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Contact:

Doug Ranz 248-318-0011 NACOmatic@hotmail.com

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GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the FAA, Department of Transportation, National Aeronautical Navigation Services, Silver Spring, Maryland 20910, It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

CRITICAL information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE: http://nfdc.faa.gov/portal/airportchanges.do

FAA, Aeronautical Information Services, ATO-R, Rm. 626

800 Independence Ave., SW

Washington, DC 20591 Telephone 1-866-295-8236

Fax 202-267-5322

Email 9-ATOR-HO-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10
23 Sep 10	11 Aug 10	22 Jul 10
18 Nov 10	6 Oct 10	16 Sep 10
13 Jan 11	1 Dec 10	11 Nov 10

^{*}Including changes to preferred routes and graphic depictions on charts.

FOR CHARTING ERRORS CONTACT:

ı

FAA, National Aeronautical Navigation Services

SSMC-4 Sta. #4259

1305 East West Highway

Silver Spring, MD 20910-3281

Telephone 1-800-626-3677

Email 9-AMC-Aerochart@faa.gov

Frequently asked questions (FAQs) are answered on our website at http://aeronav.faa.gov.

See the FAQs prior to contact via toll free number.

FOR PROCUREMENT CONTACT:

FAA, National Aeronautical Navigation Services

REDIS/Distribution Team

10201 Good Luck Road

Glenn Dale, MD 20769-9700 Online at http://aeronav.faa.gov

Email 9-AMC-Chartsales@faa.gov

Telephone 1-800-638-8972

Fax 301-436-6829

or any authorized chart agent.

New or Changed Information—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.

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ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—''req'' may mean ''request", ''requesting'', ''requested'', or ''requests'').

AAF	Army Air Field	byd	beyond
AB	Airbase	c	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control	CGAS	Coast Guard Air Station
	Center	CIV	Civil
acft	aircraft	clsd	closed
ADCC	Air Defense Control Center	comd	command
AER	approach end rwy	CONUS	Continental United States
AFB	Air Force Base	CSTMS	Customs
AFHP	Air Force Heliport	ctc	contact
afld	airfield	ctl	control
AFOD	US Army Flight Operations Detachment	dalgt	daylight
AFRC	Armed Forces Reserve Center/Air Force	Dec	December
	Reserve Command	DIAP	DoD Instrument Approach Procedure
AFSS	Automated Flight Service Station	DoD	Department of Defense
AG	Agriculture	DSN	Defense Switching Network (Telephone)
A-GEAR	Arresting Gear	dsplcd	displaced
AGL	above ground level	durn	duration
AHP	Army heliport	eff	effective
ALS	Approach Light System	emerg	emergency
alt	altitude	EOR	End of Runway
AMC	Air Mobility Command	ETA	Estimated Time of Arrival
ANGS	Air National Guard Station	ETD	Estimated Time of Departure
apch	approach	exc	except
Apr	April	extd	extend
APU	Auxiliary Power Unit	FB0	fixed-base operator
ARB	Air Reserve Base	Feb	February
arpt	airport	fld	field
ARS	Air Reserve Station	FLIP	Flight Information Publication
AS	Air Station	flt	flight
ASDE-X	Airport Surface Detection Equipment—	flw	follow
	Model X	Fri	Friday
ASU	Aircraft Starting Unit	FSS	Flight Service Station
ATC	Air Traffic Control	GA	glide angle
Aug	August	GCA	Ground Controlled Approach
AUW	All Up Weight (gross weight)	GS	glide slope
avbl	available	haz	hazard
bcn	beacon	HQ	Headquarters
blo	below		

CONTINUED ON NEXT PAGE

CONTINUED FROM PRECEDING PAGE

hr hour non precision instrument ΙΔΡ Instrument Approach Procedure NS ABTMT Noise Abatement ICAC International Civil Aviation Organization NSTD nonstandard IFR Instrument Flight Rules ntc notice ILS Instrument Landing System obsn observation IM Inner Marker Oct October IMG Immigration OI F Outlying Field

incr increase onr operate, operator, operational

indet indefinite ons operations intensity OTS out of service ints invof in the vicinity of ovrn overrun

IMC Instrument Meteorological Conditions PAFW personnel and equipment working

lan nat pattern Jet Aircraft Starting Unit IASI p-line power line

JOAP Joint Oil Analysis Program **PMSV** Pilot-to-Metro Service IOSAC Joint Operational Support Airlift Center PΩI Petrol, Oils and Lubricants IRB Joint Reserve Base PPR prior permission required Jul July PRM Precision Runway Monitoring PTD

Jun June Pilot to Dispatcher

Κt Knots RAMCC Regional Air Movement Control Center

LAA Local Airport Advisory rea request LAHSO Land and Hold Short Operations rgt tfc right traffic RON Remain Overnight lhs nounds ldg landing rar require lighted rstd lgtd restricted

RSRS løts lights reduced same runway separation

LMM Compass locator at Middle Marker ILS rw/v/ runway LOC Localizer Sat Saturday

LOM Compass locator at Outer Marker II S SFLE Strategic Expeditionary Landing Field

SFA

SP

Single Frequency Approach

sunrise

limited Sen Itd September

March efe Mar surface

SFRA MCAF

Military Area Control Center

medium

MACC

med

Marine Corps Air Facility Special Flight Rules Area SOAP MCALE

Marine Corps Auxiliary Landing Field Spectrometric Oil Analysis Program

SOF Supervisor of Flying MCAS Marine Corps Air Station Marine Corps Base SPR MCB Seaplane Base

SS METRO Pilot-to-Metro voice call sunset Mil military std standard min minute Sur Sunday MLS Microwave Landing System SVC service MM Middle Marker of ILS tfc traffic Mon Monday thld threshold MP Maintenance Period Thu Thursday MSI mean sea level tkf take-off MSAW minimum safe altitude warning tmnrv temporary

NAAS Naval Auxiliary Air Station tran transient NADC Naval Air Development Center Tue Tuesday NADER Naval Air Depot twr tower Naval Air Engineering Center NAEC twv taxiway NAFS Naval Air Engineering Station UC Under Construction

Naval Air Facility USA United States Army NAF NALCO Naval Air Logistics Control Office USAF United States Air Force USCG NALO Navy Air Logistics Office United States Coast Guard NALE Naval Auxiliary Landing Field USN United States Navy

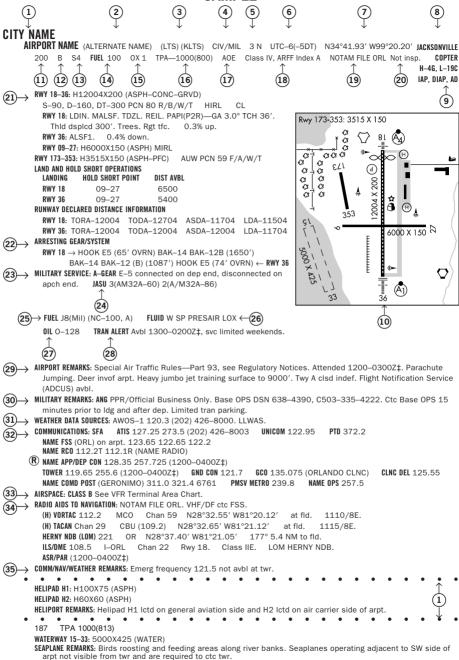
NAS Naval Air Station Defense Switching Network (telephone,

NAWC Naval Air Warfare Center formerly AUTOVON) NAWS Naval Air Weapons Station VFR Visual Flight Rules VIP night Very Important Person ngt

NOLF Naval Outlying Field VMC Visual Meteorological Conditions

Nov November Wed Wednesday wx weather

SAMPI F



All bearings and radials are magnetic unless otherwise specified.
All mileages are nautical unless otherwise noted.
All times are Coordinated Universal Time (UTC) except as noted.
All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.
The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10 SKETC	h legend
runways/landing areas	radio aids to navigation
Hard Surfaced	VORTAC
Metal Surface	VOR/DME D NDB
Sod, Gravel, etc	TACAN NDB/DME
Light Plane,	MISCELLANEOUS AERONAUTICAL FEATURES
Closed	Airport Beacon
Helicopter Landings Area	Wind Cone
Displaced Threshold 0	Tetrahedron
Taxiway, Apron and Stopways	
MISCELLANEOUS BASE AND CULTURAL	APPROACH LIGHTING SYSTEMS A dot " • " portrayed with approach lighting
FEATURES	letter identifier indicates sequenced flashing lights (F) installed with the approach lighting
Buildings	system e.g. (A) Negative symbology, e.g., (A) V indicates Pilot Controlled Lighting (PCL).
Power Lines	Runway Centerline Lighting
Fence	Approach Lighting System ALSF-2 i
Towers	Approach Lighting System ALSF-1
Tanks	Short Approach Lighting System SALS/SALSF
Oil Well	System (SSALR) with RAIL
Smoke Stack	and SSALF)
5812 Obstruction	(A5) System (MALSR) and RAIL
±5912	Omnidirectional Approach Lighting System (ODALS) :
Controlling Obstruction	(D) Navy Parallel Row and Cross Bar
Trees	Visual Approach Slope Indicator with
Populated Places	Standard Threshold Clearance provided Pulsating Visual Approach Slope Indicator (PVASI)
Cuts and Fills Cut	Visual Approach Slope Indicator with a threshold crossing height to accomodate long bodied or jumbo aircraft
Cliffs and Depressions	(Tri-color Visual Approach Slope Indicator
Ditch	(S) Approach Path Alignment Panel (APAP)
Hill	P Precision Approach Path Indicator (PAPI)

LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Navaids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

(1) CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

(2) ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

(3) LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

(4) OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

MC

Α US Army Marine Corps AFRC Air Force Reserve Command N Navv US Air Force Naval Air Facility ΔF NAF ANG Air National Guard NAS Naval Air Station AR US Army Reserve NASA

National Air and Space Administration Р ARNG US Army National Guard US Civil Airport Wherein Permit Covers CG US Coast Guard Use by Transient Military Aircraft CIV/MIL Joint Use Civil/Military PVT Private Use Only (Closed to the Public)

DND Department of National Defense Canada

(5) AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

(6) TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

8 CHARTS

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER. IFR Gulf of Mexico West and IFR Gulf of Mexico Central will be depicted as GOMW and GOMC.

(9) INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAMS

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5–4–5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

10 AIRPORT SKETCH

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

(11) ELEVATION

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

(12) ROTATING LIGHT BEACON

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

(13) SERVICING—CIVIL

S1:	Minor airframe repairs.	S5:	Major airframe repairs.
S2:	Minor airframe and minor powerplant repairs.	S6:	Minor airframe and major powerplant repairs.
S3:	Major airframe and minor powerplant repairs.	S7:	Major powerplant repairs.
S4:	Major airframe and major powerplant repairs.	S8:	Minor powerplant repairs.
(14)	FUEL		

(14) FUEL

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP**
100	Grade 100 gasoline (Green)		minus 50° C.
100LL	100LL gasoline (low lead) (Blue)	J4 (JP4)	(JP-4 military specification) FP** minus
115	Grade 115 gasoline (115/145 military		58° C.
	specification) (Purple)	J5 (JP5)	(JP-5 military specification) Kerosene with
A	Jet A, Kerosene, without FS-II*, FP** minus		FS-11, FP** minus 46°C.
	40° C.	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene
A+	Jet A, Kerosene, with FS-II*, FP** minus		with FS-II*, FP** minus 47°C.
	40°C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene
A1	Jet A-1, Kerosene, without FS-II*, FP**		with FS-II*, FP** minus 47°C, with-fuel
	minus 47°C.		additive package that improves thermo
A1+	Jet A-1, Kerosene with FS-II*, FP** minus		stability characteristics of JP-8.
	47° C.	J	(Jet Fuel Type Unknown)
В	Jet B, Wide-cut, turbine fuel without FS-II*,	MOGAS	Automobile gasoline which is to be used
	FP** minus 50° C.		as aircraft fuel.

^{*(}Fuel System Icing Inhibitor)

NOTE: Certa

Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

15 OXYGEN—CIVIL

OX 1 High Pressure OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure OX 4 Low Pressure—Replacement Bottles

16 TRAFFIC PATTERN ALTITUDE

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

^{**(}Freeze Point)

AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS

U.S. CUSTOMS USER FEE AIRPORT-Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required

LRA-Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD)	407-975-1740
Southeast Sector (Atlantic States—DC, WV, VA to FL)	407-975-1780
Central Sector (Interior of the US, including Gulf states—MS, AL, LA)	407-975-1760
Southwest East Sector (OK and eastern TX)	407-975-1840
Southwest West Sector (Western TX, NM and AZ)	407-975-1820
Pacific Sector (WA, OR, CA, HI and AK)	407-975-1800

(18) CERTIFICATED AIRPORT (14 CFR PART 139)

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	Х			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	Х	Х		Х
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	Х	Х	Х	

14 CFR-PART 139 CERTIFICATED AIRPORTS

INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
Α	1	<90′	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H₂O
В	1 or 2	≥90′, <126′	≥5	Index A + 1500 gal H ₂ O
		≥126′, <159′	<5	
С	2 or 3	≥126′, <159′	≥5	Index A + 3000 gal H ₂ O
		≥159′, <200′	<5	
D	3	≥159′, <200′		Index A + 4000 gal H ₂ O
		>200′	<5	
E	3	≥200′	≥5	Index A + 6000 gal H ₂ O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H₂O-Water; DC-Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd .-- indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.



(19) NOTAM SERVICE

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and ATC Procedures for detailed description of NOTAM's. Current NOTAMs are available from Flight Service Stations at 1–800–WX–BRIEF. Real time Military NOTAMs are available using the DoD Internet NOTAM Distribution System (DINS) www.notams.jcs.mil.

20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as Ultralight or assault strips. Assault strips are shown by magnetic bearing.

RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt–concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking,	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	landing mats, membranes	(TURF)—Turf
(DIRT)—Dirt	(PEM)—Part concrete, part asphalt	(TRTD)—Treated
(GRVD)—Grooved	(PFC)—Porous friction courses	(WC)—Wire combed

RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	28	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757,
		KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type
		landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body
		gear type landing gear (A340–600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double
		tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing
		gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination
		landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available or all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
 - R Rigid
 - F Flexible
- (3) The pavement subgrade category:
 - A High
 - B Medium
 - C Low
 - D Ultra-low

- $\begin{tabular}{ll} (4) The maximum tire pressure authorized for the pavement: \\ \end{tabular}$
 - W High, no limit
 - X Medium, limited to 217 psi
 - Y Low, limited to 145 psi Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
 - T Technical evaluation
 - U By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL-Touchdown Zone Lights.

ODALS-Omni Directional Approach Lighting System.

AF OVRN-Air Force Overrun 1000' Standard

Approach Lighting System.

LDIN-Lead-In Lighting System.

MALS-Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF-Sequenced Flashing Lights.

OLS-Optical Landing System.

WAVE-OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

VISUAL GLIDESLOPE INDICATORS

APAP—A sys	stem of panels, which may or may not be lighted, used fo	or alignme	ent of approach path.				
PNIL	APAP on left side of runway	PNIR	APAP on right side of runway				
PAPI—Precis	sion Approach Path Indicator						
P2L	2-identical light units placed on left side of	P4L	4-identical light units placed on left side of				
	runway		runway				
P2R	2-identical light units placed on right side of	P4R	4-identical light units placed on right side of				
	runway		runway				
PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.							
PSIL	PVASI on left side of runway	PSIR	PVASI on right side of runway				
SAVASI—Sii	mplified Abbreviated Visual Approach Slope Indicator						
S2L	2-box SAVASI on left side of runway	S2R	2-box SAVASI on right side of runway				

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL	TRCV on left side of runway	TRIR	TRCV on right side of runway
VASI-Visua	l Approach Slope Indicator		
V2L	2-box VASI on left side of runway	V6L	6-box VASI on left side of runway
V2R	2-box VASI on right side of runway	V6R	6-box VASI on right side of runway
V4L	4-box VASI on left side of runway	V12	12-box VASI on both sides of runway
V4R	4-box VASI on right side of runway	V16	16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
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)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold–short operations and markings.

RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided. LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a–gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A–Gear which has a bi–direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A–Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

BI-DIRECTIONAL CABLE (B)

12

TYPE DESCRIPTION

BAK-9 Rotary friction brake.

BAK-12A Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary

friction brake.

BAK-12B Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary

friction brake.

E28 Rotary Hydraulic (Water Brake).
M21 Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14 A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to five seconds to fully raise the cable.)

H A device that raises a hook cable out of a slot in the runway surface and is remotely positioned

for engagement by the tower on request. (In addition to personnel reaction time, the system

requires up to one and one-half seconds to fully raise the cable.)

UNI-DIRECTIONAL CABLE

TYPE DESCRIPTION

MB60 Textile brake—an emergency one-time use, modular braking system employing the tearing of

specially woven textile straps to absorb the kinetic energy.

E5/E5-1/E5-3 Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100

HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under

Military Service.

FOREIGN CABLE

TYPE DESCRIPTION US EQUIVALENT

44B-3H Rotary Hydraulic) (Water Brake)

CHAG Chain E-5

UNI-DIRECTIONAL BARRIER

TYPE DESCRIPTION

MA-1A Web barrier between stanchions attached to a chain energy absorber.

BAK-15 Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction,

chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

OTHER

TYPE DESCRIPTION

EMAS Engineered Material Arresting System, located beyond the departure end of the runway, consisting of

high energy absorbing materials which will crush under the weight of an aircraft.

23 MILITARY SERVICE

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

24 JET AIRCRAFT STARTING UNITS (JASU)

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35–1–7.)

ELECTRICAL STARTING UNITS:

A/M32A-86 AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire

DC: 28v, 1500 amp, 72 kw (with TR pack)

MC-1A AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire

DC: 28v, 500 amp, 14 kw

MD-3 AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v. 1500 amp. 45 kw. split bus

MD-3A AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 1500 amp, 45 kw, split bus

MD-3M AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire

DC: 28v, 500 amp, 15 kw

MD-4 AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5

kva. 0.8 pf. 520 amp. 2 wire

AIR STARTING UNITS

AM32–95 150 + / - 5 lb/min (2055 + / - 68 cfm) at 51 + / - 2 psia AM32A–95 150 + / - 5 lb/min @ 49 + / - 2 psia (35 + / - 2 psig)

LASS 150 +/- 5 lb/min @ 49 +/- 2 psia

MA-1A 82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press

MC-1 15 cfm, 3500 psia MC-1A 15 cfm, 3500 psia MC-2A 15 cfm, 200 psia

MC-11 8,000 cu in cap, 4000 psig, 15 cfm

COMBINED AIR AND ELECTRICAL STARTING UNITS:

AGPU AC: 115/200v, 400 cycle, 3 phase, 30 kw gen

DC: 28v, 700 amp

AIR: 60 lb/min @ 40 psig @ sea level

AM32A-60* AIR: 120 + - 4 lb/min (1644 + - 55 cfm) at 49 + - 2 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva

DC: 28v, 500 amp, 15 kw

AM32A-60A AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm at 51 +/- psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw

AM32A-60B* AIR: 130 lb/min, 50 psia

AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire

DC: 28v, 200 amp, 5.6 kw

*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.

USN JASU

ELECTRICAL STARTING UNITS:

NC-8A/A1 DC: 500 amp constant, 750 amp intermittent, 28v;

AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.

NC-10A/A1/B/C

DC: 750 amp constant, 1000 amp intermittent, 28v:

AC: 90 kva, 115/200v, 3 phase, 400 Hz.

AIR STARTING UNITS:

GTC-85/GTE-85 120 lbs/min @ 45 psi. MSU-200NAV/A/U47A-5 204 lbs/min @ 56 psia.

WELLS AIR START 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.

SYSTEM

COMBINED AIR AND ELECTRICAL STARTING UNITS:

NCPP-105/RCPT 180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC,

30 kva.

JASU (ARMY)

59B2–1B 28v, 7.5 kw, 280 amp.

OTHER JASU

ELECTRICAL STARTING UNITS (DND):

CE12 AC 115/200v, 140 kva, 400 Hz, 3 phase CE13 AC 115/200v, 60 kva, 400 Hz, 3 phase

CE14 AC/DC 1.15/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15 DC 22-35v, 500 amp continuous 1.100 amp intermittent
CE16 DC 22-35v, 500 amp continuous 1.100 amp intermittent soft start

AIR STARTING UNITS (DND):

CA2 ASA 45.5 psig, 116.4 lb/min COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)

CEA1 AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp

AIR 112.5 lb/min, 47 psig

ELECTRICAL STARTING UNITS (OTHER)

C-26 28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire

C-26-B, C-26-C 28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire

E3 DC 28v/10kw

AIR STARTING UNITS (OTHER):

A4 40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)

MA-1 150 Air HP, 115 lb/min 50 psia MA-2 250 Air HP, 150 lb/min 75 psia

CARTRIDGE:

MXU-4A USAF



Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at www.desc.dla.mil/Static/ProductsAndServices.asp; click on the Commercial Airports button.

See legend item 14 for fuel code and description.

(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY

CODE

ADI Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.

W Water Thrust Augmentation—Jet Aircraft.

WAI Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.

SP Single Point Refueling.

PRESAIR Air Compressors rated 3,000 PSI or more.

De-Ice Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

OXYGEN:

LPOX Low pressure oxygen servicing.
HPOX High pressure oxygen servicing.
LHOX Low and high pressure oxygen servicing.

LOX Liquid oxygen servicing.

OXRB Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be

replenished only by replacement of cylinders.)

OX Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB Low and high pressure oxygen servicing and replacement bottles;

LPOXRB Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

NITROGEN:

LPNIT — Low pressure nitrogen servicing.

HPNIT — High pressure nitrogen servicing.

LHNIT — Low and high pressure nitrogen servicing.

27 OIL-MILITARY

US AVIATION OILS (MIL SPECS):

CODE GRADE, TYPE 0 - 1131065, Reciprocating Engine Oil (MIL-L-6082) 0 - 1171100, Reciprocating Engine Oil (MIL-L-6082) 0 - 117 +1100, 0-117 plus cyclohexanone (MIL-L-6082) 1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III) 0 - 1230 - 1281100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II) 0 - 1321005, Jet Engine Oil (MIL-L-6081) 0 - 1331010, Jet Engine Oil (MIL-L-6081) 0 - 147None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic

O-148 None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
O-149 None, Aircraft Turbine Engine Synthetic, 7.5c St

0-155 None, MIL-L-6086C, Aircraft, Medium Grade

O-156 None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines

JOAP/SOAP Joint Oil Analysis Program, JOAP support is furnished during normal dut

SOAP Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request.

(JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service

supported program.)

28 TRANSIENT ALERT (TRAN ALERT)—MILITARY

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional Information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircraws and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11–204, AR 95–27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on aboard are designated Code 6 or higher as explained in AFJMAN 11–213, AR 95–11, OPNAVINST 3722–8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS-Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2-reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers. SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP-indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.



Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1–800–WX–BRIEF (1–800–992–7433). When the FSS is located on the field it will be indicated as "on arpt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation.

(See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies-Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122–126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remoted facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

TERMINAL SERVICES

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol (R) indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the

VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol R indicates radar departure control.

CLNC DEL-Clearance Delivery.

PRE TAXI CLNC-Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or

hours of operation as "Wx obsn svc 1900–0000Z‡" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW-Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

33 AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times. Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

AIRSPACE: CLASS C svc "times" ctc APP CON other times CLASS E:

0

AIRSPACE: CLASS D svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

 $\textbf{AIRSPACE: CLASS C} \text{ svc ''times'' ctc } \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL \& abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL \& abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS G, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C} \textbf{APP CON} \text{ other times CLASS C, with CLASS E 700' (or 1200') AGL & abv: } \textbf{AIRSPACE: CLASS C, with C, with Class C, with C, with$

0

AIRSPACE: CLASS D svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

٥r

AIRSPACE: CLASS E svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS. Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.

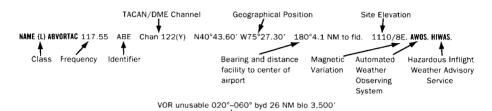
Class E 700′ AGL (shown as magenta vignette on sectional charts) and 1200′ AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700′/1200′ AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



The Airport/Facility Directory lists, by facility name, all Radio Aids to Navigation that appear on National Aeronautical Navigation Services Visual or IFR Aeronautical Charts and those upon which the FAA has approved an Instrument Approach Procedure, with exception of selected TACANs. Military TACAN information will be published for Military facilities contained in this publication. All VOR, VORTAC, TACAN, ILS and MLS equipment in the National Airspace System has an automatic monitoring and shutdown feature in the event of malfunction. Unmonitored, as used in this publication, for any navigational aid, means that monitoring personnel cannot observe the malfunction or shutdown signal. The NAVAID NOTAM file identifier will be shown as "NOTAM FILE IAD" and will be listed on the Radio Aids to Navigation line. When two or more NAVAIDS are listed and the NOTAM file identifier is different from that shown on the Radio Aids to Navigation line, it will be shown with the NAVAID listing. NOTAM file identifiers for ILSs and its components (e.g., NDB (LOM) are the same as the associated airports and are not repeated. Automated Surface Observing System (ASOS), Automated Weather Observing System (AWOS), and Hazardous Inflight Weather Advisory Service (HIWAS) will be shown when this service is broadcast over selected NAVAIDs.

NAVAID information is tabulated as indicated in the following sample:



Restriction within the normal altitude/range of the navigational aid (See primary alphabetical listing for restrictions on VORTAC and VOR/DME).

Note: Those DME channel numbers with a (Y) suffix require TACAN to be placed in the "Y" mode to receive distance information.

HIWAS—Hazardous Inflight Weather Advisory Service is a continuous broadcast of inflight weather advisories including summarized SIGMETs, convective SIGMETs, AIRMETs and urgent PIREPs. HIWAS is presently broadcast over selected VOR's throughout the U.S.

ASR/PAR—Indicates that Surveillance (ASR) or Precision (PAR) radar instrument approach minimums are published in the U.S. Terminal Procedures. Only part-time hours of operation will be shown.

RADIO CLASS DESIGNATIONS

VOR/DME/TACAN Standard Service Volume (SSV) Classifications

SSV Class	Altitudes	Distance		
		(NM)		
(T) Terminal	1000' to 12,000'	25		
(L) Low Altitude	1000' to 18,000'	40		
(H) High Altitude	1000' to 14,500'	40		
	14,500' to 18,000'	100		
	18,000' to 45,000'	130		
	45.000' to 60.000'	100		

NOTE: Additionally, (H) facilities provide (L) and (T) service volume and (L) facilities provide (T) service. Altitudes are with respect to the station's site elevation. Coverage is not available in a cone of airspace directly above the facility.

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The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB	Automatic Weather Broadcast.
DF	Direction Finding Service.
DME	
DME(Y)	
GS	Glide slope.
Н	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB	Non-directional radio beacons providing automatic transcribed weather service.
ILS	Instrument Landing System (voice, where available, on localizer channel).
IM	Inner marker.
ISMLS	Interim Standard Microwave Landing System.
LDA	Localizer Directional Aid.
LMM	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS	Microwave Landing System.
MM	Middle marker.
OM	Outer marker.
S	Simultaneous range homing signal and/or voice.
SABH	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF	Simplified Direction Facility.
TACAN	UHF navigational facility-omnidirectional course and distance information.
VOR	VHF navigational facility-omnidirectional course only.
VOR/DME	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC	Collocated VOR and TACAN navigational facilities.
W	
Z	VHF station location marker at a LF radio facility.

ILS FACILITY PEFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I. II. or III: the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A-4 NM prior to runway threshold, B-3500 ft prior to runway threshold, C-glide angle dependent but generally 750–1000 ft prior to threshold, T-runway threshold, D-3000 ft after runway threshold, and E-2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:



FREQUENCY PAIRING PLAN AND MLS CHANNELING

I REGULATI I ARRING I LAN AND MES GIARMELING									
MLS	VHF	TACAN	MLS	VHF	TACAN	MLS	VHF	TACAN	
CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	CHANNEL	FREQUENCY	CHANNEL	
500	108.10	18X	568	109.45	31Y	636	114.15	88Y	
502	108.30	20X	570	109.55	32Y	638	114.25	89Y	
504	108.50	22X	572	109.65	33Y	640	114.35	90Y	
506	108.70	24X	574	109.75	34Y	642	114.45	91Y	
508	108.90	26X	576	109.85	35Y	644	114.55	92Y	
510	109.10	28X	578	109.95	36Y	646	114.65	93Y	
512	109.30	30X	580	110.05	37Y	648	114.75	94Y	
514	109.50	32X	582	110.15	38Y	650	114.85	95Y	
516	109.70	34X	584	110.25	39Y	652	114.95	96Y	
518	109.90	36X	586	110.35	40Y	654	115.05	97Y	
520	110.10	38X	588	110.45	41Y	656	115.15	98Y	
522	110.30	40X	590	110.55	42Y	658	115.25	99Y	
524	110.50	42X	592	110.65	43Y	660	115.35	100Y	
526	110.70	44X	594	110.75	44Y	662	115.45	101Y	
528	110.90	46X	596	110.85	45Y	664	115.55	102Y	
530	111.10	48X	598	110.95	46Y	666	115.65	103Y	
532	111.30	50X	600	111.05	47Y	668	115.75	104Y	
534	111.50	52X	602	111.15	48Y	670	115.85	105Y	
536	111.70	54X	604	111.25	49Y	672	115.95	106Y	
538	111.90	56X	606	111.35	50Y	674	116.05	107Y	
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y	
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y	
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y	
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y	
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y	
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y	
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y	
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y	
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y	
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y	
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y	
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y	
564	109.25	29Y	632	113.95	86Y				
566	109.35	30Y	634	114.05	87Y				

FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
		GHANNEL						GHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel	TACAN Channel	VHF Frequency	MLS Channel
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	-	102X	115.50	-
37Y	110.05	580	70X	112.30	-	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45	-	104X	115.70	-
39Y	110.25	584	72X	112.50	-	104Y	115.75	668
40X	110.30	522	72Y	112.55	-	105X	115.80	-
40Y	110.35	586	73X	112.60	-	105Y	115.85	670
41X	110.40	-	73Y	112.65	-	106X	115.90	-
41Y	110.45	588	74X	112.70	-	106Y	115.95	672
42X	110.50	524	74Y	112.75	-	107X	116.00	-
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80	-	77Y	113.05	-	110X	116.30	-
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00		79Y	113.25	-	112X	116.50	
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00		119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y 57X	111.95 112.00	618	89X 89Y	114.20 114.25	638	121Y 122X	117.45 117.50	-
57X 57Y	112.00	-	90X	114.25	036	122X 122Y	117.55	-
58X	112.00	-	90X 90Y	114.35	640	123X	117.60	-
58X 58Y	112.10	-	901 91X	114.35	040	123X 123Y	117.65	-
59X	112.15	-	91X 91Y	114.45	642	124X	117.05	-
59X 59Y	112.20	-		114.45	042	124X 124Y		-
60X	133.30	-	92X 92Y	114.50	644	124Y 125X	117.75 117.80	-
		-			044			-
60Y 61X	133.35 133.40	-	93X 93Y	114.60 114.65	646	125Y 126X	117.85 117.90	-
61Y	133.40	-	94X	114.65	-	126X 126Y	117.90	
62X	133.45	-	94X 94Y	114.70	648	1201	111.90	-
62Y	133.55	-	95X	114.75	U++O			
- 021	100.00	-	337	114.00	-			

35 COMM/NAV/WEATHER REMARKS:

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

AFTON MUNI (AFO) 1 SW UTC-7(-6DT) N42°42.53′ W110°56.53′

6221 B S4 FUEL 100LL, JET A OX 1, 2 NOTAM FILE CPR RWY 16-34: H7025X75 (ASPH-PFC) S-24 MIRL 0.5% up S

RWY 16: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Pole. Rgt tfc.

RWY 34: REIL. PAPI(P2L)-GA 3.0° TCH 30'. Tree.

AIRPORT REMARKS: Attended 1500-0000Z‡. Fuel avbl 24 hrs by self svc with credit card. Ultralight activity invof arpt. Snowbanks 4' to 7' along rwys and taxiways edges from Oct-May with slick spots all surfaces. ACTIVATE MIRL Rwy 16-34, REIL Rwy 16 and Rwy 34 and PAPI Rwy 16 and Rwy 34-CTAF.

WEATHER DATA SOURCES-AWOS-3 119.025 (307) 885-2654.

COMMUNICATIONS: CTAF/UNICOM 122.8

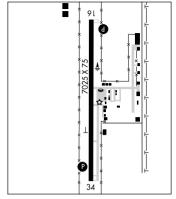
BIG PINEY RCO 122.3 (CASPER RADIO)

SALT LAKE CENTER APP/DEP CON 128.35

RADIO AIDS TO NAVIGATION: NOTAM FILE BPI.

BIG PINEY (H) VORW/DME 116.5 BPI Chan 112 N42°34.77' W110°06.55' 266° 37.7 NM to fld. 6960/16E.





ALPINE (46U) 1 NW UTC-7(-6DT) N43°11.08′ W111°02.55′ 5634 FUEL 100LL TPA-6634(1000) NOTAM FILE CPR

RWY 13-31: H5850X50 (ASPH) S-5

RWY 13: Rgt tfc.

RWY 31: Thid dspicd 400'. Road.

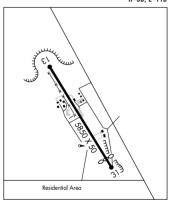
AIRPORT REMARKS: Unattended. Arpt CLOSED nights. Fuel avbl by 24 hr credit card service. Birds on and invof arpt. Glider ops invof arpt, including tfc pat. Fences, buildings and trees within 120' N and S of centerline first 4100' Rwy 31.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE PIH.

POCATELLO (H) VORTACW 112.6 PIH Chan 73 N42°52.22' W112°39.13′ 058° 73.3 NM to fld. 4433/17E.

SALT LAKE CITY H-3D I-11D



ANTELOPE GAP N42°01.82' W104°44.58' RCO 122.2 (CASPER RADIO)

CHEYENNE L-12F

BIG PINEY N42°34.77′ W110°06.55′

RCO 122.3 (CASPER RADIO)

NOTAM FILE BPI.

(H) VORW/DME 116.5 BPI Chan 112 at Miley Mem Fld. 6960/16E.

SALT LAKE CITY H-3D. L-11D 196 WYNMING

BIG PINEY

MILEY MEM FLD (BPI) 3 N UTC-7(-6DT) N42°35.11′ W110°06.67′ 6990 B S2 FUEL 100LL, JET A NOTAM FILE BPI

RWY 13–31: H6803X75 (ASPH–PFC) S–22, D–33.6 MIRL 0.7% up NW

RWY 13: REIL. PAPI(P2L)-GA 3.0° TCH 30'.

RWY 31: REIL. PAPI(P2L)-GA 3.0° TCH 30'.

RWY 08-26: 3300X140 (TURF-DIRT) 0.5% up W

RWY NR. Pole

AIRPORT REMARKS: Attended 1400-0100Z±. For assistance call 307-276-4299. For FBO syc after hrs call 307-749-1410. Fuel avbl 24 hr. Credit card service. Wildlife on and in vicinity of arpt. Rwy 08-26 no line of sight between rwy ends, 3' to 5' snowbanks along rwy and twy edges during winter months. Rwy 31 last 1000' rollout end of rwy amber and white MIRL, ACTIVATE MIRL Rwy 13-31, PAPI Rwy 13 and Rwy 31, and REIL Rwy 13 and Rwy 31-122.7.

WEATHER DATA SOURCES-ASOS 135,225 (307) 276-9917.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.3 (CASPER RADIO)

BIG PINEY RCO 122.3 (CASPER RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE BPI.

BIG PINEY (H) VORW/DME 116.5 BPI Chan 112 N42°34.77' W110°06.55' at fld. 6960/16E.



BOYSEN RESERVOIR N43°27.79′ W108°17.98′ NOTAM FILE CPR. (H) VORW/DME 117.8 BOY

Chan 125 132° 14.9 NM to Shoshoni Muni, 7550/16E.

CHEYENNE H-3E, L-11E

SALT LAKE CITY

H-3D. L-11D

ΙΔΡ

BUFFALO

JOHNSON CO (BYG) 3 NW UTC-7(-6DT) N44°22.87′ W106°43.31′

4968 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE BYG RWY 13-31: H6143X75 (ASPH) S-12.5 MIRL 1.1% up NW

RWY 13: VASI(V2L)-GA 4.0° TCH 36'. Fence.

RWY 31: REIL. VASI(V2L)-GA 3.0° TCH 32'.

AIRPORT REMARKS: Attended Mon-Fri 1500-0000Z‡. Sat

1500-1900Z‡. For fuel after hrs call 307-684-5297. For svc after hrs call 307-684-5297. Terrain drops off both sides of Rwy 13-31. Rwy 31 +250' drop 170' left first 417'. Deer on and invof arpt. NSTD markings Rwy 13-31 thld markings of irregular width, spacing and number. NSTD markings Rwy 31 Twy lead in line to Rwy 31 NSTD spearation from centerline. ACTIVATE MIRL Rwy 13-31, VASI Rwv 13 and Rwv 31 and REIL Rwv 31-CTAF.

WEATHER DATA SOURCES: ASOS 135.425 (307) 684-2558.

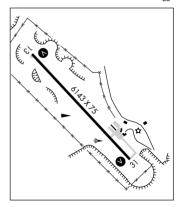
COMMUNICATIONS: CTAF/UNICOM 122.8

CRAZY WOMAN RCO 122.025 (CASPER RADIO)

RADIO AIDS TO NAVIGATIONS: NOTAM FILE CPR.

CRAZY WOMAN (H) VORW/DME 117.3 CZI Chan 120 N43°59.98' W106°26.14' 319° 26.0 NM to fld. 4798/13E.

CHEYENNE H-1E. 2F. L-13D IAP



CAMP GUERNSEY (See GUERNSEY)

CASPER CHEYENNE FSS (CPR) TF 1-800-WX-BRIEF. L-11E. 12F

RCO 122.4 122.2 (CASPER RADIO)

7211

8679

<> b

CASPER

CASPER/NATRONA CO INTL (CPR) 7 NW UTC-7(-6DT) N42°54.48′ W106°27.87′ 5350 B S4 FUEL 100LL, JET A OX 1, 2, 3, 4 LRA Class I, ARFF Index B

CHEYENNE H-3E. 5A. L-11E. 12F IAP, AD

RWY 03-21: H10165X150 (ASPH-GRVD) S-130, D-170, ST-175, DT-270

RWY 03: MALSR, VASI(V4R)-GA 3.0° TCH 53'. RWY 21: REIL. VASI(V4L)-GA 3.0° TCH 56'.

RWY 08-26: H8679X150 (ASPH-GRVD) S-85, D-140. ST-175.

RWY 08: MALSR. VASI(V4R)-GA 3.0° TCH 104'.

RWY 26: REIL. VASI(V4R)—GA 3.0° TCH 43'. 0.4% up.

RWY 17-35: H7211X60 (ASPH-PFC) S-85, D-140, ST-175,

DT-260 0.3% up N

NOTAM FILE CPR

RWY 12-30: H6489X60 (ASPH-PFC) S-12.5. ST-175 0.4% up NW

RUNWAY DECLARED DISTANCE INFORMATION

RWY 03: TORA-10165 TODA-10165 ASDA-10165 LDA-10165 RWY 08: TORA-8679 TODA-8679 ASDA-8679 LDA-8679

RWY 21: TORA-10165 TODA-10165 ASDA-10165 LDA-10165 RWY 26: TORA-8679 TODA-8679 ASDA-8679 LDA-8679

AIRPORT REMARKS: Attended continuously. Emergency power available Rwy 08-26 and Rwy 03-21. Rwy 08-26 and Rwy 03-21 have lighted distance remaining signs. Rwy 12-30 CLOSED indef. Rwy

17-35 CLOSED indef. Rwy 03 touchdown rwy visual range avbl.

Rwy 08 touchdown rwy visual range avbl. 225' crane 1 NM northwest of arpt. When twr clsd ACTIVATE HIRL Rwy 03-21 and Rwy 08-26, MALSR Rwy 03 and Rwy 08 and twy lights—CTAF. US customs user fee arpt. Flight Notification Service (ADCUS) available.

WEATHER DATA SOURCES: ASOS (307) 265-4461. LAWRS (1200-0400Z‡).

COMMUNICATIONS: CTAF 118.3 ATIS 126.15 UNICOM 122.95

CASPER RCO 122.4 122.2 (CASPER RADIO)

- R CASPER APP/DEP CON 120.65 119.0 (1200-0400Z‡)
- R DENVER CENTER APP/DEP CON 135.6 (0400-1200Z‡)

CASPER TOWER 118.3 (1200-0400Z‡) GND CON 121.9 CLNC DEL 121.9

AIRSPACE: CLASS D svc 1200-0400Z‡ other times CLASS E.

RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

MUDDY MOUNTAIN (H) VORTACW 116.2 DDY Chan 109 N43°05.45' W106°16.62' 205° 13.7 NM to fld. 5863/12F

JOHNO NDB (LOM) 375 CP N42°54.43′ W106°34.20′ 077° 4.7 NM to fld.

ILS 111.3 I-SYD Rwy 03. Class IT.

ILS 110.3 I-CPR Rwy 08. Class IE. LOM JOHNO NDB. Glide slope unusable above 7100'.

COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr. For clearance reg and delivery when twr is clsd ctc Casper Radio on 118.3. Ctc Casper Radio for arpt advisory service on 118.3 when twr is clsd. ______

HARFORD FLD (HAD) 5 N UTC-7(-6DT) N42°55.46′ W106°18.57′

CHEYENNE

5370 FUEL 100LL NOTAM FILE CPR

RWY 07-25: 3810X30 (DIRT)

RWY 07: Building.

AIRPORT REMARKS: Unattended. For fuel call arpt manager 307-234-6161. Antelope on and in the vicinity of arpt. Rwy 07 +18' building, 255' from rwy end, 60' left, obstruction slope 18:1. Rwy 07-25 first 270' of rwy from thld can be muddy with standing water after rain. Abandoned arpt 1.5 miles W.

COMMUNICATIONS: CTAF 122.9

CASPER/NATRONA CO INTL (See CASPER)

CHEROKEE N41°45.34′ W107°34.92′ NOTAM FILE CPR.

CHEYENNE H-3E, L-11E

(H) VORW/DME 115.0 CKW Chan 97 065° 17.4 NM to Rawlins Muni. 7050/15E. RCO 122.4 (CASPER RADIO)

NW. 08 APR 2010 to 03 JUN 2010

198 WYNMING

CHEYENNE RGNL/JERRY OLSON FLD (CYS) 1 N UTC-7(-6DT) N41°09.34′ W104°48.63′ CHEVENNE 6159 B S4 FUEL 100LL, JET A, A1 OX 1, 3 Class III, ARFF Index A H-3E, 5A, L-12F ΙΔΡ ΔΠ NOTAM FILE CYS

RWY 09-27: H9270X150 (CONC-GRVD) S-75, D-140, ST-150, DT-150, DDT-250 HIRL

RWY 09: REIL. PAPI(P4L)-GA 3.0° TCH 50'. Thid dspicd 610'.

Tree. 0.4% down.

RWY 27: MALSR. PAPI(P4L)—GA 3.0° TCH 55'. Thid dspicd 675'. 0.7% up.

RWY 13-31: H6690X150 (ASPH-PFC) S-75, D-120, ST-150, DT-150. DDT-200 MIRL 0.5% up NW

RWY 13: REIL. VASI(V4L)-GA 3.0° TCH 30'. Thid dspicd 1060'. Fence

RWY 31: REIL, VASI(V4L)-GA 3.0° TCH 30', Thid dspicd 1160'.

RUNWAY DECLARED DISTANCE INFORMATION

RWY 09: TORA-9270 TODA-9270 ASDA-8595 RWY 13: TORA-6690 TODA-6690 ASDA-5529 RWY 27: TORA-9270 TODA-9270 ASDA-8660 LDA-7985 RWY 31-TORA-6690 TODA-6690 ASDA-5629 I DA-4469

AIRPORT REMARKS: Attended 1300-0500Z‡. After hrs fuel call

307-634-4417. Bird activity invof arpt. Heavy copter tfc 2 NM SW of arpt surface to 1000' AGL during dalgt weekdays. Pilots should avoid F.E. Warren AFHP at all times. Taxiways C, E, F, A1 and A2 are non-movement areas. Twy C CLOSED North of Twy F, Twy D

and Twy G CLOSED indef. Twy C and Twy E hold short lines are for all rwys. Rwy 27 touchdown runway visual range avbl. ACTIVATE HIRL Rwy 09-27, MIRL Rwy 13-31, PAPI Rwy 09 and Rwy 27, VASI Rwy 13 and Rwy 31, REIL Rwy 09, Rwy 13 and Rwy 31 and MALSR Rwy 27-CTAF.

WEATHER DATA SOURCES: ASOS (307) 632-7680, SAWRS.

COMMUNICATIONS: CTAF 118.7 ATIS 134.425 UNICOM 122.95

RCO 122.3 (CASPER RADIO) R APP/DEP CON 124.55 (1300-0500Z±)

(R) DENVER CENTER APP/DEP CON 125.9 (0500-1300Z±)

G G

Residential

Aren

TOWER 118.7 (1300-0500Z‡) GND CON 121.9

AIRSPACE: CLASS D svc 1300-0500Z± other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE CYS.

(H) VORTACW 113.1 CYS Chan 78 N41°12.66′ W104°46.37′ 194° 3.7 NM to fld. 6211/13E.

HORSE NDB (LOM) 353 CY N41°08.80' W104°40.73' 263° 6.0 NM to fld. Horse LOM unmonitored when tower closed.

Rwy 27. Class IB. LOM HORSE NDB. Horse LOM unmonitored when tower closed. ILS 110.1 I-CYS ASR/PAR (Mon-Fri 1500-2300Z‡.

CODY N44°37.23′ W108°57.90′ NOTAM FILE COD. **GREAT FALLS**

Rwy 13-31: 6690 X 150

9270 X 150

Œ Paridontic

~ € Area

G G

Shooning Mall

Residential

(L) VORW/DME 111.8 COD Chan 55 189° 6.5 NM to Yellowstone Rgnl. 4794/14E.

L-13D

VOR portion unusable:

043°-113° bvd 10 NM below 9.500'.

DME unusable:

043°-113° byd 10 NM blo 9,500' 113°-138° bvd 22 NM blo 10.000'

RCO 122.3 (CASPER RADIO)

138°-183° byd 32 NM blo 11,000' 183°-343° byd 30 NM blo 17,000′

CODY

YELLOWSTONE RGNL (COD) 2 SE UTC-7(-6DT) N44°31.21′ W109°01.43′
5102 B S4 FUEL 100, JET A OX 1 Class I, ARFF Index A NOTAM FILE COD
RWY 04-22: H8268X100 (ASPH-GRVD) S-45, D-80, ST-101 MIRL

GREAT FALLS H-1D, L-13D

SALT LAKE CITY

RWY 04: REIL. PAPI(P4L)—GA 3.50° TCH 63'. Thid dspicd 690'.

Road. 0.7% down.

RWY 22: REIL. PAPI(P4L)—GA 3.0° TCH 50'. Thid dspicd 400'.

RUNWAY DECLARED DISTANCE INFORMATION

 RWY 04:
 TORA-8268
 TODA-8268
 ASDA-7868
 LDA-7178

 RWY 22:
 TORA-8268
 TODA-8268
 ASDA-7578
 LDA-7178

AIRPORT REMARKS: Attended dawn-dusk. Low level waterfowl on lake ¼ mile SE of Rwy 04 thld. CLOSED to unscheduled air carrier ops with more than 30 passenger seats except PPR call arpt manager 307-587-5096. ACTIVATE MIRL Rwy 04-22, REIL Rwy 04 and Rwy 22, PAPI Rwy 04 and Rwy 22—CTAF.

WEATHER DATA SOURCES: AWOS-3 135.075 (307) 527-5197.

COMMUNICATIONS: CTAF/UNICOM 122.8

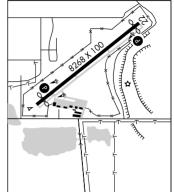
CODY RCO 122.3 (CASPER RADIO)

SALT LAKE CENTER APP/DEP CON 133.25

AIRSPACE: CLASS E svc continuous.

RADIO AIDS TO NAVIGATION: NOTAM FILE COD.

CODY (L) VORW/DME 111.8 COD Chan 55 N44°37.23′ W108°57.90′ 189° 6.5 NM to fld. 4794/14E.



COKEVILLE MUNI (UØ6) 3 S UTC-7(-6DT) N42°02.75' W110°57.96'

6270 B NOTAM FILE CPR

RWY 15-33: H3400X60 (ASPH) S-10 MIRL (NSTD)

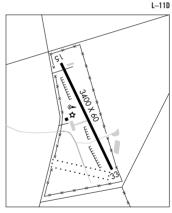
RWY 33: Fence.

AIRPORT REMARKS: Unattended. 120' high electrical transmission lines running E–W 2 miles N of arpt. +2' ground 70' W of centerline full length. Uncontrolled vehicle access to arpt. Rwy 15–33 elevation highest near midfield. Rwy 15–33 extensive cracking and uneven pavement surface. No line of sight between rwy ends. Rwy 15–33 NSTD MIRL has irregular spacing due to missing and broken lights. Some thid lenses clear. Variable rwy conditions and braking action during winter months due to thawing and freezing precipitation. Rwy 15 red edge lighting along unusable pavement, 1400' to relocated thid Rwy 15. ACTIVATE MIRL Rwy 15–33—CTAF

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

FORT BRIDGER (L) VORW/DME 108.6 FBR Chan 23 N41°22.71′ W110°25.45′ 315° 46.9 NM to fld. 7060/14E.



CONVERSE CO (See DOUGLAS)

COWLEY N44°54.84′ W108°26.59′ NOTAM FILE CPR.

NDB (MHW) 257 HCY at North Big Horn Co.

BILLINGS L-13D 200 WYNMING

COWLEY/LOVELL/BYRON

NORTH BIG HORN CO (U68) 2 N UTC-7(-6DT) N44°54.70′ W108°26.73′

4090 B FUEL 100LL NOTAM FILE CPR MIRI

RWY 09-27: H5199X75 (ASPH) S-12.5 RWY 09: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Hill.

RWY 27: REIL. PAPI(P2L)-GA 3.0° TCH 40'. Hill.

RWY 16-34: 1866X65 (DIRT) 0.3% up SE

AIRPORT REMARKS: Attended Mon-Sat 1500-0000Z‡. For attendant after hours call 307-548-6236, CLOSED all major holidays, Rwy 16-34 soft when wet. Reflective markers mark entrance to twy and turnaround. ACTIVATE MIRL Rwy 09-27 and PAPI Rwy 09 and Rwv 27 and REIL Rwv 09 and Rwv 27-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.925 (307) 548-2560.

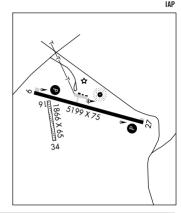
COMMUNICATIONS: CTAF/UNICOM 122.8

R SALT LAKE CENTER APP/DEP CON 133.25

RADIO AIDS TO NAVIGATION: NOTAM FILE COD.

CODY (L) VOR/DME 111.8 COD Chan 55 N44°37.23' W108°57.90' 038° 28.3 NM to fld. 4794/14E.

COWLEY NDB (MHW) 257 HCY N44°54.84′ W108°26.59′ at fld. NOTAM FILE CPR.



CRAZY WOMAN N43°59.98' W106°26.14' NOTAM FILE CPR.

(H) VORW/DME 117.3 CZI Chan 120 319° 26.0 NM to Johnson Co. 4798/13E.

H-1E, 2F, L-11E, 12F

RCO 122.025 (CASPER RADIO)

6520 B NOTAM FILE CPR

DERYK N44°16.25′ W105°31.33′ NOTAM FILE GCC.

NDB (MHW) 380 GC 339° 4.7 NM to Gillette-Campbell Co. Unmonitored 0500-1300Z‡.

CHEYENNE L-12F. 13E

CHEYENNE

RILLINGS

H-1E. L-13D

DIXON (9U4) 2 E UTC-7(-6DT) N41°02.30′ W107°29.84′

CHEYENNE H-3E, L-9E, 11E

RWY 06-24: H7500X75 (ASPH) S-12 MIRL

RWY 06: REIL. PAPI(P2L)-GA 3.0° TCH 30'.

RWY 24: REIL. Fence.

AIRPORT REMARKS: Unattended. Wildlife on and in vicinity of arpt. Plus 500' terrain 9,700' from AER 24. Snow banks +4' along entire rwy winter months. ACTIVATE MIRL Rwy 06-24, REIL Rwy 06; Rwy 24 and PAPI Rwy 06—CTAF. Snow removal on 24 hour PPR call 307-383-6630/6245/2602.

WEATHER DATA SOURCES: AWOS-A 119.425. Weather report unavbl indef.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE DEN.

HAYDEN (H) VORW/DME 115.6 CHE Chan 103 N40°31.21′ W107°18.29′ 330° 32.3 NM to fld. 7269/14E.

DOUGLAS

CONVERSE CO (DGW) 3 N UTC-7(-6DT) N42°47.83′ W105°23.15′

4937 B S4 FUEL 100LL, JET A NOTAM FILE DGW

RWY 11-29: H6534X100 (ASPH) MIRL 0.4% up SE

RWY 11: PAPI(P2L)-GA 3.0° TCH 31'.

RWY 29: REIL. PAPI(P2L)-GA 3.0°. TCH 41'.

RWY 05-23: H4760X75 (ASPH) S-12.5 MIRL 0.3% up NE

RWY 23: PAPI(P2L)-GA 3.0° TCH 46'. Hill.

AIRPORT REMARKS: Attended Mon-Fri 1330-0030Z±. Sat-Sun

1500-0000Z‡. Wildlife on and invof arpt. Retro-reflective markers along all twys. MIRL Rwy 11-29 and Rwy 05-23 preset on low

intensity, to increase intensity and ACTIVATE REIL Rwy 29-CTAF. PAPI Rwy 11, Rwy 23 and Rwy 29 opr continuously.

WEATHER DATA SOURCES: ASOS 135.225 (307) 358-4448.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 121.975 (CASPER RADIO)

DENVER CENTER APP/DEP CON 135.6

RADIO TO NAVIGATION: NOTAM FILE DGW.

HIPSHER (L) VORW/DME 108.6 IIP Chan 23 N42°40.57'

W105°13.57' 304° 10.1 NM to fld. 4906/12E.

HELIPAD H1: H60X60 (ASPH) HELIPAD H2: H60X60 (ASPH)

DUBOIS MUNI (U25) 3 NW UTC-7(-6DT) N43°32.90′ W109°41.42′

7291 R FUEL 100LL NOTAM FILE CPR

RWY 10-28: H6100X60 (ASPH-PFC) S-24 MIRL

RWY 10: Ground. PAPI(P2L)-GA 3.0° TCH 40'.

RWY 28: Ground. Rgt tfc.

AIRPORT REMARKS: Unattended. Fuel avbl prior arrangement only,

307-455-2061/2100. Ultra-light activity at arpt. ACTIVATE MIRL Rwy 10-28-CTAF.

WEATHER DATA SOURCES: AWOS-3 118.275 (307) 455-2211.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

BOYSEN RESERVOIR (H) VORW/DME 117.8 BOY Chan 125

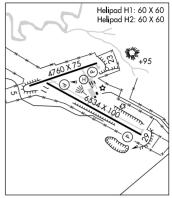
N43°27.79′ W108°17.98′

259° 60.9 NM to fld. 7550/16E.

CHEVENNE H-3E. 5A. L-12F ΙΔΡ

SALT LAKE CITY

H-3D, L-11D



Mountains

DUNDIR N43°49.70′ W110°20.13′ NOTAM FILE CPR.

(H) VORW/DME 117.2 DNW Chan 119 218° 22.0 NM to Jackson Hole. 7720/15E.

VOR/DME unusable:

010°-030° byd 25 NM blo 17,000′

030°-130° byd 15 NM

130°-210° byd 20 NM

210°-230° byd 25 NM

RCO 122.6 (CASPER RADIO)

SALT LAKE CITY H-1D, L-11D

230°-240° byd 20 NM 240°-270° byd 30 NM

270°-330° byd 20 NM

330°-340° byd 10 NM 340°-010° byd 15 NM

ELK MOUNTAIN EHY N41°43.52′ W106°27.57′ /7299.

AWOS-3 118.8 307-348-7320 CHEYENNE

H-3E, L-11E

EVANSTON UINTA CO BURNS FLD (EVW) 3 W UTC-7(-6DT)

RWY 05-23: H7300X100 (ASPH-GRVD) S-30 HIRL

RWY 05: REIL. PAPI (P4L)-GA 3.0° TCH 45'.

RWY 23: MALSR. REIL. PAPI(P4L)-GA 3.0° TCH 45'

AIRPORT REMARKS: Attended 1400–0200Z‡. Wildlife on and in vicinity of arpt. ACTIVATE HIRL Rwy 05–23, MALSR Rwy 23, REIL Rwy 05 and Rwy 23—CTAF. PAPI Rwy 05 and Rwy 23 on continuously.

WEATHER DATA SOURCES: ASOS 120.0 (307) 789-0585.

COMMUNICATIONS: CTAF/UNICOM 123.0

SALT LAKE CENTER APP/DEP CON 127.7

GCO 121.72 (SALT LAKE CENTER CLNC)

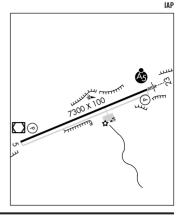
RADIO AIDS TO NAVIGATION: NOTAM FILE EVW.

EVANSTON (T) VORW/DME 109.6 EVW Chan 33 N41°16.35′ W111°02.81′ at fld. 7145/13E.

ILS/DME 108.9 I–EVW Chan 26 Rwy 23. Class IE. GS unusable byd 5° rgt of course.

N41°16.49′ W111°02.08′

SALT LAKE CITY H-3D, L-9D, 11D



FORT BRIDGER (FBR) 4 N UTC-7(-6DT) N41°23.60′ W110°24.37′

7034 B S4 FUEL 100LL NOTAM FILE CPR

RWY 04-22: H6402X80 (ASPH) S-12.5, D-20, DT-20 MIRL (NSTD) 0.5% up SW

RWY 22: REIL. VASI(V2L)—GA 3.0° TCH 22'.

RWY 06-24: 3600X50 (TURF-DIRT)

RWY 06: Fence.

AIRPORT REMARKS: Attended Mon–Fri 1500–00002‡. For service other times call 307–782–3780. Fuel avbl by 24 hr card service. Rwy 06–24 unmaintained. Numerous prairie dog holes, sage brush and depressions on sfc. Rwy 04–22 and Rwy 06–24 CLOSED winter months except for ski equipment acft, dirt/turf rwys not maintained. Rwy 06 +3′ metal structure at thId 58′ left. Rwy 04–22 lgts irregular spacing due to broken and missing lgts. Rwy 04–22 extensive cracking, uneven surface, and vegetation. Rwy 04 and Rwy 22 markings almost completly faded. 3′–5′ snow banks on S side of Rwy 04–22 Nov–Mar. Rwy 04–22 plowed winter months. Rwy 22 REIL OTS indef. VASI Rwy 22 OTS indef. Wind indicator lgt OTS indef. ACTIVATE MIRL Rwy 04–22, and REIL Rwy 22-2 and VASI Rwy 22-CTAF.

WEATHER DATA SOURCES: AWOS-2 118.8 (307) 782-3226.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.3 (CASPER RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

(L) VORW/DME 108.6 FBR Chan 23 N41°22.71′ W110°25.45′ 028° 1.2 NM to fld. 7060/14E.

GENERAL BREES FLD (See LARAMIE)

SALT LAKE CITY

IAP

GILLETTE-CAMPBELL CO (GCC) 4 NW UTC-7(-6DT) N44°20.94′ W105°32.36′ CHEYENNE 4365 B S4 FUEL 100LL, JET A OX 1, 2 TPA-See Remarks H-1E, 2F, L-12F, 13E Class II, ARFF Index A NOTAM FILE GCC ΙΔΡ HIRI RWY 16-34: H7500X150 (CONC-GRVD) S-60, D-110, ST-139, DT-160 0.4% un SF RWY 16: REIL. PAPI(P4L)—GA 3.17° TCH 43'. Road. RWY 34: MALSR. PAPI(P4L)-GA 3.2° TCH 56'. P-line. RWY 03-21: H5803X75 (CONC-GRVD) S-40 0.4% up SW RWY 03: REIL. PAPI(P4L)-GA 4.0° TCH 41'. RWY 21: REIL, PAPI(P4L)-GA 4.0° TCH 39'. RUNWAY DECLARED DISTANCE INFORMATION RWY 03: TORA-5803 TODA-5803 ASDA-5803 LDA-5803 RWY 16: TORA-7500 TODA-7500 ASDA-7500 LDA-7500 RWY 21: TORA-5803 TODA-5803 ASDA-5803 LDA-5803 RWY 34: TORA-7500 TODA-7500 ASDA-7500 LDA-7500 AIRPORT REMARKS: Attended 1300-0500Z±, 24 hr self service credit card fuel avbl. Migratory waterfowl invof arpt. Mining/blasting ops ½ mile NE AER 21 during dalgt hours ctc twr. TPA-5165 (800) for light acft, 5565(1200) for large acft. PPR unscheduled air carrier operations with more than 30 passenger seats call arpt manager 307-686-1042. Portions of Twy C not visible from twr. When twr closed ACTIVATE HIRL Rwy 16-34, MIRL Rwy 03-21, MALSR Rwy 34, PAPI Rwy 03, Rwy 21, Rwy 16 and Rwy 34-CTAF. When twr closed sequence flashers Rwv 34 available on high setting only. REIL Rwv 03, Rwv 21 and Rwv 16 not available. WEATHER DATA SOURCE: ASOS 124.175 (307) 682-1745. SAWRS (1300-0500Z‡). COMMUNICATIONS: CTAF 118.5 UNICOM 122.95

RCO 122.3 (CASPER RADIO)

DENVER CENTER APP/DEP CON 135.6

TOWER 118.5 (1300-0500Z±) GND CON 121.7

AIRSPACE: CLASS D svc 1300-0500Z tother times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE GCC.

(H) VORW/DME 114.6 GCC Chan 93 N44°20.87′ W105°32.61′ at fld. 4334/12E.

VOR unusable:

250°-275° bvd 20 NM below 8000'

DME unusable:

160°-190° byd 25 NM below 10,300′

190°-265° byd 20 NM below 8000′

DERYK NDB (MHW) 380 GC N44°16.25′ W105°31.33′

190°-265° byd 30 NM below 13,000' 265°-330° byd 22 NM below 10,500' 339° 4.7 NM to fld. Unmonitored 0500-1300Z‡.

ILS/DME 110.1 I-LLT Chan 38 Rwy 34. Class IT. GS unusable byd 8 NM.

GI FNDO

THOMAS MEM (76V) 1 N UTC-7(-6DT) N42°31.13′ W105°01.15′

CHEYENNE

NOTAM FILE CPR

RWY 16-34: 4397X70 (DIRT-TURF)

RWY 16: Tree RWY 34: Road

AIRPORT REMARKS: Unattended, CAUTION; occasional antelope on rwy, Ctc arpt manager 307-921-9623 prior to use for surface condition. Rwy 16-34 first 500' SE end very rough and 1+' grass entire length of rwy. Rwy 16-34 muddy, slick and soft when wet, occasional gopher holes.

COMMUNICATIONS: CTAF 122.9

GRFFN RIVFR

GTR GREEN RIVER INTERGALACTIC SPACEPORT (48U) 4 S UTC-7(-6DT)

SALT LAKE CITY

N41°27.48′ W109°29.42′

NOTAM FILE CPR 7182

RWY 04-22: 5800X130 (DIRT)

AIRPORT REMARKS: Unattended. Uncontrolled vehicle access. Rwy soft when wet. Deep ruts and tall grass full length of rwy. 3' berm near rwy edges entire length of rwy. Rwy 04-22 width may vary based on grading. Airport on top of mountain, land descends very steeply from rwy ends. No line of sight between rwy ends. No snow removal

COMMUNICATIONS: CTAF 122.9

204 MAUWING

GREYBULL

SOUTH BIG HORN CO (GEY) 2 NW UTC-7(-6DT) N44°31.01′ W108°04.97′ 3939 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE GEY

S-85, D-150, ST-175, DT-290 MIRI

RWY 15-33: H6302X100 (ASPH-PFC) RWY 15: VASI(V2L)-GA 3.0° TCH 40'.

RWY 33: VASI(V2R)-GA 3.0° TCH 40'.

RWY 07-25: H3699X75 (ASPH) S-12.5 0.6% up W

AIRPORT REMARKS: Attended Mon-Fri 1430-2330Z‡. For svc after hrs call 307-765-9214. Fuel 24 hr credit card service avbl. JET A avbl during attendance hrs. After hrs call numbers posted on north side of terminal building. Antelope on and invof rwy. Terrain 1066' aby arpt elevation 4-5 miles N and NE of arpt. No location or directional signage on arpt. Rwy 15 VASI OTS indef. ACTIVATE MIRL Rwv 15-33 and VASI Rwv 15 and Rwv 33-CTAF.

WEATHER DATA SOURCES: ASOS 135.325 (307) 765-9406.

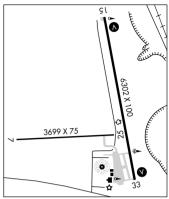
COMMUNICATIONS: CTAF 122.8

SALT LAKE CENTER APP/DEP CON 133.25

RADIO AIDS TO NAVIGATION: NOTAM FILE WRL.

WORLAND (L) VORW/DME 114.8 RLY Chan 95 N43°57.85' W107°57.05' 337° 33.6 NM to fld. 4190/13E.

GREYBULL NDB (MHW) 275 GEY N44°30.69′ W108°04.98′ at fld. NOTAM FILE GEY.



GREYBULL N44°30.69' W108°04.98'. NOTAM FILE GEY. NDB (MHW) 275 GEY at South Big Horn Co.

BILLINGS L-13D

CHEYENNE

IAP

H-3E, 5A, L-12F

BILLINGS

ΙΔΡ

H-1E. L-13D

GTR GREEN RIVER INTERGALACTIC SPACEPORT (See GREEN RIVER)

GUERNSEY

CAMP GUERNSEY (7V6) (K7V6) CIV/MIL 1 SE UTC-7(-6DT) N42°15.58' W104°43.70' 4400 B S2 FUEL 100LL NOTAM FILE CPR

RWY 14-32: H5499X75 (ASPH-PFC) D-175 PCN 49 R/B/W/T MIRL (NSTD) 1.3% up NW

RWY 14: PAPI(P4L)-GA 3.3° TCH 38'.

RWY 32: PAPI(P4L)-GA 3.3° TCH 38'. Rgt tfc.

MILITARY SERVICE: FUEL J8 (Mil) (NC-100LL)

AIRPORT REMARKS: Attended 1500-0000Z‡. Fuel avbl 24 hr credit card service. Deer and antelope on and invof rwy. 40' drop off on both approach ends of rwy. Rwy 14-32 25' asphalt non-weight bearing shoulder. Fixed wing acft ground operations limited to rwy sfc only, no off rwy parking available. Rwy 14-32 NSTD MIRL, thld lights only, 3 lights each side, Rwy 32 has NPI approach. markings are basic. Parallel twy for civilian and military use. Air/Ground equipment and Crash Rescue available at ETA/ETD if required with PPR. ACTIVATE MIRL Rwv 14-32-CTAF.

MILITARY REMARKS: RSTD All transient acft PPR DSN 388-7832/7810. CAUTION: C130 must use concrete turn around at each thid or center intersection. Extensive helicopter and C130 operations year round. Extensive military rotor wing and C130 fixed wing operations year round. Fixed wing acft over 12,500 lbs must use concrete turnarounds at each thid and center of Rwy 14-32. TFC PAT Fixed wing turbo 5900'. Rotary Wing. 5100'.

MISC R-7001 A,B,C 6 NM northwest. Small arms range 1 NM south. ARNG No transient maintenance.

COMMUNICATIONS: CTAF/UNICOM 122.7

DENVER CENTER APP/DEP CON 135.6 363.025

RADIO AIDS TO NAVIGATION: NOTAM FILE DGW.

HIPSHER (L) VORW/DME 108.6 IIP Chan 23 N42°40.57′ W105°13.57′ 126° 33.4 NM to fld. 4906/12E. NDB (HW) 280 GYZ N42°14.40′ W104°42.86′ 321° 1.3 NM to fld. NOTAM FILE CPR. Unusable 110°-120° byd 25 NM blo 6500'; 195°-280°.

HARFORD FLD (See CASPER)

HIPSHER N42°40.57′W105°13.57′ NOTAM FILE DGW.

(L) VORW/DME 108 6 IIP Chan 23 304° 10.1 NM to Converse Co. 4906/12E. CHEYENNE L-12F

00000000

HORSE N41°08.80′ W104°40.73′. NOTAM FILE CYS.

NDB (LOM) 353 CY 263° 6.0 NM to Cheyenne Rgnl/Jerry Olson Fld. Unmonitored when twr clsd.

CHEYENNE

BILLINGS

H-2G, L-12F, 13E

HOT SPRINGS CO-THERMOPOLIS MUNI (See THERMOPOLIS)

HULETT MUNI (W43) 2 SE UTC-7(-6DT) N44°39.77′ W104°34.07′

4264 B FUEL 100LL NOTAM FILE CPR

RWY 13-31: H5500X75 (ASPH) S-12.5 MIRL

RWY 13: REIL. PAPI(P2L)-GA 4.00° TCH 40'.

RWY 31: REIL. PAPI(P2L)—GA 4.00° TCH 40'. Hill. Rgt tfc.

AIRPORT REMARKS: Unattended. 24 hr self service credit card fuel avbl. Radio controlled acft occasional opr 0.5 miles E of AER Rwy 31 blo 400' AGL. Devils Tower National Monument located

approximately 7 miles SW of arpt. Voluntary 2 mile flight

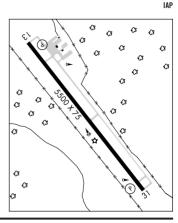
avoidance radius in effect Jan-May and Jul-Dec. Voluntary 3 mile flight avoidance radius in effect in Jun. Retro-reflective markers along twys. ACTIVATE MIRL Rwy 13-31 and REIL Rwy 13 and Rwy 31—CTAF

WEATHER DATA SOURCES: AWOS-3 128.775 (307) 467-5575.

COMMUNICATIONS: CTAF/UNICOM 122.8

DENVER APP/DEP CON 127.95 RADIO AIDS TO NAVIGATION: NOTAM FILE GCC.

GILLETTE (H) VORW/DME 114.6 GCC Chan 93 N44°20.87′ W105°32.61' 053° 46.0 NM to fld. 4334/12E.



HUNT FLD (See LANDER)

JACKSON HOLE (JAC) 7 N UTC-7(-6DT) N43°36.44′ W110°44.27′ SALT LAKE CITY 6451 B S4 FUEL 100, JET A OX 3 ARFF Index See Remarks. NOTAM FILE IAC H-3D I-11D S-75, D-200, ST-175, DT-380 HIRL ΙΔΡ ΔΠ RWY 01-19: H6300X150 (ASPH-PFC) 0.6% up N RWY 19: MALS. PAPI(P4L)-GA 3.0° TCH 38'. RWY 01: MALS. PAPI(P4L)-GA 3.0° TCH 50'. Road. AIRPORT REMARKS: Attended 1300-0500Z‡. On call 24 hours phone 307-733-4767 or 307-739-1999. Class I, ARFF Index B. Only ARFF Index B avbl Jun 1 through Oct 31 and Apr 16 through May 30. ARFF avbl only during scheduled air carrier ops unless PPR. PPR for unscheduled air carrier ops with more than 30 passenger seats call arpt manager 307-733-7682. PPR. Sage grouse on and in vicinity of arpt Apr-Oct. 35'-53' trees 700'-800' west of thld Rwy 01. Possible severe winter conditions from Nov-Apr check NOTAMS for arpt conditions, no arpt information nor snow removal guaranteed during hours of nonattendance. Hang gliding ops 9 miles south of arpt near ski area and 9 miles south southwest of arpt along the ridge. Balloon ops invof arpt, W and SW, May-Oct. Noise abatement procedures in effect for acft departures on Rwy 19. Contact airport management at 307-733-7682. All stage 2 acft, regardless of weight, prohibited. For public health and safety flts, ctc arpt manager at 307-733-6474. When ATCT closed ACTIVATE HIRL Rwy 01-19, MALS Rwy 01-19, Twy Igts and wind tee-CTAF. WEATHER DATA SOURCES: AWOS-3 120.625 (307) 739-9108 (0400-1400Z±), SAWRS (1400-0400Z±) COMMUNICATIONS: CTAF 118.075 ATIS 120.625 IINICOM 122 95 RCO 122 05 (CASPER RADIO) SALT LAKE CENTER APP/DEP CON 133.25 TOWER 118.075 (1400-0400Z‡) GND CON 124.55 AIRSPACE: CLASS D svc 1400-0400Z‡ other times CLASS E. RADIO AIDS TO NAVIGATION: NOTAM FILE JAC. (L) VORW/DME 115.4 JAC Chan 101 N43°37.26′ W110°43.90′ at fld. 6452/13E. VOR/DME unusable: 020°-035° byd 20 NM 135°-160° bvd 20 NM 035°-048° byd 11 NM 160°-180° byd 30 NM 048°-070° bvd 5 NM blo 16.000' 180°-205° bvd 35 NM 048°-070° byd 10 NM 205°-220° byd 20 NM blo 15,000' 070°-090° byd 20 NM 220°-270° byd 10 NM 090°-110° byd 15 NM 270°-280° bvd 8 NM blo 15.000' 110°-130° byd 20 NM 270°-335° byd 10 NM 130°-135° byd 15 NM 335°-350° bvd 15 NM. ILS/DME 109.1 I-JAC Chan 28 Rwy 19. ILS unmonitored. Localizer unusable byd 15° right of course.

JOHNO N42°54.43′ W106°34.20′ NOTAM FILE CPR.

NDB (LOM) 375 CP 077° 4.7 NM to Casper/Natrona Co Intl.

CHEYENNE

JOHNSON CO (See BUFFALO)

KEMMERER MUNI (EMM) 2 NW UTC-7(-6DT) N41°49.44′ W110°33.42′ 7285 B FUEL 100LL, JET A NOTAM FILE CPR

SALT LAKE CITY H-3D. L-11D

RWY 16: REIL. PAPI(P2L). RWY 34: REIL. PAPI(P2L). Fence.

RWY 10-28: 3250X60 (TURF-DIRT)

RWY 10: Fence. RWY 28: Road.

RWY 04-22: H2668X60 (CONC) S-9 MIRI

RWY 16-34: H8208X75 (ASPH-PFC) S-18 MIRL

RWY 22: VASI(V2L). Rgt tfc.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z‡. Fuel avbl 24 hrs via self-serve credit card pump, CAUTION; Wildlife on and in vicinity of arpt. Rwy 10-28 CLOSED winter months. Acft over 33,000 pounds prohibited. Terrain drops off steeply 81' prior to apch end Rwy 04. Terrain drops off steeply 55' prior to apch end Rwy 10. Rwy 10-28 large rocks, depressions and mounds on rwy sfc. ACTIVATE MIRL Rwy 04-22 and Rwy 16-34, VASI Rwy 22, REIL Rwv 16 and Rwv 34. PAPI Rwv 16 and Rwv 34-CTAF.

WEATHER DATA SOURCES: AWOS-3 119.675 (307) 877-9838.

COMMUNICATIONS: CTAF/UNICOM 122.8

R SALT LAKE CENTER APP/DEP CON 124.35 RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

FORT BRIDGER (L) VORW/DME 108.6 FBR Chan 23 N41°22.71'

W110°25.45′ 333° 27.4 NM to fld. 7060/14E.

KLINT N43°00.85′ W108°18.31′. NOTAM FILE RIW. CHEYENNE

LANDER

HUNT FLD (LND) 1 S UTC-7(-6DT) N42°48.91′ W108°43.79′ 5586 B S4 FUEL 100LL, JET A NOTAM FILE LND

NDB (LOM) 217 RI 280° 7.4 NM to Riverton Rgnl. Unmonitored.

RWY 03-21: H5000X100 (ASPH-PFC) S-30 MIRL (NSTD) RWY 21: PAPI(P2L)-GA RWY 03: PAPI(P2L)—GA 3.0°. Tree.

3.0°.

AIRPORT REMARKS: Attended daylight hrs. For sys after hrs call 307-332-3I34/5291 or 301-330-8668. Bird activity invof of arpt. For MIRL Rwv 03-21 kev 122.8 3 times. Right traffic permissible on Rwy 21 departure during heavy winds to avoid the mountains due to severe downdrafts. Rwy 03-21 NSTD MIRL thld Igts Rwv 03 irregular spacing with 3 lgts on right and four lgts on left. ACTIVATE NSTD MIRL Rwy 03-21 and PAPI Rwy 03 and Rwy 21-CTAF.

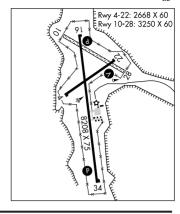
WEATHER DATA SOURCES: ASOS 118.15 (307) 332-7707.

COMMUNICATIONS: CTAF/UNICOM 122.8

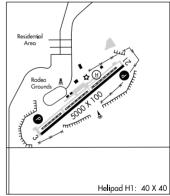
RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

BOYSEN RESERVOIR (H) VORW/DME 117.8 BOY Chan 125 N43°27.79′ W108°17.98′ 190° 43.2 NM to fld. 7550/16E.

HELIPAD H1: H40X40 (ASPH-PFC)



CHEYENNE H-3E. L-11E



208 MAUWING

LARAMIE RGNL (LAR) 3 W UTC-7(-6DT) N41°18.72′ W105°40.50′ CHEVENNE 7284 B S1 FUEL 100LL, JET A OX 2 TPA-8084(800) Class II, ARFF Index A H-3E, 5A, L-12F NOTAM FILE LAR RWY 03-21: H8500X150 (ASPH-PFC) S-86, D-105, ST-133, DT-160 MIRI RWY 03: REIL. PAPI(P4L)—GA 3.0° TCH 32'. RWY 21: REIL. VASI(V4L)-GA 3.0° TCH 53'. RWY 12-30: H6300X100 (ASPH-PFC) S-86, D-105, ST-133, DT-160 MIRI RWY 12: REIL. PAPI(P4L)-GA 3.0° TCH 43'. RWY 30: ODALS, VASI(V4L)-GA 3.0° TCH 41'. RUNWAY DECLARED DISTANCE INFORMATION RWY 03: TORA-8500 TODA-8500 ASDA-8500 LDA-8500 RWY 12: TORA-6300 TODA-6300 ASDA-6300 LDA-6300 RWY 21: TORA-8500 TODA-8500 ASDA-8500 LDA-8500 RWY 30: TORA-6300 TODA-6300 ASDA-6300 LDA-6300 AIRPORT REMARKS: Attended Sat 1300-0100Z±. Sun-Fri 1300-0400Z‡. AfId sfc condition not monitored 0400-1300Z‡. PPR for unscheduled air carrier ops with more than 30 passenger seats, call arpt manager 307-742-4164. ACTIVATE MIRL Rwys 03-21 and 12-30, PAPI Rwys 03 and 12, VASI Rwys 21 and 30, REIL Rwv 03, 12 and 21 and ODALS Rwv 30-CTAF. WEATHER DATA SOURCES: ASOS 135.475 (307) 742-6398. COMMUNICATIONS: CTAF/UNICOM 123.05 RCO 122.6 (CASPER RADIO) DENVER CENTER APP/DEP CON 125.9 RADIO AIDS TO NAVIGATION: NOTAM FILE LAR.

LAR Chan 123 N41°20.27′ W105°43.26′ 113° 2.6 NM to fld. 7280/14E.

LUSK MUNI (LSK) 3 E UTC-7(-6DT) N42°45.23′ W104°24.27′ 4964 B FUEL 100LL NOTAM FILE CPR

RWY 10-28: H5058X75 (ASPH) S-12.5 MIRI

160°-240° byd 27 NM blo 11,000′

240°-285° byd 27 NM blo 12,500'

RWY 10. P_line RWY 28: REIL. PAPI(P2L)-GA 3.0° TCH 40'.

AIRPORT REMARKS: Unattended, For fuel call arpt manager

307-334-3622 or 307-340-0548. Unlimited vehicle access to rwy. ACTIVATE MIRL Rwy 10-28-CTAF. PAPI Rwy 28 on continuously

WEATHER DATA SOURCES: AWOS-3 118.35 (307) 334-4028.

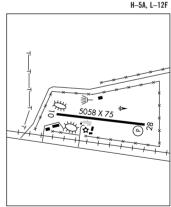
COMMUNICATIONS: CTAF/UNICOM 122.8

(L) VORTACW 117.6

VORTAC unusable:

RADIO AIDS TO NAVIGATION: NOTAM FILE DGW.

HIPSHER (L) VORW/DME 108.6 IIP Chan 23 N42°40.57' W105°13.57' 070° 36.6 NM to fld. 4906/12E.



015°-140° byd 15 NM blo 9,000'

MEDICINE BOW (8ØV) 2 SE UTC-7(-6DT) N41°53.00′ W106°10.85′

CHEYENNE

CHEYENNE

ΙΔΡ ΔΠ

NOTAM FILE CPR RWY 10-28: 3170X80 (TURF-DIRT) RWY 10: Fence. RWY 28: Fence. RWY 06-24: 2680X50 (TURF-DIRT)

RWY 24. Fence

AIRPORT REMARKS: Unattended. CAUTION: Wildlife and livestock invof all rwys. Rwy 06-24 is no longer maintained. Rwy 06-24, -9 to 12 inch berms both sides of rwy. Rwy 10-28 graded. Gopher holes on rwy surfaces, rwys very soft when wet, Rwy 10-28 rough and uneven, Rwy 10-28 has some gopher holes, Rwy 10-28 1' ditch south of rwy. Rwy 06-24 rough and uneven full length, numerous gopher and badger holes. Rwy 10-28 marked with orange 3' x 2' cones. Thid markings skewed at angle to rwy. Rotating bcn OTS indef.

COMMUNICATIONS: CTAF 122.9

MEDICINE BOW N41°50.73′ W106°00.26′ NOTAM FILE CPR.

(L) VORW/DME 111.6 MBW Chan 53 272° 8.2 NM to Medicine Bow. 7000/14E. RCO 122.5 (CASPER RADIO)

CHEYENNE H-3E, 5A, L-12F

MILEY MEM FLD (See BIG PINEY)

MONDELL FLD (See NEWCASTLE)

MUDDY MOUNTAIN N43°05.45′ W106°16.62′ NOTAM FILE CPR.

CHEYENNE

(H) VORTACW 116.2 DDY Chan 109 205° 13.7 NM to Casper/Natrona Co Intl. 5863/12E.

H-2F, 3E, 5A, L-11E, 12F

NEWCASTLE N43°52.87′ W104°18.47′. NOTAM FILE CPR.

CHEYENNE L-12F

CHEYENNE

H-2G. L-12F

(L) VORW 108.2 ECS at Mondell Fld. 4210/11E

VOR unusable

003°-023° beyond 25 NM below 10,500′

023°-043° beyond 25 NM

043°-063° beyond 25 NM below 12,000'

RCO 122.5 (CASPER RADIO)

063°-093° beyond 30 NM below 11,000′ 093°-113° beyond 30 NM below 10,500′ 328°-003° beyond 25 NM below 9.000′

NEWCASTLE

MONDELL FLD (ECS) 5 NW UTC-7(-6DT) N43°53.13′ W104°19.08′

4174 B FUEL 100LL, JET A NOTAM FILE CPR

RWY 13-31: H5300X75 (CONC) S-30 MIRL

RWY 13: REIL. PAPI(P2L)—GA 3.0° TCH 27'. Thid dsplcd 500'. Railroad. Rgt tfc.

RWY 31: ODALS. PAPI(P2L)-GA 3.0° TCH 26'.

RWY 17–35: 2666X40 (TURF–DIRT) 0.8% up NW **RWY 35**: Fence.

RWY 05-23: 2220X50 (TURF-DIRT) 0.7% up NE

RWY 05: Fence. RWY 23: P-line.

AIRPORT REMARKS: Attended 1500–0000Z‡. For attendant after hours call 307–746–9732. For fuel after hrs phone 307–746–9732. Wildlife on or near the rwys. Snow removal Rwy 13–31 only. Rwy 17–35 not mowed/maintained. Radio controlled airplane activity invof airport, within 675′ of Rwy 05. Rwy 17–35 N 600′ closed indef. Rwy 05–23 and Rwy 17–35 edges are unmarked and width is approximate, due to graded shoulders rwys appear wider than they actually are. Soft shoulders near edges of rwys, twys, and ramps. NSTD markings Rwy 31 aiming points wrong dimensions. No twy lead-in or centerline. PAEW mowing field SR–SS during spring and summer. Rwy 13 PAPI realigned with dsplcd thid. ACTIVATE MIRL Rwy 13–31, REIL Rwy 13, PAPI Rwy 13 and Rwy 31, and 0DALS Rwy 31—CTAF.

WEATHER DATA SOURCES: AWOS-3 118.0 (307) 746-4896.

COMMUNICATIONS: CTAF/UNICOM 122.8

NEWCASTLE RCO 122.5 (CASPER RADIO)

DENVER CENTER APP/DEP CON 127.95

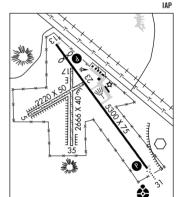
RADIO AIDS TO NAVIGATION: NOTAM FILE RAP.

 $\textbf{RAPID CITY (H) VORTAC} \ 112.3 \qquad \text{RAP} \qquad \text{Chan 70} \qquad \text{N43°58.56' W103°00.74'} \qquad 252° \ 56.9 \ \text{NM to fld. 3160/13E.}$

NEWCASTLE (L) VORW 108.2 ECS N43°52.87′ W104°18.47′ at fld. 4210/11E. NOTAM FILE CPR.

NORTH BIG HORN CO (See COWLEY-LOVELL-BYRON)

PHIFER AIRFIELD (See WHEATLAND)



PINE BLUFFS MUNI (82V) 3 SW UTC-7(-6DT) N41°09.20′ W104°07.81′

5152 B NOTAM FILE CPR

RWY 08-26: H5336X75 (ASPH) S-12.5 MIRL

RWY 08: REIL. PAPI(P2L)—GA 3.0° TCH 40'.

RWY 26: REIL. PAPI(P2L)-GA 3.0° TCH 40'.

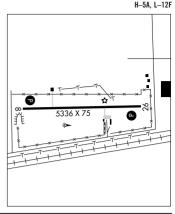
AIRPORT REMARKS: Unattended. ACTIVATE MIRL Rwy 08–26, PAPI Rwys 08 and 26 REIL Rwys 08 and 26 and wind tee—CTAF.

WEATHER DATA SOURCES: AWOS-3 132.425 (307) 245-3613.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE CYS.

CHEYENNE (H) VORTACW 113.1 CYS Chan 78 N41°12.66′ W104°46.37′ 084° 29.3 NM to fld. 6211/13E.



PINEDALE

RALPH WENZ FLD (PNA) 5 SE UTC-7(-6DT) N42°47.84′ W109°48.66′

7102 B S4 **FUEL** 100LL, JET A NOTAM FILE CPR

RWY 11–29: H8900X100 (ASPH) S-45 MIRL 0.3% up W

RWY 11: REIL. PAPI(P2L)—GA 3.0° TCH 41'.
RWY 29: REIL. PAPI(P2L)—GA 3.0° TCH 42'.

AIRPORT REMARKS: Attended Jun-Oct 1600-0100Z‡, Nov-May Mon-Fri 1600-0100Z‡. No call out fee normal business hours Sat-Sun. For fuel after hrs call 307-413-7888. For svc after hours call 307-413-7888 or 307-367-2290. All helicopter tfc to come and go via the taxiway. Flying over buildings adjacent to ramp is prohibited. ACTIVATE MIRL Rwy 11-29, PAPI Rwys 11 and Rwy 29, and REIL Rwy 11 and Rwy 29—CTAF. Landing fee.

WEATHER DATA SOURCES: AWOS-3 118.325 (307) 367-6425. COMMUNICATIONS: CTAF/UNICOM 122.8

SALT LAKE CENTER APP/DEP CON 128.35

RADIO AIDS TO NAVIGATION: NOTAM FILE PNA.

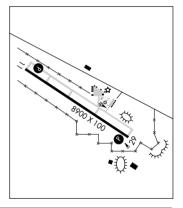
BIG PINEY (H) VORW/DME 116.5 BPI Chan 112 N42°34.77′ W110°06.55′ 029° 18.6 NM to fld. 6960/16E.

WENZ NDB (MHW) 392 PNA N42°47.83′ W109°48.21′ at fld.

NOTAM FILE CPR.

SALT LAKE CITY H-3D, L-11D IAP

CHEYENNE



POWELL MUNI (POY) 7 N UTC-7(-6DT) N44°52.03′ W108°47.61′

5092 B S4 **FUEL** 100LL, JET A NOTAM FILE CPR

RWY 13-31: H6205X100 (ASPH) S-15 MIRL 1.6% up SE

RWY 13: PAPI(P2L)-GA 3.0° TCH 38'.

RWY 31: REIL. PAPI(P2L)—GA 3.0° TCH 36'. Fence.

RWY 16-34: 2400X100 (TURF-DIRT) 1.9% up SE RWY 34: Fence

RWY 03-21: 2176X100 (TURF-DIRT) 1.4% up SW

RWY 03: Fence

AIRPORT REMARKS: Attended Mon-Sat 1500-0000Z‡. For svc after hrs phone 307-254-0977. Fuel 24 hr credit card svc avbl. After hrs emerg ctc police department 307-754-2212. ACTIVATE MIRL Rwy 13-31, REIL Rwy 31 and PAPI Rwy 13 and 31—CTAF.

WEATHER DATA SOURCES: AWOS-3 119.275 (307) 754-7093.

COMMUNICATIONS: CTAF/UNICOM 122.7

CODY RCO 122.3 (CASPER RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE COD.

CODY (L) VORW/DME 111.8 COD Chan 55 N44°37.23′ W108°57.90′ O12° 16.5 NM to fld. 4794/14E.

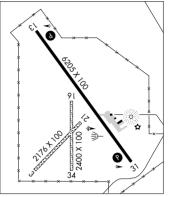
WIGO 57.30 VI2 10.3 NW to Ind. 47.547,14E.

NDB (MHW) 34.4 POY N44°52.01′ W108°47.18′ at fld

NOTAM FILE CPR.

BILLINGS H-1E, L-13D IAP

CHEYENNE



RALPH WENZ FLD (See PINEDALE)

RAWLINS MUNI/HARVEY FLD (RWL) 2 NE UTC-7(-6DT) N41°48.34′ W107°12.00′

6813 B S2 **FUEL** 100LL, JET A OX 1 NOTAM FILE RWL

RWY 04–22: H7008X100 (ASPH–PFC) S–30, D–60 MIRL 1.0% up NE

RWY 04: VASI(V2L)—GA 3.0° TCH 44'. Tank. Rgt tfc.

RWY 22: REIL. VASI(V2L)-GA 3.0° TCH 44'. Ground.

RWY 10-28: H4118X60 (ASPH) S-12 MIRL

RWY 28: REIL. Rgt tfc.

AIRPORT REMARKS: Attended Nov-Feb Mon-Sat 1430-0000Z‡,

Mar–Dec 1430–0130Z‡. Nov–Feb Mon–Sat on call Sun number posted at FBO. Nov–Feb Mon–Sat for svc other times call 307–324–2361 or number posted on door of FBO. Mar–Oct for svc other times call 307–324–2361/5264 or 307–321–9929. For fuel after hours call 307–324–2361 or number posted on door of FBO. Rwy 10–28 large cracks with sluffing edges. Birds on and in vicinity of all rwys. Request all acft departing Rwy 28 make rgt turnout as soon as safety permits after tkf to avoid housing area and for noise abatement. Rwy 10–28 limited to acft up to 12,000 lbs gross weight. ACTIVATE MIRL Rwy 04–22, Rwy 10–28 and REIL Rwy 22 and Rwy 28—CTAF. VASI Rwy 04 and Rwy 22 opr continuously.

WEATHER DATA SOURCES: ASOS 118.525 (307) 328-0031.

COMMUNICATIONS: CTAF/UNICOM 123.0

RCO 122.2 (CASPER RADIO)

DENVER CENTER APP/DEP CON 132.1

AIRSPACE: CLASS E svc 1300-0500Z‡ other times CLASS G.

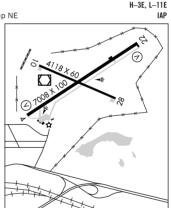
RADIO AIDS TO NAVIGATION: NOTAM FILE RWL.

(T) VORW/DME 109.4 RWL Chan 31 N41°48.29′ W107°12.26′ at fld. 6750/13E.

VOR portion unmonitored 0500-1300Z‡. DME portion unmonitored continuously.

Unusable 245°-275° beyond 15 NM below 12,500'.

SINCLAIR NDB (HW) 368 SIR N41°48.12′ W107°05.53′ 260° 4.8 NM to fld.



RIVERTON RGNL (RIW) 3 NW UTC-7(-6DT) N43°03.85′ W108°27.59′

5528 B S4 **FUEL** 100LL, JET A OX 4 Class II, ARFF Index A NOTAM FILE RIW **RWY 10-28**: H8203X150 (ASPH-PFC) S-85, D-110, ST-140, DT-165 HIRL

RWY 10: REIL. PAPI(P4L)—GA 2.83° TCH 45'. P-lines.

RWY 28: MALSR. VASI(V4L)—GA 3.0° TCH 50′. 0.7% up.
RWY 01–19: H4800X70 (ASPH–GRVD) S–30, D–50 MIRI
0.3% up NE

RWY 01: REIL. PAPI(P2L)—GA 2.75° TCH 40'. P-line.

RWY 19: REIL. PAPI(P2L)-GA 2.75° TCH 39'.

AIRPORT REMARKS: Attended Mon-Fri 1400-0000Z‡. For svc after hrs call 307-856-3599. Multiple hot air balloons invof arpt during July. PPR for unscheduled acft ops with more than 30 passenger seats call arpt manager 307-856-7063/7980. General aviation acft not authorized on west ramp. ACTIVATE HIRL Rwy 10-28; MIRL and REIL Rwy 01-19; REIL Rwy 10 and MALSR Rwy 28—CTAF. VASI Rwy 28 and PAPI Rwys 01, 10 and 19 opr 24 hrs.

WEATHER DATA SOURCES: ASOS 121.425 (307) 856-4473.

COMMUNICATIONS: CTAF/UNICOM 122.8

SALT LAKE CENTER APP/DEP CON 133.25

RADIO AIDS TO NAVIGATION: NOTAM FILE RIW.

(L) VORW/DME 108.8 RIW Chan 25 N43°03.95'

W108°27.33' at fld. 5450/16E.

5.65' W109°03.91' SALT LAKE CITY
TAM FILE RKS H-3D, L-11E
IAP

CHEYENNE

ΙΔΡ

H-3E, L-11E

ROCK SPRINGS-SWEETWATER CO (RKS) 7 E UTC-7(-6DT) N41°35.65′ W109°03.91′ 6764 B FUEL 100LL, JET A1+ OX 1, 2 Class I, ARFF Index A NOTAM FILE RKS RWY 09-27: H10000X150 (ASPH-GRVD) S-55, D-110, ST-140 HIRL

RWY 09: ODALS. PAPI(P4L)—GA 3.0° TCH 50'. 0.4% up.

RWY 27: MALSR. PAPI(P4R)—GA 3.0° TCH 50'. 0.3% down.

RWY 03–21: H5228X75 (ASPH–PFC) S–12, D–25 MIRL 0.3% up NE

RWY 03: REIL. PAPI(P2L)—GA 3.0° TCH 30'.

RWY 21: REIL. PAPI(P2L)-GA 3.0° TCH 30'.

AIRPORT REMARKS: Attended 1200–0430Z‡. PPR for air carrier ops with more than 30 passenger seats 0400–1300Z‡, call arpt manager 307–352–6880/6888. Terminal parking requires prior approval. Commercial landing fee for aircraft over 12,500 lbs. ACTIVATE MIRL Rwy 03–21, HIRL Rwy 09–27, ODALS Rwy 09, MALSR Rwy 27, REIL Rwy 03 and Rwy 21, and twy lgts—CTAF. PAPI Rwy 03, Rwy 21, Rwy 09 and Rwy 27 opr continuously.

WEATHER DATA SOURCES: ASOS 118.375 (307) 362-2541. SAWRS.

COMMUNICATIONS: CTAF/UNICOM 122.8

RCO 122.6 (CASPER RADIO)

RADIO AIDS TO NAVIGATION: NOTAM FILE RKS.

(H) VORW/DME 116.0 OCS Chan 107 N41°35.41′

W109°00.92′ 263° 2.3 NM to fld. 6785/13E. Unusable 186° – 195° byd 25 NM blo 14,000'.

ILS/DME 109.3 I–RKS Chan 30 Rwy 27. GS unusable byd 5° left of localizer course. ILS GS unusable for coupled approaches blo 7,000′ msl.

SARATOGA N41°26.70′ W106°49.93′. NOTAM FILE CPR. NDB (MHW) 266 SAA at Shively Fld.

CHEYENNE L-9E, 11E

SARATOGA

SHIVELY FLD (SAA) 1 SW UTC-7(-6DT) N41°26.69' W106°49.41'

7012 B S2 FUEL 100LL, JET A OX 2 NOTAM FILE CPR

RWY 05-23: H8800X100 (ASPH-PFC) S-50 MIRL

RWY 05: 1.8% down.

RWY 23: REIL. PAPI(P2L)-GA 3.0° TCH 47'. 1.8% up.

AIRPORT REMARKS: Attended Jun-Sep 1500-0000Z‡, Oct -May Mon-Sat 1500-0000Z‡. After hrs svc avbl call 307-326-8693 fee applied. Antelope may be on rwy, Wind shear over highway approach end of Rwy 23. Ramp fee charged if no fuel purchased.

WEATHER DATA SOURCES: AWOS-3 118.175 (307) 326-5387.

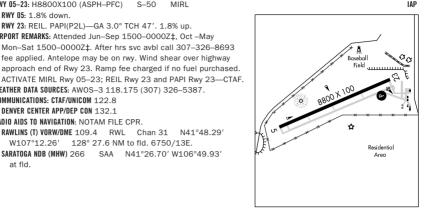
COMMUNICATIONS: CTAF/UNICOM 122.8

DENVER CENTER APP/DEP CON 132.1

RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

RAWLINS (T) VORW/DME 109.4 RWL Chan 31 N41°48.29' W107°12.26′ 128° 27.6 NM to fld. 6750/13E.

SARATOGA NDB (MHW) 266 SAA N41°26.70′ W106°49.93′ at fld.



CHEVENNE

BILLINGS

H-3E, L-9E, 11E

SHERIDAN CO (SHR) 2 SW UTC-7(-6DT) N44°46.15′ W106°58.82′

4021 B S4 FUEL 100, JET A, A1 + OX 1, 2, 3 TPA-See Remarks Class I, ARFF Index A H-1E, 2F, L-13D NOTAM FILE SHR ΙΔΡ

RWY 14-32: H8300X100 (ASPH-PFC) S-60, D-75, ST-95 HIRL RWY 14: REIL, PAPI(P4L)—GA 3.0° TCH 51'. 0.5% down.

RWY 32: MALSR. PAPI(P4L)—GA 3.0° TCH 53'. 0.4% up.

RWY 05-23: H5039X75 (ASPH-GRVD) S-36, D-50 MIRL 1 7% up SW

RWY 05: REIL. PAPI(P4L)-GA 3.0° TCH 35'.

RWY 23: REIL, PAPI(P4L)-GA 3.0° TCH 38', Trees.

AIRPORT REMARKS: Attended dalgt hours. Afld sfc conditions not monitored 0530-1300Z‡. PPR unscheduled air carrier operations with more than 30 passenger seats ctc ARFF station 307-673-1875. Glider activity on and in vicinity of arpt. Fixed wing acft restricted to rwys and twys only. TPA-4821(800); for Turbo Prop and Jet 5521(1500). ACTIVATE MIRL Rwy 05-23; HIRL Rwy 14-32, MALSR Rwy 32, REIL Rwy 05, Rwy 23 and Rwy 14, PAPI Rwy 14, Rwy 32, Rwy 05 and Rwy 23-CTAF.

WEATHER DATA SOURCES: ASOS 135,175 (307) 672-5349, SAWRS (1100-0600Z‡).

COMMUNICATIONS: CTAF/UNICOM 123.0

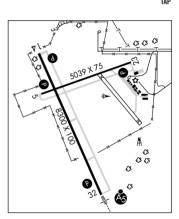
RCO 122.5 (CASPER RADIO)

SALT LAKE CENTER APP/DEP CON 127.75

RADIO AIDS TO NAVIGATION: NOTAM FILE SHR.

(L) VORTACW115.3 SHR Chan 100 N44°50.54′ W107°03.67′ 129° 5.6 NM to fld. 4412/13E. VORTAC unusable 160°-200° beyond 30 NM below 14,700′ 200°-270° beyond 30 NM below 12,400′ ILS/DME 108.7 I-SHR Chan 24 Rwv 32

SHIVELY FLD (See SARATOGA)



SHOSHONI MUNI (49U) 1 N UTC-7(-6DT) N43°15.08′ W108°07.29′

4817 NOTAM FILE CPR

RWY 08-26: 4650X90 (DIRT)

RWY 08: P-lines RWY 26: Fence

RWY 11-29: 2950X75 (DIRT)

RWY 11: Fence

AIRPORT REMARKS: Unattended. Antelope on arpt. Arpt has uncontrolled vehicle access. Rwy 08–26 no line of sight between rwy ends. Rwy 08–26 and Rwy 11–29 numerous rocks on rwy surface, rwy soft when wet. Rwy 08–26 and Rwy 11–29 thids not marked.

COMMUNICATIONS: CTAF 122 9

SINCLAIR N41°48.12′ W107°05.53′. NOTAM FILE RWL

NDB (HW) 368 SIR 260° 4.8 NM to Rawlins Muni./Harvey Fld.

CHEYENNE L-11E

CHEYENNE

SOUTH BIG HORN CO (See GREYBULL)

THERMOPOLIS

HOT SPRINGS CO-THERMOPOLIS MUNI (THP) 1 N UTC-7(-6DT)

CHEYENNE L-11E

CHEYENNE

IAP

H-5A. L-12F

N43°39.50′ W108°12.79′

4592 B **FUEL** 100LL NOTAM FILE CPR

RWY 01-19: H4800X100 (ASPH-PFC) S-13 LII

RWY 19: VASI(V2L)-GA 3.0° TCH 26'.

AIRPORT REMARKS: Attended Nov-Apr 1500-0000Z‡, May-Oct

1430-0030Z‡. For svc after hrs call 307-864-3385 or

307–921–1528. Closed all major holidays. Self–serve credit card fuel avbl 24 hrs. Due to terrain, ops at ngt not recommended. Hills on each side of rwy, not obstruction Igtd. +204' hill on rwy centerline extended. Ground drops off 50' at 15' from Rwy 01 thld and 15' at 30' from Rwy 19 thld. Rwy 01–19 is 118' higher on S end. Recommend Idg uphill Rwy 19: tkf downhill Rwy 01

depending on wind. +3' dip/trough 137' to 145' from Rwy 01 thld entire width of rwy. Extensive cracking and line of sight issues on entire rwy. ACTIVATE LIRL Rwy 01–19 and VASI Rwy 19—CTAF.

COMMUNICATIONS: CTAF/UNICOM 122.8

RADIO AIDS TO NAVIGATION: NOTAM FILE CPR.

BOYSEN RESERVOIR (H) VORW/DME 117.8 BOY Chan 125 N43°27.79′ W108°17.98′ 002° 12.3 NM to fld.

7550/16E.

** **,

THOMAS MEM (See GLENDO)

TORRINGTON MUNI (TOR) 2 E UTC-7(-6DT) N42°03.87′ W104°09.16′

4207 B S4 FUEL 100LL, JET A NOTAM FILE TOR

RWY 10-28: H5703X75 (ASPH) S-33, D-45 MIRL

RWY 10: REIL. PAPI(P2L)-GA 3.0° TCH 40'.

RWY 28: REIL. PAPI(P2L)—GA 3.0° TCH 40'. Hill.

RWY 02-20: H3001X60 (ASPH)

RWY 02: Ground. Rgt tfc.

AIRPORT REMARKS: Attended 1500–0000Z‡. Except national holidays. For fuel after hours call 307–532–2941 or 307–532–7353. Deer and waterfowl on and invof arpt. Rwy 20, 7' drop off 60' L and R of centerline at thId, Rwy 10, 7' drop 100' from thId and 75' R. Rwy 10 thId dsplcd 220' for ngt ops only. Reflectors along parallel twys only, others lighted. ACTIVATE MIRL Rwy 10–28, PAPI Rwy 10 and Rwy 28 and REIL Rwy 10 and Rwy 28—CTAF. MIRL will only activate if beacon is operating during dark or overcast periods.

WEATHER DATA SOURCES: ASOS 118.375 (307) 532-8958.

COMMUNICATIONS: CTAF/UNICOM 122.8

R DENVER APP/DEP CON 127.95

RADIO AIDS TO NAVIGATION: NOTAM FILE BFF.

SCOTTSBLUFF (H) VORTAC 112.6 BFF Chan 73 N41°53.65′ W103°28.92′ 276° 31.8 NM to fld. 4170/13E.

NDB (MHW) 293 TOR N42°03.95′ W104°09.20′ at fld. NOTAM FILE TOR.

\$ 5703 175 S

IIPTON MIINI (83V) 1 SW UTC-7(-6DT) N44°05.43′ W104°38.45′ CHEYENNE 4290 B NOTAM FILE CPR RWY 13-31: 3710X80 (DIRT-GRVL) MIRI

RWY 13: REIL. SAVASI(S2L)—GA 3.0° TCH 25'. RWY 31: REIL. SAVASI(S2L)-GA 3.0° TCH 25'.

AIRPORT REMARKS: Unattended. For arpt attendant call 307-468-2441. Wildlife on and invof arpt. Ctc arpt manager for rwy conditions prior to winter ops phone 307-468-2441. No regular snow removal. Rwy 13-31 marginal line of sight from rwy ends. +3' berms along rwy edges. Base of rwy lights are surrounded by reflector cones. Rwy 13-31 MIRL OTS indef. Rwy 13 and Rwy 31 REIL OTS indef. Rwy 13 and Rwy 31 VASI OTS indef. Rotating bcn OTS indef. Radio controlled airplane activity within rwy environment.

COMMUNICATIONS: CTAF/UNICOM 122.8.

WENZ N42°47.83′ W109°48.21′. NOTAM FILE CPR.

NDB (MHW) 392 PNA at Ralph Wenz Fld. SALT LAKE CITY L-11D

CHEYENNE

H-3E, 5A, L-12F

WHFATI AND

PHIFER AIRFIELD (EAN) 1 E UTC-7(-6DT) N42°03.33′ W104°55.72′

4776 B NOTAM FILE CPR

RWY 08-26: H5899X75 (ASPH) S-15 MIRL (NSTD)

RWY 08: PAPI(P2L)-GA 3.15° TCH 31'. Tree.

RWY 26: PAPI(P2L)-GA 3.0° TCH 26'.

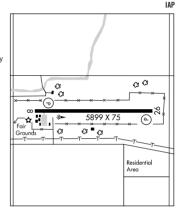
AIRPORT REMARKS: Unattended, Marginal line of sight Rwy 26 thid to area 3000' W. Rwy 08-26 NSTD MIRL only three lgts per set of thid lgts. ACTIVATE MIRL Rwy 08-26-CTAF. PAPI Rwy 08 and Rwy 26 opr continuously.

COMMUNICATIONS: CTAF 122.9

R DENVER CENTER APP/DEP CON 135.6

RADIO AIDS TO NAVIGATION: NOTAM FILE DGW.

HIPSHER (L) VORW/DME 108.6 IIP Chan 23 N42°40.57' W105°13.57' 148° 39.5 NM to fld. 4906/12E.



WORLAND MUNI (WRL) 3 S UTC-7(-6DT) N43°57.94′ W107°57.05′ 4227 B S4 FUEL 100LL, JET A Class III, ARFF Index A NOTAM FILE WRL

RWY 16-34: H7005X100 (ASPH-PFC) S-50, D-70 MIRL 0.9% up S

CHEYENNE H-1E, L-11E IAP

RWY 16: REIL. PAPI(P4L)-GA 3.0° TCH 44'. RWY 34: REIL. VASI(V4L)-GA 3.0° TCH 40'.

RWY 10-28: 2251X60 (TURF) 1.5% up SE

RWY 04-22: 2241X60 (TURF) 0.4% up NE

AIRPORT REMARKS: Attended 1300-2330Z‡. Rwy 04-22 and Rwy 10-28 CLOSED Oct 30-Mar 30 yearly. CLOSED to air carrier operations with more than 30 passenger seats. Wind permitting

land Rwy 16. ACTIVATE MIRL Rwy 16-34, REIL Rwy 16 and Rwy 34 and VASI Rwy 34-CTAF, PAPI Rwy 16 opr continuously.

WEATHER DATA SOURCES: ASOS 135.475 (307) 347-4217.

COMMUNICATIONS: CTAF/UNICOM 123.05

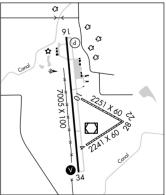
RCO 122.4 (CASPER RADIO)

R SALT LAKE CENTER APP/DEP CON 133.25

AIRSPACE: CLASS E svc 1330-0530Z tother times CLASS G.

RADIO AIDS TO NAVIGATION: NOTAM FILE WRL.

(L) VORW/DME 114.8 RLY Chan 95 N43°57.85' W107°57.05' at fld. 4190/13E.



YELLOWSTONE RGNL (See CODY)

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2010 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2010, 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 2010 aerial demonstration locations, subject to change without notice, are:

DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbirds
April	10-11	Eglin AFB, FL			
	11		NAS Key West, FL		
	17		Charleston AFB, SC		
	17-18	Lakeland, FL			
	24-25	Barksdale AFB, LA	Vidalia, GA	Ft. Lauderdale, FL	
	24-25			Galena, FL	
May	1	Dyess AFB, TX			
	2	Altus AFB, OK			
	1-2		St. Joseph, MO		
	8-9	Shaw AFB, SC	Tuscaloosa, AL	Shaw AFB, SC	Niagara Falls, NY
	8-9			Tuscaloosa, AL	
	13			Union, NJ	
	15-16	Columbus AFB, MS	Andrews AFB, MD	Columbus AFB, MS	
	15-16			Andrews AFB, MD	
	22	Grand Forks AFB, ND			
	22-23		MCAS Cherry Point,		
			NC		
	26	Colorado Springs,			
		со	Annapolis, MD		
	29-30	Janesville, WI	Jones Beach, NY	Jones Beach, NY	
	29-30			Janesville, WI	
June	5-6	Ocean City, MD	Eau Claire, WI	Eau Claire, WI	
	5-6			Florence, SC	
	12-13		Milwaukee, WI	Milwaukee, WI	
	19-20		Cape Girardeau,	Cape Girardeau,	
		Tinker AFB, OK	MO	МО	
	19-20			Gaylord, MI	
	26-27	North Kingstown, RI	St. Cloud, MN	Findlay, OK	
July	3		Τ	Madison, WI	T
,	3			Dubuque, IA	
	3-4		Traverse City, MI		
	4			Ft Bragg, NC	
	10		Pensacola Beach,	T C D G G G T T C	
	10.14	O a servicio IN	FL	O and a like	
	10-11	Gary, IN	B	Gary, IN	
	17-18	Duluth, MN	Dayton, OH		
	24-25	Fairchild AFB, WA	Idaho Falls, ID		
	28	Cheyenne, WY		<u> </u>	
	29			Goshen, IN	
	29		<u> </u>	Ft AP Hill, VA	<u> </u>
	31	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
	31	1		Johnstown, PA	

DATE:		USAF Thunderbirds	USN Blue Angels	USA Golden Knights	Canadian Snowbird
August	1	Rockford, IL	Anchorage, AK	Rockford, IL	Elmendorf AFB, AK
	1			Johnstown, PA	
	7-8	TBD	Seattle, WA		
	14-15		Chicago, IL	Chicago, IL	
	21-22	Westfield, MA		Westfield, MA	
	21-22			Kansas City, MO	
	25			Atlantic City, NJ	
	26			Ft Monroe, VA	
	28-29	Coney Island		Coney Island	
		(Brooklyn), NY	Portsmouth, NH	(Brooklyn), NY	
	28-29			Portsmouth, NH	
September	4-5	Martinsburg, WV		Cleveland, OH	
	4-5			Martinsburg, WV	
	4-6		Cleveland, OH		
	11-12	Corapolis		Corapolis	
		(Pittsburgh), PA	Scott AFB, IL	(Pittsburgh), PA	
	11-12			Scott AFB, IL	
	18-19	Whiteman AFB, MO	NAS Oceana, VA	Whiteman AFB, MO	Reno, NV
	25-26		MCAS Kaneohe		
		McConnell AFB, KS	Bay, HI		
		T			T
October	1-3		MCAS Miramar, CA		MCAS Miramar, CA
	2-3	Salinas, CA		MCAS Miramar, CA	
	2-3			Jackson, MS	
	9-10	Little Rock AFB, AR	San Francisco, CA	Little Rock, AFB, AR	Daytona Beach, FL
	16-17	El Paso, IX	Dobbins AFB, GA	El Paso, TX	Atlanta, GA
	23-24		NAS Jacksonville,		
		Houston, TX	FL	Washington, DC	
	30-31		Ft Worth Alliance,	Ft Worth Alliance,	
		Cocoa Beach, FL	TX	TX	
Navanala a :	6.7	Leekland AED TV	I Hamastand ADD 51	Leekland AED TV	I
November	6-7	Lackland AFB, TX	Homestead ARB, FL	Lackland AFB, TX	
	6-7			Homestead ARB, FL	
	11-14			Ft Bragg, NC	
	12-13		NAS Pensacola, FL		
	13-14	Nellis AFB, NV			

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.

VFR ADVISORY AREA Canadian Airspace VICTORIA-VANCOUVER (Effective: Until Further Notice)

Effective 0901 UTC August 6, 1994, a VFR Advisory Area was permanently established between the two Canadian control zones, from above 1,200′ MSL up to 2,500′ MSL. Vancouver and Victoria Towers provide radar traffic information to all participating aircraft within the VFR Advisory Area.

PROCEDURES

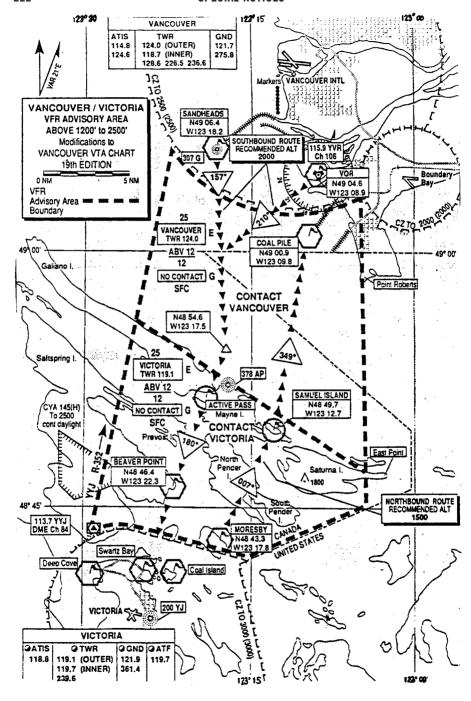
Victoria/Vancouver

- *All aircraft operating between Victoria and Vancouver within the VFR Advisory Area should follow the routes shown on the graphic.
 - *Northbound: Change from Victoria Tower, 119.1, to Vancouver Tower, 124.0, when instructed by ATC.
 - *Southbound: Change from Vancouver Tower, 124.0, to Victoria Tower, 119.1, when instructed by ATC.
 - *Set transponder codes as requested.

TRANSITING TRAFFIC

- *Call Vancouver Tower on 124.0 when north of the Active Pass/Samuel Island Line.
- *Call Victoria Tower on 119.1 when south of the Active Pass/Samuel Island Line.
- *Set Transponder codes as requested.

Routes and recommended altitudes will not be useable by all aircraft at all times because of weather and regulations pertaining to flight over water. Higher altitudes may be requested. If unable to maintain VFR, advice ATC.



CONTROLLED FIRING Fort Harrison Controlled Firing Area Helena, Montana

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, 5'800 MSL and BELOW. The area defined by the following radial/DME coordinates HLN258008, HLN258005, HLN250008, HLN250005.

CONTROLLED FIRING Limestone Hills Controlled Firing Area Helena, Montana

Controlled firing occurs in the vicinity of the Helena, Montana VORTAC (HLN) 24 hours daily, FL180 and BELOW. The area defined by the following radial/DME coordinates HLN125026, HLN127028, HLN140025, HLN125028.

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

MOUNT ST. HELENS NATIONAL VOLCANIC MONUMENT. WASHINGTON

The U.S. Geological Survey (USGS) and the U.S. Forest Service (USFS) conduct low level flights to and from monitor station within the monument and within the crater itself. Due to this activity, the volatility of the volcano and a high volume of sightseeing flights in the area, the following procedures are recommended in the interest of flying safety.

- 1. VFR aircraft are encouraged to transmit an initial position report on 122.75 MHz in the blind when flying at altitudes of less than 10,000 feet MSL within 10 nautical miles of the Mount St. Helens volcano crater.
- 2. VFR flight below 3000 feet AGL strongly not recommended.
- 3. VFR flight above 3000 feet AGL fly a counterclockwise pattern, no closer than 3 miles to the volcano summit.

VFR rules of "see and be seen" and good airmanship practices will prevail. Approval to land can only be obtained through appropriate Federal or State authority. Any significant information will be broadcast on the transcribed weather broadcasts by the Seattle and McMinnville Flight Service Stations and available on the Portland and Seattle ATIS. Marginal radar coverage limits Seattle Center's ability to provide radar flight following to aircraft in orbit of the volcano.

DEVILS TOWER NATIONAL MONUMENT, WYOMING

For reasons of national welfare, pilots are requested to avoid flights within 3 nautical miles of Devils Tower National Monument.

BIRD HAZARD OREGON AND WASHINGTON

Heavy concentration of migratory and wintering flocks of large waterfowl from the Canadian to California borders annually November to May. Caution advised at all airports or while transiting area.

SIMULTANEOUS OPERATIONS Boeing Field/King County International Airport Seattle. Washington

All users: Boeing Field Airport Traffic Control Tower is authorized to conduct simultaneous same direction operations to parallel runways, between sunrise and sunset, for Category II aircraft and smaller.

Spokane International Airport Spokane, Washington

Application of visual separation for simultaneous operations. When weather conditions at Spokane International Airport are 1500' ceiling and 5 miles visibility or greater Spokane International Airport controllers may provide visual separation of aircraft landing and departing simultaneously at Spokane International Airport and Fairchild Airforce Base.

LASER LIGHT DEMONSTRATIONS Bozeman, Montana

A laser light demonstration will be conducted daily between 0000 and 2359 MDT until June 24, 2010 at Montana State University BZN VORTAC 129 radial at 8 NM LAT 45–39–59N/Long 111–02–44W. The laser beam elevation will be a maximum of 090 and a minimum of 089. The beam may be injurious to eyes when viewed within 12000 feet AGL vertically and 500 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

SEATTLE-TACOMA INTL SEATTLE, WASHINGTON

Gatehold Procedures:

During peak departure periods, gatehold procedures are implemented for all IFR departures. Additional information will be broadcast on ATIS.

Oceanic Departures:

- 1. Contact Clearance Delivery *only* when you will be ready to taxi within ten minutes. State destination, requested altitude, "ten minutes to taxi."
- 2. If ATC delays are more than 15 minutes for your filed altitude/route, alternatives with less delay will be offered.
- 3. Failure to depart the gate within ten minutes or reach the runway at the release time specified in the IFR clearance may result in the cancellation of your clearance.

MOUNTAIN HOME, IDAHO

All aircraft operating within 20 NM of the Liberator VOR are requested to contact Mountain Home APP CON on 124.8 for traffic advisory due to intensive military training in the Mountain Home area.

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.

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.

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 water 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.

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
Andrews AFB, MD (ADW)	01L	Minneapolis, MN (MSP)	30L
Anchorage, AK (ANC)	07R	Nashville, TN (BNA)	02L
Atlanta, GA (ATL)	09R	New Orleans, LA (MSY)	10
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)	14R	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)	35R	Reno, NV (RNO)	16R
Des Moines, IA (DSM)	31	Salt Lake City, UT (SLC)	34L
Detroit, MI (DTW)	03R	San Antonio, TX (SAT)	12R
El Paso, TX (ELP)	22	San Diego, CA (SAN)	09
Fairbanks, AK (FAI)	01L	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)	36L
Jacksonville, FL (JAX)	07	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.

Night Vision Lights Out Operations Yakima Training Center, Washington

Military helicopter activity will be conducted for night vision lights out training at Yakima Training Center, Washington. Position lights will be extinguished or greatly reduced in intensity. The training will be conducted within the confines of the YTC reservation but outside of the restricted airspace. The general description of the night vision goggle (NVG) training area is that airspace bordered by R-6714H on the south, Highline Canal on the west, the southern edge of Interstate 90 on the north, and Ginko State Park Petified Forest on the east.

The boundaries of the NVG area are:

Beginning at lat. $46^\circ55'03''N$, long. $120^\circ01'34''W$; to lat. $46^\circ55'40''N$, long. $120^\circ01'35''W$; to lat. $46^\circ55'39''N$, long. $120^\circ02'52''W$; to lat. $46^\circ56'15''N$, long. $120^\circ02'52''W$ thence west along the southern edge of Interstate 90; to lat. $46^\circ57'21''N$, long. $120^\circ18'08''W$; thence west/southwest along the Highline Canal; to lat. $46^\circ55'24''N$, long. $120^\circ19'55''W$; to point of beginning.

Times of use: Sunset to sunrise, daily.

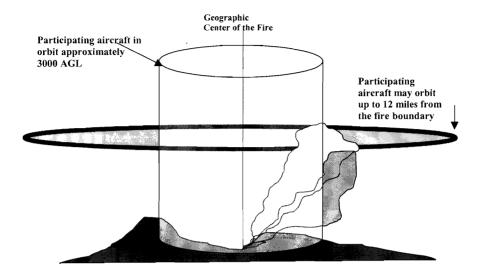
Request Publication date of May 22, 1997.

Please refer any questions to James Riley, ANM-532.2, at (206) 227-2537.

LIGHTS-OUT OPERATIONS Hays MOA, Montana

Lights—out night vision goggle training operations conducted within the Hays MOA at all altitudes from sunset to sunrise when MOA is active by NOTAM. Contact Salt Lake City ARTCC on 133.4 or 119.75 or Great Falls FSS for schedule and NOTAM information.

FIREFIGHTING TRAFFIC AREAS



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.

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.

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 Purerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

Selected remote FSS facilities across the contiguous United States have variable part–time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

NORTHWEST U.S.

WASHINGTON: Seattle, Boeing Field/King County International (BFI)-SEA FSS

<u>Telephone Information Briefing Service (TIBS)</u> is a FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. 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

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

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
TAF	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	METAR
KPIT	ICAO location indicator	KPIT
091730Z	Issuance time: ALL times in UTC "Z", 2-digit date, 4-digit time	091955Z
091818	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. METAR : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	COR
15005KT	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>G</u> ust and maximum speed; 00000KT for calm; for METAR , if direction varies 60 degrees or more, <u>V</u> ariability appended, e.g. 180 <u>V</u> 260	22015G25KT
5SM	Prevailing visibility: in U.S., Statute Miles & fractions; above 6 miles in TAF Plus6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	3/4SM
	Runway Visual Range: R; 2-digit runway designator Left, Center, or Right as needed; '/'; Minus or Plus in U.S., 4-digit value, FeeT in U.S., (usually meters elsewhere); 4-digit value Variability 4-digit value (and tendency Down, Up or No change)	R28L/2600FT
HZ	Significant present, forecast and recent weather: see table (on back)	TSRA
FEW020	Cloud amount, height and type: SKy Clear 0/8, FEW >0/8-2/8, SCaTtered 3/8-4/8, BroKeN 5/8-7/8, OVerCast 8/8; 3-digit height in hundreds of ft; Towering CUmulus or CumulonimBus in METAR; in TAF, only CB. Vertical Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated METAR reports only, CLeaR for "clear below 12,000 feet"	OVC010CB
	Temperature: degrees Celsius; first 2 digits, temperature "/" last 2 digits, dew-point temperature; Minus for below zero, e.g., M06	18/16
	Altimeter setting: indicator and 4 digits; in U.S., A-inches and hundredths; (Q-hectoPascals, e.g., Q1013)	A2992

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

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

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.

		····			_	
QUAI	LIFIER					
Intens	ity or Proximity	1				
- Li	ght	"no sign" Moderate	+ 1	Heavy		
VC	Vicinity: but not	at aerodrome; in U.S. M	ETA	R, between 5 and 1	0SM	of the point(s) of
						(elsewhere within 8000m)
Descri				, ,		,
MI	Shallow	BC Patches	PR	Partial	TS	Thunderstorm
BL	Blowing	SH Showers	DR	Drifting	FΖ	Freezing
WEA'	THER PHENO	OMENA				
Precip	itation					
	Drizzle	RA Rain	SN	Snow	SG	Snow grains
		PL Ice pellets		Hail	GS	Small hail/snow pellets
UP	Unknown precip	pitation in automated obs	erva	tions		
Obscu	ıration					
BR	Mist (≥5/8SM)	FG Fog (<5/8SM)	FU	Smoke	V۸	Volcanic ash
SA	Sand	HZ Haze	PΥ	Spray	DU	Widespread dust
Other						
		SS Sandstorm	DS	Duststorm	PO	Well developed
FC	Funnel cloud	+FC tornado/waterspout	<u> </u>			dust/sand whirls

- 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 fosts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility ≥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

Washington

Air Traffic Control System Command Center

Main Number......703–904–4400

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	781-238-7500				
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.m4:00 p.m.	505-856-4300		
Anchorage	907-271-5936	7:30 a.m4:00 p.m.	907-269-1137		
Atlanta	404-305-5180	7:30 a.m5:00 p.m.	770-210-7601		
Boston	617-238-7001	7:30 a.m4:00 p.m.	603-879-6633		
Chicago	847-294-8400	8:00 a.m4:00 p.m.	630-906-8221		
Cleveland	847-294-8400	8:00 a.m4:00 p.m.	440-774-0310		
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-651-4100		
Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	817-858-7300		
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-5300		
Indianapolis	847-294-8400	8:00 a.m4:00 p.m.	317-247-2231		
Jacksonville	404-305-5180	8:00 a.m4:30 p.m.	904-549-1501		
Kansas City	816-329-3000	7:30 a.m4:00 p.m.	913-254-8500		
Los Angeles	661-265-8200	7:30 a.m4:00 p.m.	661-265-8200		
Memphis	404-305-5180	7:30 a.m4:00 p.m.	901-368-8103		
Miami	404-305-5180	7:00 a.m3:30 p.m.	305-716-1500		
Minneapolis	847-294-8400	8:00 a.m4:00 p.m.	651-463-5580		
New York	718-995-5426	8:00 a.m4:40 p.m.	516-468-1001		
Oakland	310-725-3300	6:30 a.m3:00 p.m.	510-745-3331		
Salt Lake City	425-227-1389	7:30 a.m4:00 p.m.	801-320-2500		
Seattle	425-227-1389	7:30 a.m4:00 p.m.	253-351-3500		

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.m3:30 p.m.	404-669-1200		
Chicago	847-294-8400	8:00 a.m4:00 p.m.	847-608-5509		
Dallas/Ft. Worth	817-222-5006	7:30 a.m4:00 p.m.	972-615-2500		
Denver	425-227-1389	7:30 a.m4:00 p.m.	303-342-1500		
Houston	817-222-5006	7:30 a.m4:00 p.m.	281-230-8400		
New York	718-995-5426	8:00 a.m4:30 p.m.	516-683-2901		
Northern CA	310-725-3300	7:00 a.m3:30 p.m.	916-366-4001		
Potomac	718-995-5426	8:00 a.m4:30 p.m.	540-349-7500		
Southern CA	310-725-3300	7:30 a.m4:00 p.m.	858-537-5800		

8:00 a.m.-4:30 p.m.

703-771-3401

718-995-5426

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

FAA AND NWS

KEY AIR TRAFFIC FACILITIES DAILY NAS REPORTABLE AIRPORTS

AIRPORT NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m4:30 p.m.	301-735-2380
Baltimore/Washington			
Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m4:00 p.m.	773–884–3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m4:00 p.m.	734–955–5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404–305–5180	7:00 a.m3:30 p.m.	305–356–7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m4:00 p.m.	713-230-8400
Hartsfield–Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	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	847-294-8400	8:00 a.m4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.–4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	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.m3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m4:30 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.m4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m4:00 p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m4:30 p.m.	919-840-5544
Ronald Reagan Washington			
National, DC	718-995-5426	8:00 a.m4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m3:30 p.m.	650-876-2883
San Juan Intl, PR	404–305–5180	7:30 a.m5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425–227–1389	7:30 a.m4:00 p.m.	206-214-4600
St. Louis Lambert, MO	816-329-3000	7:30 a.m4:00 p.m.	314-890-1000
Tampa Intl, FL	404–305–5180	7:30 a.m4:00 p.m.	813–371–7700
Ted Stevens Anchorage Intl, AK	907–271–5936	7:30 a.m4:00 p.m.	907–271–2700
Teterboro, NJ	718-995-5426	8:00 a.m4:30 p.m.	201–288–1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m4:30 p.m.	703-661-6031
West Palm Beach, FL	404–305–5180	8:00 a.m4:30 p.m.	561-683-1867
Westchester Co, NY	718–995–5426	8:00 a.m4:30 p.m.	914-948-6520

^{*}Facilities can be contacted through the RgnI Duty Officer during non-business hours.

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.

```
RDENVER CENTER - 125.9
                                                            H-1-2-3-4-5-6, L-8-9-10-11-12-13-14-15
  Casper - 135.6 118.925
                                                                                                (KZDV)
  Cherokee - 132.1
  Cheyenne - 134.575 133.175 132.1 125.9
  Laramie - 125.9
  Lusk - 135.6
  Medicine Bow - 133.175 132.1 126.5
  Rock Springs - 128.5
  Sundance - 135.6 133.675
RSALT LAKE CITY CENTER
                                                                            H-1-2-3. L-9-11-12-13-14
  Ashton - 132.4 132.4 128.35 128.35
                                                                                                (KZLC)
  Baker - 128.05
  Big Piney - 128.35 128.35
  Billings - 127.75 127.75
  Blackfoot - 128.35 128.35
  Bliss - 128.55 118.05
  Boise - 118.05
  Bozeman - 132.4 132.4
  Burley - 118.05
  Butte - 133.4 133.4 132.4 132.4
  Cascade - 121.15
  Francis Peak - 127.7
  Glasgow - 126.85 126.85
  Great Falls - 133.4 133.4 132.425
  Green River - 124.35 124.35
  Jackson - 133.25 133.25
  Judith Mountain - 133.4 133.4 126.85 126.85
  Lakeside - 133.4
  Lovell - 133.25 133.25
  Malad City - 126.75
  Miles City - 126.85 126.85
  Missoula - 133.4 119.75 119.75
  Rome - 128.05
  Salmon - 132.4 132.4
  Sheridan - 127.75 127.75
  Squaw Butte - 128.05 121.15
  Thermopolis - 133.25 133.25 124.35 124.35
(R)SEATTLE CENTER
                                                                                  H-1-3, L-1-2-11-13
  Antelope Mountain - 124.85
                                                                                                (KZSE)
  Arcata - 124.85
  Badger Mountain - 127.05 127.05 134.95 134.95
  Beacon Hill - 127.05 127.05 120.3 120.3
  Cottonwood - 123.95 118.55
  Dallesport - 126.6 126.6
  Fort Lawton - 127.05 127.05
  Hoguiam - 128.3
  Horton - 132.075 125.8 121.4
  Kimberly - 135.45
  Klamath Falls - 134.9 127.6
  Lakeside - 123.95
  Lakeview - 135.35 127.6
  Larch Mountain - 128.3 128.3 126.6 126.6
  Marlin - 126 1
  Medford - 135.15 124.85 121.4
  Mohler - 128.45
  Mullan Pass - 128.45
  Nassel - 124.2
  Neah Bay - 125.1 125.1
  Redmond - 121.35 134.9 135.35 128.15
  Rex-Parrett - 121.35
  Scappoose - 124.2 128.15
  Spokane - 123.95 119.225
  Stampede Pass - 134.95 134.95
  The Dalles - 135.45 119.65
  Wallula - 132.6
  Wenatchee - 126.1
  Whidbey Island - 134.95 134.95 128.5 125.1 125.1
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Yakima - 135.525 135.525 132.6 120.3 120.3 118.55

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.

BOISE AFSS

ASHTON RCO 123.625 BLISS RCO 122.4

BOISE RCO 122.2 122.6

CASCADE RCO 122.35

CONNERS RCO 122.05

COEUR D'ALENE RCO 122.05

HAILEY RCO 122.4

IDAHO FALLS RCO 122.55

LEWISTON RCO 122.35

MALAD CITY RCO 122.65

MOUNTAIN HOME RCO 122.6

MULLAN PASS RCO 122.15

POCATELLO RCO 122.35

ROME RCO 122.65

SALMON RCO 122.55

SQAW BUTTE RCO 122.45

STANLEY RCO 122.6

TWIN FALLS RCO 122.25

CASPER AFSS

ANTELOPE GAP RCO 122.2

BIG PINEY RCO 122.3

BOYSEN RESERVOIR RCO 122.3

CASPER RCO 122.2 122.4

CHEROKEE RCO 122.4

CHEYENNE RCO 122.3

CODY RCO 122.3

CONVERSE RCO 121.975

CRAZY WOMAN RCO 122.025

DUNIOR RCO 122.6

FORT BRIDGER RCO 122.3

GILLETTE RCO 122.3

JACKSON RCO 122.05

LARAMIE RCO 122.6 MEDICINE BOW RCO 122.5

NEWCASTLE RCO 122.5

RAWLINS RCO 122.2

RIVERTON RCO 122.2

ROCK SPRINGS RCO 122.6

SHERIDAN RCO 122.5

WORLAND RCO 122.4

GREAT FALLS AFSS

BILLINGS 122.55

BOZEMAN RCO 122.5

BUTTE RCO 122.2 122.4

COPPERTOWN RCO 122.65

CUT BANK RCO 122.2

DILLON RCO 122.15

GLASGOW RCO 122.25 GLENDIVE RCO 122.55

GREAT FALLS RCO 122.6

HARLOWTON RCO 122.4

HAVRE RCO 123.65

HELENA RCO 122.55

JUDITH MOUNTAIN RCO 122.2

LAKESIDE RCO 122.5

LEWISTOWN RCO 122.35

LIVINGSTON RCO 122.2

MILES CITY RCO 122.2

MILLER PEAK RCO 122.45

SIDNEY RCO 123.65 TOWER HILL RCO 122.3

WOLF POINT RCO 122.45

YELLOWSTONE RCO 119.4

Mc MINNVILLE AFSS

ASTORIA RCO 122.3

AUGSPURGER RCO 122.3

BEAVER MOUNTAIN RCO 122.4

BURNS RCO 122.5

CAPE BLANCO RCO 122.4

ENTERPRISE RCO 122.5

EUGENE RCO 122.3

KIMBERLY RCO 122.6

KLAMATH FALLS RCO 122.6

LA GRANDE RCO 122.5

LAKEVIEW RCO 122.3

MC MINNVILLE RCO 122.45

MEDFORD RCO 122.65

NEWBERG RCO 122.45

NEWPORT RCO 122.5

NORTH BEND RCO 122.4

ONTARIO RCO 122.3

PENDLETON RCO 122.2 PORTLAND RCO 122.6

REDMOND RCO 122.5

REDMOND RCO 122.5 ROSEBURG RCO 122.55

SALEM RCO 122.6

SEXTON SUMMIT RCO 122.5

SUNRIVER RCO 122.3

WALLULA RCO 122.6

SEATTLE AFSS 122.5

BADGER MOUNTAIN RCO 122.3

BELLINGHAM RCO 122.15

BUCKHORN MTN RCO 122.2

ELLENSBURG RCO 122.2

EPHRATA RCO 122.2

HOQUIAM RCO 122.2

JUMP-OFF-JOE RCO 122.4

MOSES LAKE RCO 122.4

MT CONSTITUTION RCO 122.3

OCEAN SHORES RCO 122.4

OMAK RCO 122.2

PAINE RCO 122.55

PORT ANGELES RCO 122.6

PULLMAN RCO 122.6

SEATTLE RC0 122.5 123.65

SOUTHWEST WASHINGTON RCO 122.25 122.55

SPOKANE RCO 122.2 122.55 122.65

TATOOSH RCO 122.25

THE DALLES RCO 122.65

VANCOUVER RCO 122.35

WALLA WALLA RCO 122.3

WENATCHEE RCO 122.6

YAKIMA RCO 122.5

FSD0

FLIGHT STANDARDS DISTRICT OFFICES (FSDO)

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.

IDAHO

3295 Elder Street, Suite 350 Airport Plaza Boise, ID 83705

Telephone: 208-334-1238

MONTANA

Helena Airport 2725 Skyway Drive Helena, MT 59601 Telephone: 406-449-5270 1-800-457-9917

OREGON

Portland Flight Standards District Office 3180 NW 229th Avenue Hillsboro, Oregon 97124 Telephone: 503–615–3200 FAX 503–615–3300

WASHINGTON

Seattle FSD0 1601 Lind Ave. S. W. Renton, WA 98057 Telephone: 425–227–2813

Spokane FSDO Felts Field 6133 E. Rutter Avenue Spokane, WA 99212 Telephone: 509-532-2340

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 navaids.
 - 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 navaids, an intersection and a navaid, a navaid and 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.		00-2259 local time.
Mon	thru Fri	01-2259 local time.
Sat .	07	01-1459 local time.

- 14. Use current SIDs and STARSs 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.

SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

		Effective Times
	Route	(UTC)
Low altitude IFR traffic 13000 feet and below	overflying the Portland, OR Area:	
Southbound/southwestbound	OLM V165 UBG	1400-0700
Northbound	UBG V165 OLM	1400-0700
Low Altitude IFR traffic 9000 feet and below overflying the Seattle, WA Area:		
Southbound/Southwestbound	V165	1400-0700
Northbound	V165	1400-0700
Eastbound	V004 SEA V002	1400-0700
Low Altitude IFR traffic 10000 to 15000 overflying the Seattle, WA Area:		
Southbound	V165 V495	1400-0700
Southbound	V023 V165 DIGGN V495	1400-0700
Eastbound	V004 SEA V2	1400-0700
Low Altitude IFR traffic 10000 to 15000 overflying the Seattle, WA Area landing in PDX area:		
Southbound	V165 V495 SEA HELNS-STAR	1400-0700
Southbound	V023 V165 DIGGN V495 SEA HELNS-STAR	1400-0700
Low Altitude IFR traffic from the North terminating at McMinnville, OR, Aurora State, OR, or Hillsboro, OR:		
	V165 UBG	1400-0700

PREFERRED IFR ROUTES SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

Effective

Terminals	Route	Times (UTC)
From the Eugene, OR Area: (props and turbop		4400 0700
Northbound	V481 CV0 V495 UBG V448 OED	1400-0700 1400-0700
Southbound	V448 UED	1400-0700
	HIGH ALTITUDE	
Terminals PORTLAND (PDX)	Route	Effective Times (UTC)
Burbank (BUR)	J67 LIN J189 AVE FIM	1300-0600
Chicago O'Hare (ORD)	J16 MCW JVL-STAR	0000-2359
Detroit Metro–Wayne Co (DTW)	ODI J34 BAE MKG POLAR-STAR	0000 2000
Houston (HOU)	(Turbojets) PNH MQP EUVR TEXNN-STAR PNH MOP RIICE-STAR	
Long Beach (LGB)	J67 LIN J189 AVE FIM	1300-0600
Los Angeles (LAX)	J67 LIN J189 AVE FIM	1300-0600
Ontario (ONT)	J67 LKV J5 EHF PMD	1300-0600
Santa Ana (SNA) SEATTLE BOEING FLD (BFI)	J67 LIN J189 AVE FIM	1300-0600
Burbank (BUR)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600
Long Beach (LGB)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600
Los Angeles (LAX)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600
Ontario (ONT)	SEA J5 EHF ZIGGY-STAR	1300-0600
Santa Ana (SNA)	SEA J5 LKV J67 LIN J189 AVE FIM	1300-0600
SEATTLE/TACOMA (SEA)		
Anchorage (ANC)	(RNAV only) SQUIM AKWAY AKHOG LAIRE AKZOO JOH	
Burbank (BUR)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE	1300-0600
Cleveland Metro Area (CLE) (CGF) (BKL)		
(LNN) (LPR)	BAE J34 GRR HIMEZ-STAR	
Detroit Metro-Wayne Co. (DTW)	J90 HLN J34 BAE MKG POLAR-STAR	
Houston (HOU)	(Turbojets) PNH MQP EUVR TEXNN-STAR	
Houston (IAH)	PNH MQP RIICE-STAR	
Kennedy (JFK)	J90 HLN J34 ODI J30 J90 OBK J584 CRL J554 JHW J70 LVZ LENDY-STAR	
Long Beach (LGB)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE	1300-0600
Los Angeles (LAX)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE	
Newark (EWR)	FIM J90 ABR J70 GEP DLL J34 CRL J584 SLT FQM-STAR	1300-0600
Ontario (ONT)	SUMMA-DP SUMMA J5 EHF PMD	1300-0600
Santa Ana (SNA)	SUMMA-DP SUMMA J5 LKV J67 LIN J189 AVE	
000/44/5 (050)	FIM	1300-0600
SPOKANE (GEG)	/FIG.40	
Chicago O'Hare (ORD)	(FL240 and above, Turbojets) to join DPR J16	
	MCW JVL-STAR	0000–2359

O-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. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

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
Q1	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
•	ERAVE-EASON	BTG, OLM, HOM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
Q2	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
Q3	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
0.4	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
Q4	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL ZEBOL-SKTTR	EED, IPL, BZA, GBN, TFD, PXR, BLH PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HOM, UBG, BTG, LTJ, DSD, HUH
Ų.	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	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
Q7	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	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
Q9	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED,
		EPH, MWH
	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,
	55555 55555	SWR
011	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
Q11	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	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
Q13	All segments	None; GNSS required
Q15	All segments	None; GNSS required
Q19	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q20	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
-	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
Q22	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL

242 Q-ROUTES

Douto	Commont	DME
Route Q24	Segment LAKE CHARLES-BATON	AEX, DAS, LCH, MCB, LFT, BTR
Q2-T	ROUGE	ALX, DAG, LOTI, MOD, LIT, DTK
	BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
025	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
Q26	WALNUT RIDGE-DEVAC	LIT, JKS,GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q27	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
Q28	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
Q29	HARES-MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS-SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
Q30	SIDAE-POCKET CITY SIDON-VULCAN	PXV, TTH, BWG, ENL GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
Q30 Q31	DHART-JODOX	SQS, LIT, TXK
Q01	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
Q32	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
	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
Q33	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
024	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
Q34	TEXARKANA-MATIE MATIE-MEMPHIS	LIT, SWB, TXK, BYP, EIC, ELD, SQS LIT, ARG, MEM, ELD, SQS
	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS,PXV, BNA, GQO, IIU, VXV
035	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
400	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR-DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD
Q36	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	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
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
040	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
Q40	ALEXANDRIA-DOOMS DOOMS-WINAP	AEX, SWB, LCH, JAN, HEZ, MCB JAN, SQS, MEI, MCB
	WINAP-MISLE	MEI, VUZ, JYU
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-MAALS	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE SUZIE-EAST TEXAS	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
0104	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
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
	CYPRESS	

Route	Segment	DME
0106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
4-00	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
0108	GADAY-HKUNA	CEW, JYU, MGM, SZW, RRS, PZD, MAI, OTK, GEF, MGR, TAY, AMG, CRG
0110	THNDR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
QIIO	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRO, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN. PIE. PBI. SRO. ORL. LAL
	KPASA-BRUTS	SRO, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
0112	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
V	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
0116	KPASA-BRUTS	SRO, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
QIIO	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
0118	KPASA-BRUTS	SRO, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
QIIO	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
0501	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU,
Q301	VIXIO-GOI IIER	DLH. GEP. BRD. MCW. MSP. ASP. TVC. GRB. RWF
	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
0502	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW,
Q302	KENFA-GOFTIEK	MSP, MNM, ASP, TVC, GEP, RWF, BRD
	GOPHER-SOBME	FGT. DLH. ODI. MCW. ABR. FAR. MSP. GEP. RWF. FSD. BRD
0504	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC,
Ų304	NOTAP-CESNA	SAW. GRB. BRD
	CESNA-HEMDI	
OFOE		ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
Q505	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

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/Welcome.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 One Expansion Airspace

HAR expansion airspace may pitch vertical pitch line, or at the fixes

Except as noted, flights entering at the airspace boundary, at the

west longitude to the ZHU southern boundary. 90 degrees west longitude, the 90 degrees south to the ZHU boundary. Then west to except between PMM and GSH, then boundary to the ZME/ZID boundary west longitude from the ZMP/ZAU following the ZME east boundary Vertical Pitch Line: 86 degrees No westbound traffic between PMM and GSH. ZNZ 787 ZDC ZNZ ZIMA ZOB E ZJX IN DEW ZID SSH SWT Sovido Boydo W 98 W 06 GEP CESNA ZME S. isted on the following page. ZKC ZHD ZFW ZMP VOZ ZAB ZLC ZLA ZSE ZOA

NW, 08 APR 2010 to 03 JUN 2010

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 O110 FEONA

or

TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY

GMN, MARKS

Santa Monica or and Van Nuys DAG LAS

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

Denver Terminal Area PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE,

CABET, WEEDS, OR BINKE THNDR KPASA Q118 LENIE

Fort Lauderdale (or)

Houston Bush

Rurhank includes

Fort Lauderdale Executive

THNDR KPASA Q116 CEEYA

or

THNDR KPASA Q110 FEONA

or

THNDR SMELZ Q106 GADAY

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or THNDR SMELZ Q106 BULZI

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.

Aircraft joining J42 to the northeast, EL DORADO SID ELD Q32 J42

Jacksonville, FL

Kansas City Terminal Area TIFTO, CATTS or KENTN

GMN. RZS Los Angeles, includes Ontario or

DAG LAS or TRM EED

or TRM PKE

DOBNE, MOSBI, NICLE, TRALR or ZELOT Las Vegas

GMN SNS, EHF, LANDO Long Beach includes

Orange County

TRM PKE or

TRM EED

BNA, HAAWK, SALMS or SQS Memphis Miami Terminal Area WINCO KPASA Q118 LENIE

WINCO KPASA Q116 CEEYA

WINCO KPASA Q110 FEONA

WINCO SMELZ Q106 GADAY

WINCO SMELZ 0106 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

WEBBS BULZI Q106 GADAY

WEBBS FEONA

or

WEBBS BULZI

Palm Beach, FL TBIRD KPASA Q118 LENIE

TBIRD KPASA Q116 CEEYA

TBIRD KPASA Q110 FEONA

TBIRD SMELZ Q106 BULZI TBIRD SMELZ Q106 GADAY

TRM JOTNU BLD Palm Springs

> or TRM EED

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

0

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

TRM JOTNU BLD

San Francisco Bay Area GALLI, INSLO, HAROL JSICA
Oakland GALLI, INSLO, HAROL JSICA

San Jose GALLI or INSLO

Seattle BLUIT

Southwest Florida Airports JOCKS KPASA Q118 LENIE

(RSW/FMY)

or JOCKS KPASA 0116 CEEYA

or JOCKS KPASA Q110 FEONA

or

JOCKS SMELZ Q106 GADAY

or

JOCKS SMELZ Q106 BULZI

Tampa Terminal Area FEONA, BULZI

or BRUTS 0118 LENIE

or

GULFR Q116 CEEYA

or BULZI Q106 GADAY

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

MEM

Aircraft through ZME airspace from ZID airspace west of a line from VHP to

All Clait till

or

Aircraft through ZME airspace from ZID airspace east of a line from VHP to

BWG, BWG

UI

Aircraft through ZME airspace from ZFW airspace, MEM

-

MEI HONIE (RNAV)-STAR

01

PATYN HONIE (RNAV)-STAR

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

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

BINA, PA

Aircraft north of SLC, JOT

/ (111

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* GJJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area* GJJ, 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.

250

HIGH ALTITUDE REDESIGN (HAR) PHASE 1 RNAV ROUTING

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

LAVAN LAVAN-STAR

FTI FRIHO-STAR

or

MIERA MIERA-STAR

Austin Terminal Area Aircraft west of a north-south line at LFK. BLEWE

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

DEFUN 0112 INPIN SHDAY (RNAV)-STAR

Aircraft through ZHU remain south of ZME and ZTL airspace

SZW INPIN SHDAY (RNAV)-STAR

Chicago Midway CVA MOTIF-STAR

PIA MOTIF-STAR

DBQ CVA MOTIF-STAR

LMN MOTIF-STAR

Chicago O'Hare Terminal Area GEP DLL MSN JVL JANESVILLE-STAR

TVC PULLMAN-STAR

FOD DBQ JVL JANESVILLE-STAR

MCW JANESVILLE-STAR

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

Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW

Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS

Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area OATHE DANDD-STAR

or

HGO QUAIL-STAR

LOPEC-STAR

or

ALS LARKS-STAR

or

HBU POWDR-STAR

or

EKR TOMSN-STAR

or

CHE TOMSN-STAR

or

BFF LANDR-STAR

LBF SAYGE-STAR

or HCT SAYGE-STAR

or

RSK LARKS-STAR

0.5

LAA QUAIL-STAR

or

GCK J154 RYLIE DANDD-STAR

OCS J154 ALPOE RAMMS-STAR

or

YANKI J114 SNY LANDR-STAR

Aircraft filed BIL or east, MBW RAMMS-STAR

Ft Lauderdale or CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR

Ft Lauderdale Executive Aircraft through ZHU airspace remain south ZME and ZTL

airspace

SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR

Houston Bush CRP, CVE, LLO, LUKIY, SAT

or

Aircraft south and east of LLA, JEPEG

MISLE Q40 AEX

--

Aircraft north and east of SJI, SJI

Aircraft east of PXV. PXV 031 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

Aircraft north and east of SJI, SJI

or

BESOM Q38 ROKIT ROKIT-STAR

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 Wavne-Orange County HEC. PGS. BLD

Aircraft south of TBC from ZAB airspace, HIPPI

Kansas City Terminal Area LMN BRAYMER-STAR

PWE ROBINSON-STAR

EMP JHAWK-STAR

Las Vegas DILCO, LIDAT, IGM

Aircraft over PGA or north of PGA KSINO

Aircraft south of PGA PGS LYNSY

Los Angeles Terminal Area Aircraft North of TBC, HEC, PGS

Aircraft South of TBC from ZAB airspace, HIPPI,

MESSI

CEW DEFUN Q104 CYY DEEDS (RNAV)-STAR Miami Terminal Area

Aircraft through ZHU airspace remain south ZME and ZTL airspace

SZW HEVVN Q104 CYY DEEDS (RNAV)-STAR

Minneapolis Terminal Area Aircraft from north, west, south,

FAR GOPHER-STAR

or

RWF SKETR-STAR or ALO KASPR-STAR

BRD GOPHER-STAR

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 0104 PLYER PIKKR (RNAV)-STAR

Aircraft through ZHU AIRSPACE remain south of ZME and ZTL

airspace

SZW HEVVN 0104 PLYER PIKKR (RNAV)-STAR

Nashville CCT, GHM, GUITR, TINGS, VOLLS

New Orleans Terminal Area BLUEZ, GPT, LCH, MCB, TBD, FATSO

Oakland II A

or

KATTS PAMMY

Aircraft over or south of a line ILC J16 DVC

REANA KATTS PAMMY

Aircraft from north of ILC, JOPER PAMMY

KATTS PAMMY

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

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

10

VYLLA TUS

Phoenix Satellites FLG, SSO, MOHAK

or

VYLLA, TUS

Portland, OR Terminal Area ARNIT BONVL-STAR

or LARNO BONVL-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

DD.

JAC BRIGHAM CITY-STAR

BPI BRIGHAM CITY-STAR

10

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

MVA MODESTO-STAR

ENI GOLDEN GATE-STAR

OAL MODESTO-STAR

South of a line ILC to DVC,

REANA KATTS OAL MODESTO-STAR

San Jose FMG HYP EL NIDO-STAR

OAL HYP EL NIDO-STAR

ENI GOLDEN GATE-STAR

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

SUNED CHINS-STAR

BTG OLMYPIA-STAR

Southwest Florida Airports CEW DEFUN Q104 SWABE JOSFF-STAR

RSW and FMY Aircraft through ZHU airspace remain south of ZME and ZTL

airspace

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

SZW DARBS-STAR

Tucson DRK PXR

or

MOHAK GBN

VFR WAYPOINTS VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CULLUCATED VED CHECKDOINT

WAYDOINT IDENT

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

BALTIMORE-WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

LUCATION

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI		N38°34.57′/W076°20.38′
VPONX		N39°06.65′/W076°55.92′
VPOOP		N38°56.32′/W076°36.90′
	DOCTOR HELICOPTED OF	LART
	BOSTON HELICOPTER CI	HARI
VPBAY		N42°16.17′/W070°49.48′
VPBLT		N42°19.67′/W070°53.40′
VPCGS		N42°22.08′/W071°03.13′
VPEVS		N42°23.52′/W071°04.10′
VPFEN		N42°12.58′/W071°08.88′
VPFRE		N42°25.03′/W071°12.32′
VPGVL		N42°21.88′/W070°52.18′
VPHAM		N42°30.13′/W071°07.15′
VPPIK		N42°20.37′/W071°15.93′
VPQUA		N42°12.10′/W071°04.78′
VPQUB		N42°12.60′/W070°59.83′
VPSPF		N42°24.20′/W071°09.47′
VPTOB		N42°31.42′/W070°59.82′
VPWAN		N42°36.88′/W071°19.45′
		,
	BOSTON TERMINAL AREA	CHART
VPCOH	Cohasset	N42°13.58′/W070°48.94′
VPCUT	Cuttyhunk Harbor	N41°25.50′/W070°55.03′
VPFRA	Framingham Shopping Center	N42°18.16′/W071°23.65′
VPHOL	Woods Hole	N41°31.06′/W070°40.60′
VPHUL	Hull	N42°18.20′/W070°55.30′
VPLPT	Nantucket Great Point	N41°23.41′/W070°02.78′
VPNED	Needham Towers	N42°18.51′/W071°14.64′
VPPEA	Peabody Shopping Center	N42°32.52′/W070°56.69′
VPROC	Rockingham Race Track	N42°46.29′/W071°13.57′
VPSCI	Scituate	N42°11.89′/W070°43.69′
VPTPT	Nantucket Third Point	N41°18.51′/W070°03.37′
VPTUC	Tuckernuck	N41°18.31′/W070°15.43′
VPWAK	Wakefield	N42°30.72′/W071°05.24′
VPWAN	Wang Towers	N42°36.88′/W071°19.45′
	_	
	CHARLOTTE SECTIONAL C	CHART
VPATO		N34°37.37′/W076°31.47′
VPAVA		N34°57.00′/W077°16.50′
VPBFE		N32°16.38′/W080°47.50′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPGHI		N35°15.30′/W075°31.25′
VPGIO		N35°32.50′/W076°37.33′
VPKJU		N35°26.58′/W076°10.22′
VPLMN		N34°55.43′/W077°46.42′
VPMAB		N34°42.20′/W077°03.50′
VPNPO	ISLE OF PALMS	N32°47.78′/W079°46.45′
VPOKY		N35°06.53′/W075°59.17′
VPREP		N32°33.98′/W080°21.82′
VPRRS		N33°25.45′/W079°07.60′
VPUMO		N35°35.63′/W075°28.08′
VPWZO		N36°00.87′/W075°40.07′
VPZIE		N32°01.62′/W080°53.42′
		01.02 / 00.42

CHICAGO SECTIONAL CHART

CHICAGU SECTIONAL CHART				
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION		
VPCOH		N31°49.35′/W081°51.07′		
ne	DENVER TERMINAL AREA CHART/FLYWAY CHART			
DL	MAEK LEKIMINAL AKEA ONAKI/LELMAI			
VPBEN		N39°44.28′/W104°26.00′		
VPFTG		N39°44.35′/W104°32.75′		
VPNIC	NORTH INTERCHANGE	N39°58.90′/W104°59.27′		
HO	USTON TERMINAL AREA CHART/FLYWA	Y CHART		
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION		
VPBWY		N29°46.25′/W095°09.24′		
VPDTN		N29°46.59′/W095°22.01′		
VPGLA		N30°08.32′/W095°06.62′		
VPGLB	<u> </u>	N30°07.80′/W094°55.70′		
VPKTY		N29°47.05′/W095°44.92′		
VPPLN	<u> </u>	N30°08.80′/W095°50.42′		
VPRSN		N29°30.00′/W095°41.00′		
VPSND		N29°23.13′/W095°28.86′		
VPSNT		N29°49.29'/W094°53.94'		
VPTNE		N29°47.48′/W095°03.34′		
VPTNW		N29°47.06′/W095°33.81′		
VPTRK		N29°24.06′/W095°10.44′		
	JACKSONVILLE SECTIONAL CHART	ſ		
VPAFI		N31°49.35′/W081°51.07′		
VPAFY		N30°07.00′/W081°21.33′		
VPBEC		N29°46.25′/W081°15.10′		
VPCJA		N29°30.00′/W081°06.00′		
VPCKY		N28°46.50′/W082°34.00′		
VPCNY		N28°30.00′/W080°45.00′		
VPDAD	DADE CITY	N28°22.57′/W082°11.25′		
VPDAR	. <u></u>	N31°22.38′/W081°24.13′		
VPDFI		N29°00.17′/W081°20.85′		
VPDUT		N27°37.70′/W082°09.10′		
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'		
VPEGV		N29°39.97'/W081°24.87'		
VPFFU		N28°57.08′/W081°00.33′		
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′		
VPHAA		N30°04.02′/W083°40.02′		
VPHUC		N28°19.87′/W082°43.77′		
VPIWA	MIDWAY	N31°48.33′/W081°25.85′		
VPJMY		N29°26.92′/W081°18.27′		
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′		
VPLEV		N28°48.00′/W080°52.00′		
VPLJA		N29°00.00′/W080°51.00′		
VPMAI		N30°50.02′/W084°56.63′		
VPTLH		N30°32.70′/W083°52.22′		
VPXZY		N29°35.00′/W083°10.00′		
VPYIW		N30°42.28′/W081°27.25′		
VPZIE		N32°01.62′/W080°53.42′		
KANSAS CITY SECTIONAL CHART				
VPAGO		N37°50.33′/W090°29.03′		
VPBEK		N37°15.07′/W092°30.67′		
VPDEN		N37°46.75′/W092°19.20′		
VPENE		N37°44.75′/W091°55.78′		
VPESS		N36°59.48′/W091°00.88′		
VPFME		N37°41.00′/W092°38.33′		
VPGXY		N37°15.50′/W091°40.17′		
VPMBE		N37°11.08′/W090°27.92′		
VPMKE		N37°24.47′/W092°40.00′		
VPROV		N38°01.72′/W091°12.81′		
VPUTT		N37°52.05′/W092°01.20′		

VFR WAYPOINTS

	VIN WAIT OINTS	
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPWOC		N37°18.03′/W092°18.63′
VPWRO		N37°39.12′/W091°45.68′
VPXIZ		N37°26.60′/W092°05.42′
	KANSAS CITY TERMINAL ARE	A CHART
VPATN	ATCHISON	N39°33.62′/W095°07.65′
VPBGS	BLUE SPRINGS	N39°01.82′/W094°16.32′
VPBSP VPCHB	BONNER SPRINGS	N39°03.78′/W094°53.10′
VPDS0	CHOUTEAU BRIDGE DE SOTO	N39°08.77′/W094°32.03′ N38°58.68′/W094°58.48′
VPESG	EXCELSIOR SPRINGS	N39°20.68′/W094°13.77′
VPGTB	GARRETSBURG	N39°40.92′/W094°41.45′
VPLAT	LATHROP WATER TANK	N39°32.87′/W094°20.00′
VPLEN	LENEXA	N38°57.77′/W094°43.68′
VPLVL	LONGVIEW LAKE	N38°54.63′/W094°28.28′
VPMCL	MC LOUTH	N39°11.65′/W095°12.50′
VPNHA	NASHUA	N39°17.83′/W094°34.80′
VPSCX	SPORTS COMPLEX	N39°03.00′/W094°29.02′
VPSKR	SUGAR CREEK REFINERY	N39°07.00′/W094°27.02′
VPSPK	SWOPE PARK	N39°00.47′/W094°31.93′
VPTSK	TWIN STACKS	N39°09.05′/W094°38.22′
VPWOF	WORLDS OF FUN	N39°10.42′/W094°29.12′
	KLAMATH FALLS SECTIONAL	. CHART
VPORO		N43°57.38′/W123°02.22′
	LOS ANGELES HELICOPTER	CHART
VPANA		N33°44.43′/W117°50.03′
VPART	MAGNOLIA	N33°51.45′/W117°58.92′
VPAUT	HWY 91 & 55	N33°50.63′/W117°49.57′
VPBOB		N33°59.60′/W117°21.45′
VPCAR		N33°49.90′/W118°17.23′
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCOR		N33°52.90′/W117°32.95′
VPCRX		N34°01.40′/W117°44.88′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPDOW		N33°56.47′/W118°05.80′
VPELA		N34°00.98′/W118°10.35′
VPETY		N33°38.70′/W117°44.12′
VPFCB	0/4/488 50/4/40 8/474	N34°02.03′/W118°01.63′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPGOL VPIMP		N34°09.33′/W118°17.37′ N33°55.85′/W118°16.85′
VPKAT		N33°48.23′/W117°54.22′
VPKEL		N34°03.92′/W117°48.40′
VPLAC		N34°03.75′/W118°14.93′
VPLLU		N34°03.85′/W117°17.82′
VPLQM	OUEEN MARY	N33°45.17′/W118°11.37′
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPMDR		N33°59.27′/W118°23.97′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPNUY		N34°09.63′/W118°28.18′
VPPCH		N33°28.07′/W117°40.32′
VPPKC		N34°03.32′/W118°12.83′
VPPOR		N34°00.10′/W117°50.12′
VPRRT		N33°59.37′/W118°16.83′
VPSEP		N34°05.80′/W118°28.63′
VPSFR		N34°17.45′/W118°28.07′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′

N34°13.97'/W118°24.60'

VPSTK

LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71′/W119°10.39′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′

LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54′/W118°59.61′
VPCSU	CSU CHANNEL ISLANDS	N34°09.76′/W119°02.53′
VPGTY	GETTY CENTER	N34°04.84′/W118°28.66′
VPLBP	BANNING PASS	N33°56.05′/W116°59.63′
VPLCC	CHAFFEY COLLEGE	N34°08.87′/W117°34.33′
VPLCP	CAJON PASS	N34°18.07′/W117°27.68′
VPLDL	DISNEYLAND	N33°48.72′/W117°55.13′
VPLDP	DANA POINT	N33°27.62′/W117°42.87′
VPLDS	DODGER STADIUM	N34°04.42′/W118°14.42′
VPLFX	91/605 INTERCHANGE	N33°52.38'/W118°06.08'
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10′/W118°18.02′
VPLHF	110/405 FWYS	N33°51.42′/W118°17.10′
VPLHP	HUNTINGTON PIER	N33°39.32'/W118°00.25'
VPLKH	KING HARBOR	N33°50.75′/W118°23.88′
VPLLC	L.A. COLISEUM	N34°00.83'/W118°17.27'
VPLLM	LAKE MATHEWS	N33°50.58'/W117°26.85'
VPLMM	MAGIC MOUNTAIN	N34°26.20′/W118°36.28′
VPLMS	MILE SQUARE PARK	N33°43.40′/W117°56.77′
VPLPD	PRADO DAM	N33°53.40′/W117°38.48′
VPLPP	PACIFIC PALISADES	N34°02.13'/W118°32.15'
VPLQM	QUEEN MARY	N33°45.17′/W118°11.37′
VPLRB	ROSE BOWL	N34°09.67′/W118°10.05′
VPLRT	SANTA ANITA RACE TRACK	N34°08.45′/W118°02.65′
VPLSA	SANTA ANA CANYON	N33°52.03′/W117°42.68′
VPLSB	SANTA FE FLOOD BASIN	N34°07.72′/W117°57.30′
VPLSC	STATE COLLEGE	N33°52.97′/W117°53.13′
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87′/W118°29.00′
VPLSP	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07′/W118°21.13′
VPLSS	SANTA SUSANA PASS	N34°16.00′/W118°38.43′
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40′/W118°20.30′
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97′/W118°16.32′
VPLWT	WATER TANK	N34°10.82′/W118°46.27′
VPNEW	NEWHALL PASS	N34°20.18′/W118°30.72′
VPSTC	SATICOY BRIDGE	N34°16.62′/W119°08.34′
		*

MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPBOV		N27°57.00′/W080°46.75′
VPCLE		N26°27.07′/W082°00.88′
VPCTE		N26°09.28′/W081°20.70′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDUT		N27°37.70′/W082°09.10′
VPDZE		N27°19.00′/W080°44.17′
VPEAR	CLEARWATER BEACH	N27°58.67′/W082°49.83′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPFAH		N26°25.40′/W081°29.67′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHRO		N27°05.97′/W082°12.20′
VPHUC		N28°19.87′/W082°43.77′
VPIBR		N27°12.47′/W081°40.22′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPKOE		N24°40.08′/W081°20.55′
VPLYY		N24°49.07′/W080°49.17′
VPMBO	GULFSTREAM PARK	N25°58.57′/W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI		N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
VPWMO		N27°03.00′/W080°35.00′
	· · · · · · · · · · · · · · · · · · ·	,

MIAMI TERMINAL AREA CHART/FLYWAY CHART

	MIAMI IERMINAL AREA CHARI/FL	YWAY CHARI
WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92′/W080°06.93′
VPEDY	ANDYTOWN TOLLGATE	N26°08.78′/W080°28.00′
VPMBO	GULFSTREAM PARK	N25°58.57′W080°08.17′
VPOBA	PUMPING STATION	N26°28.30′/W080°26.75′
VPRBI	Tomi into ominion	N25°50.67′/W080°55.18′
VPRNL	RANGER STATION	N25°22.92′/W080°36.58′
VIIVE	Wilder Stritton	1120 22:32 / 11000 00:00
	NEW ORLEANS SECTIONAL	CHART
VPGPT		N30°25.95′/W089°05.62′
VPLIP	PHILLIPS INLET	N30°16.23′/W085°59.25′
VPMAI		N30°50.02′/W084°56.63′
VPMOB		N30°23.00′/W088°31.72′
VPRAM		N30°18.95′/W089°35.88′
VPRER		N30°13.87′/W085°20.67′
VPRIV		N30°54.85′/W087°57.82′
VPSAW		N30°49.65′/W089°07.42′
VPTHR		N30°19.93′/W087°08.50′
	NEW YORK HELICOPTER C	UADT
	NEW TURK HELICUPTER C	
VPJAY		N40°59.00′/W073°07.00′
VPLYD		N40°57.37′/W073°29.59′
VPROK		N40°52.70′/W073°44.24′
	PHOENIX TERMINAL AREA CHART/F	LYWAY CHART
VPALL	ALLENVILLE	N33°20.97′/W112°35.20′
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05′/W112°41.38′
VPARM	ARROWHEAD MALL	N33°38.52′/W112°13.48′
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98′/W111°59.08′
VPAZM	ARIZONA MILLS	N33°23.43′/W111°57.88′
VPBAR	BARTLETT DAM	N33°49.10′/W111°37.92′
VPCCC	COUNTRY CLUB & CANAL	N33°30.73′/W111°50.37′
VPCNL	CANAL	N33°33.23′/W111°46.89°
VPFRB	FIREBIRD LAKE	N33°16.35′/W111°58.10′
VPFTN	FOUNTAIN HILLS	N33°36.12′/W111°42.72′
VPGLX	GILA CROSSING	N33°16.55′/W112°10.08′
VPGPP	GLENDALE POWER PLANT	N33°33.27′/W112°13.00′
VPMAR	MARICOPA	N33°03.42′/W112°02.88′
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53′/W111°49.58′
VPNRV	NEW RIVER	N33°55.08′/W112°08.45′
VPNTT	NORTH TEST TRACK	N33°03.50′/W111°55.83′
VPPIR	PIR	N33°22.52′/W112°18.90′
VPQTR	QUINTERO GOLF COURSE	N33°49.53′/W112°23.58′
VPRVC	RIO VERDE COMMUNITY	N33°44.37′/W111°39.62′
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02′/W112°02.12′
VPSQP	SQUAW PEAK	N33°32.83′/W112°01.27′
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50′/W111°41.37′
VPSTN	SANTAN MOUNTAINS	N33°09.23′/W111°40.92′
VPSTT	SOUTH TEST TRACK	N32°56.25′/W111°59.67′
VPZZZ		N33°20.18′/W111°26.53′
	ST LOUIS TERMINAL AREA CHART/F	LYWAY CHART
VPAGN	TV ANTENNA	N38°32.08′/W090°22.42′
VPBPE	I V AINTLINIVA	N38°23.80′/W090°22.42
VPCJY	HOLIDAY SHORES	N38°55.00′/W089°56.00′
VPCOJ	WINFIELD DAM	N39°00.28′/W090°41.23′
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18′/W090°16.47′
VPEAZ	BUSCH STADIUM	N38°37.43′/W090°11.55′
VPEDZ	WATER TANKS	N38°45.30′/W090°34.87′
VPEGR	GAS TANKS	N38°35.80′/W090°19.32′
VPEOX	ST PETERS	N38°47.17′/W090°39.25′
201	STILLIO	1100 41.11 / 11000 00.20

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00′/W090°43.00′
VPFFY		N38°55.37′/W090°17.30′
VPGPF		N38°35.60′/W090°26.92′
VPGVI		N38°32.30′/W090°27.80′
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88′/W090°10.42′
VPIBO	WATERLOO	N38°20.00′/W090°09.00′
VPJMU	HORSESHOE LAKE	N38°41.00′/W090°05.00′
VPKNY	PACIFIC	N38°29.00′/W090°44.00′
VPLES	ST CHARLES	N38°47.00′/W090°30.00′
VPLIW	SIX FLAGS	N38°30.67′/W090°40.47′
VPLXU	GATEWAY ARCH	N38°37.50′/W090°11.00′
VPNSY	WOOD RIVER REFINERIES	N38°50.00′/W090°05.00′
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00′/W090°20.00′
VPRMO	FOREST PARK	N38°38.00′/W090°17.00′
VPWKO	COLUMBIA	N38°27.00′/W090°12.00′
VPXXI	MILLSTADT	N38°27.50′/W090°05.68′
VPYID	MOSENTHEIN ISLAND	N38°43.00′/W090°12.25′

SALT LAKE CITY HELICOPTER CHART

	0/12/ 2/11/2 0/1/ 1/22/00/ 1/21/ 0/1/11/	
VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCWY	CAUSEWAY	N41°05.37′/W112°07.17′
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15'/W111°54.90'
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38′/W112°02.78′
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	- <u></u>	N40°38.00′/W112°03.33′

SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALTAIR	N40°44.85′/W112°11.22′
VPBEE	SOUTH INTERCHANGE	N40°38.18′/W111°54.23′
VPBRN	BARN	N40°54.28′/W112°10.15′
VPCAP	STATE CAPITOL	N40°46.67′/W111°53.25′
VPCHS		N40°42.28′/W112°05.92′
VPCOP	BINGHAM COPPER MINE	N40°31.38′/W112°09.00′
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30′/W111°53.43′
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67′/W111°48.10′
VPFPC	FREE PORT CENTER	N41°05.92′/W112°02.27′
VPFPK	FRANCIS PEAK	N41°01.98′/W111°50.30′
VPGFS	GARFIELD STACK	N40°43.28′/W112°11.88′

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPHVE	SPAGHETTI BOWL	N40°43.50′/W111°54.22′
VPJRT	JORDAN RIVER TEMPLE	N40°35.02′/W111°55.58′
VPKSL	KSL ANTENNA	N40°46.80′/W112°05.80′
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50′/W111°57.08′
VPMMT	MICROWAVE TOWERS	N40°48.50′/W111°53.37′
VPMSH		N41°01.67'/W112°02.47'
VPNSL		N40°50.15′/W111°54.90′
VPNTP		N41°03.57′/W112°14.23′
VPOGE	GRAIN ELEVATOR	N41°13.13′/W112°00.45′
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28′/W112°25.73′
VPPTM	POINT OF THE MOUNTAIN	N40°27.42′/W111°54.83′
VPPVO	PROVO CANYON	N40°18.77′/W111°39.45′
VPRWY		N40°48.48′/W112°00.33′
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83′/W111°54.85′
VPTIP	SOUTH TIP	N40°50.93′/W112°10.92′
VPUOU	U OF U EVENTS CENTER	N40°45.73′/W111°50.28′
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT		N40°38.00′/W112°03.33′
VPZ00	HOGLE ZOO	N40°45.00′/W111°48.95′

SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP	DANA POINT	N33°27.62′/W117°42.87′
VPLSP	SIGNAL PEAK	N33°36.33′/W117°48.63′
VPOCN		N33°14.15′/W117°26.63′
VPSBC	BARONA CASINO	N32°56.25′/W116°52.60′
VPSBL		N33°05.18'/W117°18.55'
VPSBM	BLACK MOUNTAIN	N32°58.87'/W117°07.00'
VPSCF		N32°48.55′/W117°09.17′
VPSCM	COWLES MOUNTAIN	N32°48.72′/W117°01.97′
VPSCP	CRYSTAL PIER	N32°47.77′/W117°15.42′
VPSCR		N32°39.37'/W117°07.30'
VPSFB	IRON MOUNTAIN	N32°58.25′/W116°57.33′
VPSLJ	LAKE JENNINGS	N32°51.53′/W116°53.28′
VPSMB		N32°45.57′/W117°12.22′
VPSMP		N33°22.70′/W117°36.75′
VPSMS	MOUNT SOLEDAD	N32°50.40′/W117°15.10′
VPSMV		N32°45.75′/W117°09.80′
VPSMW	MOUNT WOODSON	N33°00.52′/W116°58.23′
VPSOP	OTAY MESA PRISON	N32°35.82′/W116°55.28′
VPSOT	LOWER OTAY LAKE	N32°37.73′/W116°55.38′
VPSPL	SOUTH POINT LOMA	N32°39.90′/W117°14.55′
VPSPP	POWER PLANT	N33°08.25′/W117°20.23′
VPSQS	QUALCOMM STADIUM	N32°46.98′/W117°07.23′
VPSRT	DEL MAR RACE TRACK	N32°58.58′/W117°15.95′
VPSSM	SAN MIGUEL MOUNTAIN	N32°41.78′/W116°56.18′
VPSSV	SAN VICENTE ISLAND	N32°55.53′/W116°55.00′
VPSTP	TORREY PINES GOLF COURSE	N32°54.17′/W117°14.68′
VPSVA		N33°11.48′/W117°16.38′
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SAN FRANCISCO SECTIONAL CHART

VPKBG KINGSBURY GRADE N38°58.75′/W119°53.20′

SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT	ALTAMONT PASS	N37°44.35′/W121°35.42′
VPANT	ANTIOCH BRIDGE	N38°01.45′/W121°45.02′
VPBBR	BENICIA BRIDGE	N38°02.50′/W122°07.45′
VPCAL	CALAVERAS RESERVOIR	N37°28.16′/W121°48.93′
VPCBT	LAKE CHABOT	N37°43.68′/W122°06.94′
VPCOY	COYOTE HILLS	N37°32.50′/W122°05.06′
VPCQZ	CARQUINEZ BRIDGE	N38°03.66′/W122°13.52′
VPCRL		N37°11.00′/W121°41.06′
VPCRY	CRYSTAL SPRINGS CAUSEWAY	N37°30.56′/W122°21.10′

VFR WAYPOINTS

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52′/W122°03.52′
VPDAM	DEL VALLE DAM	N37°36.91′/W121°44.78′
VPDLR		N37°07.00′/W121°47.06′
VPDUB	DUBLIN	N37°42.06′/W121°55.36′
VPEMB	EMBASSY SUITES	N37°26.05′/W121°53.83′
VPGGF	GOLDEN GATE FIELDS	N37°53.07′/W122°18.71′
VPGIL	GILROY	N37°01.37'/W121°33.99'
VPHHH	HAMILTON	N38°03.58'/W122°30.66'
VPKGO	KG0	N37°31.58′/W122°06.10′
VPLEX	LEXINGTON RESERVOIR	N37°11.66′/W121°59.18′
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28′/W122°11.81′
VPMOR	MORMON TEMPLE	N37°48.46′/W122°11.95′
VPNUM	NUMMI PLANT	N37°29.56′/W121°56.58′
VPPAC		N37°38.00′/W122°32.07′
VPPRU	PRUNEYARD	N37°17.33′/W121°56.01′
VPSAR	SARATOGA	N37°15.26′/W122°02.33′
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75′/W122°14.35′
VPSTB	STINSON BEACH	N37°54.45′/W122°40.41′
VPSUN	SUNOL GOLF COURSE	N37°34.85′/W121°53.23′
VPUTC	U.T.C.	N37°13.93′/W121°41.35′
VPWAL	WALNUT CREEK	N37°53.78′/W122°04.30′
VPWAM		N37°30.28′/W122°10.00′
VPWFR	CEMENT PLANT	N37°30.88′/W122°12.26′
TAMPA	ORLANDO TERMINAL AREA CHART/FLYV	VAY CHART

VPBOV VPCNY		N27°57.00′/W080°46.75′ N28°30.00′/W080°45.00′
VPDAD	DADE CITY	N28°22.57′/W082°11.25′
VPDFI		N29°00.17′/W081°20.85′
VPDUT		N27°37.70′/W082°09.10′
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPFFU		N28°57.08′/W081°00.33′
VPGPE	ST PETE BEACH	N27°43.50′/W082°44.67′
VPHUC		N28°19.87′/W082°43.77′
VPKER	LAKE PARKER	N28°04.00′/W081°56.00′
VPLEV		N28°48.00′/W080°52.00′
VPLJA		N29°00.00′/W080°51.00′

WASHINGTON SECTIONAL CHART

	Whommaron oborronne onnin	•
VPACE		N38°07.82′/W076°48.75′
VPAXI		N38°34.57′/W076°20.38′
VPBRA		N36°13.75′/W076°08.08′
VPGCE		N36°03.90′/W076°36.42′
VPWZO		N36°00.87′/W075°40.07′

VOR RECEIVER CHECK VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

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.

IDAHO

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
Boise	113.3/BOI	A/5000	090	6.2	Over dam outlet S end Lucky Peak Reservoir
Boise (Boise Air Terminal–Gowen Field)	113.3/BOI	G	275	1.0	On twy C adjacent to the intersection of Twy B at apch end Rwy 28L.
Coeur D'Alene	108.8/COE	A/4000	011	9.0	Over amusement park.
Idaho Falls (Idaho Falls Rgnl)	113.85/IDA	G	208		At intersection of Twys A and A3.
Nez Perce (Lewiston-Nez Perce County)	108.2/MQG	A/3000	247	6.2	Over tetrahedron on arpt.
Pocatello (Pocatello Rgnl)	112.6/PIH	A/5800	034	8.7	Over radio antenna with white storage tanks at base.
Fld)	115.8/TWF	G	065	0.8	On runup area at apch end Rwy 25.

VOR TEST FACILITIES (VOT)

Facility Name		Type VOT	
(Airport Name)	Freq.	Facility	Remarks

Boise 116.7

MONTANA

RECEIVER CHECKPOINTS

		Type Check Pt.	Azimuth from	Dist.	
Facility Name (Arpt Name)	Freg/Ident	Gnd. AB/ALT	Fac. Mag	Fac. N.M.	Checkpoint Description
racing rame (repertame)	1104/140110	710/7121	ag		oncomposite Bookingtion
Billings	114.5/BIL	A/5000	199	10.5	Over refinery at Laurel.
Bozeman (Gallatin Fld)	112.4/BZN	G	272	0.5	Twy at apch end Rwy 12.
	112.4/BZN	G	137	1.0	On runup as at apch end Rwy 30.
Coppertown (Bert Mooney)	111.6/CPN	A/6600	098	11.5	Over intersection of Rwys 11–29 and 15–33.
Dillon	113.0/DLN	A/7000	245	5.0	Over letter 'B' on bluff.
Great Falls (Great Falls Intl)	115.1/GTF	G	030	2.3	On Twy A between A5 and A6.
	115.1/GTF	G	030	2.9	At intersection of Twy A and A3.
Havre	111.8/HVR	A/4000	278	8.0	Over S end of dam.
Helena (Helena Rgnl)	117.7/HLN	G	238	0.7	On Twy E on South side of Rwy 27.
Kalispell (Glacier Park Intl)	108.4/FCA	A/4000	316	6.4	Over apch end Rwy 30.

		Туре			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Lewistown (Lewistown Muni)	112.0/LWT	A/5200	075	5.6	Over apch end Rwy 07.
Livingston	116.1/LVM	A/6500	237	5.5	Over northern most radio twr NE of city.
Miles City (Frank Wiley Field)	112.1/MLS	G	036	4.2	On twy leading to Rwy 30.
Missoula (Missoula Intl)	112.8/MS0	G	344	0.6	Terminal ramp east of Twy
					D

OREGON 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
Astoria (Astoria Regional)	114.0/AST	G	153	.5	East edge of ramp in front of large hangar.
Baker	115.3/BKE	A/6000	136	6.7	Over microwave tower on bluff.
Corvallis (Corvallis Muni)	115.4/CVO	G	049	0.5	On S edge of terminal ramp.
Eugene (Mahlon Sweet Field)	112.9/EUG	G	071	0.5	On ramp immediately W of tower.
Klamath Falls (Klamath Falls)	115.9/LMT	G	298	1.0	On ramp N of Twy E.
North Bend (North Bend Muni)	112.1/0TH	G	254	3.1	On Twy E at compass rose.
Pendleton (Eastern Oregon Rgnl At Pendleton)	114.7/PDT	G	073	3.9	On twy B.
Rogue Valley (Rogue Valley Intl)	113.6/0ED	A/3000	213	4.8	Over radio tower.
Roseburg (Roseburg Rgnl)	108.2/RBG	A/2500	337	3.0	Over S end of Rwy 16-34.
Wildhorse	113.8/ILR	A/6500	225	6.0	Over smoke stack.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
Portland Intl Portland Hillsboro Rogue Valley Intl-Medford	111.0 115.2 117.2	G G G	Unusable on Twy A–6, hangar area W of Twy A–6 and Twy A NW of Twy C.

WASHINGTON VOR RECEIVER CHECKPOINTS

		Type			
		Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Ellensburg (Bowers Field)	117.9/ELN	A/2300	255	3.5	Over W end of Rwy 07-25.
Ephrata (Ephrata Muni)	112.6/EPH	A/2300	202	5.8	Over intersection of Rwys 02–20 and 11–29.
Hoquiam (Bowerman)	117.7/HQM	A/1100	062	8.4	Over centerline on apch end Rwy 06.
Whatcom (Bellingham Intl)	113.0/HUH	A/1700	162	5.4	Over Nooksack River/Interstate 5

Remarks

		Type Check	Azimuth	Dist.	
		Pt.	from	from	
		Gnd.	Fac.	Fac.	
Facility Name (Arpt Name)	Freq/Ident	AB/ALT	Mag	N.M.	Checkpoint Description
Moses Lake (Grant County Intl)	115.0/MWH	G	155	1.4	On runup area Rwy 32R.
	115.0/MWH	G	194	1.2	On runup area Rwy 04.
	115.0/MWH	G	313	1.0	On runup area Rwy 14L.
Olympia (Olympia Rgnl)	113.4/OLM	G	350	0.3	On E runup area Rwy 17.
Paine (Snohomish Co (Paine Fld))	110.6/PAE	G	173	0.8	Intersection of Rwy 11 and Twy H.
				1.1	On Twy A–7.
Pasco (Tri-Cities)	108.4/PSC	G	098		Twy Echo at Rwy 30 run-up area.
Seattle	116.8/SEA	A/2000	197	27.0	Over Nisqually River/Interstate 5 bridge.
Seattle	116.8/SEA	A/2500	308	19.5	Over NW end of bridge and Hwy 305.
Seattle (Crest Airpark)	116.8/SEA	A/2000	107	10.3	Over centerline on apch end Rwy 33.
Tatoosh (Sekiu)	112.2/TOU	A/2500	077	12.4	Over AER 08.
Walla Walla (Martin Field)	116.4/ALW	A/1500	225	5.6	Over largest hangar.
Walla Walla (Walla Walla Rgnl)	116.4/ALW	G	035	0.5	At the intersection of Twys A and C.
Wenatchee (Pangborn Mem)	111.0/EAT	G	105	0.6	On Twy at apch end of Rwy 30.
Yakima	116.0/YKM	A/3500	210	4.1	Over single tower on ridge line.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility
Seattle (Boeing Field/King County Intl)	108.6	G
Seattle (Seattle Tacoma Intl)	117.5	G
Spokane (Felts Field)	114.0	G
Spokane Intl	109.6	G

WYOMING

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freg/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
racing rame (repertame)	1104/14011	715/7121	ag		onconpoint Becomption
Boysen Reservoir	117.8/BOY 115.4/JAC	A/6500 G	180 174	25 0.5	Over Riverton VOR. On Twy A, approximately 1,000' S of AER 19.
Muddy Mountain (Casper/Natrona Co Intl)	116.2/DDY	A/6400	204	13.4	Over intersection Rwys 03–21, 08–26 and 12–30.
Newcastle (Mondell Fld)	108.2 ECS	A/5500	116	4.9	Over radio towers with strobe lights.
Rawlins (Rawlins Muni)	109.4/RWL	A/7500	093	5.5	Bridge over railroad track east of refinery.
Rock Springs (Rock Springs–Sweetwater	109.4/RWL	G	050	0.8	Runup area Rwy 22.
County)	116.0/0CS	G	270	2.3	Intersection twy to Rwy 09–27.
Sheridan (Sheridan County)	115.3/SHR	A/5000	129	5.0	Over centerline approach end Rwy 14.

The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. 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. Jumps 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 sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump 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) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
	IDAHO		
Burley	13 NM; 035° Burley	15,000	Daily SR-SS.
(c) Caldwell Industrial Arpt	20 NM; 269° Boise	17,500	5 NM radius. ¹ /2 hour before SR-1 hour after SS.
(c) Star Skydiving Center	17 NM; 289° Boise	16,000	5NM radius. SR-2 hrs after SS daily.
	MONTANA		
Bozeman Gallatin Fld Arpt	1 NM; 038° Bozeman	15,000	2 NM radius. SR-SS daily.
(c) Butler Creek	19 NM; 296° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
Dornblaser Fld	5.2 NM; 120° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
(c) Grant Creek	1.5 NM; 053° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
(c) Helena, Ft Harrison	6 NM; 265° Helena	12,000	1 NM radius. Wed-Sun SR-SS.
Kalispell	6 NM; 227° Kalispell	14,000	1 NM radius. 0900-SS daily.
(c) Kalispell, Carson Fld Arpt	28 NM; 238° Kalispell	14,000	2 NM radius. 0800-SS daily.
Kalispell, City Arpt	6 NM; 230° Kalispell	14,000 AGL	2 NM radius. 0800-SS daily.
(c) Laurel Muni Arpt	9 NM; 208° Billings	14,500	2 NM radius. Daily SR-SS.
Livingston, MIssion Fld	1 NM; 010° Livingston	14,500	2 NM radius. Daily SR-SS.
(c) Missoula Intl Arpt	1.4 NM; 315° Missoula	1,500 AGL	0.5 NM radius. May-Sep daily SR-SS, Oct-Apr occasional use.
Nine Mile R.S.	17 NM; 289° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
(c) Raser Ranch	2 NM; 357° Missoula	3,000 AGL	0.5 NM radius Apr-Oct occasional use.
Roundup Arpt	40 NM; 351° Billings	14,500	Weekends SR-SS.
(c) Six Mile	15 NM; 300° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
(c) Stevensville Arpt	25 NM; 162° Missoula	14,000	1 NM radius. Wed and weekends SR-SS.
Stoney Creek	17 NM; 296° Missoula	2,000 AGL	0.5 NM radius. Occasional use.
Three Forks Arpt	18 NM; 275° Bozeman	14,500	2 NM radius. Daily SR-SS.
University Campus	5 NM; 108° Missoula	12,500 AGL	0.5 NM radius. Occasional use.
West Yellowstone, Yellowstone Arpt	60 NM; 034° DuBois	1,500 AGL	June-Sep.
	OREGON		
(c) Albany, Northwest Parachute Club	18 NM; 032° Corvallis	13,000	2 NM radius. SR-1 hr after SS Wed-Sun. Occasional hours Mon-Tue.
(c) Creswell, Hobby Fld	15 NM; 120° Eugene	15,000	5 NM radius. SR-SS daily.
(c) Estacada, Beaver Oaks Arpt	25 NM; 076° Newberg	13,000 AGL	1.5 NM radius. 0800-2300 Daily.
(c) Hermiston Muni Arpt	16 NM; 280° Pendleton	15,000	2 NM radius. SR-SS weekends. Occasional hours weekdays.
(c) Medford, Beagle Sky Ranch Arpt	5 NM; 350° Rogue Valley	14,000	Daily SR-2200.
(c) Mollala, Sky Dive Oregon Arpt	19 NM; 110° Newberg	14,500	5 NM radius. 0800–2200, Daily. Portland Intl Tower 118.1
(c) Redmond, Cline Falls Air Park Arpt	3 NM; 010° Deschutes	13,000	3 NM radius. 0800-2100.

PARACHUTE JUMPING AREAS

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
	WASHINGTON		
(c) Coupeville NOLF	5 NM; 110° Penn Cove	12,500 AGL	2 NM radius. Occasional use.
Fort Lewis, Abrams Drop Zone	7.5 NM; 200° McChord	10,000	1 NM radius. Occasional use.
Fort Lewis, Anzio Drop Zone	9 NM; 160° McChord	10,000	0.3 NM radius. Occasional use.
Fort Lewis, Dakto Drop Zone	7.5 NM; 175° McChord	10,000	0.3 NM radius. Occasional use.
Fort Lewis, Darby Drop Zone	8.5 NM; 097° Olympia	10,000	0.5 NM radius. Occasional use.
Fort Lewis, El Guettar Drop Zone	7.5 NM; 092° Olympia	10,000	0.3 NM radius. Occasional use.
Fort Lewis, Gray AAF Drop Zone	6 NM; 210° McChord	10,000	1 NM radius. Occasional use.
Fort Lewis, Marion Drop Zone	11 NM; 190° McChord	10,000	1 NM radius. Occasional use.
Fort Lewis, Merrill Drop Zone	9 NM; 092° Olympia	10,000	0.5 NM radius. Occasional use.
Fort Lewis, Mytkina Drop Zone	10 NM; 065° Olympia	10,000	1 NM radius. Occsional use.
Fort Lewis, Point Salinas Drop Zone	7.5 NM; 201° McChord	10,000	1 NM radius. Occasional use.
Fort Lewis, Pointe De Hoc Drop Zone	11.5 NM; 192° McChord	10,000	0.25 NM radius. Occasional use.
Fort lewis, Rogers Drop Zone	7 NM; 155° McChord	10,000	0.5 NM radius. Occasional use.
Fort Lewis, Solo Drop Zone	6.5 NM; 245° McChord	10,000	1 NM radius. Occasional use.
Kennewick, Vista Field	5.1 NM; 217° Pasco	14,500	1 NM radius. SR-SS weekends, 1700-SS weekdays, Apr-Nov.
(c) Larson Drop Zone	17 NM; 217° Moses Lake	3,000	Continuous. Personnel and hvy equip. Grant Co Intl Tower 126.4
Monroe, Firstair Fld	14 NM; 091° Paine	12,500	0.5 mi radius. Daily SR-SS.
(c) Richland Arpt	8 NM; 270° Pasco	13,000	2 NM radius. Continuous.
(c) Ritzville, West Plains Skydiving			
Drop Zone	36.4 NM; 207° Spokane	15,000	2 NM radius. SR-SS weekends, 1700-SS weekdays. Heavy use Apr-Nov.
(c) Shelton, Sanderson Fld Arpt	19 NM; 309° Olympia	14,000	2 NM radius. Daily 0800-2300.
(c) Snohomish, Harvey Fld	7 NM; 078° Paine	15,000	2 NM radius. Continuous.
(c) Snohomish, Harvey Fld	8 NM; 075° Paine	15,000	1 NM radius. Continuous.
(c) Spokane, Hayford Drop Zone	12 NM; 340° Spokane	10,000	0.5 NM radius. Occasional use.
(c) Tacoma, McChord AFB	28 NM, 181° Seattle	15,000	Weekends and occasional nights.
(c) Tekoa, Willard Fld	31 NM; 110° Spokane	12,500	1 NM radius. Daily.
(c) Toledo, Ed Carlson Mem Fld–South			
Lewis Co	30 NM; 150° Olympia	12,500	5 NM radius. Continuous.

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 Charts 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.

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 the nearest FSS for route dimensions and current status for those routes affecting your flight.

BILLINGS SECTIONAL 79th Edition. 11 Mar 2010

OBSTRUCTIONS

8 Apr 2010 Add obst 3780'MSL (350'AGL)UC, 45°30'43"N, 104°28'25"W.

AIRPORTS

8 Apr 2010 Change CTAF freq. 122.9 to 122.8 at SOUTH BIG HORN COUNTY arpt, 44°31′00″N, 108°04′58″W.

Add CTAF freq. 122.8 at POPLAR MUNI arpt, 48°08'04"N, 105°09'43"W.

NAVAID

8 Apr 2010 No Major Changes.

AIRSPACE

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 No Major Changes.

CHEYENNE SECTIONAL 81st Edition, 14 Jan 2010

OBSTRUCTIONS

11 Feb 2010 Add obst 4844'MSL (350'AGL)UC, 40°21'23"N, 104°08'48"W. Add obst 6184'MSL (390'AGL)UC, 43°02'26"N, 105°58'50"W.

8 Apr 2010 Add obst 5024'MSL (367'AGL)UC, 44°11'51"N, 106°16'13"W. Add windmill farm. 7643' UC is highest MSL, 41°39'33"N, 106°03'26"W. Add windmill farm. 6269' UC is highest MSL, 43°01'45"N, 106°00'03"W. Add obst 4749'MSL (500'AGL)UC, 44°23'17"N, 105°27'34"W. Add obst 5845'MSL (306'AGL)UC, 44°02'17"N, 101"41'15"W. Add obst 7189'MSL (270'AGL)UC, 41°40'47"N, 107°03'49"W. Add obst 5832'MSL (300'AGL)UC, 43°18'20"N, 107°41'37"W. Add obst 58591'MSL (380'AGL)UC, 41°31'41"N, 107°02'18"W. Add obst 5591'MSL (380'AGL)UC, 41°31'41"N, 105°01'35"W. Add obst 7062'MSL (407'AGL)UC, 41°08'21"N, 105°01'30"W.

Add obst 4489'MSL (350'AGL)UC, 41°31'40"N, 103°13'48"W.

AIRPORTS

11 Feb 2010 No Major Changes.

8 Apr 2010 Change CTAF 122.9 to 122.8 at SOUTH BIG HORN CO arpt, 44°31′01″N, 108°04′58″W.

NAVAIDs

11 Feb 2010 - 8 Apr 2010 No Major Changes.

AIRSPACE

11 Feb 2010 Revise RIVERTON, WY Class E: That airspace extending upward from 700 feet above the surface within an 8.7-mile radius of the Riverton Regional Airport and within 4 miles each side of the Riverton VOR/DME 291° radial extending from the 8.7-mile radius to 16.6 miles west of the VOR/ DME, and within 3.1 miles each side of the Riverton VOR/DME 123° radial extending from the 8.7-mile radius to 10.5 miles southeast of the VOR/DME; that airspace extending upward from 1200 feet above the surface within a 21.8-mile radius of the Riverton VOR/DME within 8.7 miles east and 6.1 miles west of the Riverton VOR/DME, and within 6.1 miles northeast and 12.7 miles southwest of the Riverton VOR/DME 301° radial extending from the 21.8-mile radius to 32.2 miles northwest of the VOR/DME, on the east within a rarea bounded by a point beginning at 42°56'30"N, 107°59'45"W; to 42°54'53"N, 107°44'31" W; to 42°42'35"N, 107°53'00"W; to 42°49'00"N, 108°06'00"W; thence to the point of beginning.

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE 11 Feb 2010 – 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES 11 Feb 2010 - 8 Apr 2010 No Major Changes.

MISCELLANEOUS

11 Feb 2010 - 8 Apr 2010 No Major Changes.

GREAT FALLS SECTIONAL 78th Edition, 14 Jan 2010

OBSTRUCTIONS

11 Feb 2010 No Major Changes. 8 Apr 2010 Add obst 4540'MSL (320'AGL)UC, 47°15'21"N, 110°30'08"W.

Add obst 4664 MSL (315/AGL)UC, 47°15/41"N, 110°42'18"W. Add obst 4235'MSL (320'AGL)UC, 47°20'17"N, 110°53'21"W. Add obst 4235'MSL (320'AGL)UC, 47°20'17"N, 110°53'21"W.

Add obst 3504'MSL (295'AGL)UC, 48°32'17"N, 110°59'40"W.

Add obst 3973'MSL (315'AGL)UC, 47°24'38"N, 111°09'05"W. Add obst 4291'MSL (320'AGL)UC, 47°56'31"N, 112°17'06"W.

Add obst 4467'MSL (320'AGL)UC, 47°29'54"N, 112°24'31"W.

Add obst 3567'MSL (255'AGL)UC, 48°23'22"N, 114°01'35"W. Add obst 3860'MSL (255'AGL)UC, 46°59'45"N, 114°07'12"W.

Add obst 5545'MSL (345'AGL)UC, 45°53'51"N, 109°32'41"W. Add obst 5048'MSL (306'AGL)UC, 46°41'17"N, 109°44'32"W.

AIRPORTS

11 Feb 2010 - 8 Apr 2010 No Major Changes.

11 Feb 2010 - 8 Apr 2010 No Major Changes.

AIRSPACE

11 Feb 2010 - 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

11 Feb 2010 - 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

11 Feb 2010 - 8 Apr 2010 No Major Changes.

11 Feb 2010 - 8 Apr 2010 No Major Changes.

KLAMATH FALLS SECTIONAL 82nd Edition, 8 Apr 2010

OBSTRUCTIONS

8 Apr 2010 No Major Changes.

AIRPORTS

8 Apr 2010 No Major Changes.

8 Apr 2010 No Major Changes.

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 No Major Changes.

SALT LAKE CITY HELICOPTER ROUTE CHART 3rd Edition, 26 Oct 2006

OBSTRUCTIONS

23 Nov 2006 - 8 Apr 2010 No Major Changes.

23 Nov 2006 - 10 Apr 2008 No Major Changes.

5 Jun 2008 Delete PAYNE arpt, 41°05′54″N, 112°06′56″W. Delete WARD heli, 40°35′59″N, 111°48′03″W. **31 Jul 2008 – 25 Sep 2008** No Major Changes.

20 Nov 2008 Delete CHANNEL 4 heli, 40°43′57″N, 111°57′20″W.

15 Jan 2009 - 8 Apr 2010 No Major Changes.

23 Nov 2006 - 8 Apr 2010 No Major Changes.

23 Nov 2006 - 8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

23 Nov 2006 - 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

23 Nov 2006 - 8 Apr 2010 No Major Changes.

MISCELLANEOUS

23 Nov 2006 - 8 Apr 2010 No Major Changes.

SALT LAKE CITY SECTIONAL 83rd Edition, 8 Apr 2010

OBSTRUCTIONS

8 Apr 2010 No Major Changes.

AIRPORTS

8 Apr 2010 No Major Changes.

NAVAIDs

8 Apr 2010 No Major Changes.

AIRSPACE

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES 8 Apr 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 No Major Changes.

SALT LAKE CITY TERMINAL AREA CHART 42nd Edition, 8 Apr 2010

OBSTRUCTIONS

8 Apr 2010 No Major Changes.

AIRPORTS

8 Apr 2010 No Major Changes.

NAVAIDs

8 Apr 2010 No Major Changes.

AIRSPACE

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

8 Apr 2010 No Major Changes.

MISCELLANEOUS

8 Apr 2010 No Major Changes.

SEATTLE SECTIONAL 78th Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 No Major Changes. 11 Feb 2010 Add obst 2640'MSL (262'AGL), 45°44'58"N, 120°47'57"W.

8 Apr 2010 Add obst 2003'MSL (263'AGL)UC, 45°54'40"N, 118°27'42"W.

Change windmill farm highest MSL from 2272 MSL to 2516 MSL, 45°53'30"N, 118°31'51"W.

17 Dec 2009 No Major Changes. 11 Feb 2010 Delete RP 17 at TACOMA NARROWS arpt, 47°16'05"N, 122°34'41"W.

Delete CAMP RILEA heliport, 46°06'59"N, 123°55'54"W.

8 Apr 2010 Delete TAMARACK SPRINGS arpt, 45°30'04"N, 117°28'18"W.

SIMTAG arpt abandoned, 45°45′07"N, 119°56′45"W.

17 Dec 2009 - 8 Apr 2010 No Major Changes.

AIRSPACE

17 Dec 2009 No Major Changes.

11 Feb 2010 Change SEATTLE Class B freq from 391.9 to 377.15.

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 - 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 - 8 Apr 2010 No Major Changes.

MISCELLANEOUS

17 Dec 2009 - 8 Apr 2010 No Major Changes.

SEATTLE TERMINAL AREA CHART 73rd Edition, 17 Dec 2009

OBSTRUCTIONS

17 Dec 2009 - 8 Apr 2010 No Major Changes.

AIRPORTS

17 Dec 2009 No Major Changes.

11 Feb 2010 Delete RP 17 at TACOMA NARROWS arpt, 47°16'05"N, 122°34'41"W.

8 Apr 2010 No Major Changes.

17 Dec 2009 - 8 Apr 2010 No Major Changes.

17 Dec 2009 No Major Changes.

11 Feb 2010 Change SEATTLE Class B freq from 391.9 to 377.15.

8 Apr 2010 No Major Changes.

SPECIAL USE AIRSPACE

17 Dec 2009 - 8 Apr 2010 No Major Changes.

MILITARY TRAINING ROUTES

17 Dec 2009 - 8 Apr 2010 No Major Changes.

MISCELLANEOUS

17 Dec 2009 - 8 Apr 2010 No Major Changes.

SUPPLEMENTAL COMMUNICATION REFERENCE

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	CHART & PANEL
	L-28
1 285.6	L-201
1 20010	H-1E, 2F, L-13[
Con 126.85 305.2	, ,
	L-10F
, ,	
	L-16
Con 133.65 292.15	
	H-8I, L-230
6 (Mon-Fri 1300-2100Z‡)	
CANADA	
UNINDA	CHART & PANEI
	H-1B, L-12F
)	
. , , , , , , , , , , , , , , , , , , ,	
	H-11E
Con 125.9	
	L-14
No ground station)	
	H-11B, L-310
	•
on 124.025	
··· ···	L-310
on 132.65	
···	L-32.
on 134.25	
	H-1B, L-1E
	L-31[
119 3 253 1	2 311
	H-2h
Con 132,25 285.4	2.
	L-310
128.27	2 012
	L-320
	2 020
	L-320
Con 132 35 ME 122 15 (5 NM to 3400')	2 320
7011 102100 IIII 122110 (0 IIIII to 0 100)	L-310
on 119 3 253 1	2 012
	H-10
	11 10
55 15 EE10	
(CF)	H-10G, 11B, L-31[
	11-100, 110, L-31L
100.00	H-11E, L-32.
con 135.65 384.8 MF 118.0 (5 NM to 3200')	11-11L, L=32.
	.1 285.6 Con 126.85 305.2 , C0 (CO9Ø) Con 133.65 292.15 6 (Mon-Fri 1300-2100Z‡) CANADA (Outer) 295.0 (1500-0700Z‡) Gnd Con 121.8 (O0Z‡) (Shape irregular to 4500′) Con 125.9 No ground station) (CYLS) on 124.025 on 132.65 con 134.25 (Outer) (1500-0700Z‡) Gnd Con 124.3 o 2000′. Vancouver Trml 125.2 above 2000′. Shape 119.3 253.1 Con 132.25 285.4 128.27 ackaberry, DN (CNL3) con 134.675 Con 132.35 MF 122.15 (5 NM to 3400′) on 119.3 253.1 CYCG) Con 134.2 227.3 (CE) on 135.30

Cleveland Center App/Dep Con 132.25

COLLINY NAME COLLINGWOOD, ON (CNY3)	CHART & PANE H-11B, L-31
Toronto Center App/Dep Con 124.02	H-11B, L-311
Cornwall Rgnl, ON (CYCC)	L-320
Boston Center App/Dep Con 135.25 377.1	L=320
Cranbrook/Canadian Rockies Intl, BC (CYXC)	H-10
Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	
Dehert, NS (CCQ3)	H-11E, L-32.
Halifax Trml App/Dep Con 119.2	
ligby, NS (CYID)	L-32.
Moncton Center App/Dep Con 123.9	
Downsview, ON (CYZD)	H-11B, L-31E
Toronto Center App Con 133.4	
Toronto Center Dep Con 133.4	
MF 126.2 (1300–2300Z‡, 3 NM to 1700′)	
Drummondville, QC (CSC3)	L-32H
Montreal Center App/Dep Con 132.35	
Earlton (Timiskaming Rgnl), ON (CYXR)	H-11B
MF 122.0 (5 NM to 3800')	
AWOS 128.6	1 046
Elliot Lake Muni, ON (CYEL)	L-310
Toronto Center App/Dep Con 135.4	L-14H
Fort Frances Muni, ON (CYAG) Minneapolis Center App/Dep Con 120.9	L-14n
Fredericton Intl, NB (CYFC)	H-11E, L-32
ATIS 127.55	11-11L, L-32
Moncton Center App/Dep Con 124.3 135.5 270.8	
Tower 119.0 (1200–2000Z‡) Gnd Con 121.7 (Ltd hrs)	
MF 119.0 (2000–1200Z‡, 5 NM to 3500′)	
Goderich, ON (CYGD)	H-11B, L-31D
Toronto Center App/Dep 135.3 266.3	,
Greenwood, NS (CYZX)	H-11E, L-32J
ATIS 128.85 244.3 (1100-0000Z‡)	
App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3	
Gnd Con 133.75 289.4 Clnc Del 128.05 283.9	
Grimsby Air Park, ON (CNZ8)	L-31E
Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	
Halifax/Shearwater, NS (CYAW)	H-11E, L-32J
ATIS 129.175 (Ltd hrs)	
App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs)	
Gnd Con 121.7 250.1	
Halifax/Stanfield Intl, NS (CYHZ)	H–11E, L–32J
ATIS 121.0	
Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8	
Tower 118.4 236.6 Gnd Con 121.9 275.8 Clnc Del 123.95	
Apron Advisory 122.125	II 40II 44D I 44D
Hamilton, ON (CYHM) ATIS 128.1	H-10H, 11B, L-11E
Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	
(ingston, ON (CYGK)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.05 398.4 (0400–1115Z‡)	11-110, L-31L, 321
MF 122.5 (1115–0400Z‡ 5 NM to 3300′)	
(itchener/Waterloo, ON (CYKF)	H-11B, L-31D
ATIS 125.1 (1200–0400Z‡)	11-110, 1-511
Toronto Trml App/Dep Con 128.275	
Waterloo Tower 126.0 118.55 (1200–0400Z‡) Gnd Con 121.8	
MF 126.0 (0400-12007± 5 NM to 4000')	
MF 126.0 (0400–1200Z‡ 5 NM to 4000') achute. 0C (CSF4)	L-326
achute, QC (CSE4)	L-320
achute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3	L-320
achute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	
Achute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ)	
achute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	H-11C
achute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 a Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5	H-110
Achute, QC (CSE4) Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3 La Tuque, QC (CYLQ) Montreal Center App/Dep Con 134.5 Langley, BC (CYNJ)	L-32G H-11C L-1E

eamington, ON (CLM2)	CHART & PANI
Cleveland Center App/Dep Con 132.45	
ethbridge, AB (CYQL)	H-1
ATIS 124.4 (1300-0545Z‡)	
Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	
indsay, ON (CNF4)	L-31E, L-32
Toronto Center App/Dep 134.25	
iverpool/South Shore Rgnl, NS (CYAU)	L-32
Moncton Center App/Dep Con 123.9	
ondon, ON (CYXU)	H-10G, 11E
ATIS 127.8 (1120-0345Z‡)	L-30G, 31
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')	
Manitowaning/Manitoulin East Muni, ON (CYEM)	L-31
Toronto Center App/Dep 135.4 260.9	
Maniwaki, QC (CYMW)	L-32
Montreal Center App/Dep Con 126.57	
Mascouche, QC (CSK3)	L-32
MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the	
N shore of Riviere des Milles-lles and 1 NM around Lac Agile Mascouche arpt.)	
Medicine Hat, AB (CYXH)	H-1
AWOS 124.875 (0345-1245Z‡)	
MF 122.2 (1245-0345Z‡ 5 NM to 5400')	
Aidland/Huronia, ON (CYEE)	L-31
Toronto Center App/Dep 124.025	
Miramichi, NB (CYCH)	H-11E, L-32
Moncton Center App/Dep Con 123.7	
Moncton/Greater Moncton Intl, NB (CYQM)	H-11E, L-3:
ATIS 128.65	
App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8	
Apron Advisory 122.075	
Mont-Laurier, QC (CSD4)	L-32
Montreal Center App/Dep Con 126.57	
Montreal Intl (Mirabel), QC (CYMX)	H-11C, 12K, L-32
ATIS 125.7	
Montreal Center App Con 124.65 132.85 268.3	
Montreal Dep Con 132.85	
MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	
MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15 Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)	H-11C, 12K, L-32
	H-11C, 12K, L-32
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL)	H-11C, 12K, L-32
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7	H-11C, 12K, L-32
Iontreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3	H-11C, 12K, L-32
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075	H-11C, 12K, L-32
Iontreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9	
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/SI-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3	
Intreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Intreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9	
Intreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Iontreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z)	
Intreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Iontreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32
Notreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Notreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Nuskoka, QN (CYQA)	H-11C, L-32
Interal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Interal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Iuskoka, QM (CYQA) AWOS 124.575 AWOS	H-11C, L-32
Intreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Intreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Intereal Center App/Dep Con 125.15 Intereal Center App/Dep Con 125.05 Intereal Center App/Dep Con 125.15 Intereal Center App/Dep Con 125.15 268.3 Intereal Center App/Dep Con 125.15	H–11C, L–32 H–11B, L–31
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD)	H–11C, L–32 H–11B, L–31
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Ianaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-11C, L-32 H-11B, L-31 H-1B, L-3
Interal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Interal/SI-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Iuskoka, QM (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Iuskoka, QB (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Victoria Trml App/Dep 120.8 133.95 252.3 Victoria Trml App/Dep 120.8	H-11C, L-32 H-11B, L-31 H-1B, L-3
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/SI-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaima, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡)	H-11C, L-32 H-11B, L-31 H-1B, L-3
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, DN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Morth Bay, ON (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25	H-11C, L-32 H-11B, L-31 H-1B, L-3
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') Morth Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11C, L-32 H-11B, L-31 H-1B, L-1 H-11B, L31
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11C, L-32 H-11B, L-31 H-1B, L-1 H-11B, L31
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/SI-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-05002‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QM (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QM (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000') Jshawa, QM (CYOO) ATIS 125.675 (1130-0330Z‡)	H-11C, L-32 H-11B, L-31 H-1B, L-1 H-11B, L31
Montreal/Pierre Elliott Trudeau Intl, QC (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Clnc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15 Montreal/St-Hubert, QC (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15 Muskoka, QN (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900') Manaimo, BC (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500') North Bay, QN (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11C, 12K, L-32 H-11C, L-32 H-11B, L-31 H-11B, L31

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CILITY NAME	CHART & PANE
Ottawa/Carp, ON (CYRP)	L-31E, 32F
ATIS 121.15	
Ottawa Trml App/Dep Con 128.175 252.5	11 440 1 200
Ittawa/Gatineau, QC (CYND)	H-11C, L-320
Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500')	
VFR Advisory Ottawa Trml 127.7	
Ittawa/MacDonald-Cartier Intl, ON (CYOW)	L-110
ATIS 121.15	L-110
Ottawa App Con 135.15 Tower 118.8 120.1 341.3	
Gnd Con 121.9 Clnc Del 119.4	
Ottawa Dep Con 128.175	
Wen Sound/Billy Bishop Rgnl, ON (CYOS)	L-310
Toronto Center App/Dep 132.575 290.6	L-31L
elee Island, ON (CYPT)	L-30F
Cleveland Center App/Dep Con 126.35 360.0	1-301
embroke, ON (CYTA)	H-11C, L-31E, 32F
Montreal Center App/Dep Con 135.2	11-110, L-31L, 321
Petawawa Advisory 126.4 250.1 (Mon–Fri 1300–2130Z‡, OT PPR)	
enticton, BC (CYYF)	H-1B
Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	11-11
eterborough, ON (CYPQ)	H-11B, L-31E, 32F
AWOS 126.925	11-11B, L-31L, 321
Toronto Center App/Dep 134.25	
Pincher Creek, AB (CZPC)	H-10
Edmonton Center App/Dep Con 132.75 265.2	11-10
itt Meadows, BC (CYPK)	L-1E
ATIS 125.0 (1500–0700Z‡)	
Vancouver Center App Con 128.6 352.7 (Outer)	
Pitt Tower 126.3 (1500–0700Z‡) Gnd Con 123.8	
Vancouver Center Dep Con 132.3 363.8 (South)	
MF 126.3 (0700–1500Z‡) (3NM to 2500')	
uebec/Jean Lesage Intl, QC (CYQB)	H-11D, L-32H
ATIS 134.6	,
AWOS 122.025 (Pvt)	
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	
tiviere Du Loup, QC (CYRI)	H-11D
AWOS 122.025 (Pvt)	
Montreal Center App/Dep Con 125.1 299.6	
ouyn Noranda, QC (CYUY)	H-11E
Montreal Center App/Dep Con 125.9	
MF 122.2 (5 NM to 4000')	
aint John, NB (CYSJ)	H-11E, L-32.
Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	,
arnia (Chris Hadfield), ON (CYZR)	H-10G, 11B, L-30F
Toronto Center 134.375	,,
ault Ste Marie, ON (CYAM)	H-2K, L-31E
ATIS 133.05 (1300–0100Z‡)	2.4, 2 012
Toronto Center App/Dep Con 132.65 344.5	
Tower 118.8 (1300–0100Z‡) Gnd Con 121.7	
MF 118.8 (0100–1300Z‡ 5 NM irregular shape to 3000′)	
===== (==== ======================	H-11D, L-32F
Sherbrooke, QC (CYAM)	: ===, = 021
AWOS 126.25	
Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	L=31E_32F
AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') iouth Renfrew Muni, ON (CNP3)	L-31E, 32F
AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') South Renfrew Muni, 0N (CNP3) Montreal Center App/Dep 124.275	
AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') South Renfrew Muni, 0N (CNP3) Montreal Center App/Dep 124.275 Southport, MB (CYPG)	
AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800') South Renfrew Muni, ON (CNP3)	L-31E, 32F H-2H

Airpark, ON (CNA3)	CHART & PANE L-31
er App/Dep Con 124.025	2 021
	OH, 11B, L-31
5 (1215-0200Z‡)	
App/Dep Con 133.4 253.1	
.215-0200Z‡ 5 NM to 3300')	
SZ4)	L-32
ter App/Dep Con 135.025 270.9	
YSG)	H-32H, L-11
ter App/Dep Con 132.35	
5 NM 3900' ASL)	L-32
l) tor App /Dep Cop 125 15 268 2	L-32
ter App/Dep Con 125.15 268.3 (Apr-Oct 1230-0230Z‡ Nov-Mar 1300-0200Z‡)	
.7	
	1B, 10G, L-31
5)	1b, 10d, L-31
er App/Dep Con 135.5	
NM to 4000')	
YYSU)	H-11E, L-32
5 (Pvt)	,
ter App/Dep Con 124.4 384.8	
CYQT)	H-2J, L-14
1100-0400Z‡)	
ter App/Dep Con 132.125 (0400-1100Z‡)	
(1100-0400Z‡) Gnd Con 121.9	
.2 MF 118.1 (0400–1100Z‡ 5 NM to 4000′)	
Power, ON (CYTS)	H-11
(1000-0500Z‡)	
er App/Dep Con 128.3 MF 122.3 (5 NM to 4000')	
Muni, ON (CYKZ)	L-31
.200-0400Z‡)	
er App Con 133.4 Toronto Center Dep Con 133.4	
119.9 (1200–0400Z‡) Gnd Con 121.8	
100–1200Z‡ No gnd station. 5 NM shape irregular to below 2500')	L-31
p Toronto City Airport, ON (CYTZ) .130-0400Z‡)	L-31
4 Dep Con 133.4	
119.2 (1130–0400Z‡)	
earson Intl, ON (CYYZ)	H-11B, L-31
5	11-110, 1-31
475 125.4 132.8 Dep Con 127.575 128.8	
5 118.7 Gnd Con 118.0 119.1 121.65 121.9	
3 (1200-0400Z‡)	
H–1	L1C, L-31E, 32
257.7	
128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8	
35 286.4	
iew, ON (CPZ3) H-1	L1C, L-31E, 32
dvisory 268.0	
(CYRQ)	H-11C, L-32
ter App/Dep Con 128.225 229.2	
NM to 3200')	
0)	H-11
ter App/Dep Con 125.9 308.3	
	H-1B, L-1
030-0325Z‡ 5 NM to 4000') (CYVR) 24.75 6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) .125 (north) 132.3 (south) 363.8 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 .7 (south) 127.15 (north) 275.8 Clnc Del 121.4	H-3

ACILITY NAME	CHART & PANEL
Victoria Intl, BC (CYYJ)	H-1B, L-1E
ATIS 118.8 (1400–0800Z‡)	
App Con 125.95 308.4 Dep Con 133.85 308.4	
Tower 119.1 (Outer) 119.7 (Inner) 239.6	
Gnd Con 121.9 361.4 (1400–0800Z‡ OT ctc Kamloops 119.7)	
Cinc Del 126.4 (1400–0800Z‡) Victoriaville, QC (CSR3)	L-32H
Montreal Center App Con 132.35	2 0211
Waterville/Kings Co Muni, NS (CCW3)	L-32J
Greenwood Trml App/Dep Con 120.6 335.9	
Greenwood Tower 119.5 324.3	
Wiarton, ON (CYVV)	H-11B, L-31D
Toronto Center App/Dep Con 132.575	
MF 122.2 (5 NM to 3700')	
Windsor, ON (CYQG)	H-10G, L-8J
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	
MF 124.7 (0330–1130Z‡ 6 NM irregular shape to below 3000')	
VFR Advisory Detroit App Con 134.3	U 445 L 201
Yarmouth, NS (CYQI) Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I
Monoton Center App/ Dep Con 123.3 300.3 Mil 123.0 (3 Nim to 3100)	
MEXICO	
CILITY NAME	CHART & PANEL
Abraham Gonzalez Intl (MMCS)	H–4K, L–6F
Juarez App Con 119.9 Juarez Tower 118.9	
Del Norte Intl (MMAN)	H-7B, L-20G
ATIS 127.55 (1300-0300Z‡)	
Monterrey App 119.75 120.4 Tower 118.6	
Durango Intl (MMDO)	H–7A
ATIS 132.1	
Tower 118.1 Durango Info 122.3	
General Abelardo L Rodriguez Intl (MMTJ)	H-4H, L-4H
ATIS 127.9	
Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Clnc Del 122.35 Tijuana Info 132.1	
General Lucio Blanco Intl (MMRX)	H–7B, L–20H
Reynosa App Con 118.8 Reynosa Tower 118.8	11-7 B, L-2011
General Mariano Escobedo Intl (MMMY)	H-7B, L-20G
ATIS 127.7	11 15, 2 200
Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	
General R Fierro Villalobos Intl (MMCU)	L-6I
ATIS 127.9	
Chihuahua App Con 121.0 Chihuahua Tower 118.4	
General Rodolfo Sanchez Taboada Intl (MMML)	H-4H, L-4J, 5A
ATIS 127.6	
Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	
General Servando Canales (MMMA)	H-7C, L-21A
Matamoros App Con 118.0 Matamoros Tower 118.0	
Plan De Guadalupe Intl (MMIO)	H-7B
Saltillo App Con 127.4 Saltillo Tower 118.4	
Quetzalcoatl Intl (MMNL)	H-7B, L-20G
Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	
Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3 Torreon Intl (MMTC) App Con 119.6 Tower 118.5	H-7A

INTENTIONALLY LEFT BLANK

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 A/FD. 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 A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

GENERAL INFORMATION

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., (a), (b), (c)
- 2. Approach lighting systems that do not bear a system identification are indicated with a negative "♠" beside the name. A star (*) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, 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 ♠, ♠, ♠

KEY MIKE	FUNCTION
within 5 seconds	Highest intensity available
	and the second s

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

FAA procedure amendment number Amdt 11A 99365 Date of latest change Orig 00365

The Chart Date indentifies the Julian date the chart was added to the volume 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 addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

7 times

LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM/AIRPORT SKETCH Runways Helicopter Alighting Areas (H) [H] (A) [H] Hard Other Than Stopways, Taxiways, Ďisplaced Negative Symbols used to identify Copter Procedures Hard Surface Parking Areas, Threshold Surface landing point...... H 🛨 🚻 🛕 Water Runways xxx Runway Threshold elevation.....THRE 123 Closed Runway TDZ elevation.....TDZE 123 Closed Metal Under Runway Taxiway Construction Surface --- 0.3% DOWN (shown when runway slope is greater than ARRESTING GEAR: Specific arresting gear systems; or equal to 0.3%) e.g., BAK12, MA-1A etc., shown on airport diagrams, NOTE: not applicable to Civil Pilots. Military Pilots refer to Runway Slope measured to midpoint on runways appropriate DOD publications. 8000 feet or longer. bi-directional ₹ Jet Barrier uni-directional U.S. Navy Optical Landing System (OLS) "OLS" location is shown because of its height of ARRESTING SYSTEM approximately 7 feet and proximity to edge of runway may create an obstruction for some types REFERENCE FEATURES of aircraft. Buildings..... Approach light symbols are shown in the Tanks..... Flight Information Handbook. Airport diagram scales are variable. Airport Beacon #...... 🌣 Runway True/magnetic North orientation may vary from Radar Reflectors...... diagram to diagram Control Tower #..... Coordinate values are shown in 1 or ½ minute Hot Spot increments. They are further broken down into 6 second ticks, within each 1 minute increments. # When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR. All new and revised airport diagrams are shown refer-Runway length depicted is the physical length of enced to the World Geodetic System (WGS) (noted on the runway (end-to-end, including displaced thresholds appropriate diagram), and may not be compatible if any) but excluding areas designated as stopways. with local coordinates published in FLIP. (Foreign Only) A D symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific 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 \$75, T185, ST175, TT325 PCN 80 F/D/X/U FIELD Runway Displaced Threshold **ELEV** Slope Runway 174 Identification FMAS 0.7% UP 1000 X 200 9000 X 200 ·023.2°() Runway End Elevation Runway Dimensions Runway Heading Movement Area Dimensions (Magnetic) (in feet)

Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. 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.

SCOPE

LEGEND

AIRPORT DIAGRAMS 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 "HOT¹", "HOT²", 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.

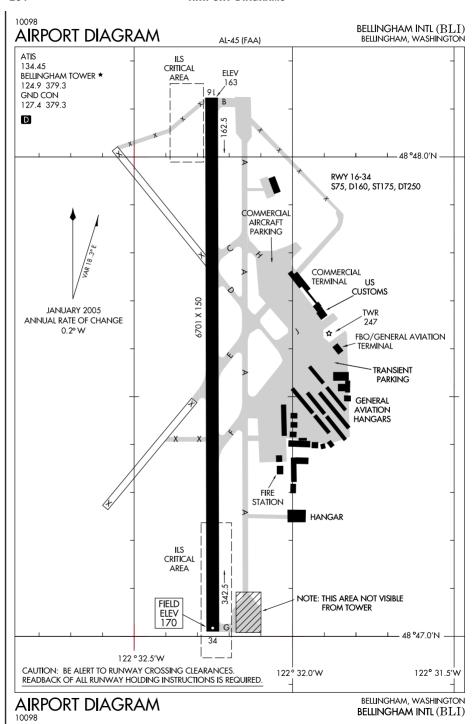
CITY/AIRPORT	HOT SPOT	DESCRIPTION
	IDAH	10
IDAHO FALLS IDAHO FALLS RGNL (IDA)	HOT ¹	Pilots should use caution and look carefully for runway hold line when using Twy C. Rwy 17–35 does not have runway edge markings and can be mistaken for a twy.
	HOT ²	Aircraft departing Rwy 20 often miss left turn on A-1 and taxi past A-1 entrance. Do not mistake Rwy 20 apch hold line on Twy A for entrance to Rwy 20.
LEWICTON	HOT ³	Do not cross hold line for Rwy 17 without authorization.
LEWISTON LEWISTON-NEZ PERCE CO (LWS)	HOT ¹	Twy C and Twy G intersection close proximity to Rwy 12–30.
	HOT ²	Twy G between Rwy 08–26 and Rwy 30 thld. Short distance between rwys.
	MONT	ANA
BILLINGS BILLINGS LOGAN INTL (BIL)	HOT ¹	Rwy 28R hold line is at east edge of run up area, more than 900' taxi distance from the rwy edge. Use extreme caution to stop.
GREAT FALLS	HOT ²	Twy H crosses Rwy 07 protected area. Do not proceed across Rwy 07 without an ATCT clearance.
GREAT FALLS INTL (GTF)	HOT ¹	Acft departing Rwy 21 often miss left turn at Twy A1. There is no rwy access beyond Twy A1.
MISSOULA	HOT ²	Twy A3 aligned with Rwy 25. Acft departing Rwy 21 at Twy A3 must verify heading prior to tkf due to wrong rwy departure risk.
MISSOULA INTL (MSO)	HOT ¹	Intersection of Twy A and Twy F. Critical turn for eastbound ramp access.
	OREG	ON
MAHLON SWEET FIELD (EUG)	HOT ¹	Acft taxiing to Rwy 34L often miss right turn at Twy A8 or Twy A9. Do not mistake Rwy 34L apch hold sign on Twy A south of Twy A9 for rwy entrance.
PORTLAND PORTLAND INTL (PDX)	HOT ¹	Limited wing-tip clearance at taxiway convergence point. Pilots taxiing eastbound on Twy B should hold at the taxiway holding position marking when directed by ATC.

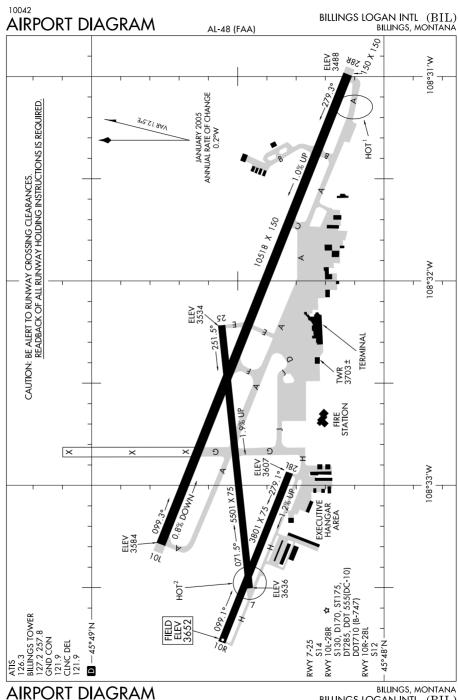
hold bar for Rwy 34R (34C-34R hold bar separation

distance 189').

WASHINGTON

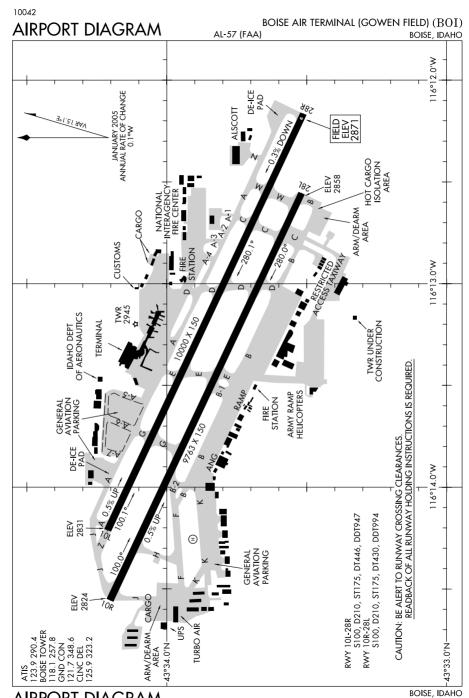
EVERETT		
SNOHOMISH COUNTY (PAINE FIELD) PAE	HOT ¹	Pilots holding short of Rwy 11–29 at Twy A4 or Twy A5 should use caution to stop prior to the rwy holding position marking. Rwy hold position signs are located 230' to the right and 350' to the left of the Twy A5 centerline and may be difficult to locate.
	HOT ²	Rwy 29 thld in close proximity to ramp areas.
	HOT ³	Twy A between Twy A8 and Twy A9 not visible from ATCT.
SEATTLE		
BOEING FIELD/KING COUNTY INTL (BFI)	HOT ¹	Twy Z restricted access area.
	HOT ²	Rwy 13R–31L and Twy A9. Wrong rwy departure risk.
SEATTLE		
SEATTLE-TACOMA INTL (SEA)	HOT ¹	Aircraft landing Rwy 34C and exiting Twy H who turn right on Twy J must clear the Twy C hold bar completely, while using vigilance not to cross the





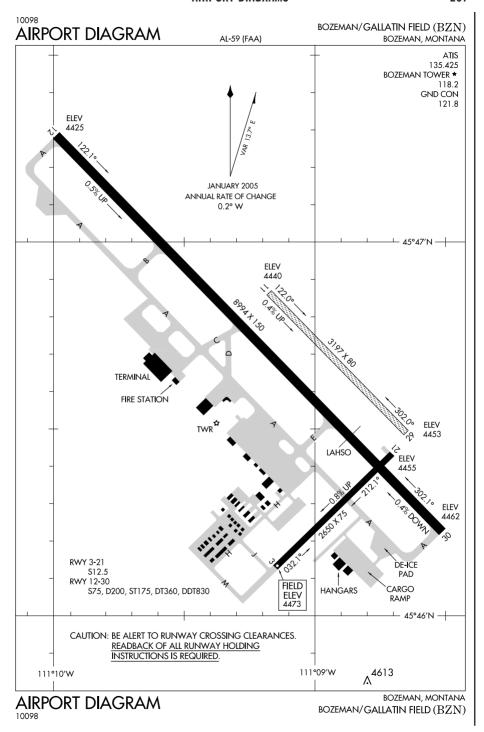
10042

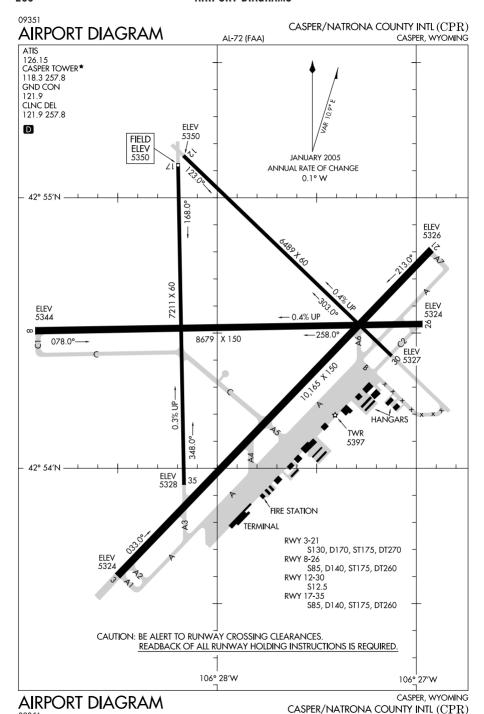
BILLINGS, MONTANA BILLINGS LOGAN INTL (BIL)

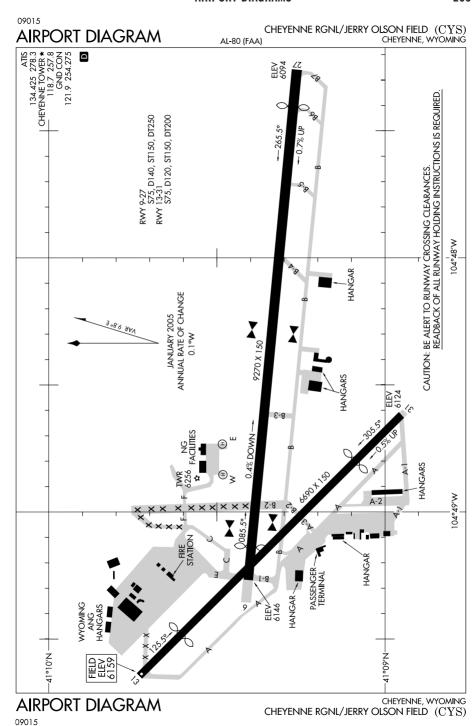


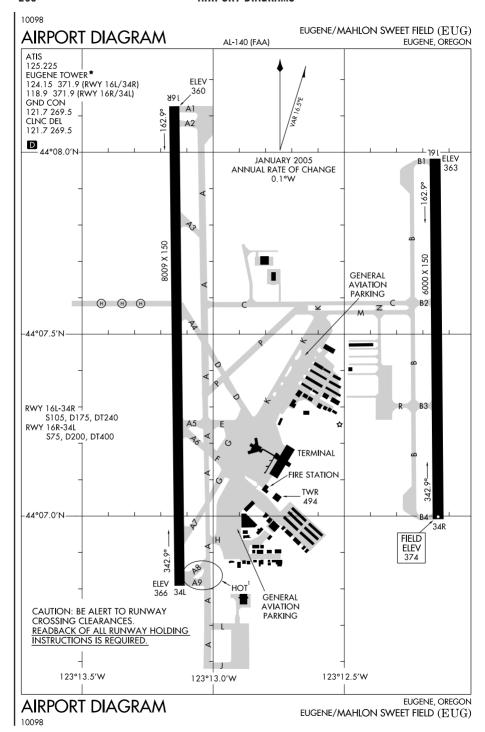
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

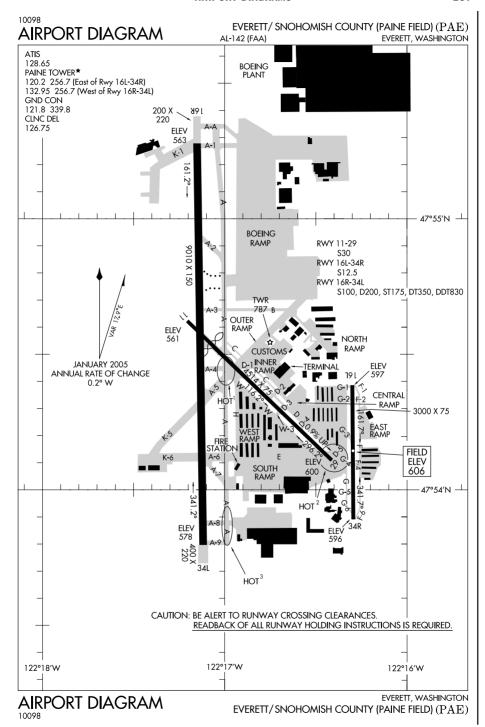
10042

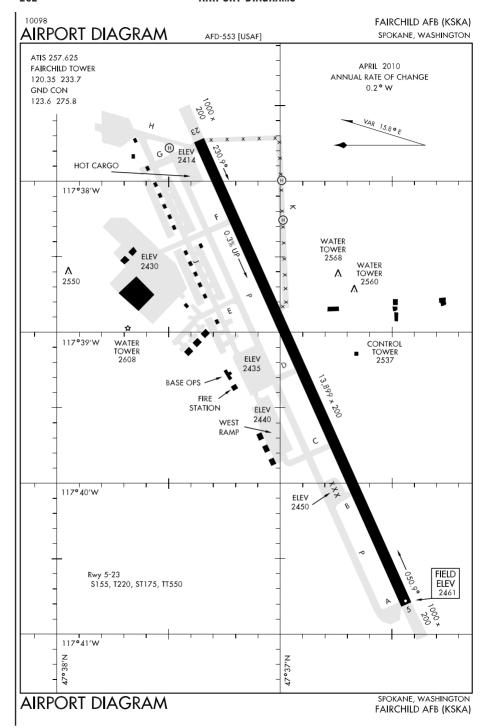


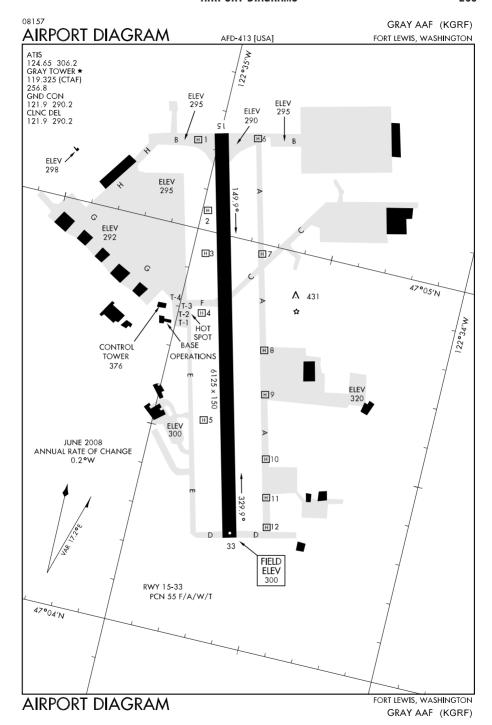


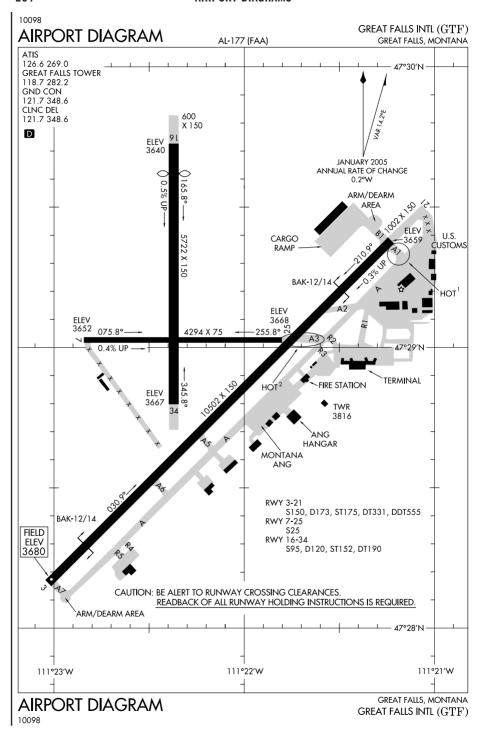


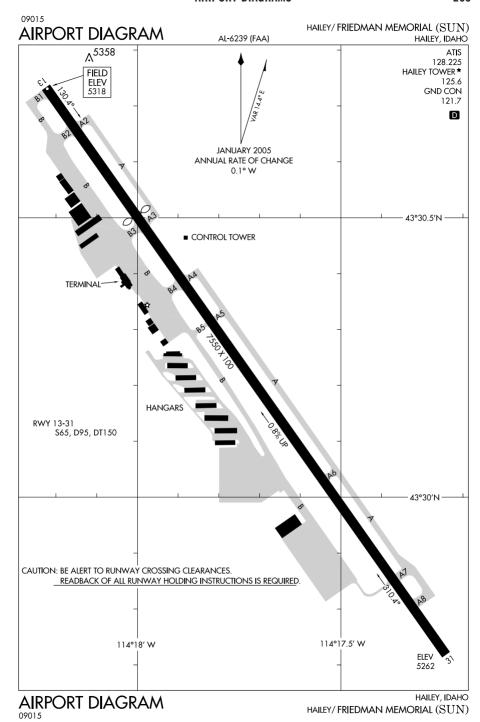


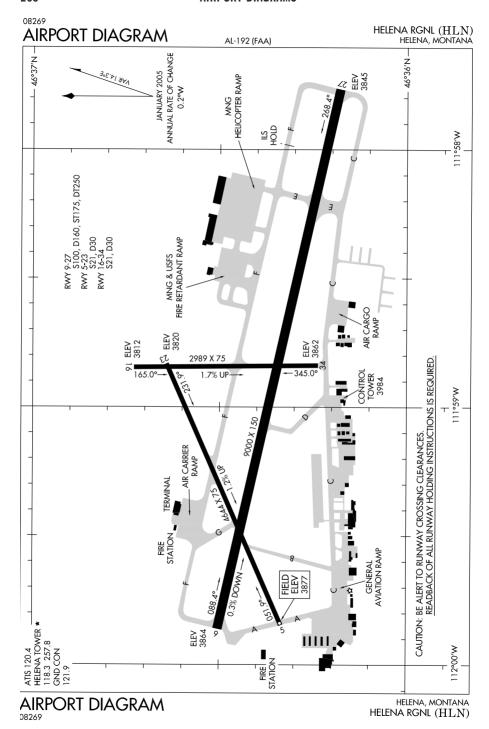


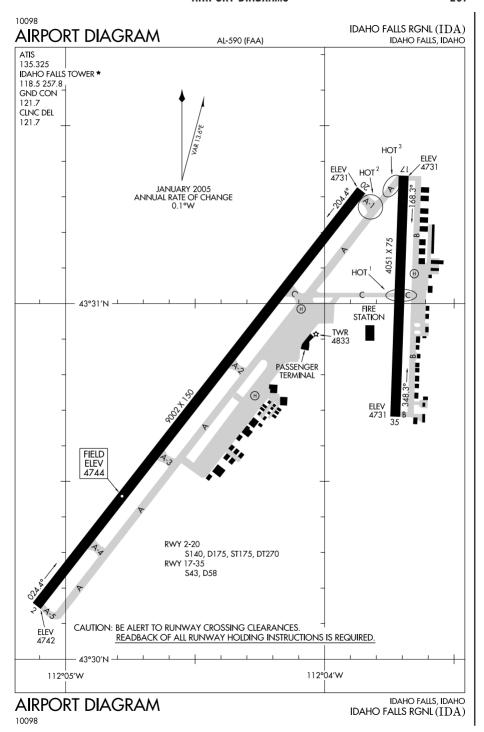


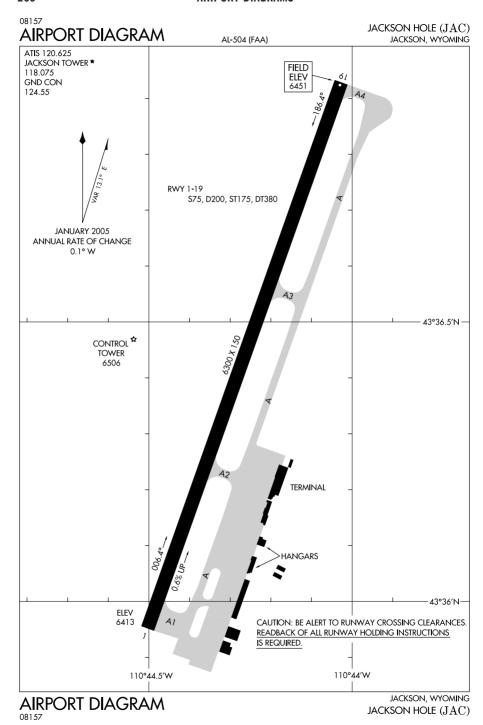


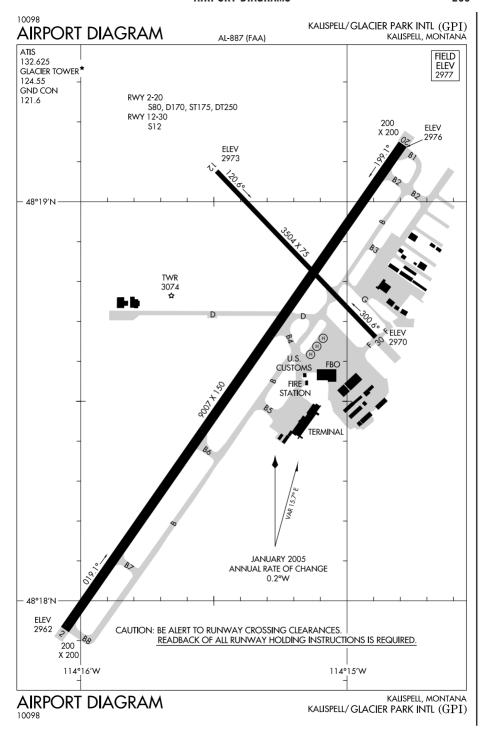


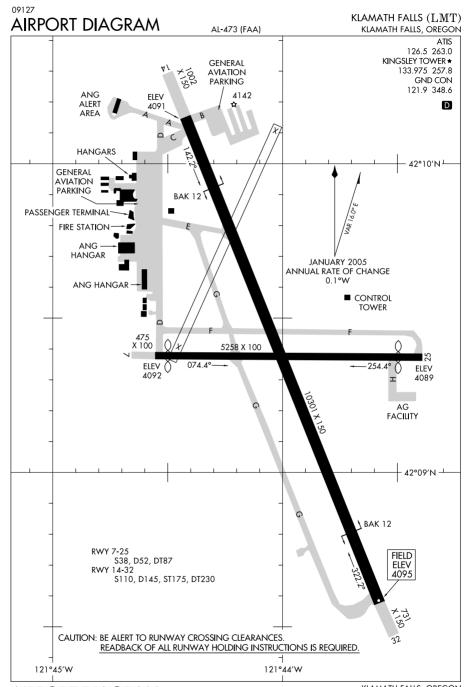




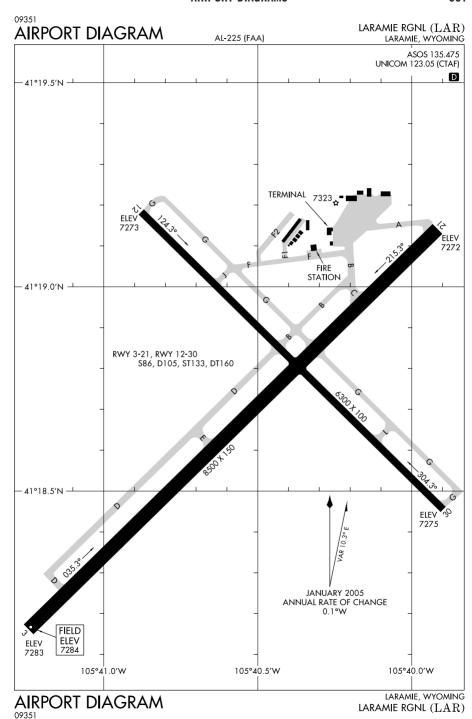


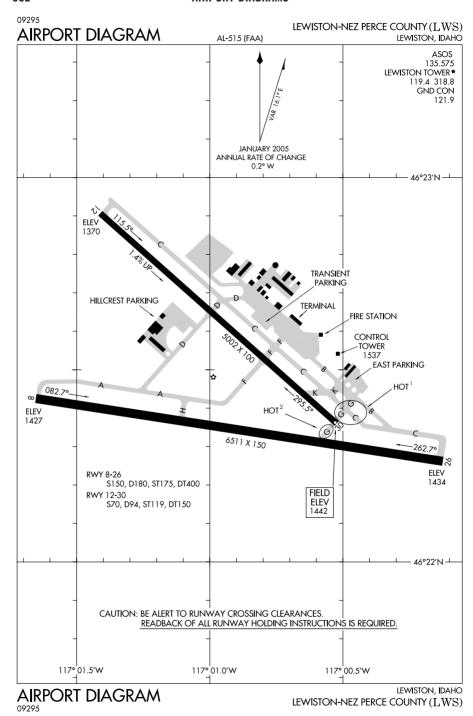


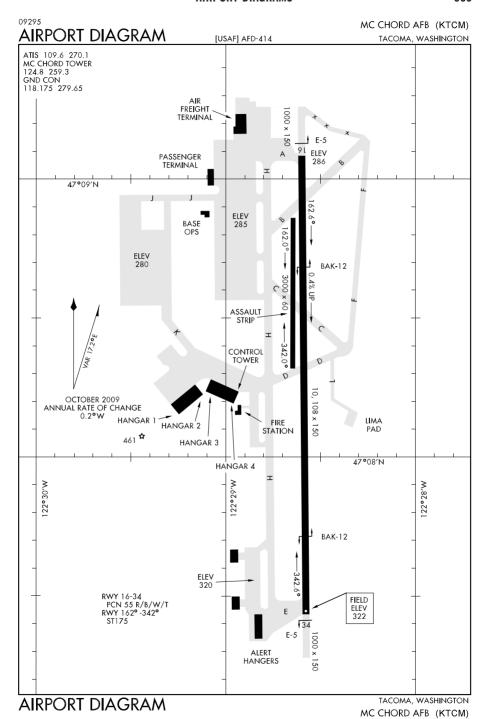


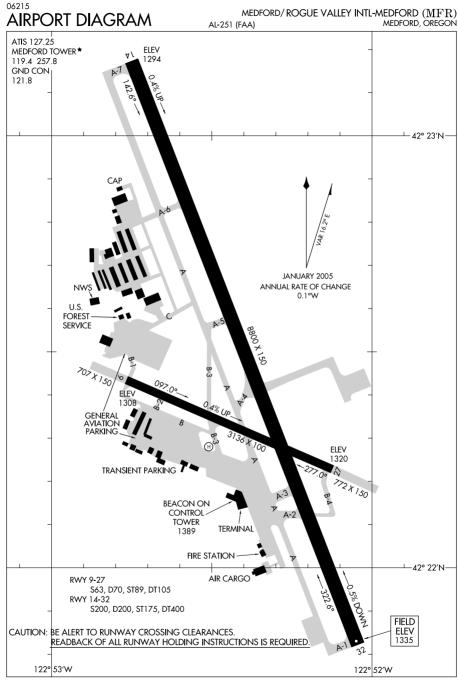


KLAMATH FALLS, OREGON KLAMATH FALLS (LMT)

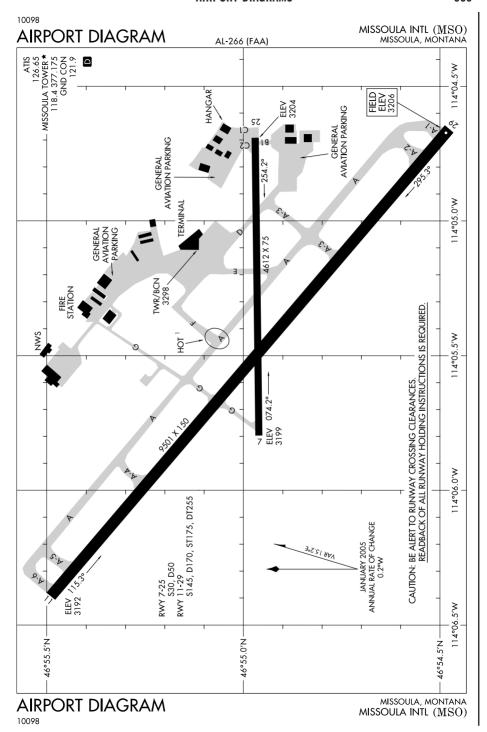


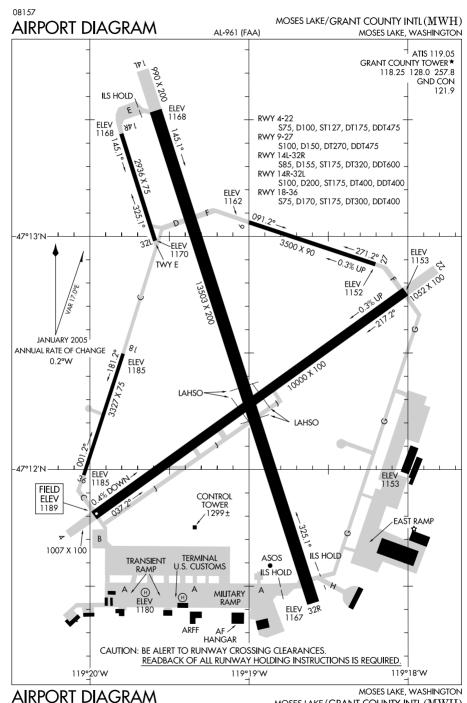




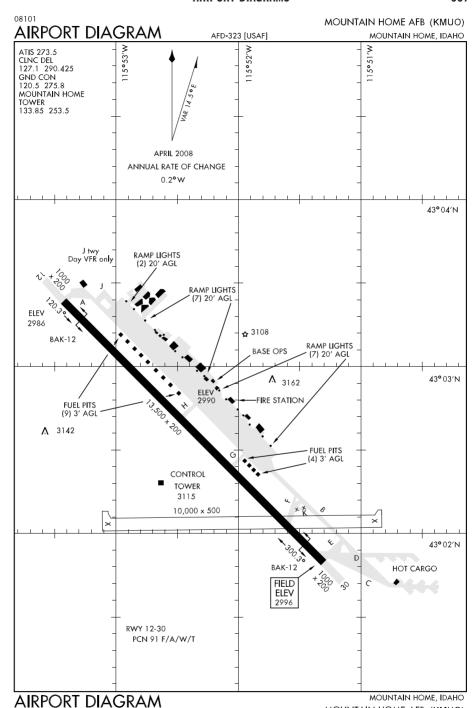


 $\begin{array}{c} \text{MEDFORD, OREGON} \\ \text{MEDFORD/ROGUE VALLEY INTL-MEDFORD } (MFR) \end{array}$



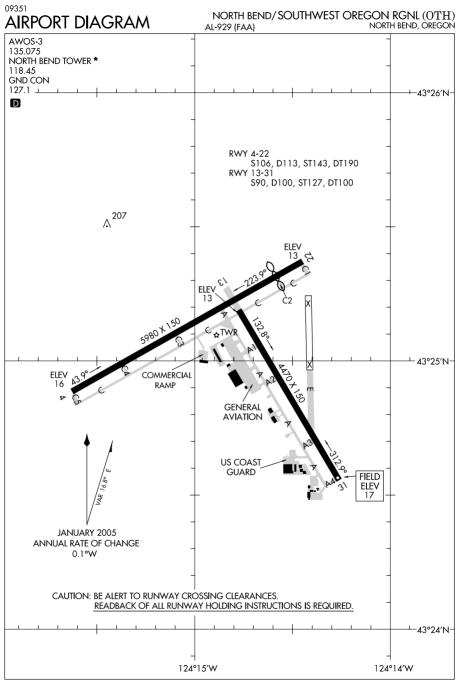


MOSES LAKE/GRANT COUNTY INTL (MWH)



NW, 08 APR 2010 to 03 JUN 2010

MOUNTAIN HOME AFB (KMUO)

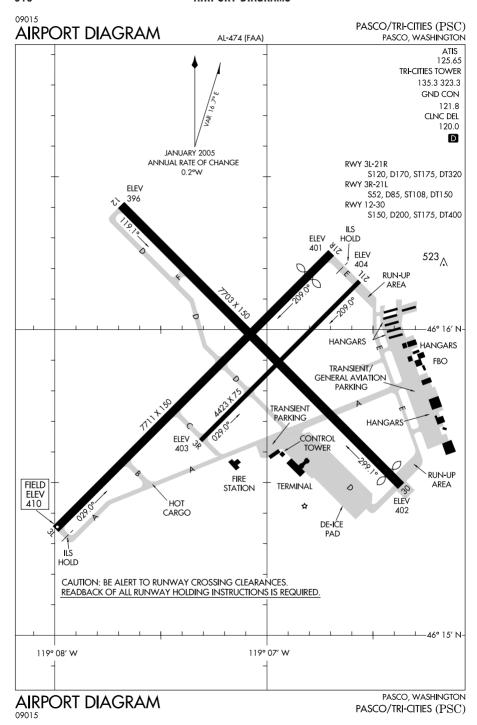


NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)

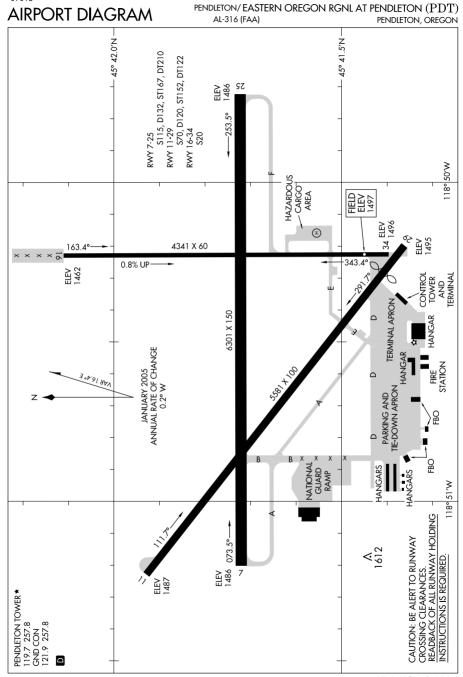
09127 OLYMPIA RGNL (OLM) AIRPORT DIAGRAM OLYMPIA, WASHINGTON AL-645 (FAA) ATIS 135.725 OLYMPIA TOWER* 124.4 254.25 GND CON **RWY 8-26** 121.6 S30 RWY 17-35 APPROACH S75, D94, ST87, DT142 HOLD LINE HANGAR **FBO** FLEV TRANSIENT TIEDOWNS 197 MUSEUM ILS AIR CARRIER HOLD LINE AIRPORT OFFICE TERMINAL -46° 58.5′N[⊥] HANGARS CONTROL TOWER FBO ELEV HANGARS 194 08_{6.0}0 4157 X 150 266.00 ELEV 204 FIELD **ELEV** 209 G - 46° 58.0′N[⊥] ^ 358± ELEV 35 JANUARY 2005 203 ANNUAL RATE OF CHANGE 0.2° W CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES. READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED. 122° 54.5′W 122° 54.0′W 122° 53.5′W

AIRPORT DIAGRAM

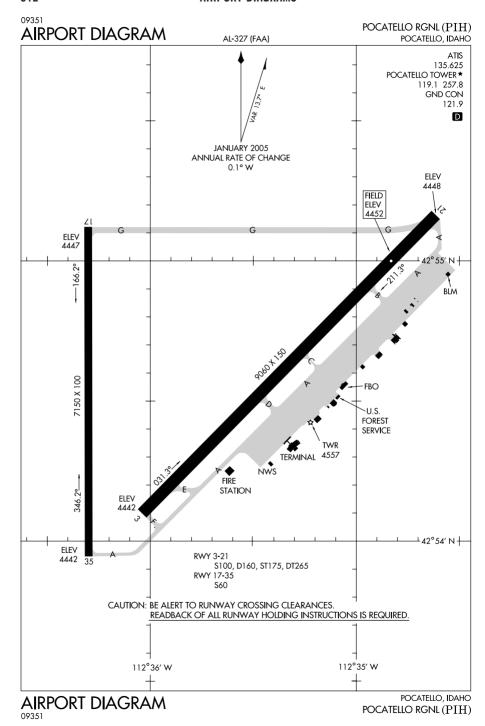
OLYMPIA, WASHINGTON OLYMPIA RGNL (OLM)

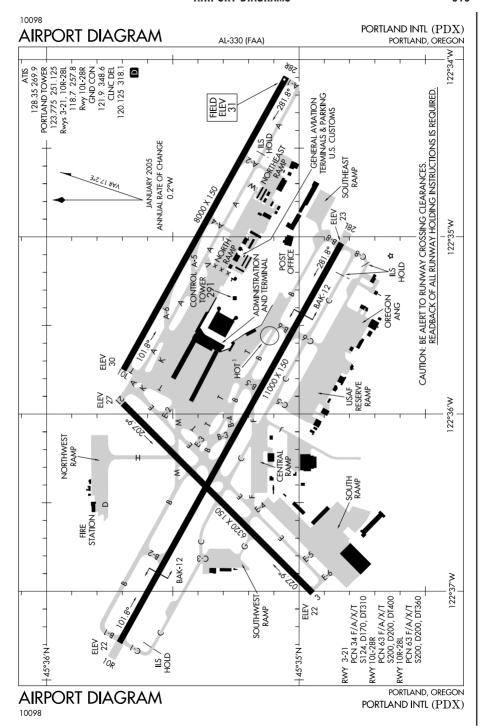


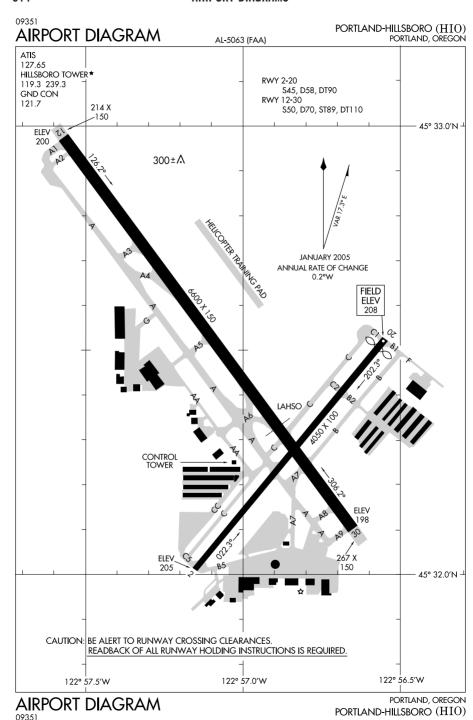


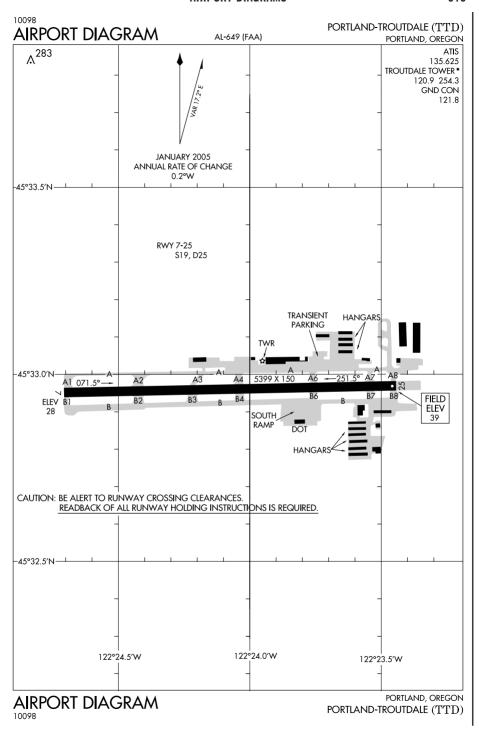


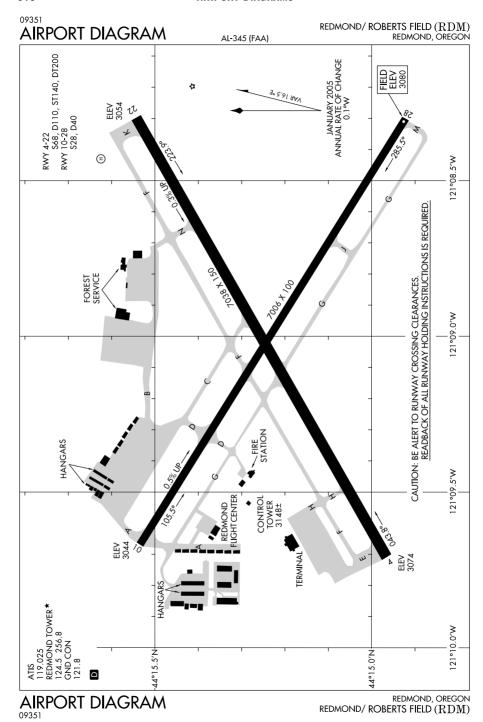
PENDLETON, OREGON PENDLETON (PDT) PENDLETON (PDT)





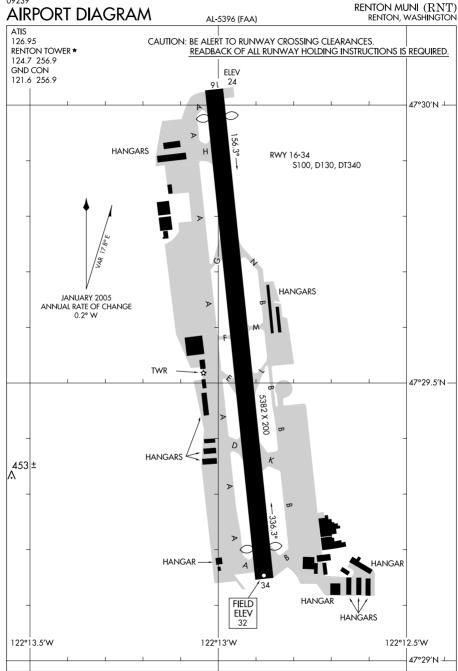






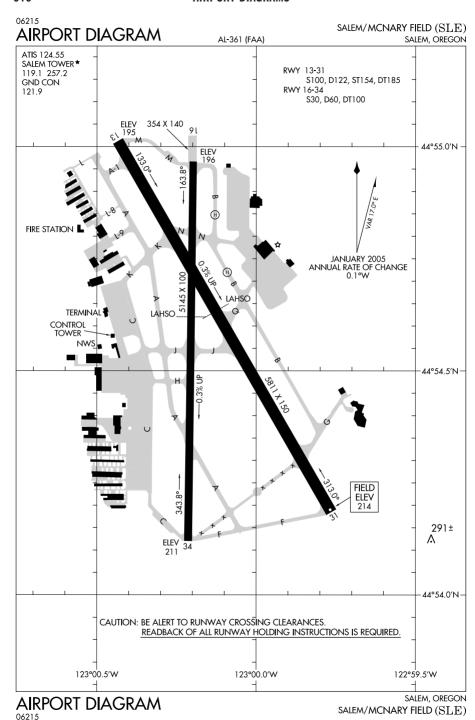
NW, 08 APR 2010 to 03 JUN 2010

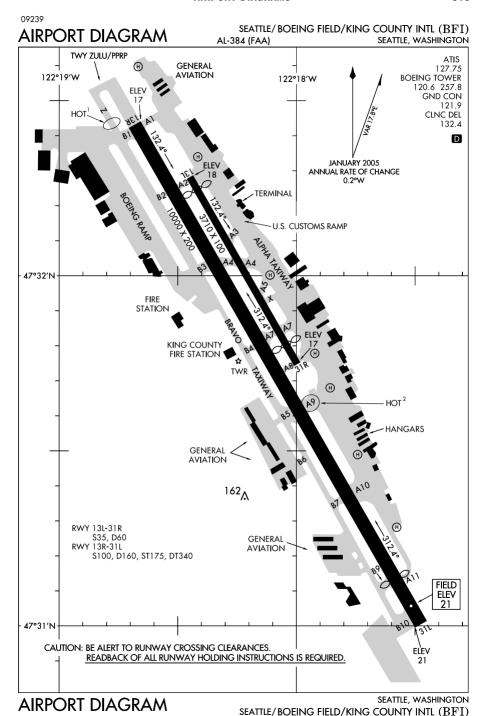
09239



AIRPORT DIAGRAM

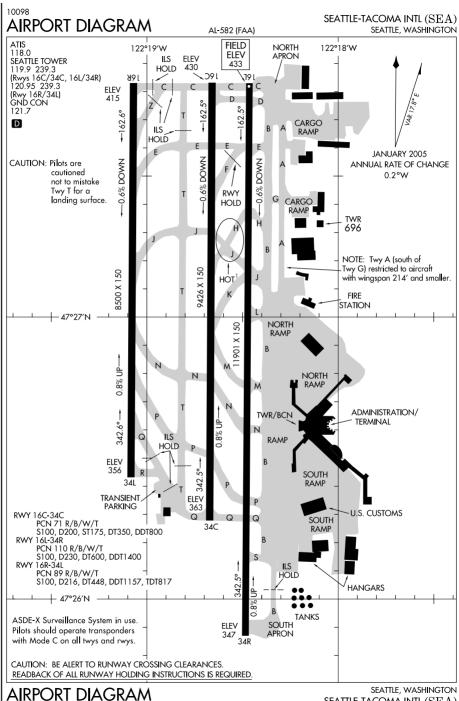
RENTON, WASHINGTON RENTON MUNI $\left(RNT\right)$





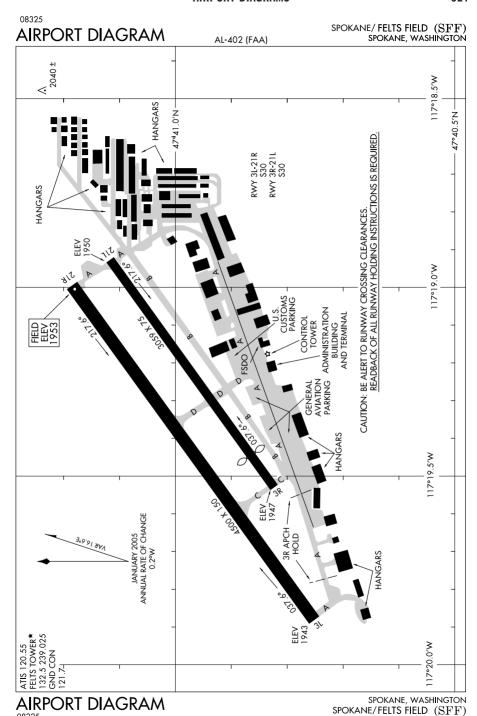
NW, 08 APR 2010 to 03 JUN 2010

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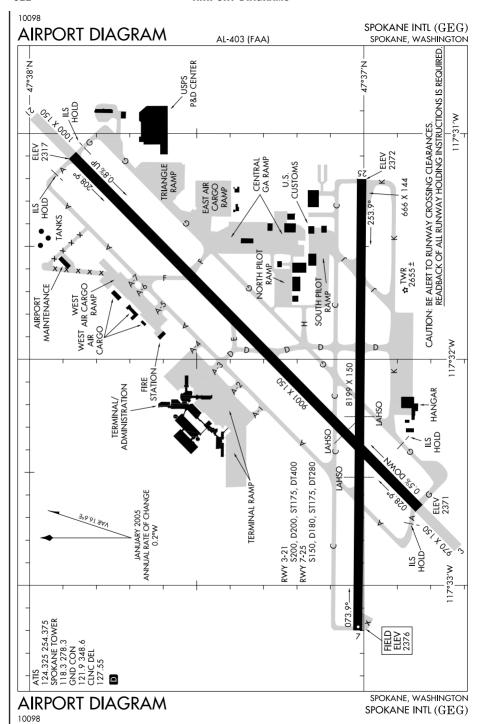
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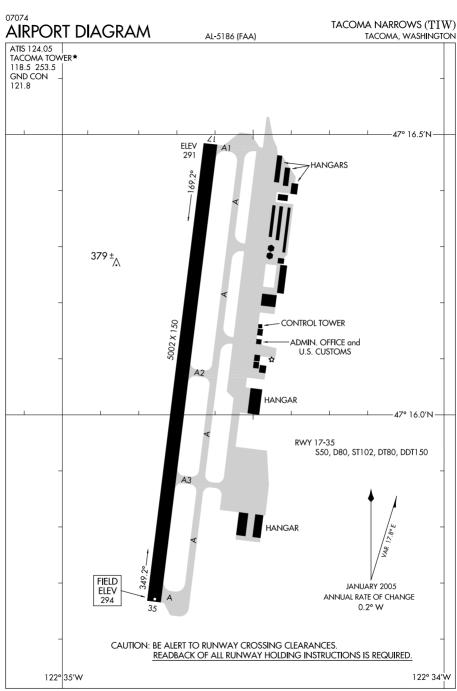
SEATTLE, WASHINGTON SEATTLE-TACOMA INTL (SEA)



NW, 08 APR 2010 to 03 JUN 2010

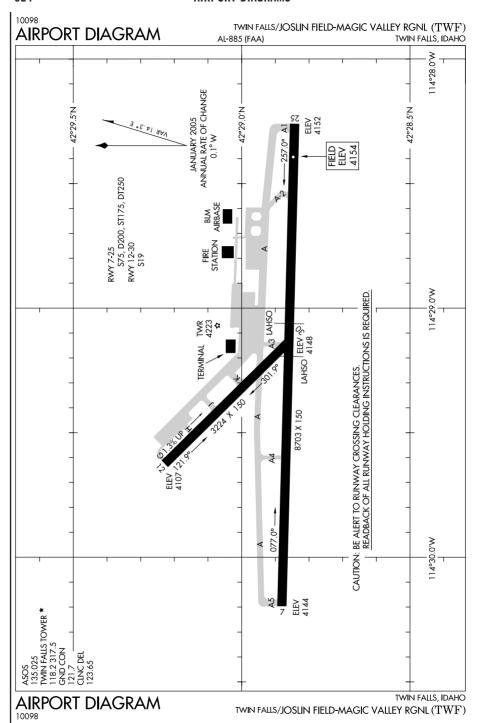
08325

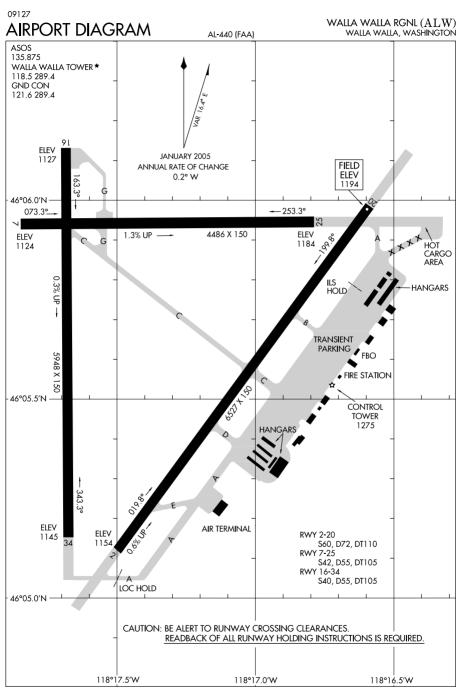




AIRPORT DIAGRAM

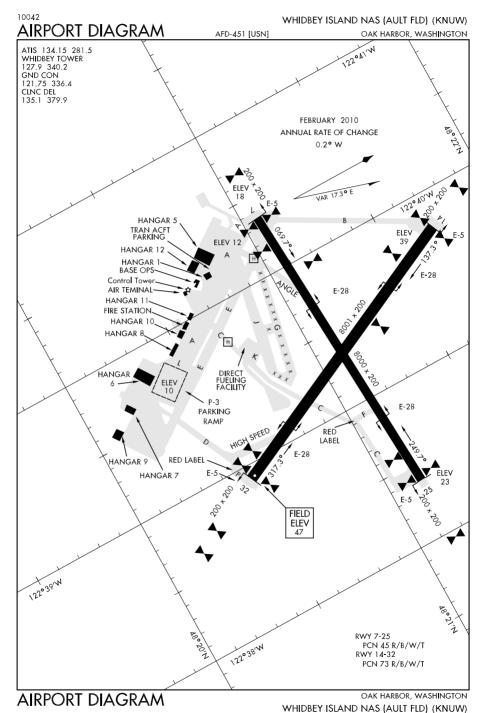
TACOMA, WASHINGTON TACOMA NARROWS (TIW)

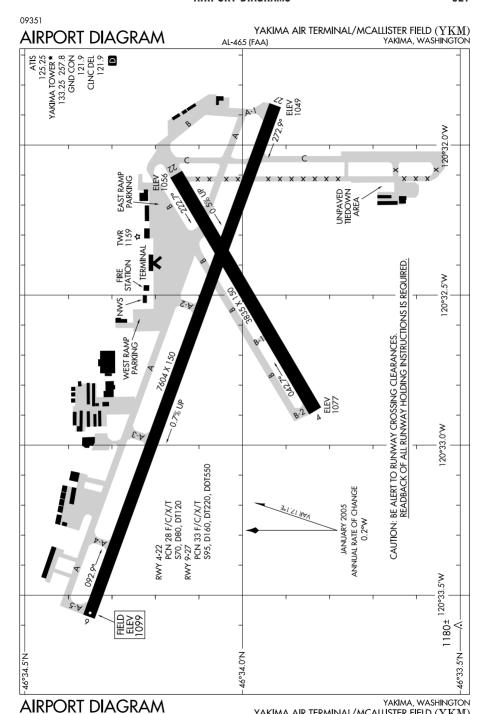




AIRPORT DIAGRAM

walla walla, washington walla walla rgnl $(A\,L\,W)$





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YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

