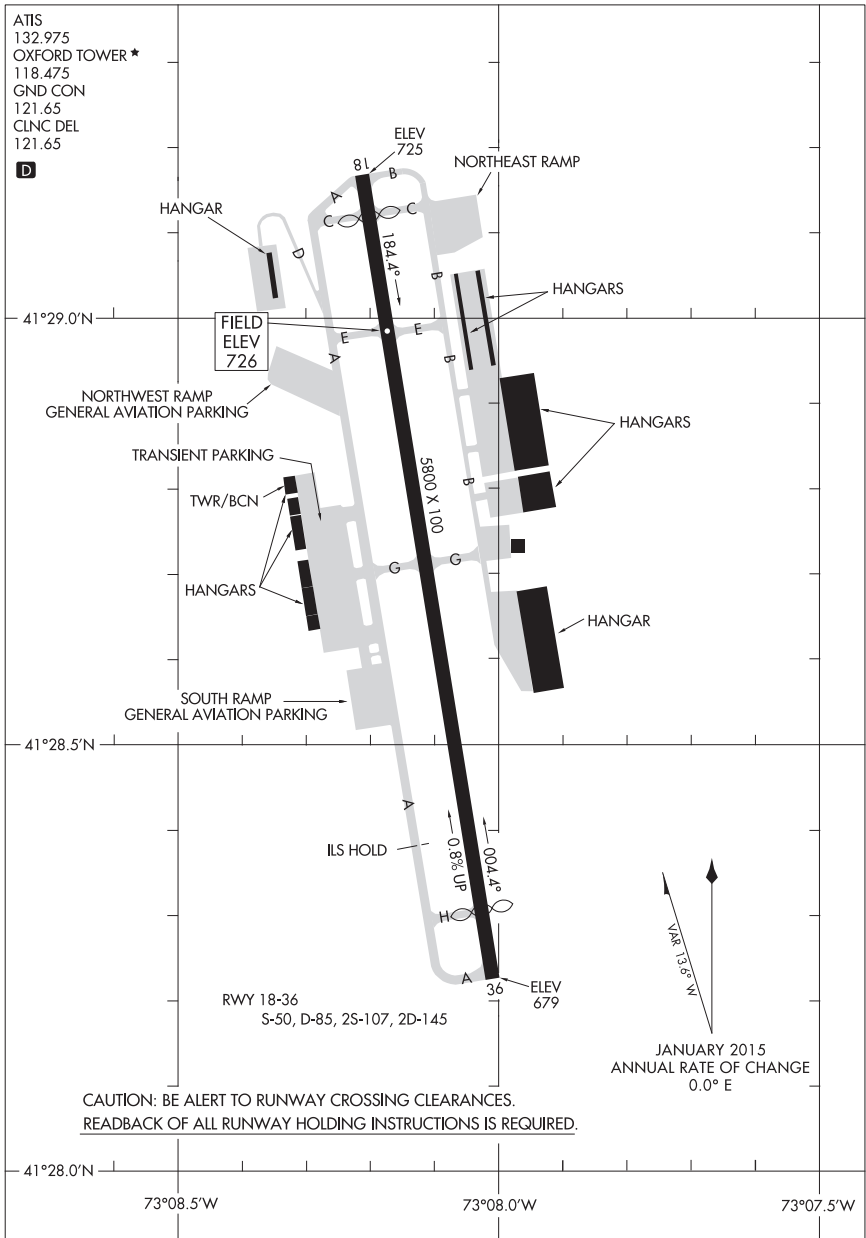


15064

# AIRPORT DIAGRAM

AL-5785 (FAA)

WATERBURY-OXFORD (OXC)  
OXFORD, CONNECTICUT



# AIRPORT DIAGRAM

15064

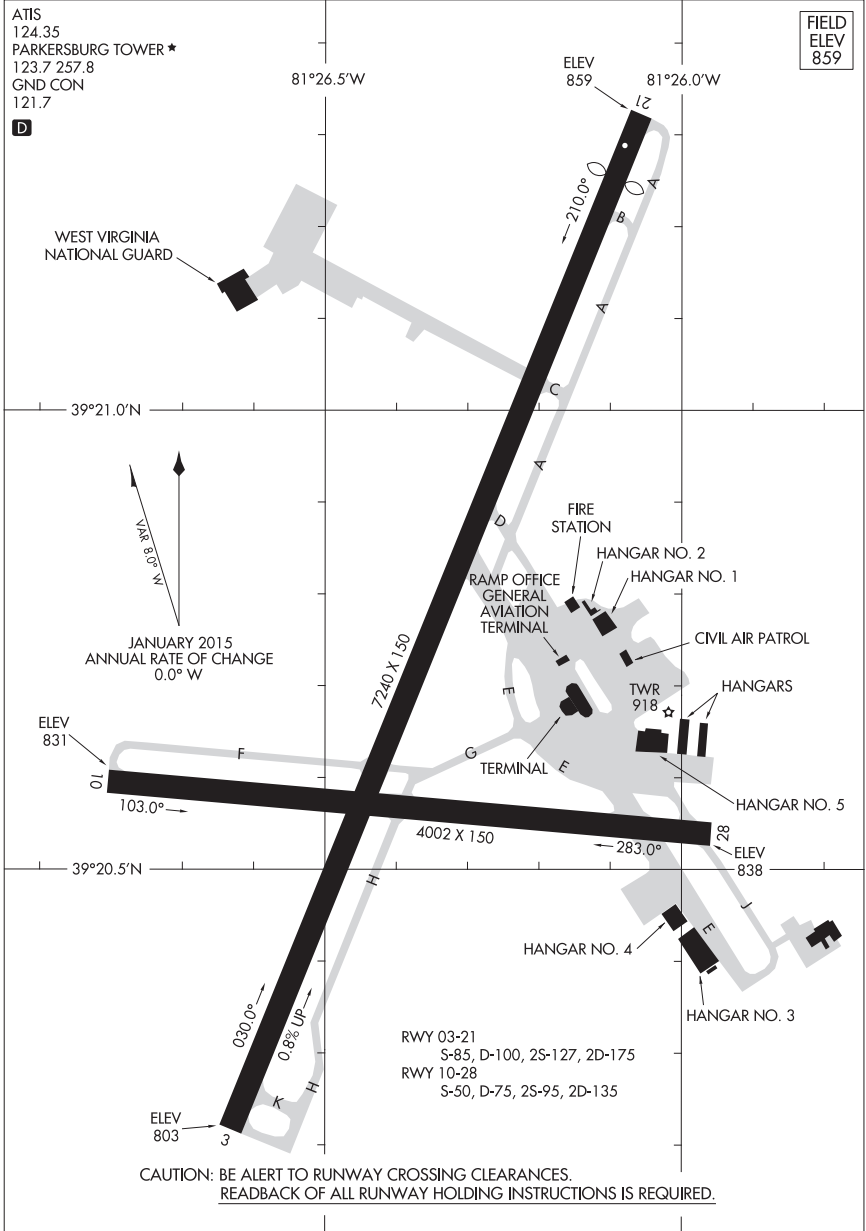
OXFORD, CONNECTICUT  
WATERBURY-OXFORD (OXC)

15064

AIRPORT DIAGRAM

AL-646 (FAA)

MID-OHIO VALLEY RGNL (PKB)  
PARKERSBURG, WEST VIRGINIA



AIRPORT DIAGRAM

15064

PARKERSBURG, WEST VIRGINIA  
MID-OHIO VALLEY RGNL (PKB)

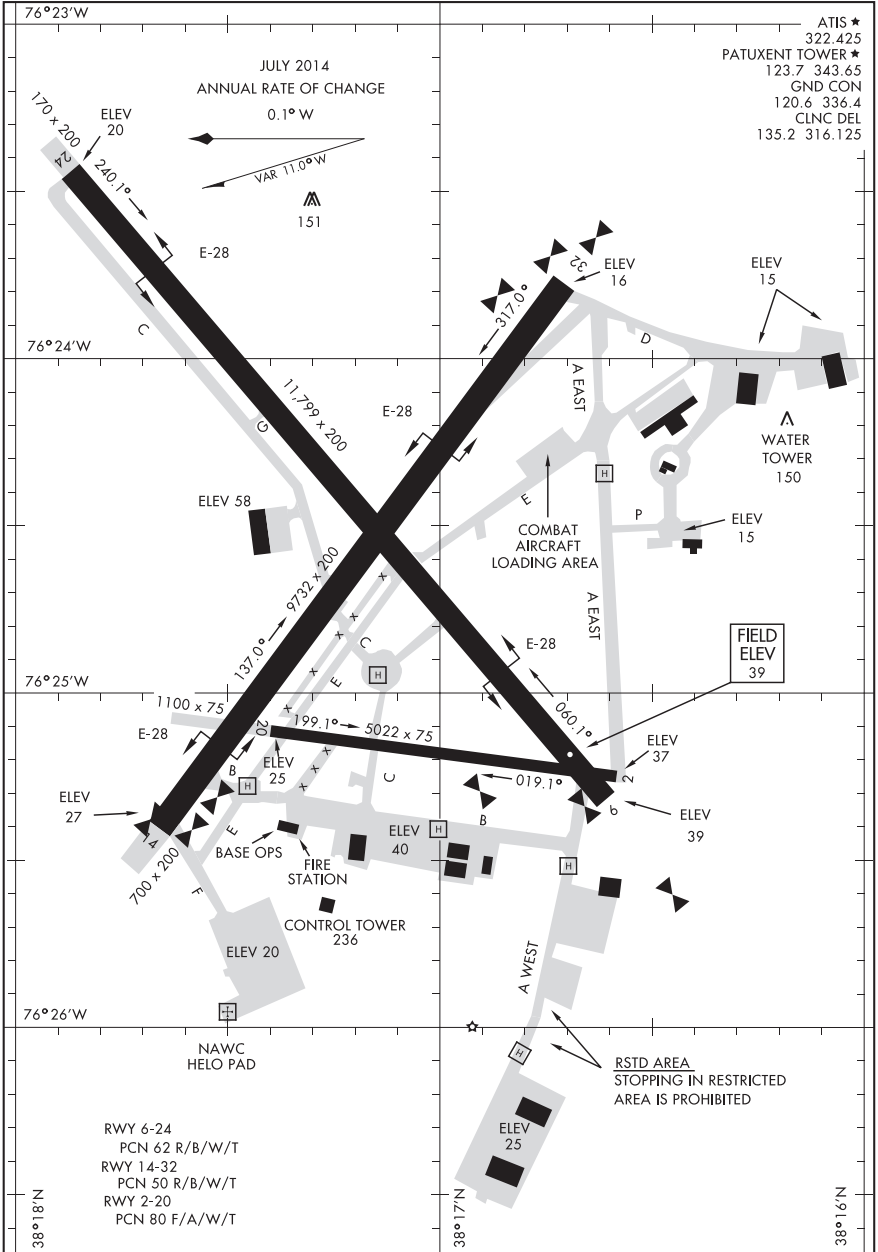
14205

PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

# AIRPORT DIAGRAM

AFD-314 [USN]

PATUXENT RIVER, MARYLAND



# AIRPORT DIAGRAM

PATUXENT RIVER, MARYLAND

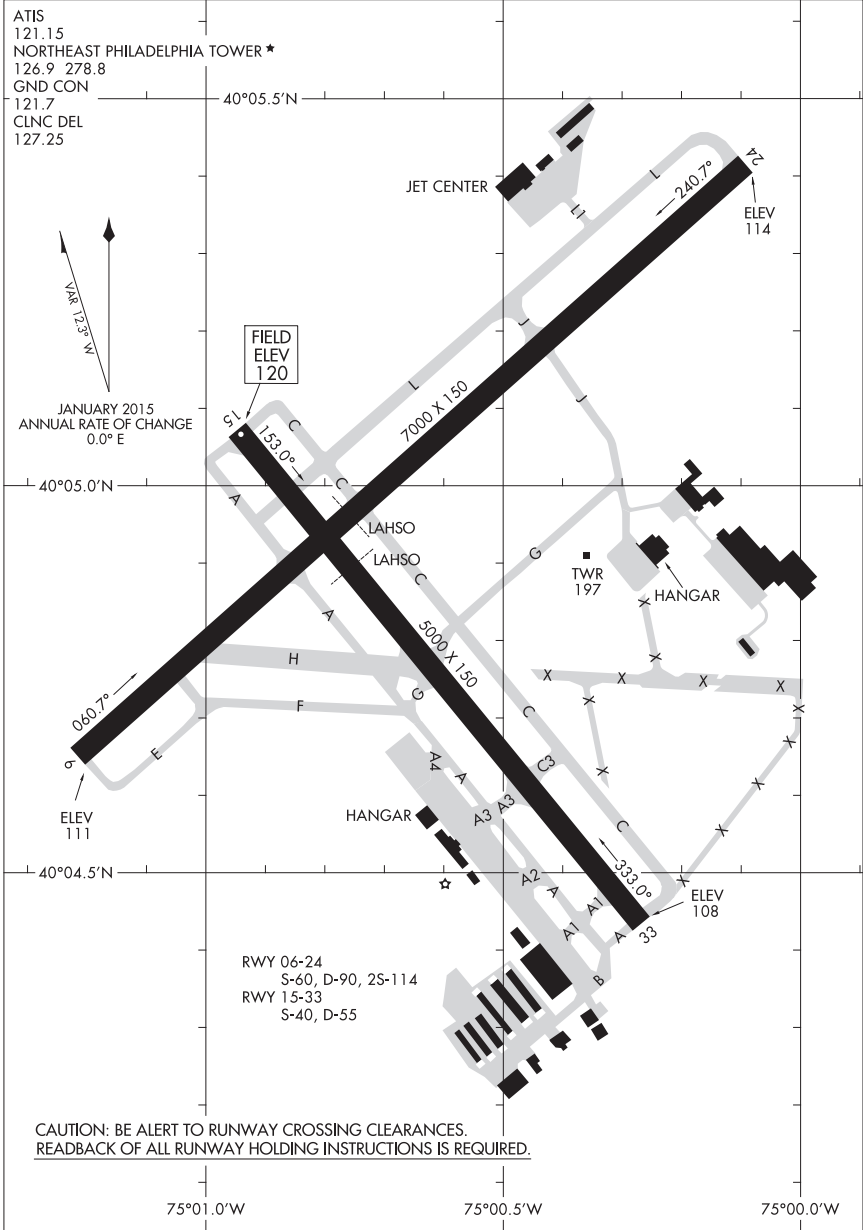
PATUXENT RIVER NAS (TRAPNELL FIELD) (KNHK)

16147

AIRPORT DIAGRAM

AL-528 (FAA)

NORTHEAST PHILADELPHIA (PNE)  
PHILADELPHIA, PENNSYLVANIA



AIRPORT DIAGRAM

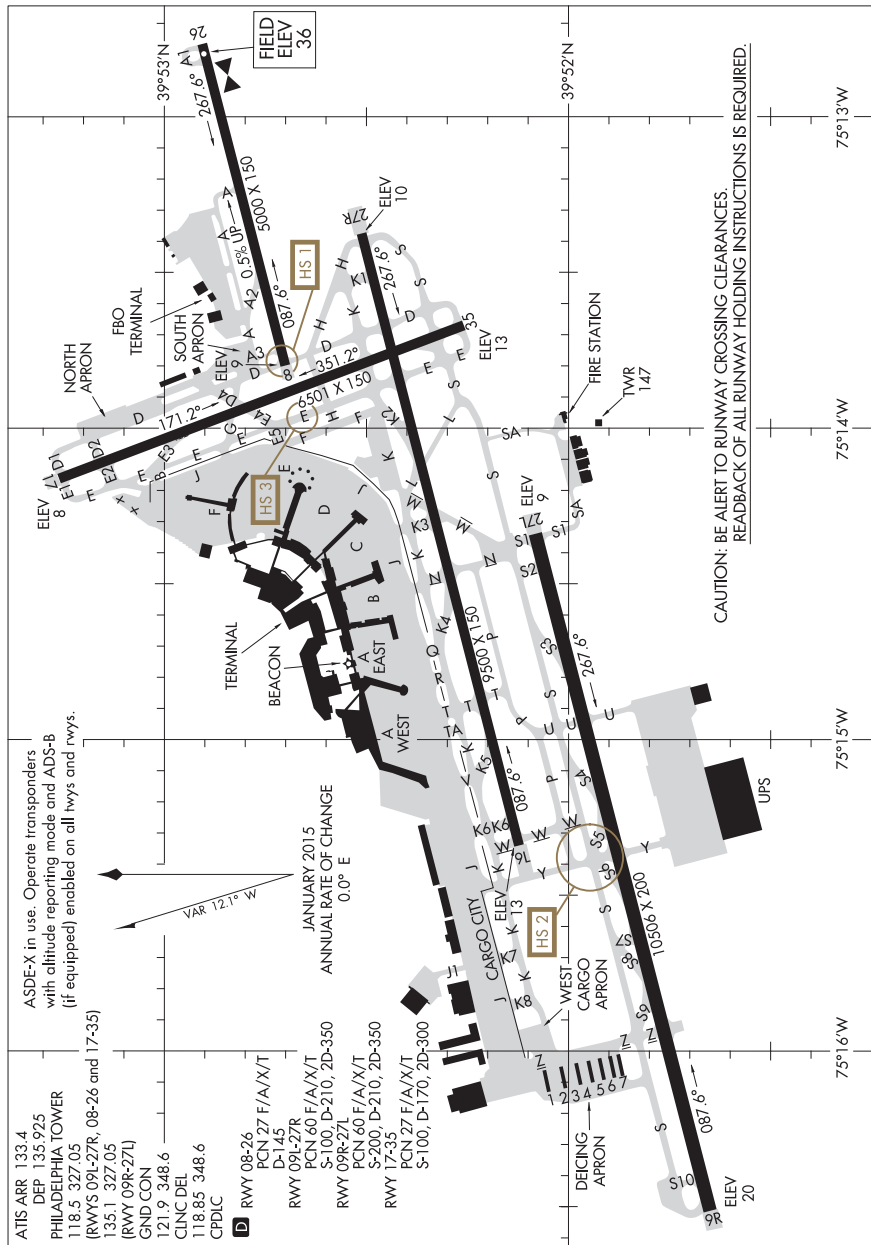
16147

PHILADELPHIA, PENNSYLVANIA  
NORTHEAST PHILADELPHIA (PNE)

# AIRPORT DIAGRAM

AL-320 (FAA)

PHILADELPHIA INTL (PHL)  
PHILADELPHIA, PENNSYLVANIA



# AIRPORT DIAGRAM

16147

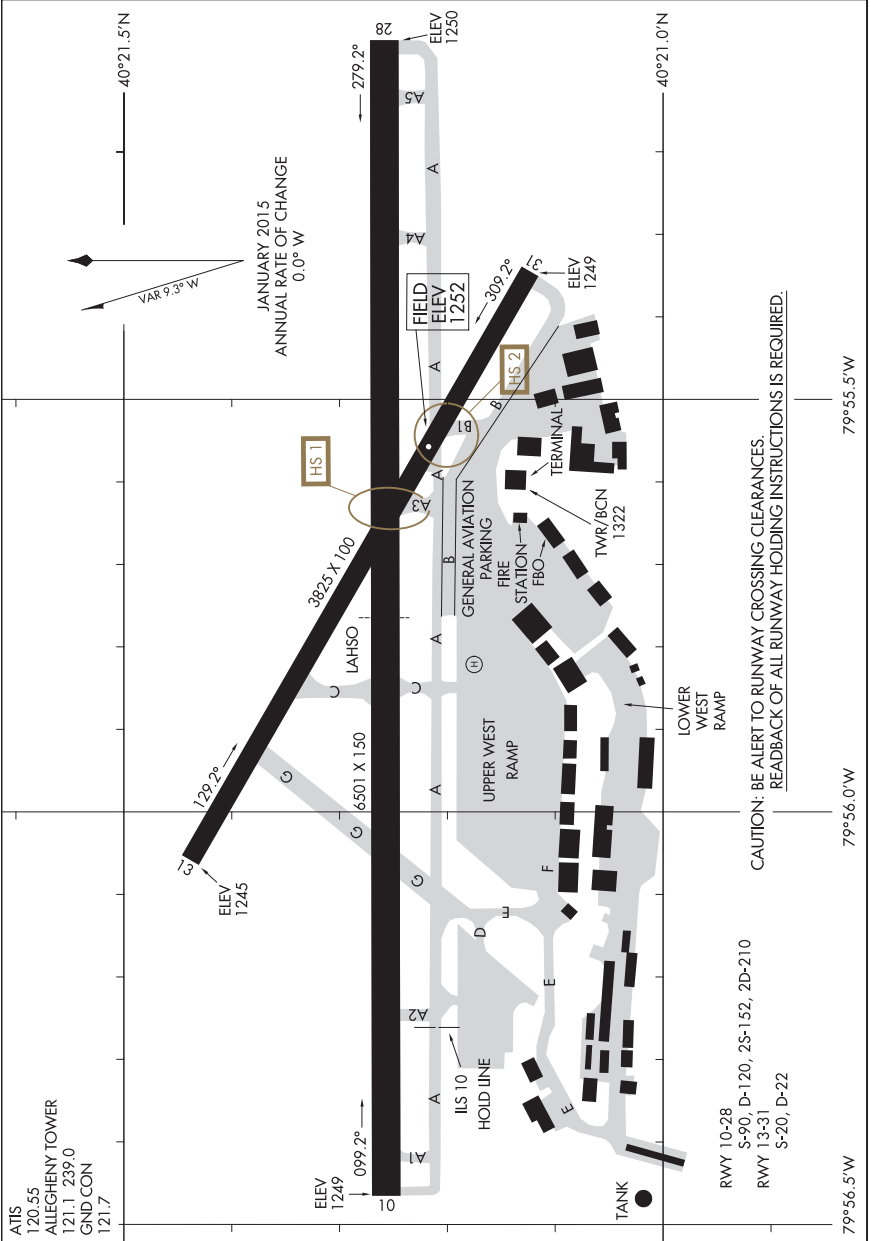
PHILADELPHIA, PENNSYLVANIA  
PHILADELPHIA INTL (PHL)

16147

AIRPORT DIAGRAM

AL-326 (FAA)

ALLEGHENY COUNTY (AGC)  
PITTSBURGH, PENNSYLVANIA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

AIRPORT DIAGRAM

PITTSBURGH, PENNSYLVANIA  
ALLEGHENY COUNTY (AGC)

16147

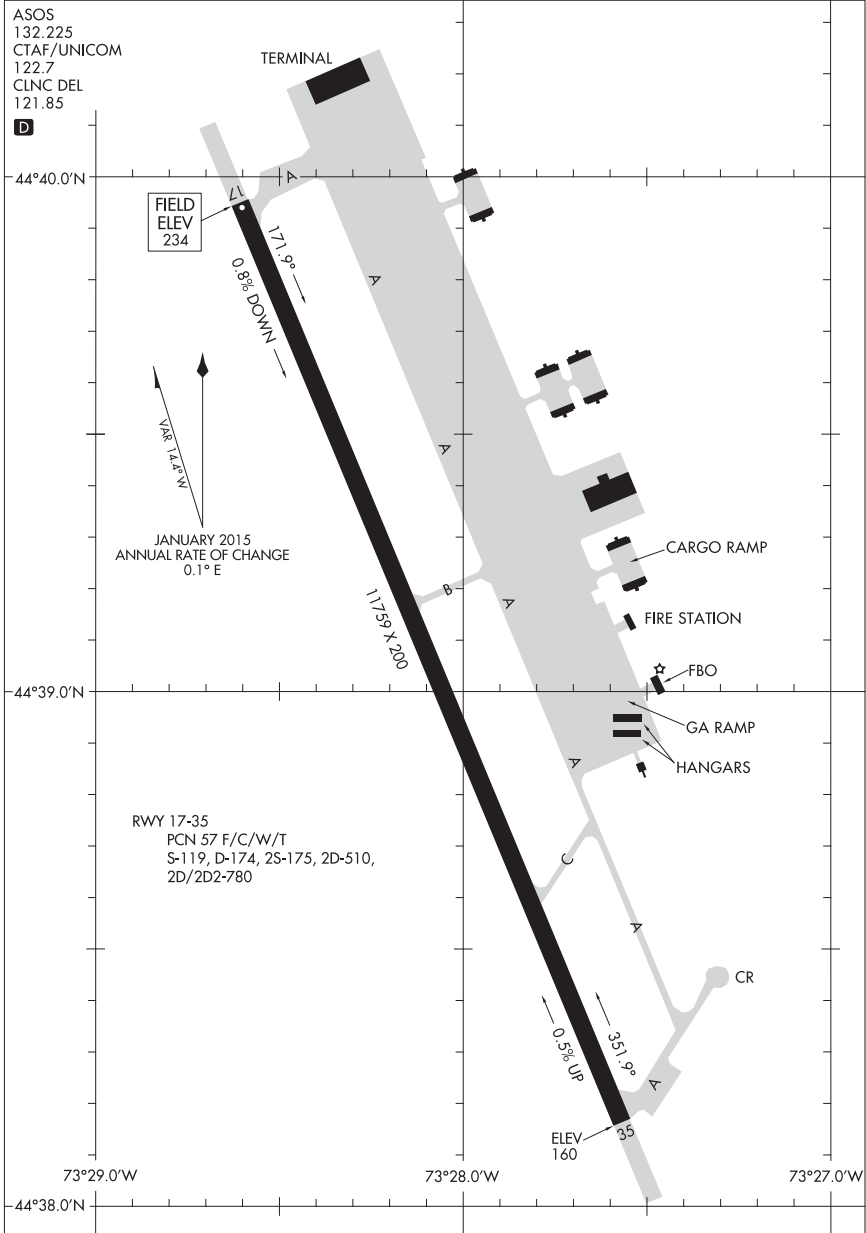


16203

AIRPORT DIAGRAM

AL-729 (FAA)

PLATTSBURGH INTL (PBG)  
PLATTSBURGH, NEW YORK



AIRPORT DIAGRAM

16203

PLATTSBURGH, NEW YORK  
PLATTSBURGH INTL (PBG)



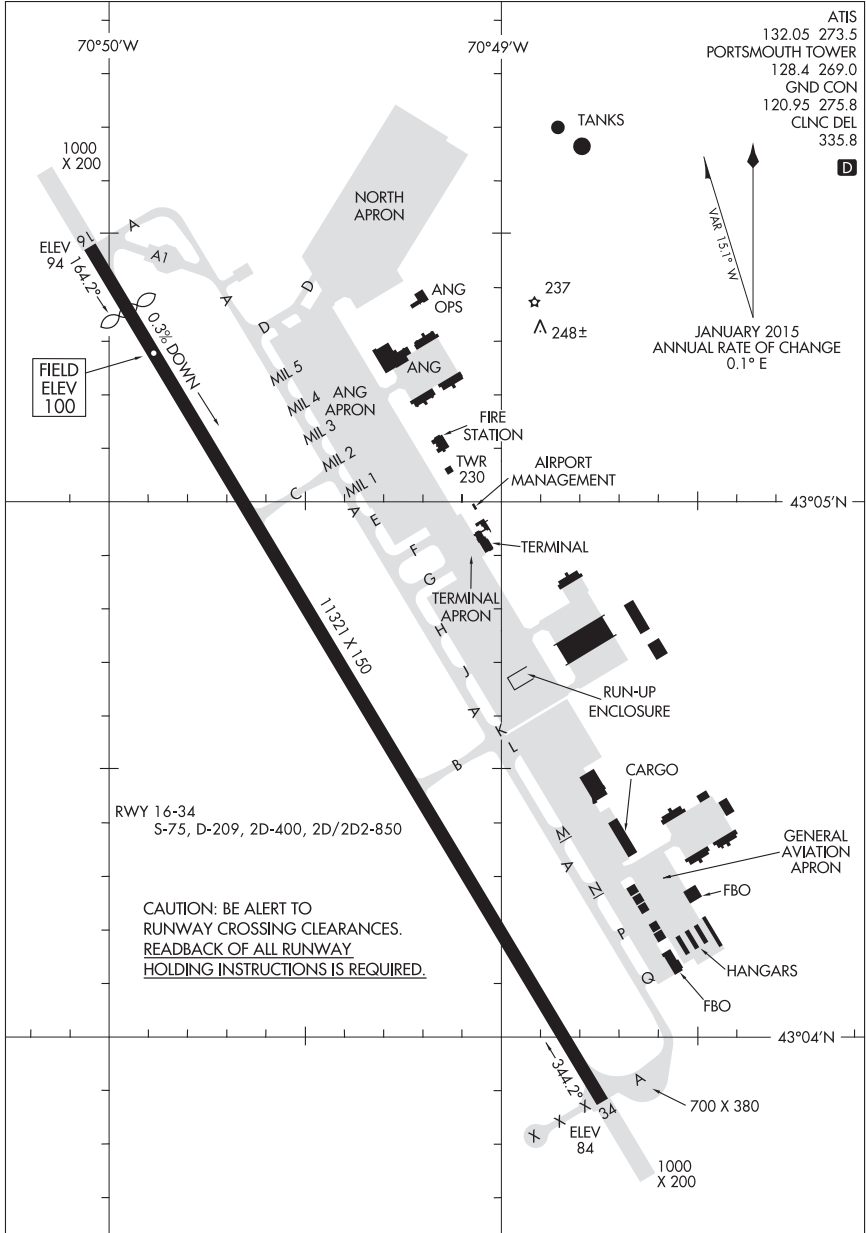


15232

AIRPORT DIAGRAM

AL-678 (FAA)

PORTSMOUTH INTL AT PEASE (PSM)  
PORTSMOUTH, NEW HAMPSHIRE



AIRPORT DIAGRAM

15232

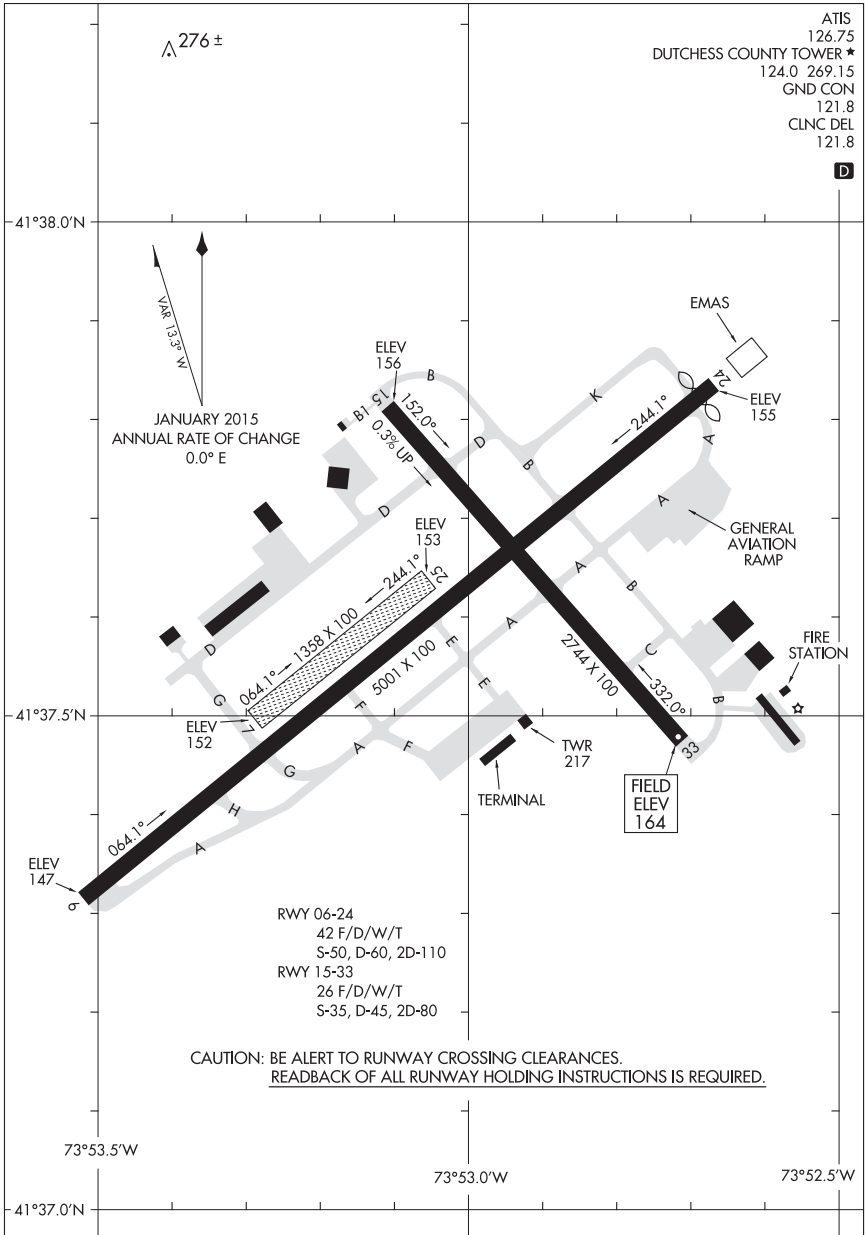
PORTSMOUTH, NEW HAMPSHIRE  
PORTSMOUTH INTL AT PEASE (PSM)

15176

AIRPORT DIAGRAM

AL-286 (FAA)

DUTCHESS COUNTY (POU)  
POUGHKEEPSIE, NEW YORK



AIRPORT DIAGRAM

15176

POUGHKEEPSIE, NEW YORK  
DUTCHESS COUNTY (POU)

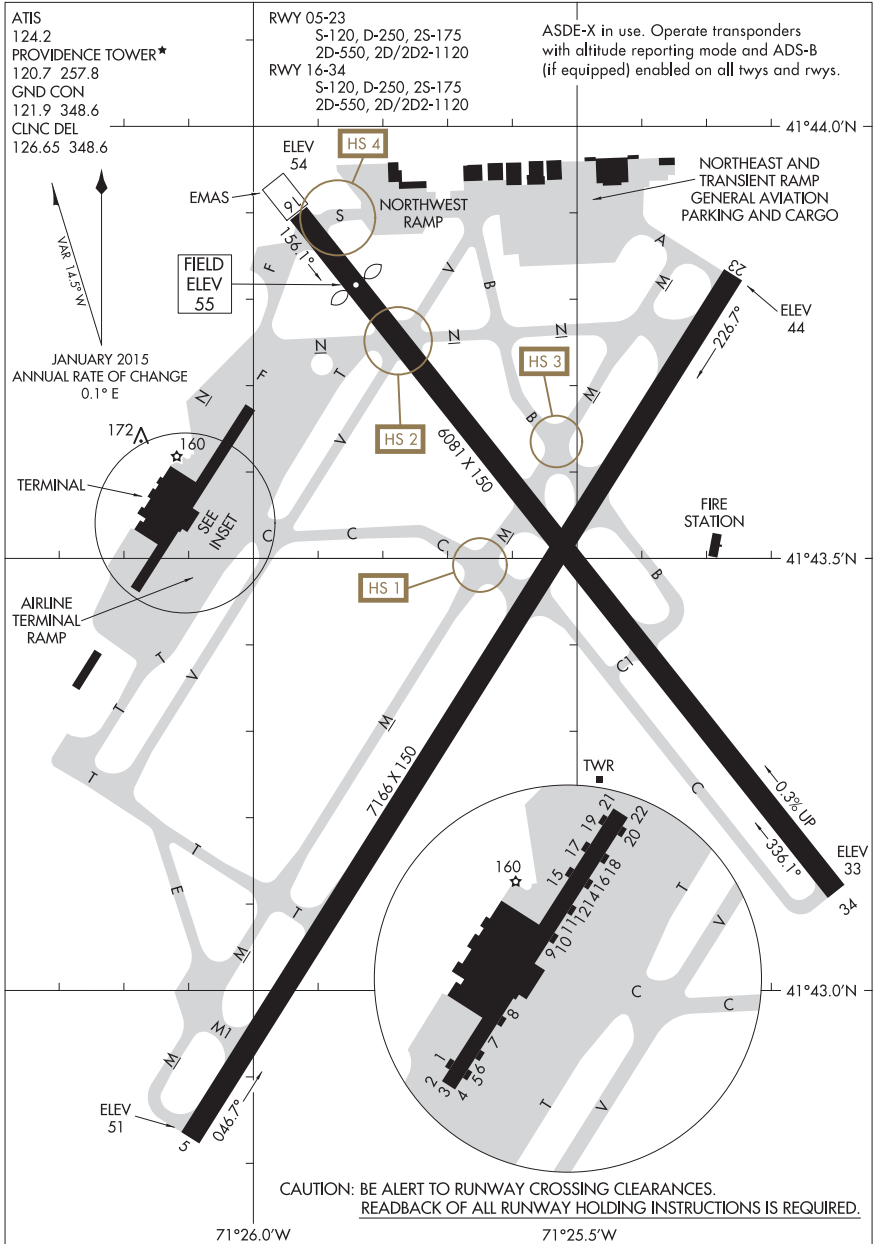
16147

AIRPORT DIAGRAM

THEODORE FRANCIS GREEN STATE (PVD)

AL-333 (FAA)

PROVIDENCE, RHODE ISLAND



AIRPORT DIAGRAM

16147

PROVIDENCE, RHODE ISLAND

THEODORE FRANCIS GREEN STATE (PVD)

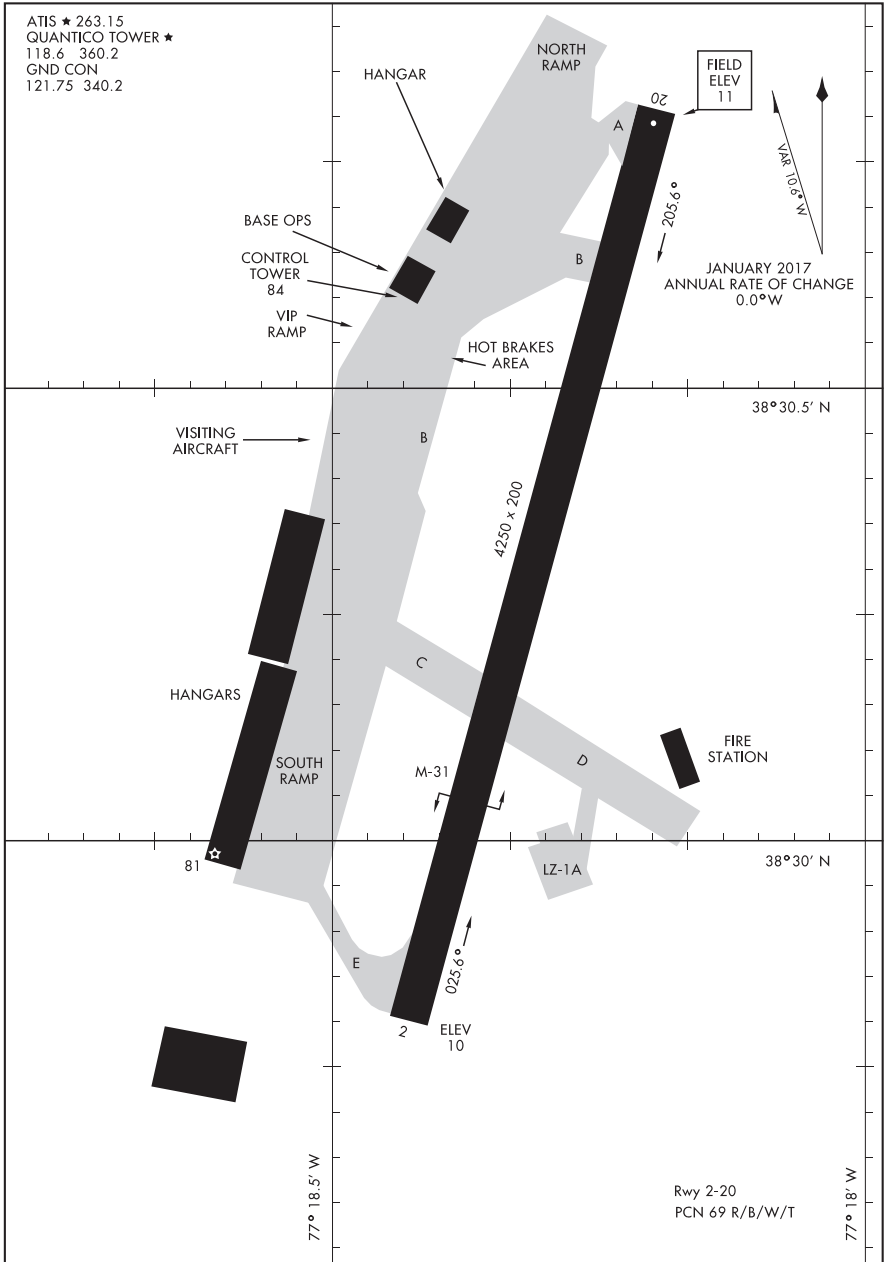
17005

QUANTICO MCAF (TURNER FIELD) (KNYG)

AIRPORT DIAGRAM

AFD-339 [USN]

QUANTICO, VIRGINIA



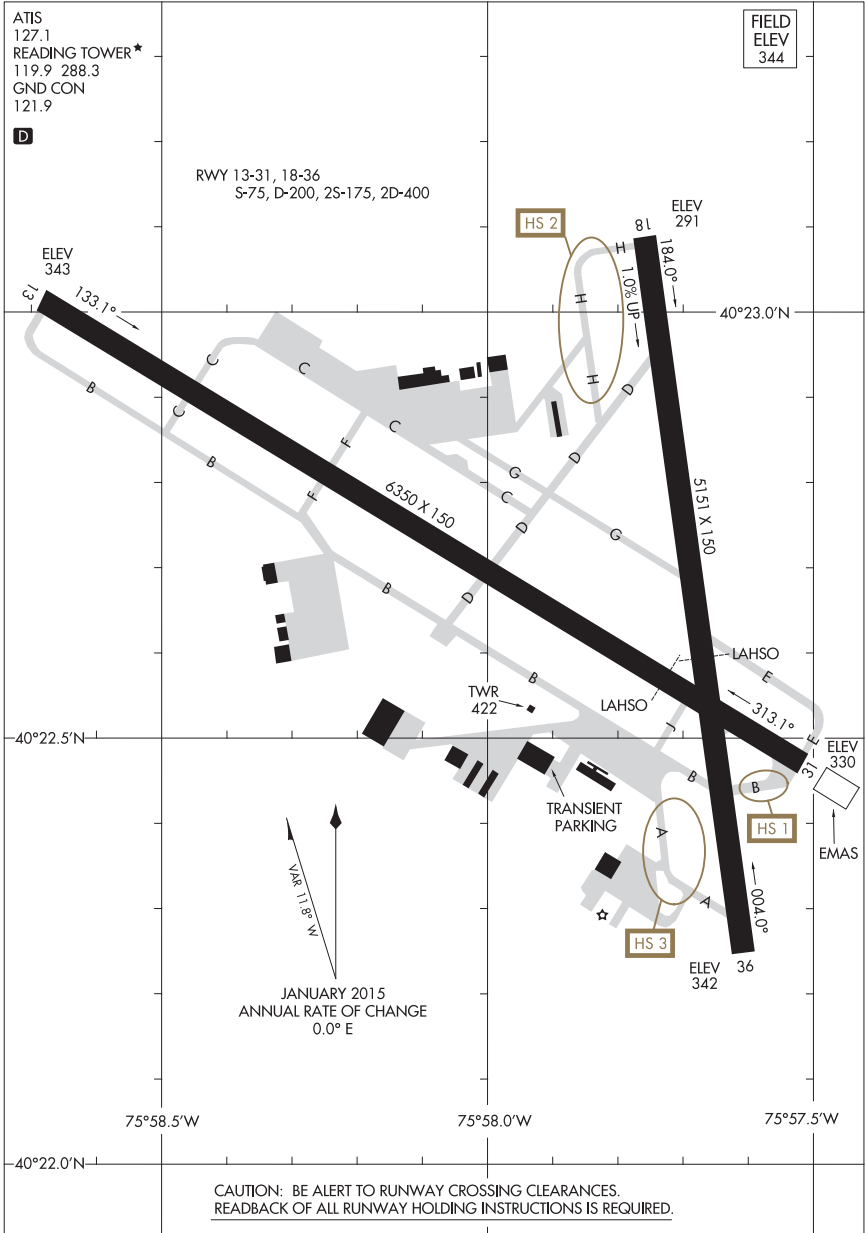
AIRPORT DIAGRAM

QUANTICO, VIRGINIA  
 QUANTICO MCAF (TURNER FIELD) (KNYG)

15064

AIRPORT DIAGRAM

READING RGNL/CARL A SPAATZ FIELD (RDG)  
AL-627 (FAA) READING, PENNSYLVANIA



AIRPORT DIAGRAM

15064

READING, PENNSYLVANIA  
READING RGNL/CARL A SPAATZ FIELD (RDG)

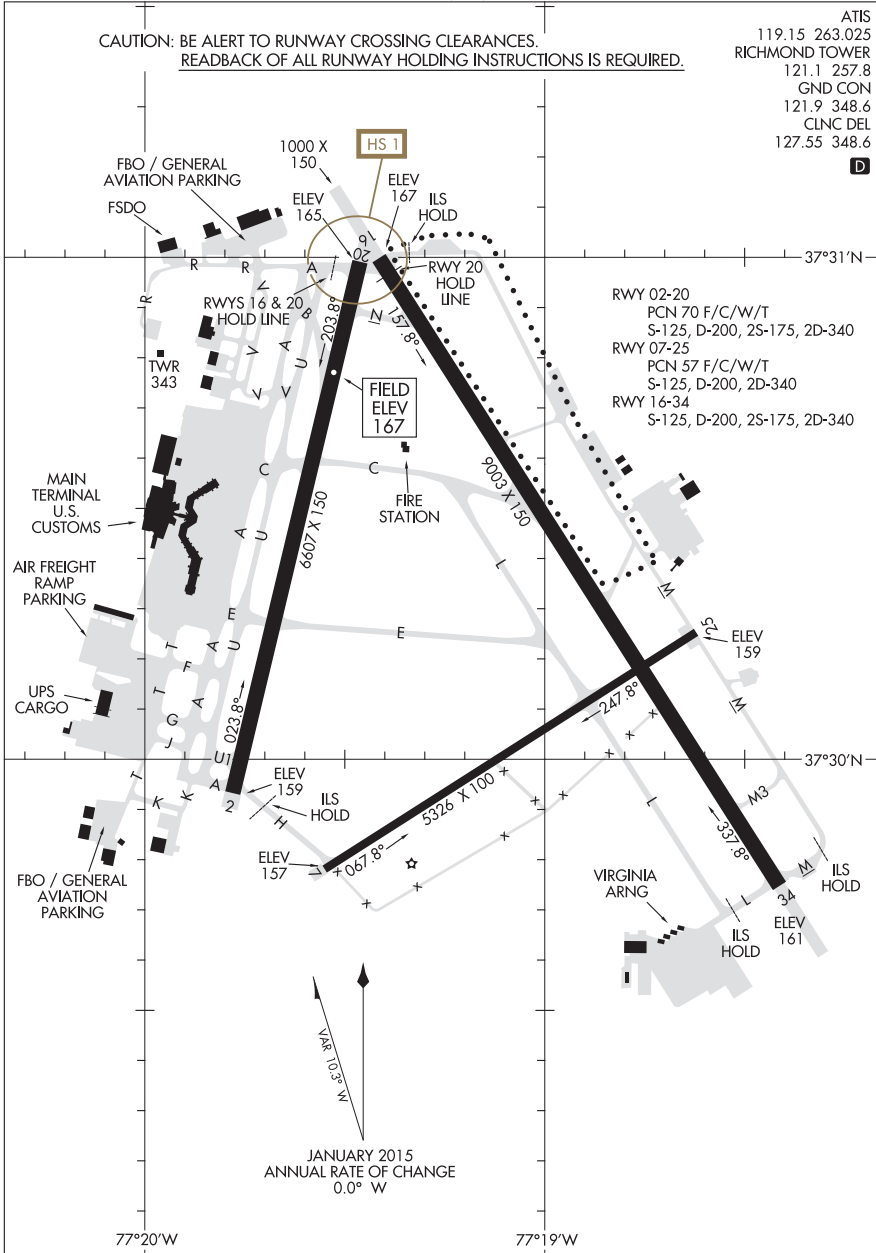
15232  
AIRPORT DIAGRAM

AL-347 (FAA)

RICHMOND INTL (RIC)  
RICHMOND, VIRGINIA

ATIS 119.15 263.025  
 RICHMOND TOWER 121.1 257.8  
 GND CON 121.9 348.6  
 CLNC DEL 127.55 348.6

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



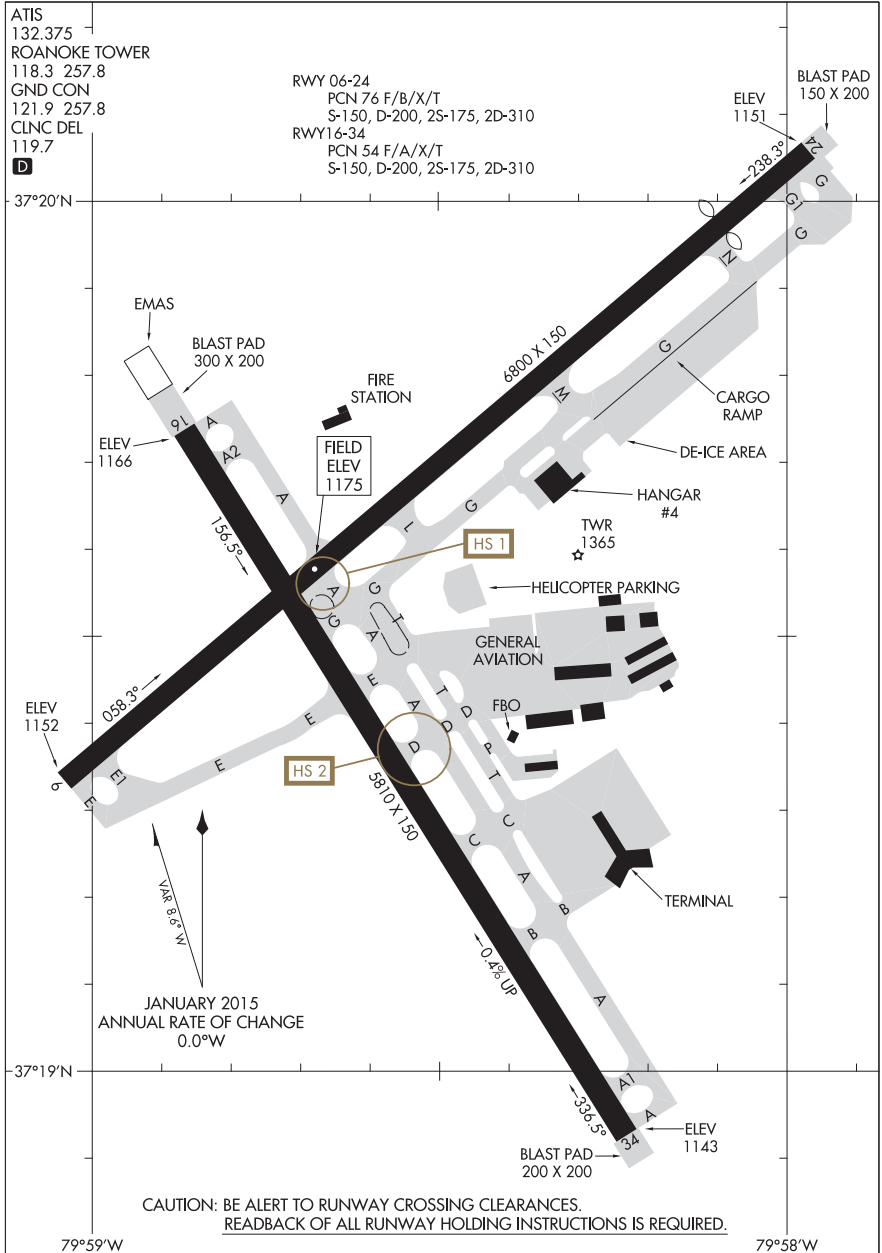
AIRPORT DIAGRAM  
15232

RICHMOND, VIRGINIA  
RICHMOND INTL (RIC)

17005

AIRPORT DIAGRAM

ROANOKE-BLACKSBURG RGNL/WOODRUM FIELD (R.O.A.)  
AL-349 (FAA) ROANOKE, VIRGINIA



AIRPORT DIAGRAM

17005

ROANOKE-BLACKSBURG RGNL/WOODRUM FIELD (R.O.A.)  
ROANOKE, VIRGINIA

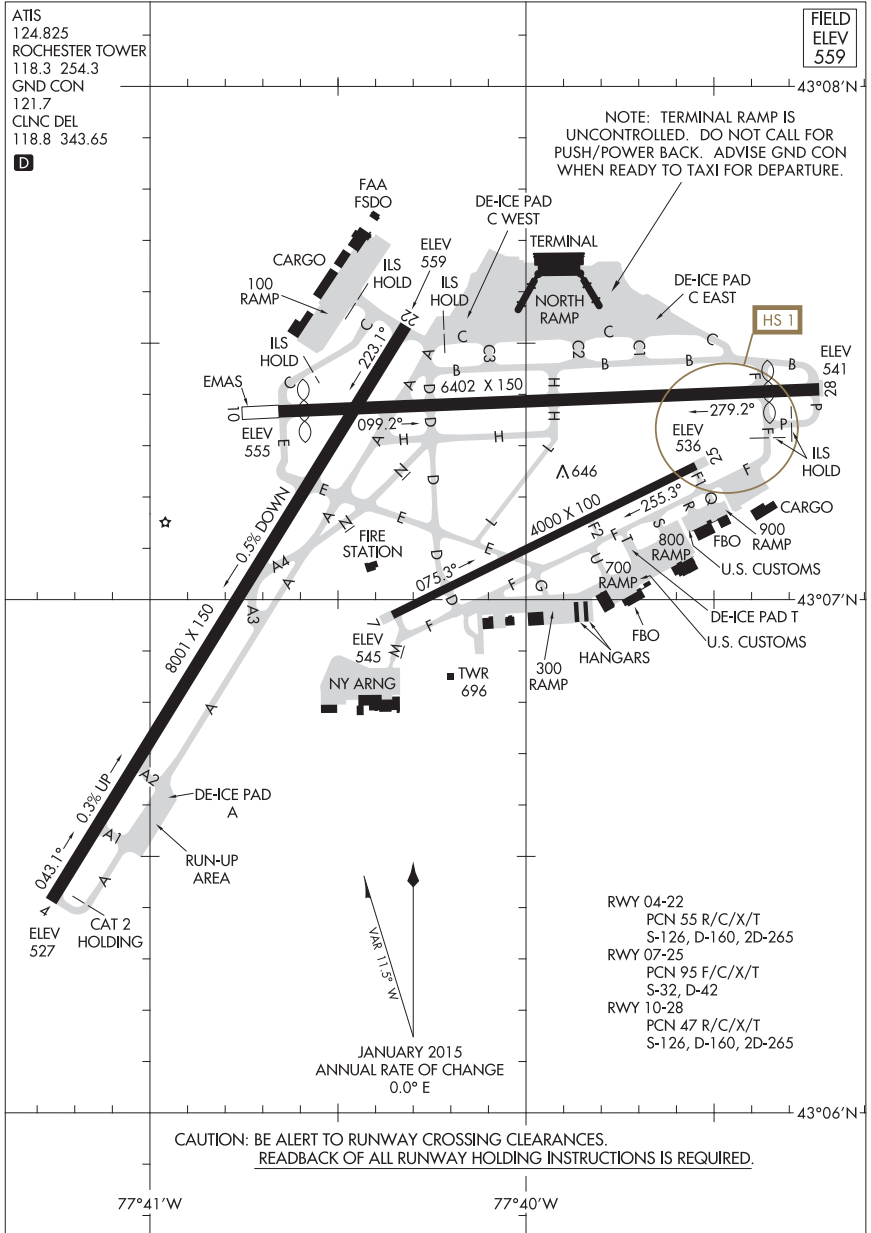


16259

AIRPORT DIAGRAM

AL-351 (FAA)

GREATER ROCHESTER INTL (ROC)  
ROCHESTER, NEW YORK



AIRPORT DIAGRAM

16259

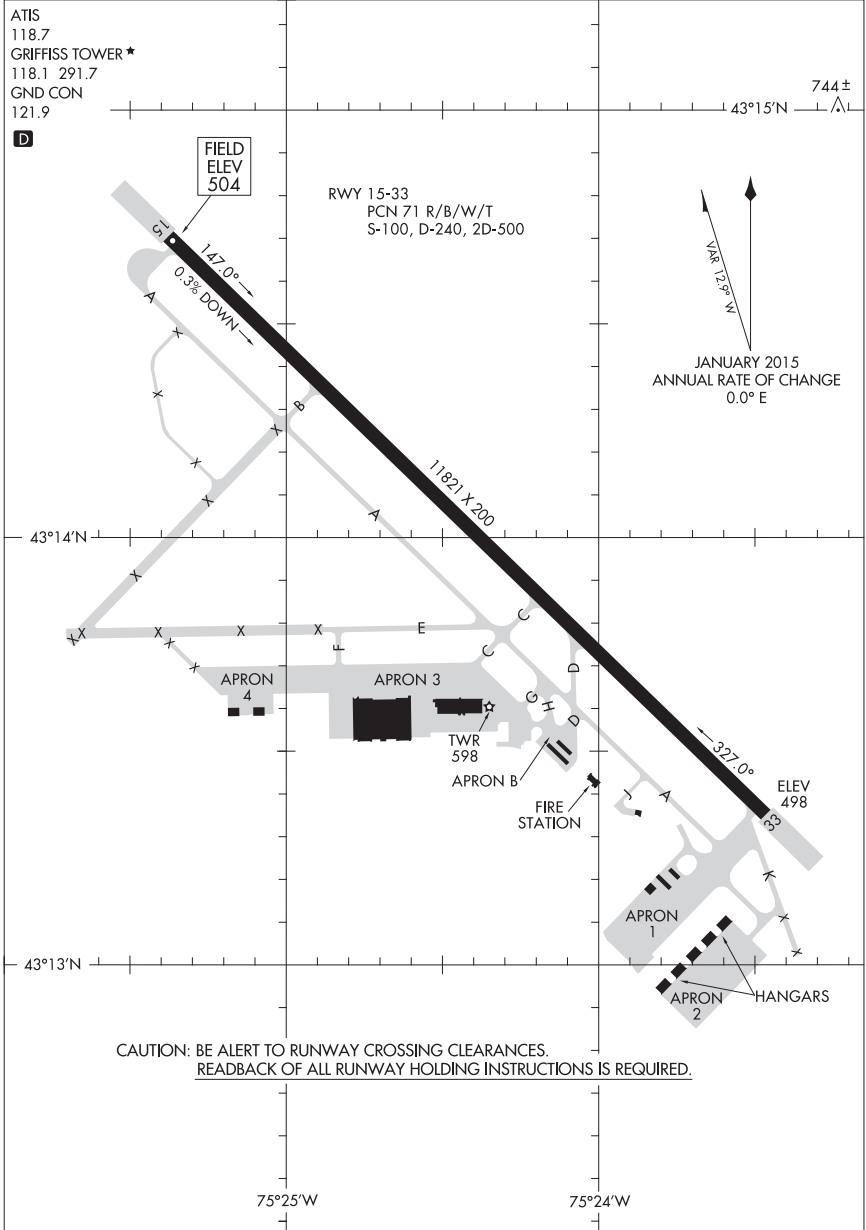
ROCHESTER, NEW YORK  
GREATER ROCHESTER INTL (ROC)

15064

AIRPORT DIAGRAM

AL-9515 (FAA)

GRIFFISS INTL (R.M.E)  
ROME, NEW YORK



AIRPORT DIAGRAM

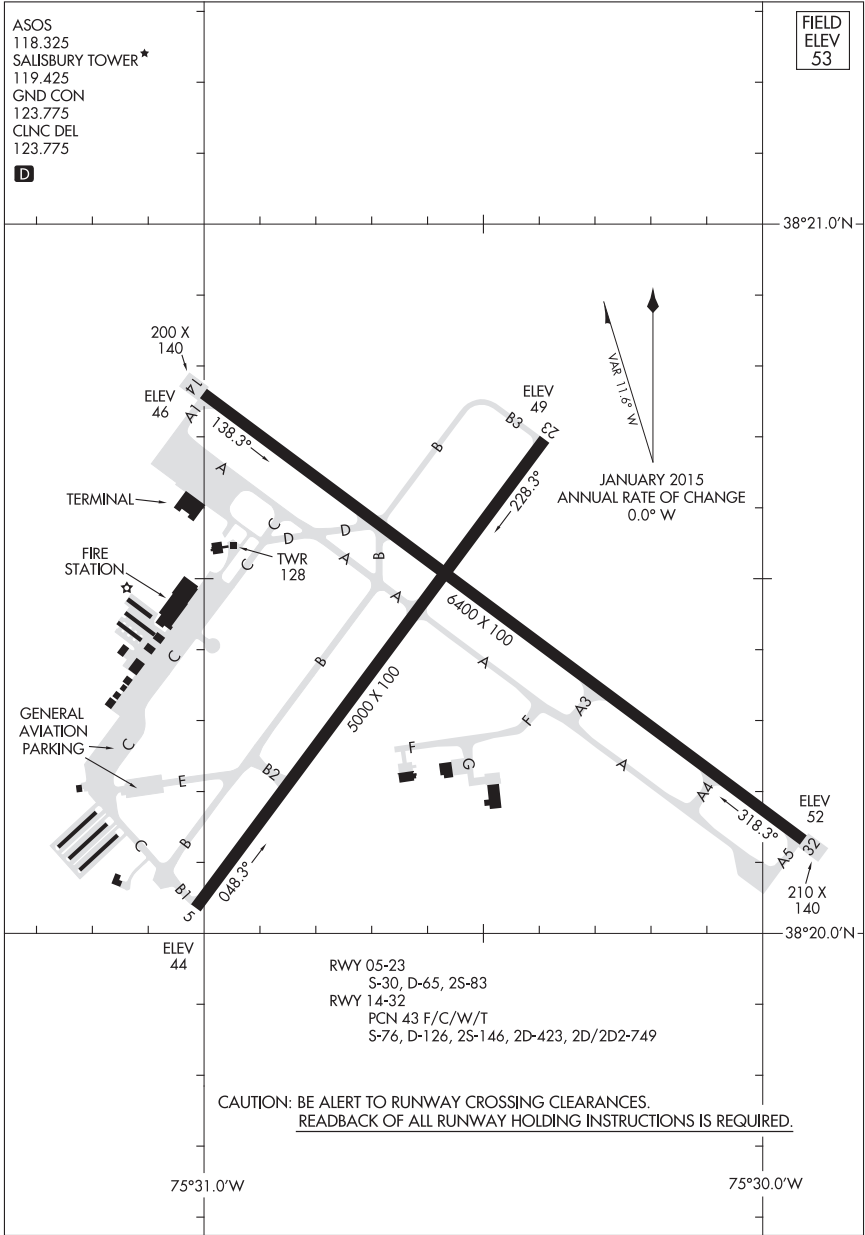
15064

ROME, NEW YORK  
GRIFFISS INTL (R.M.E)

15176

# AIRPORT DIAGRAM

SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)  
AL-977 (FAA)  
SALISBURY, MARYLAND



# AIRPORT DIAGRAM

15176

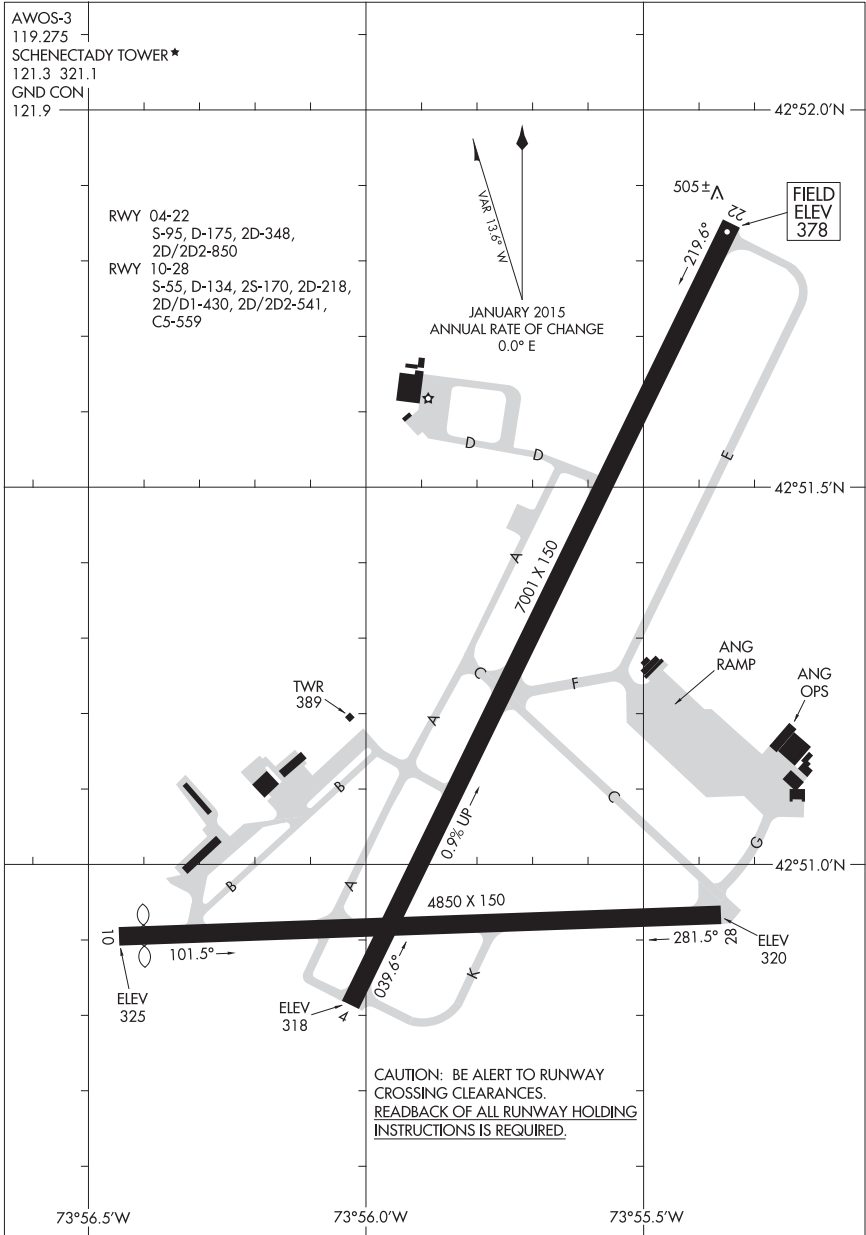
SALISBURY, MARYLAND  
SALISBURY-OCEAN CITY WICOMICO RGNL (SBY)

17005

AIRPORT DIAGRAM

AL-382 (FAA)

SCHENECTADY COUNTY (SCH)  
SCHENECTADY, NEW YORK



AIRPORT DIAGRAM

17005

SCHENECTADY, NEW YORK  
SCHENECTADY COUNTY (SCH)

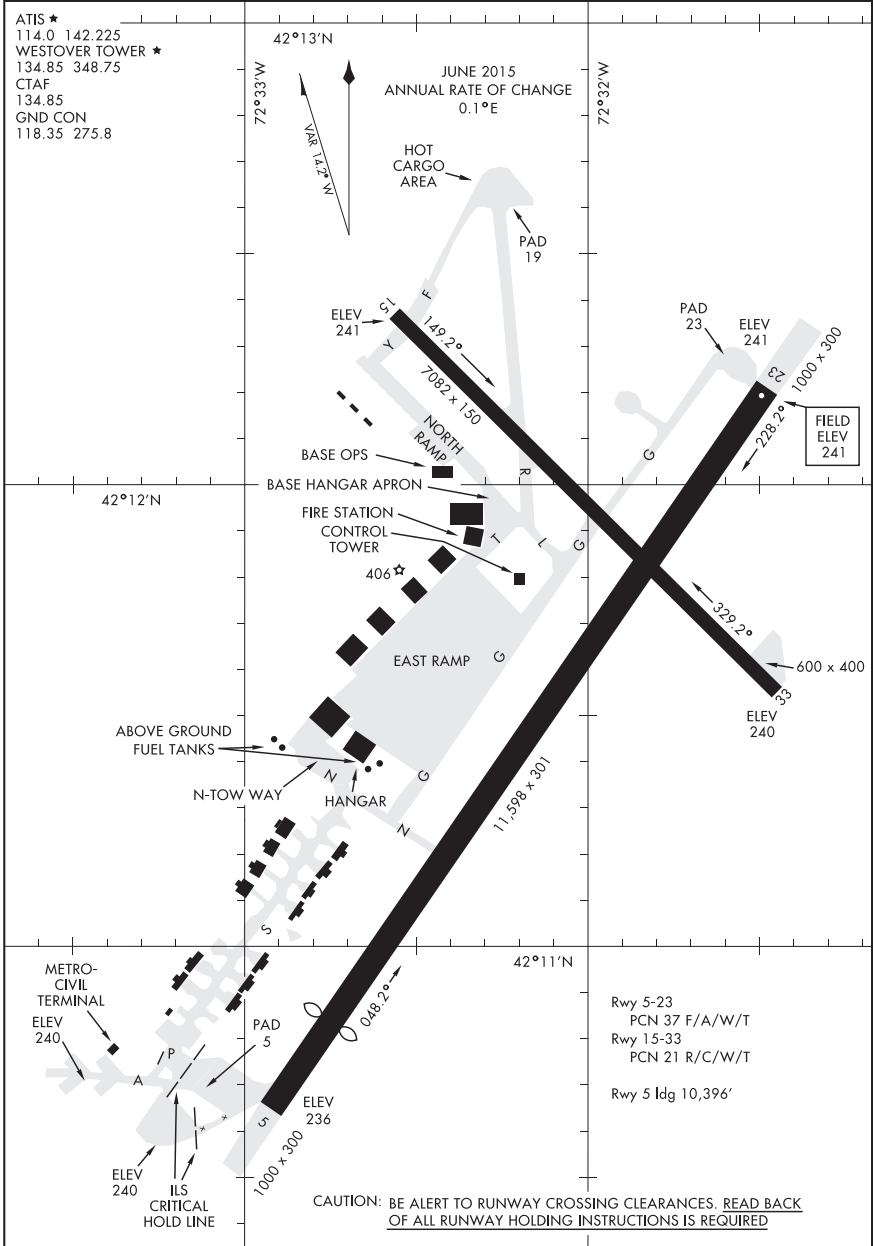
15176

WESTOVER ARB/METROPOLITAN (KCEF)

AIRPORT DIAGRAM

AFD-447 [USAF]

SPRINGFIELD/CHICOPEE, MASSACHUSETTS



AIRPORT DIAGRAM

SPRINGFIELD/CHICOPEE, MASSACHUSETTS

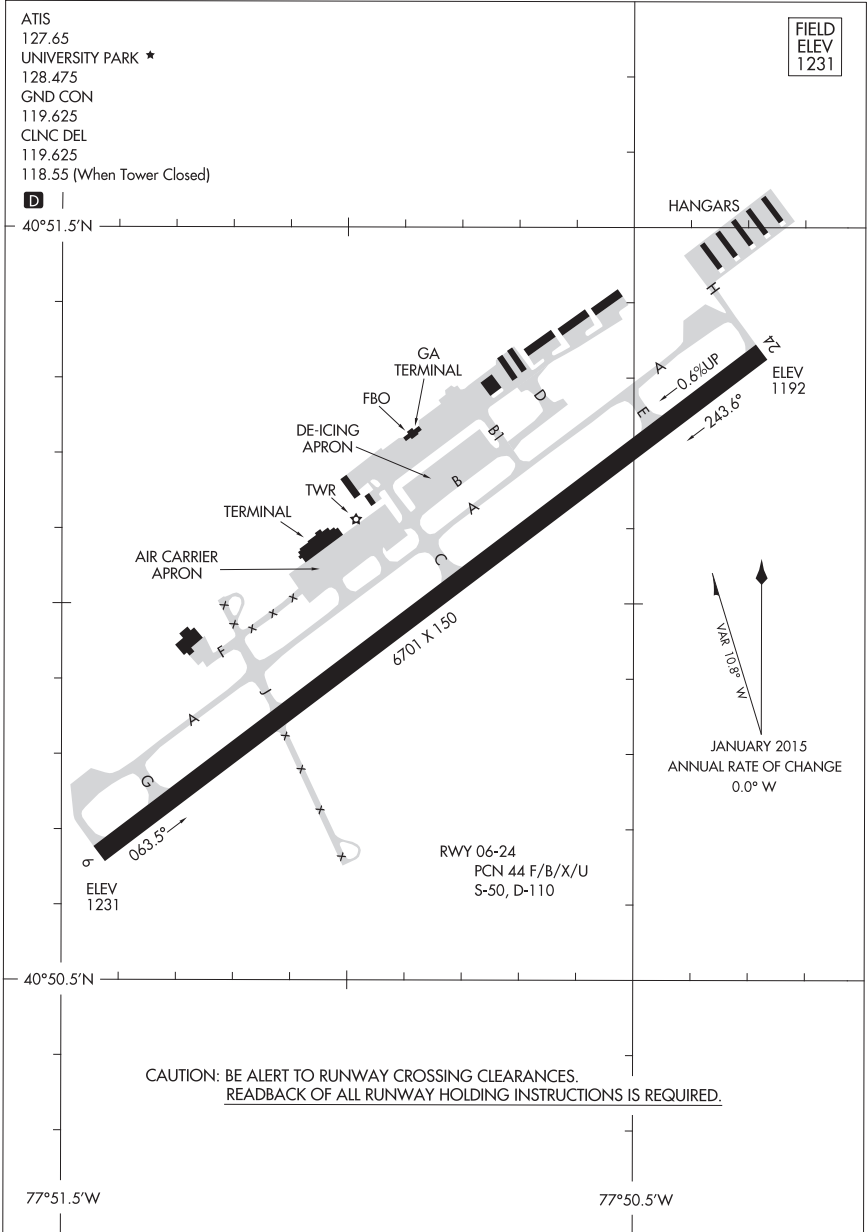
WESTOVER ARB/METROPOLITAN (KCEF)

17005

AIRPORT DIAGRAM

AL-5240 (FAA)

UNIVERSITY PARK (UNV)  
STATE COLLEGE, PENNSYLVANIA



AIRPORT DIAGRAM

17005

STATE COLLEGE, PENNSYLVANIA  
UNIVERSITY PARK (UNV)

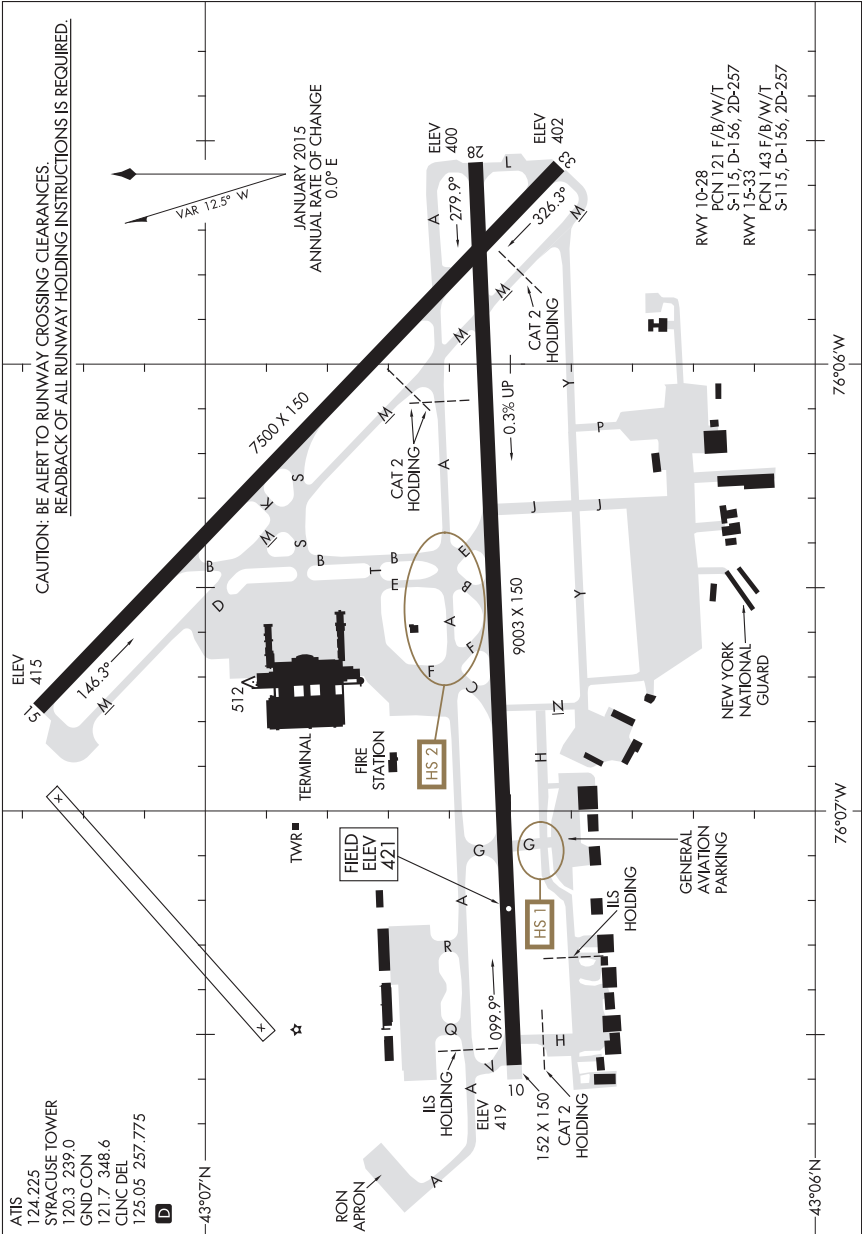
15232

AIRPORT DIAGRAM

AL-411 (FAA)

SYRACUSE HANCOCK INTL (SYR)

SYRACUSE, NEW YORK



AIRPORT DIAGRAM

15232

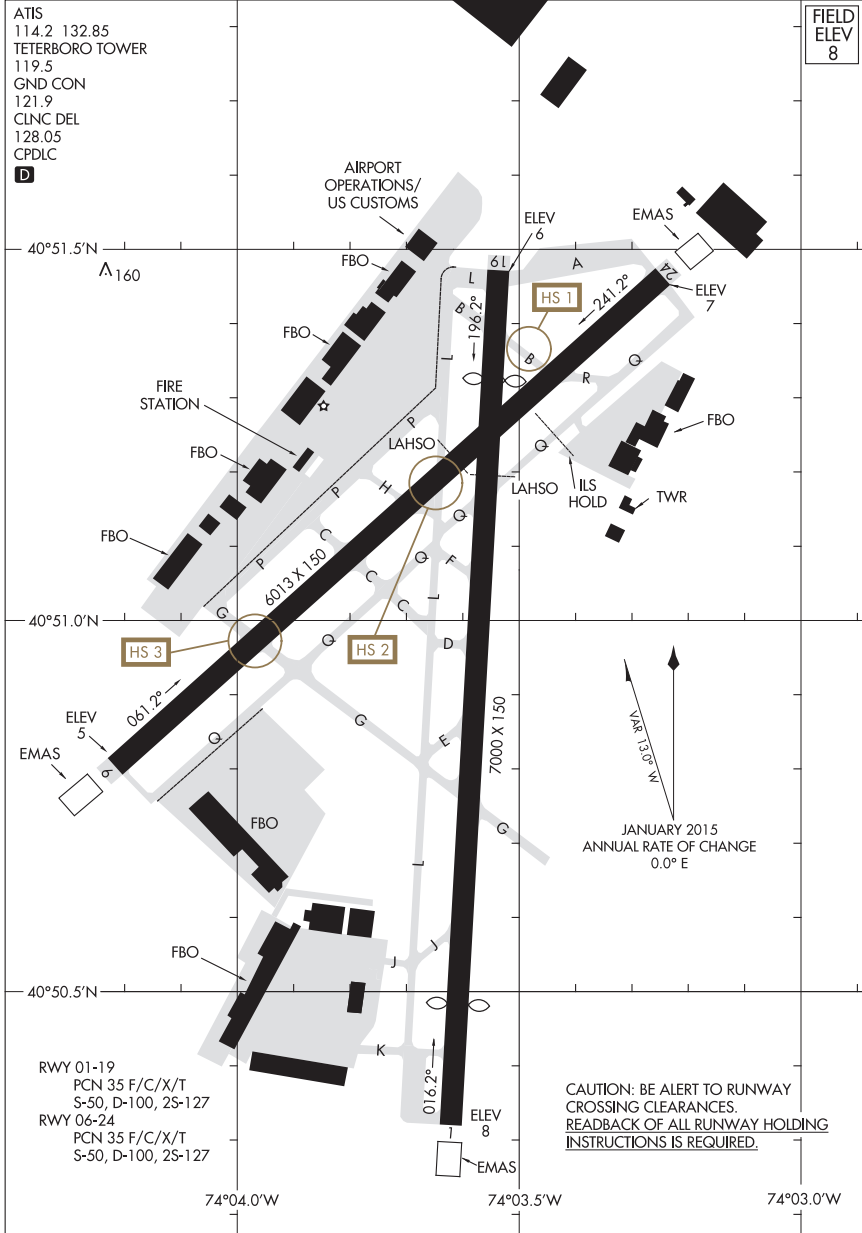
SYRACUSE, NEW YORK  
SYRACUSE HANCOCK INTL (SYR)

16091

AIRPORT DIAGRAM

AL-890 (FAA)

TETERBORO (TEB)  
TETERBORO, NEW JERSEY



FIELD  
ELEV  
8

AIRPORT DIAGRAM

16091

TETERBORO, NEW JERSEY  
TETERBORO (TEB)

CAUTION: BE ALERT TO RUNWAY  
CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING  
INSTRUCTIONS IS REQUIRED.

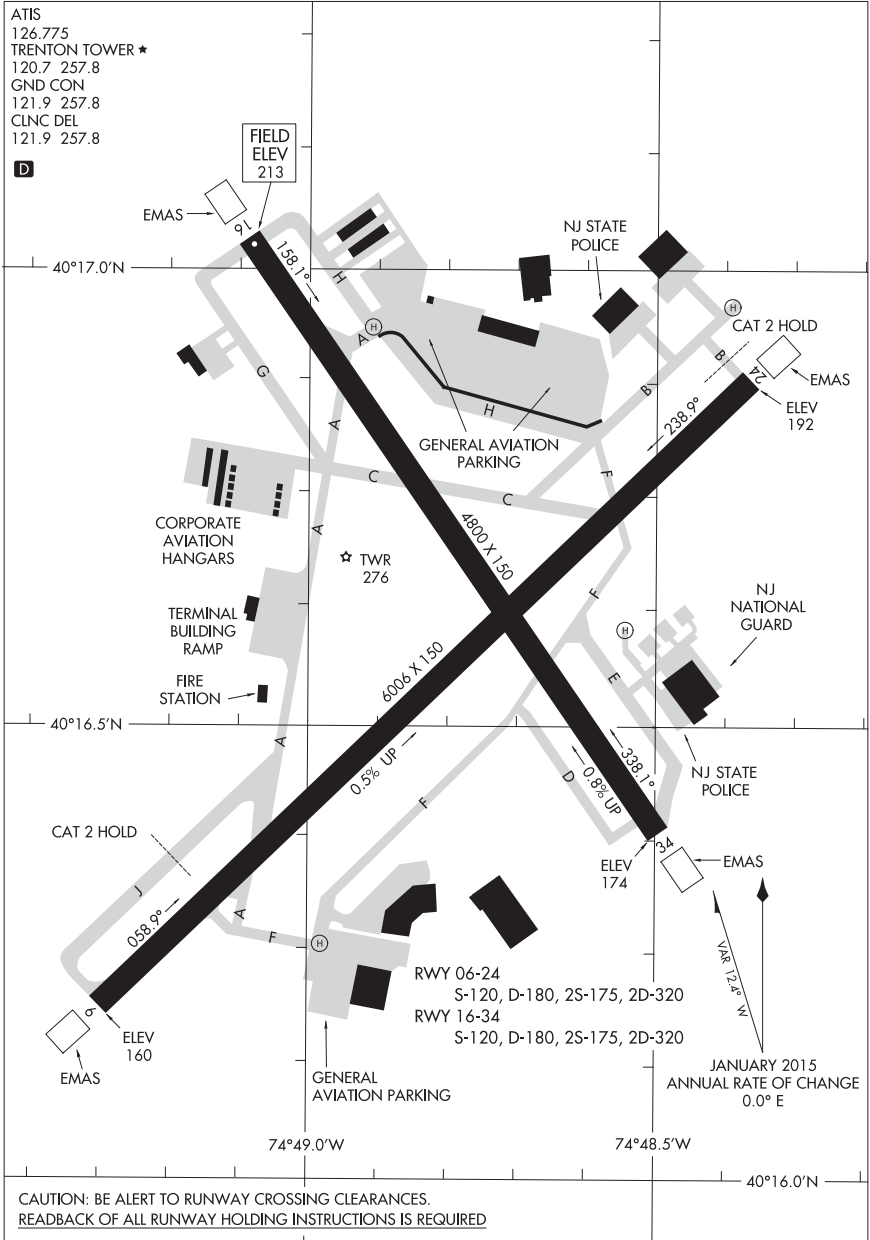


16147

AIRPORT DIAGRAM

AL-982 (FAA)

TRENTON MERCER (TTN)  
TRENTON, NEW JERSEY



AIRPORT DIAGRAM

16147

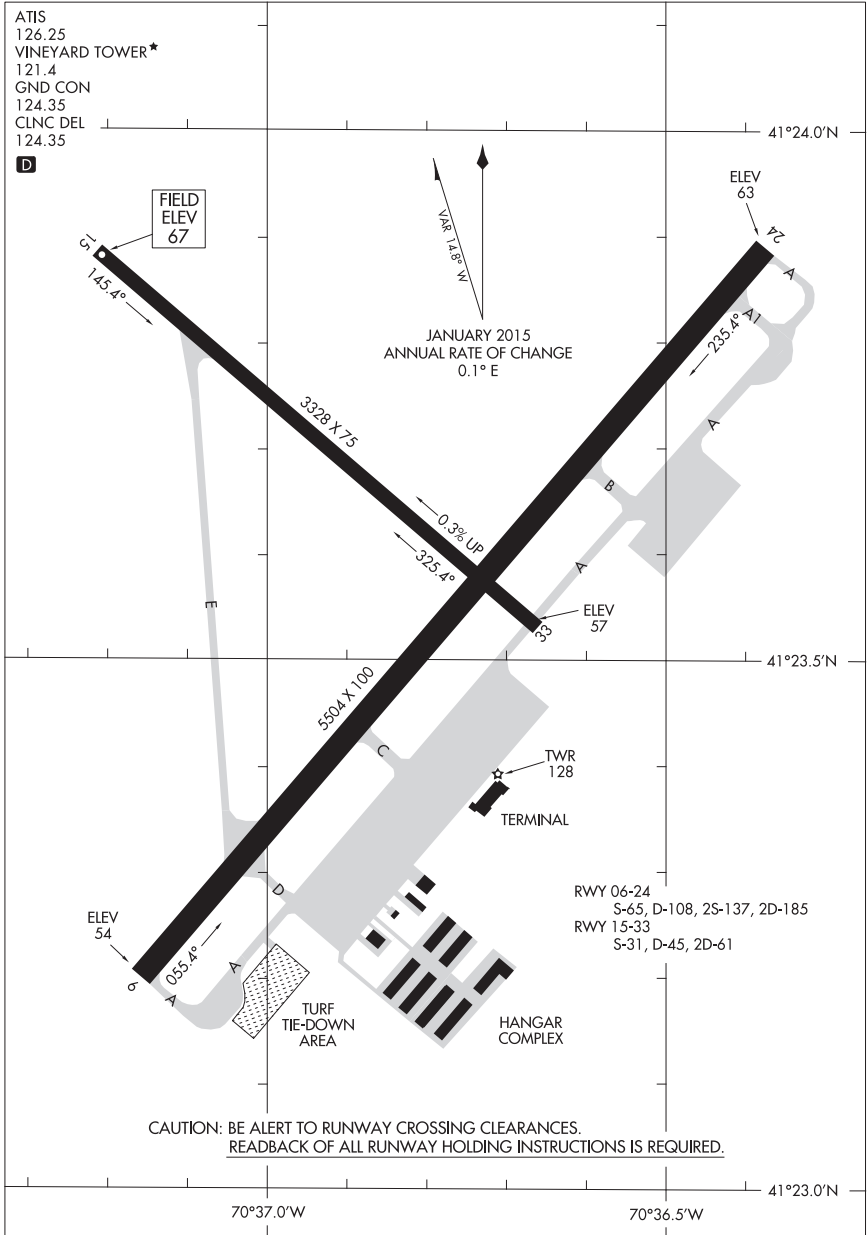
TRENTON, NEW JERSEY  
TRENTON MERCER (TTN)

17005

AIRPORT DIAGRAM

AL-694 (FAA)

MARTHAS VINEYARD (MVY)  
VINEYARD HAVEN, MASSACHUSETTS



AIRPORT DIAGRAM

17005

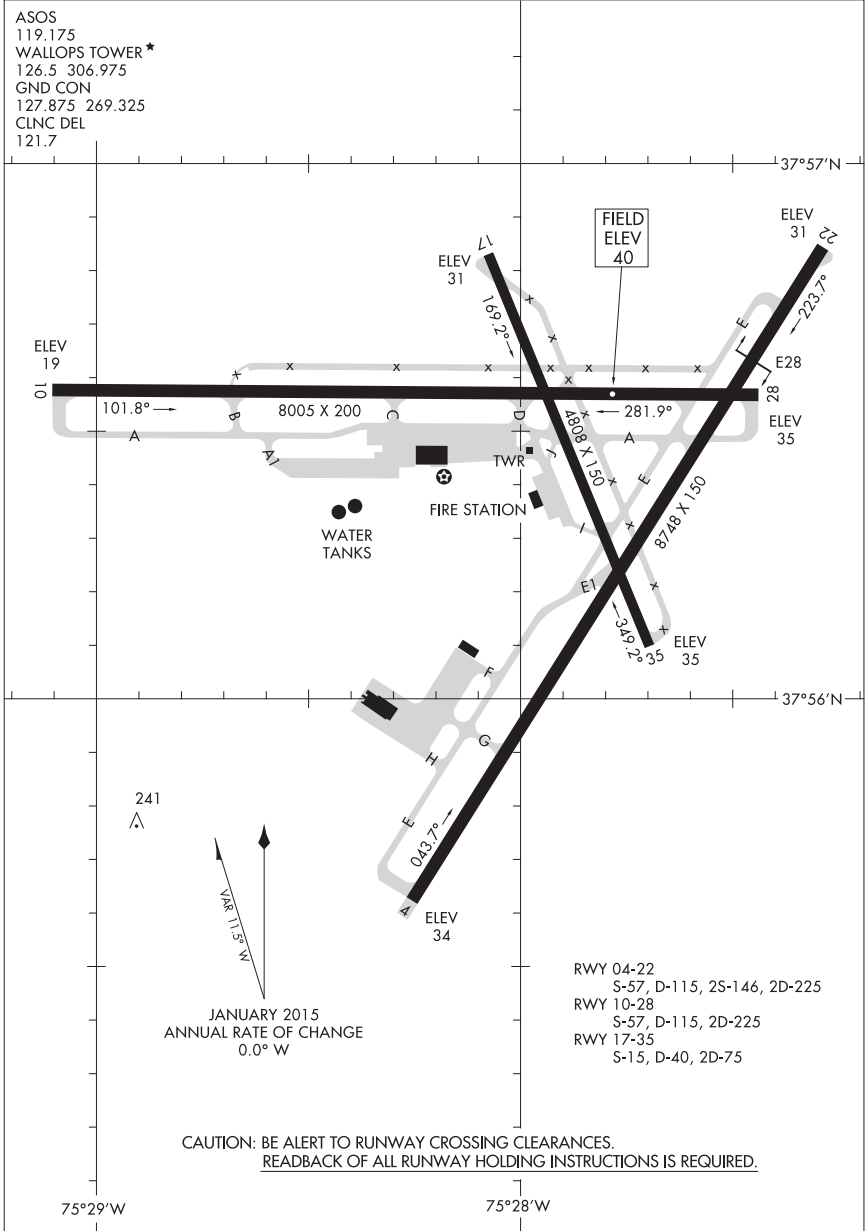
VINEYARD HAVEN, MASSACHUSETTS  
MARTHAS VINEYARD (MVY)

15064

AIRPORT DIAGRAM

AL-639 (FAA)

WALLOPS FLIGHT FACILITY (WAL)  
WALLOPS ISLAND, VIRGINIA



AIRPORT DIAGRAM

15064

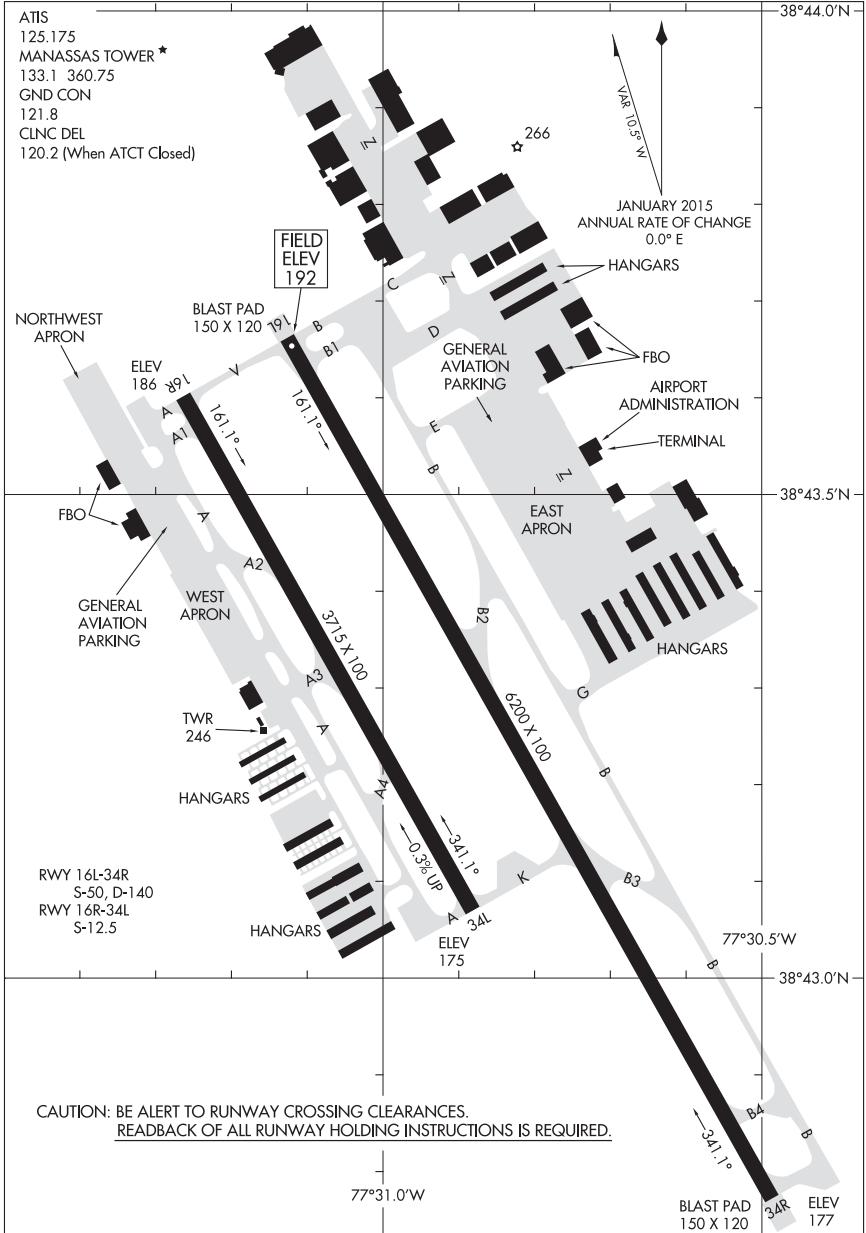
WALLOPS ISLAND, VIRGINIA  
WALLOPS FLIGHT FACILITY (WAL)

15344

AIRPORT DIAGRAM

AL-5326 (FAA)

MANASSAS RGNL/HARRY P DAVIS FIELD (HEF)  
WASHINGTON, D.C.



AIRPORT DIAGRAM  
15344

WASHINGTON, D.C.  
MANASSAS RGNL/HARRY P DAVIS FIELD (HEF)



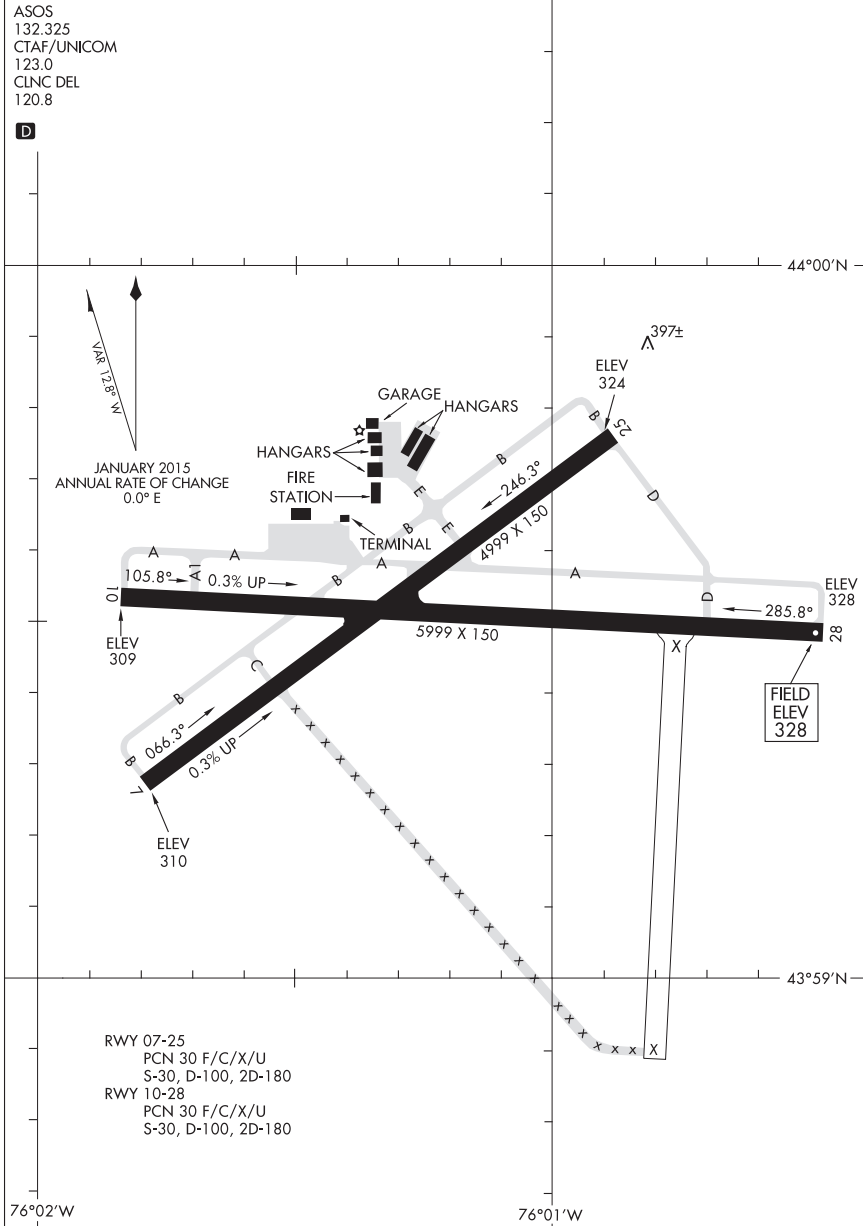


15288

# AIRPORT DIAGRAM

AL-666 (FAA)

WATERTOWN INTL (ART)  
WATERTOWN, NEW YORK



# AIRPORT DIAGRAM

15288

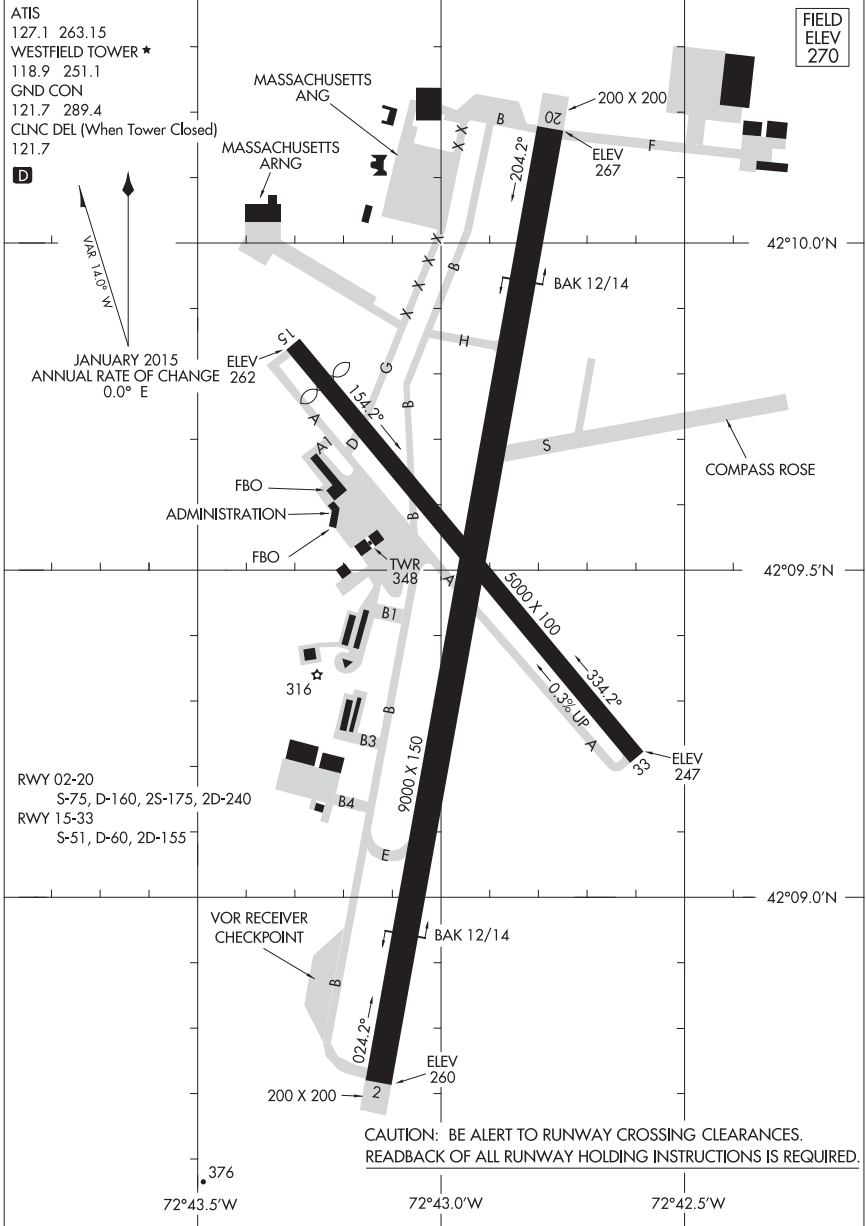
WATERTOWN, NEW YORK  
WATERTOWN INTL (ART)

15064

AIRPORT DIAGRAM

AL-446 (FAA)

WESTFIELD-BARNES RGNL (B.A.F)  
WESTFIELD/SPRINGFIELD, MASSACHUSETTS



AIRPORT DIAGRAM

15064

WESTFIELD/SPRINGFIELD, MASSACHUSETTS  
WESTFIELD-BARNES RGNL (B.A.F)

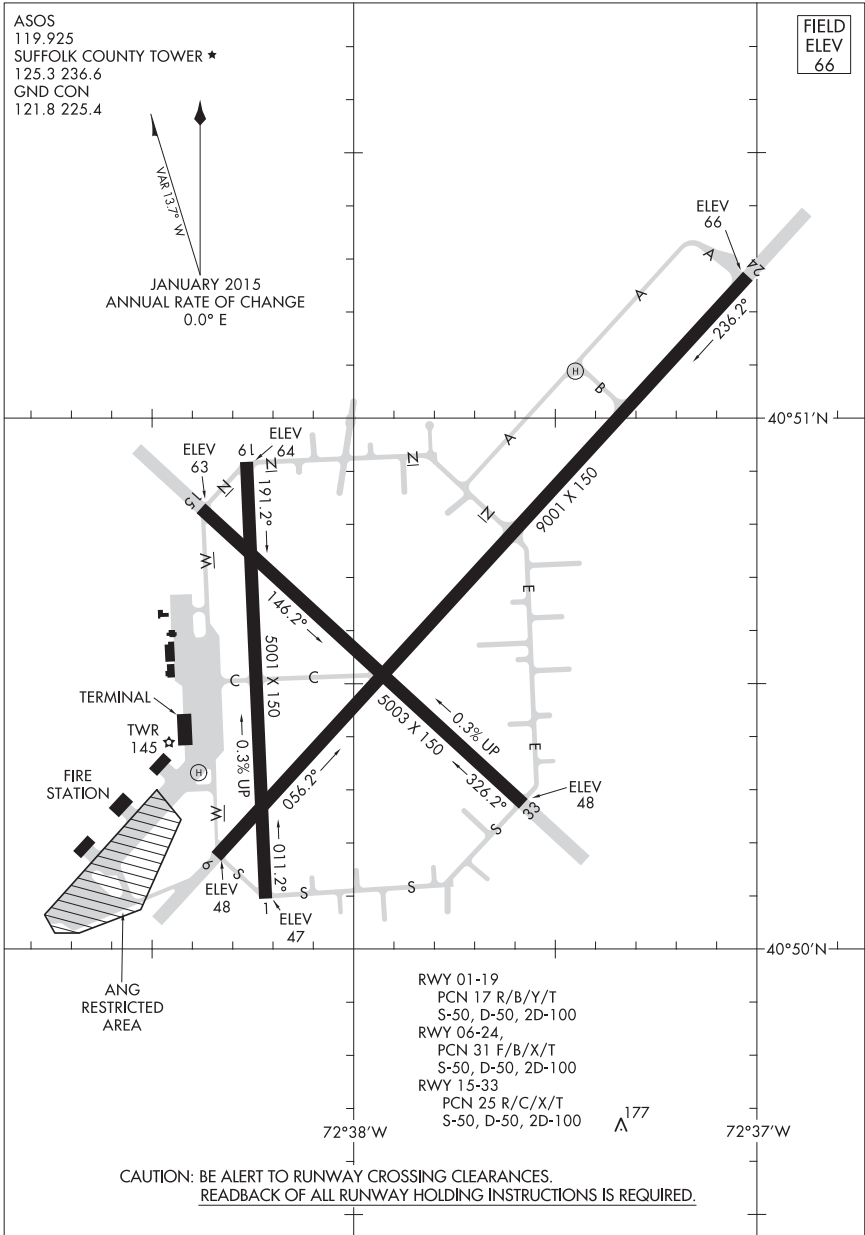


17005

# AIRPORT DIAGRAM

AL-996 (FAA)

FRANCIS S. GABRESKI (F'OK)  
WESTHAMPTON BEACH, NEW YORK



# AIRPORT DIAGRAM

17005

WESTHAMPTON BEACH, NEW YORK  
FRANCIS S. GABRESKI (F'OK)



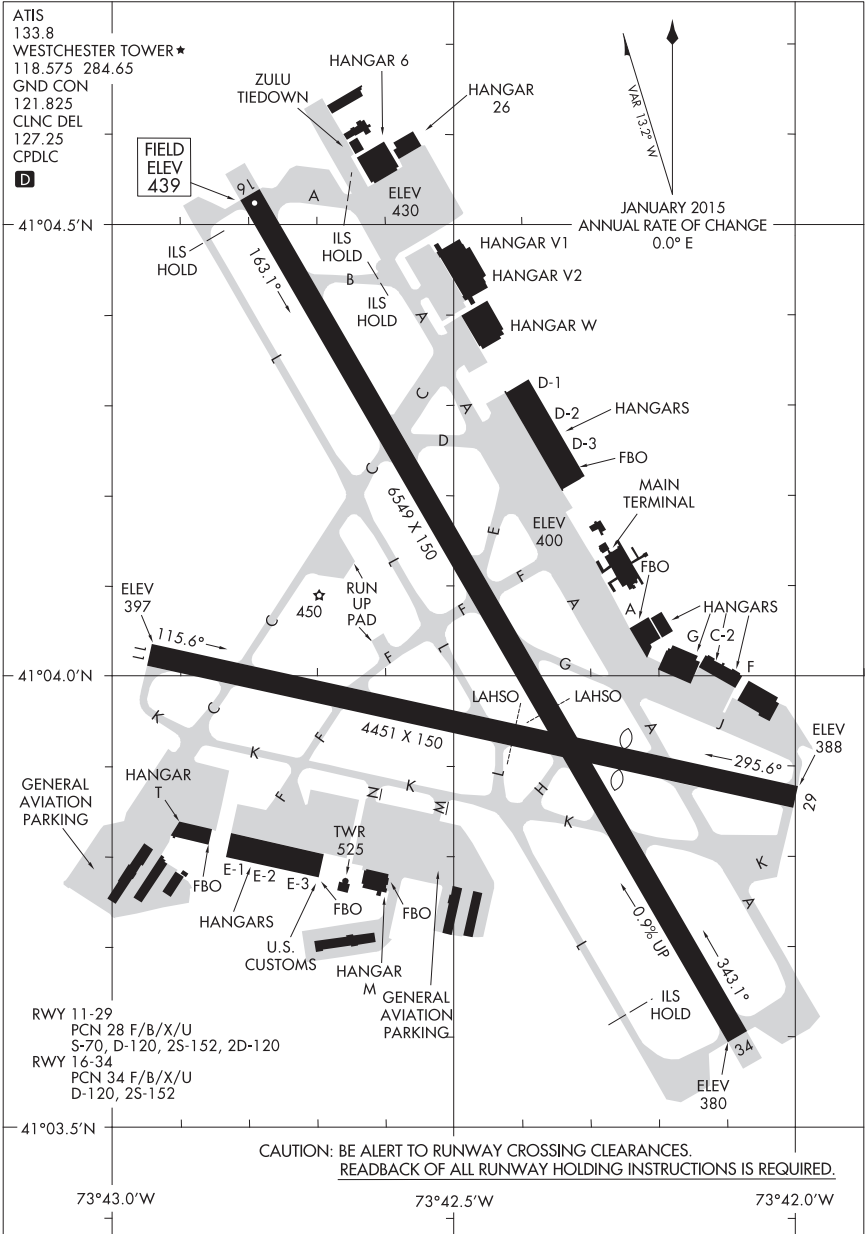


16147

AIRPORT DIAGRAM

AL-651 (FAA)

WESTCHESTER COUNTY (HPN)  
WHITE PLAINS, NEW YORK



AIRPORT DIAGRAM

WHITE PLAINS, NEW YORK  
WESTCHESTER COUNTY (HPN)

16147

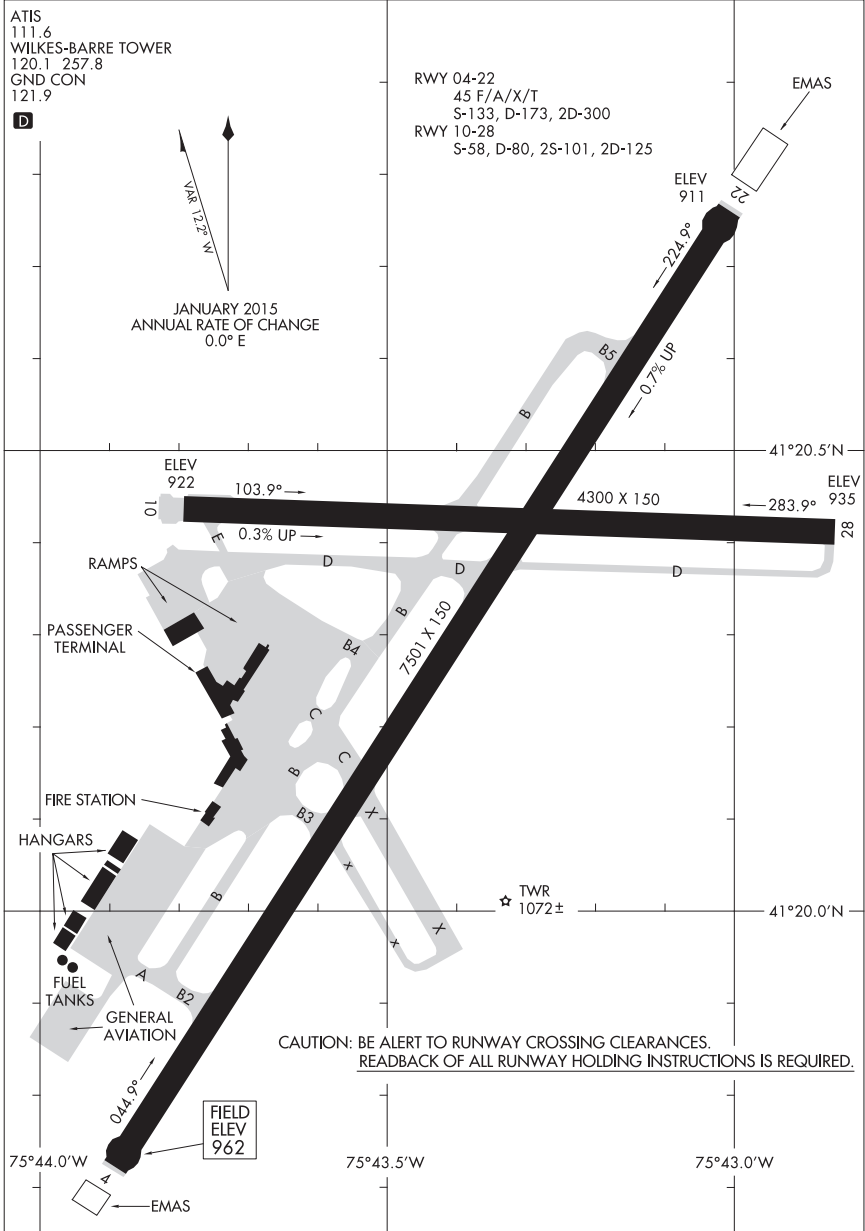
15064

# AIRPORT DIAGRAM

WILKES-BARRE/SCRANTON INTL (AVP)

AL-661 (FAA)

WILKES-BARRE/SCRANTON, PENNSYLVANIA



# AIRPORT DIAGRAM

15064

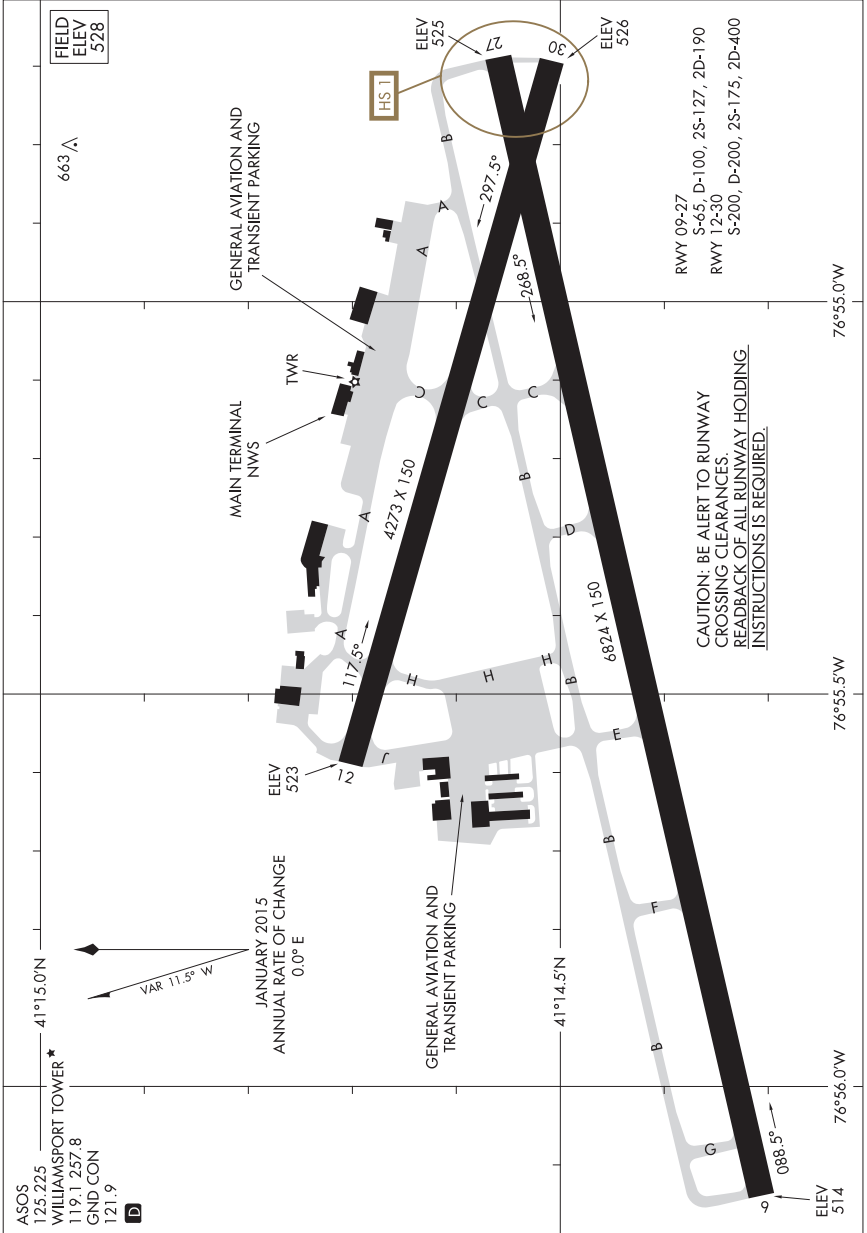
WILKES-BARRE/SCRANTON, PENNSYLVANIA

WILKES-BARRE/SCRANTON INTL (AVP)

15064

AIRPORT DIAGRAM

WILLIAMSPORT RGNL (IPT)  
WILLIAMSPORT, PENNSYLVANIA



AIRPORT DIAGRAM

WILLIAMSPORT, PENNSYLVANIA  
WILLIAMSPORT RGNL (IPT)

15064





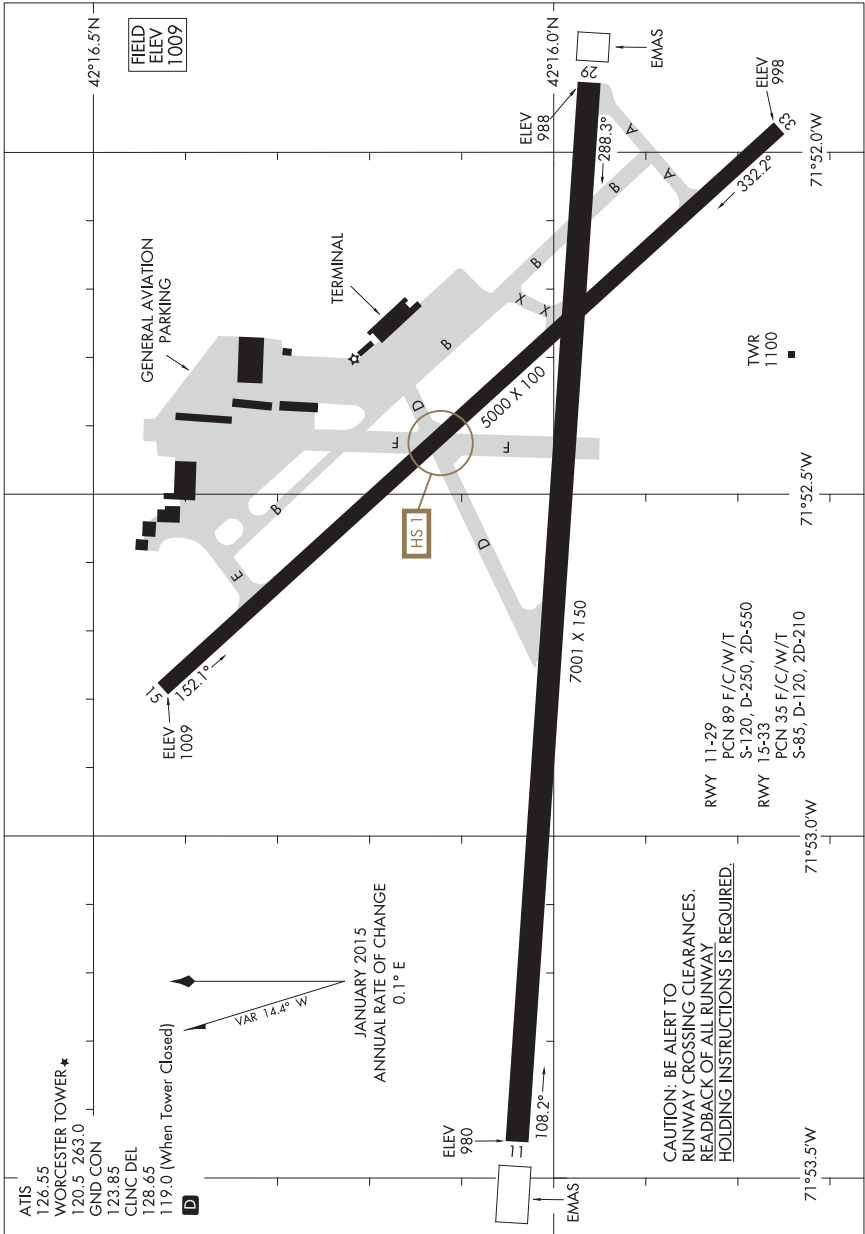


15064

AIRPORT DIAGRAM

AL-652 (FAA)

WORCESTER RGNL (O.R.H)  
WORCESTER, MASSACHUSETTS



AIRPORT DIAGRAM

15064

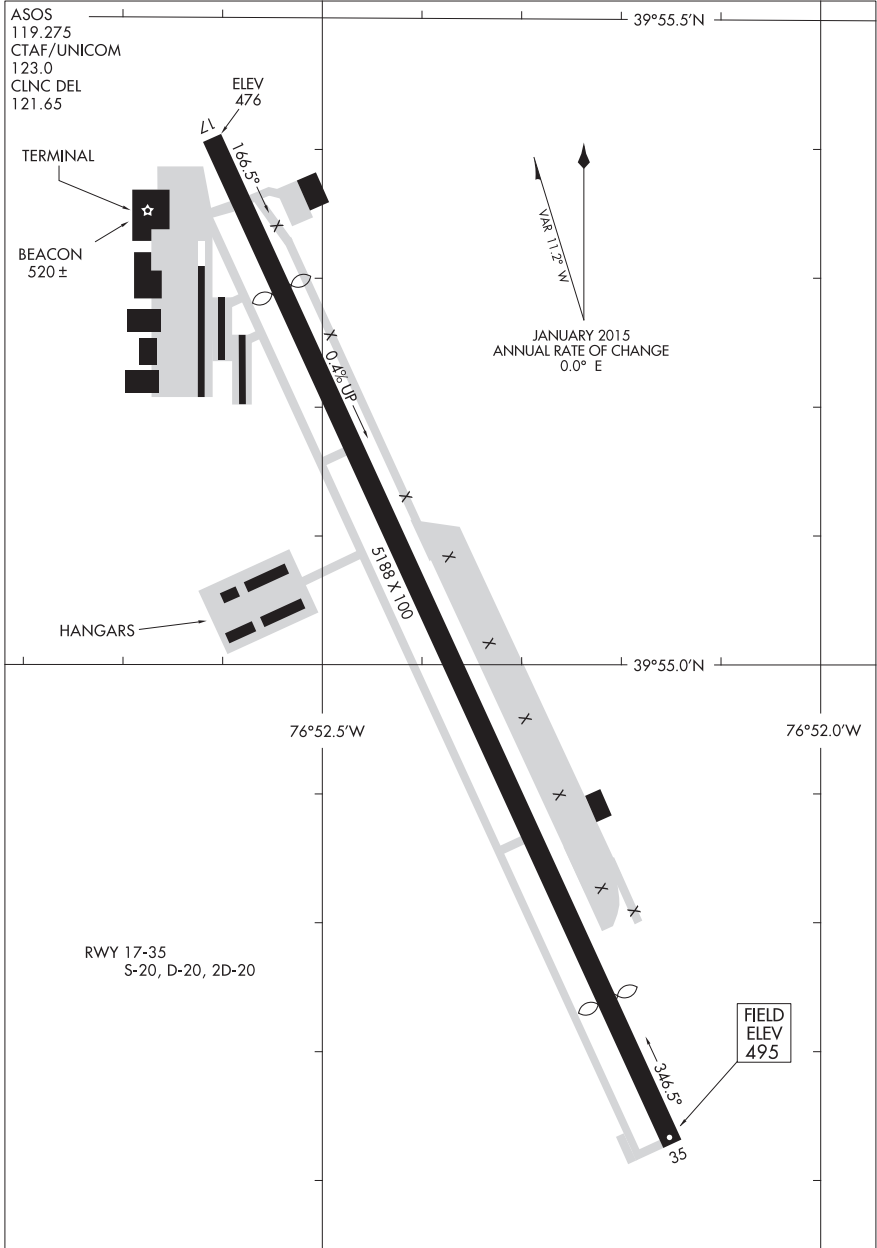
WORCESTER, MASSACHUSETTS  
WORCESTER RGNL (O.R.H)

16147

AIRPORT DIAGRAM

AL-5137 (FAA)

YORK (THV)  
YORK, PENNSYLVANIA



AIRPORT DIAGRAM

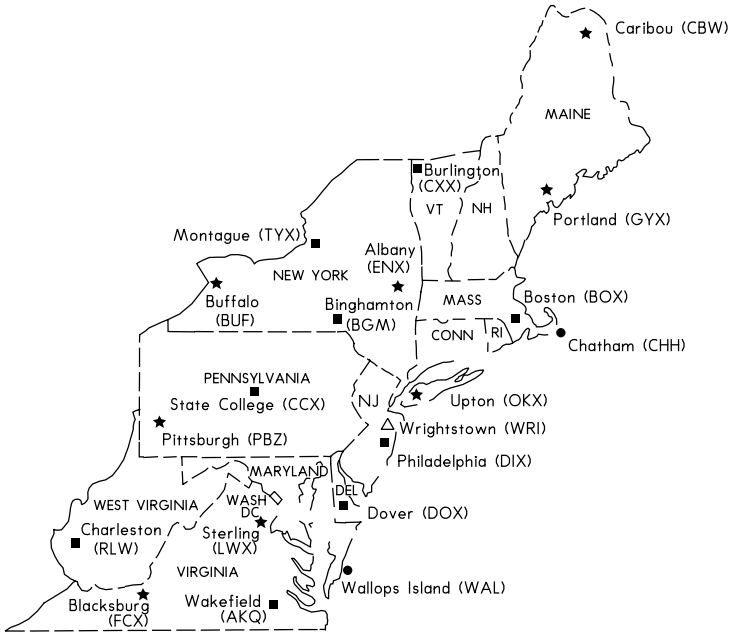
16147

YORK, PENNSYLVANIA  
YORK (THV)

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NATIONAL WEATHER SERVICE (NWS)  
 UPPER AIR OBSERVING STATION (UAOS)  
 AND  
 WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASE AROUND 1100 UTC AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASES LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.

## ENROUTE FLIGHT ADVISORY SERVICE (EFAS)

Enroute Advisories are available on ALL Flight Service Inflight Frequencies  
(See ARTCC/FSS Frequency Tab)

