

# VFR AERONAUTICAL CHART SYMBOLS

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## GENERAL INFORMATION

Symbols shown are for World Aeronautical Charts (WACs), Sectional Aeronautical Charts (Sectionals), Terminal Area Charts (TACs), VFR Flyway Planning Charts and Helicopter Route Charts. When a symbol is different on any VFR chart series, it will be annotated as such (e.g. WAC or Not shown on WAC).

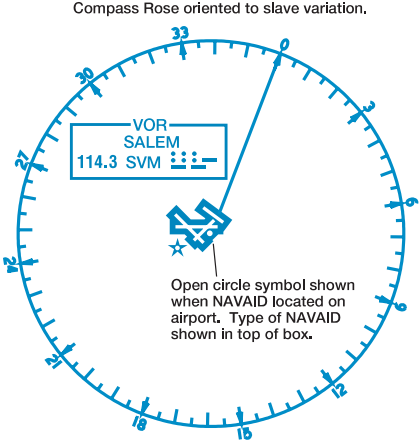
AIRPORTS	
<p><b>LANDPLANE: CIVIL</b></p> <p><i>Airports having control towers (CT) are shown in blue, all others are shown in magenta.</i></p> <p><i>All recognizable runways, including some which may be closed, are shown for visual identification purposes.</i></p> <p><i>Refueling and repair facilities for normal traffic.</i></p> <p><i>Runway patterns will be depicted at airports with at least one hard surface runway 1500' or greater in length.</i></p>	
<p><b>SEAPLANE: CIVIL</b></p>	
<p><b>LANDPLANE: CIVIL-MILITARY</b></p>	
<p><b>LANDPLANE: MILITARY</b></p> <p><i>Refueling and repair facilities not indicated.</i></p>	

AIRPORTS	
<p><b>LANDPLANE: EMERGENCY</b></p> <p><i>No facilities</i></p> <p><i>or</i></p> <p><i>Complete information is not available.</i></p> <p><i>Add appropriate note as required: "CLOSED"</i></p>	<p><b>WAC</b></p>
<p><b>SEAPLANE: EMERGENCY</b></p> <p><i>No facilities or complete information is not available.</i></p>	<p><b>WAC</b></p>
<p><b>HELIPORT</b></p> <p>(Selected)</p>	<p><b>WAC</b></p>
<p><b>ULTRALIGHT FLIGHT PARK</b></p> <p>(Selected)</p>	<p>Not shown on WAC</p>
<p><b>AIRPORT DATA GROUPING</b></p> <p><i>(Pvt) - Non-public use having emergency or landmark value.</i></p>	<p>Rotating Beacon in operation Sunset to Sunrise</p> <p>FSS NO SVFR [NAME](NAM) CT - 118.3 * ASOS/ AWOS 135.42 897 L 110 122.95 — UNICOM RP 23,34 VFR Advsy 125.0 AOE</p> <p>FSS NO SVFR [NAME](NAM) CT - 118.3 * ATIS 123.8 897 L 110 U AOE WAC</p>
<p><b>Legend:</b></p> <ul style="list-style-type: none"> <li>FSS - Flight Service Station on field</li> <li>NO SVFR - Airports where fixed wing special visual flight rules operations are prohibited (shown above airport name) F.A.R. 91</li> <li>[ ] - Indicates F.A.R. 93 Special Air Traffic Rules and Airport Traffic Patterns</li> <li>(R) - Airport Surveillance Radar (not shown on WAC)</li> <li>(NAM) - Location Identifier</li> <li>CT - 118.3 - Control Tower (CT) - primary frequency</li> <li>* - Star indicates operation part-time. See tower frequencies tabulation for hours of operation</li> <li>(C) - Indicates Common Traffic Advisory Frequencies (CTAF) (not shown on WAC)</li> <li>ATIS 123.8 - Automatic Terminal Information Service</li> <li>ASOS/ AWOS 135.42 - Automated Surface Weather Observing Systems (shown where full-time ATIS is not available). Some ASOS/AWOS facilities may not be located at airports. (not shown on WAC)</li> <li>897 - Elevation in feet</li> <li>L - Lighting in operation Sunset to Sunrise</li> <li>*L - Lighting limitations exist; refer to Airport/Facility Directory.</li> <li>110 - Length of longest runway in hundreds of feet; usable length may be less.</li> <li>UNICOM - Aeronautical advisory station ("U" only on WAC)</li> <li>RP 23,34 - Runways with Right Traffic Patterns (public use) (not shown on WAC)</li> <li>RP* - Special conditions exist - see A/FD</li> <li>VFR Advsy 125.0 - VFR Advisory Service shown where full-time ATIS not available and frequency is other than primary CT frequency.</li> <li>AOE - Airport of Entry</li> </ul> <p>When information is lacking, the respective character is replaced by a dash. Lighting codes refer to runway edge lights and may not represent the longest runway or full length lighting.</p>	

### RADIO AIDS TO NAVIGATION

**VHF OMNI-DIRECTIONAL RADIO (VOR) RANGE**

Compass Rose oriented to slave variation.



VOR SALEM  
114.3 SVM

Open circle symbol shown when NAVAID located on airport. Type of NAVAID shown in top of box.

**VOR**

Operates less than continuous or On-Request Transcribed Weather Broadcast (TWEB)

OAKDALE  
\*116.8 OAK

Underline indicates no voice on this frequency

**VORTAC**

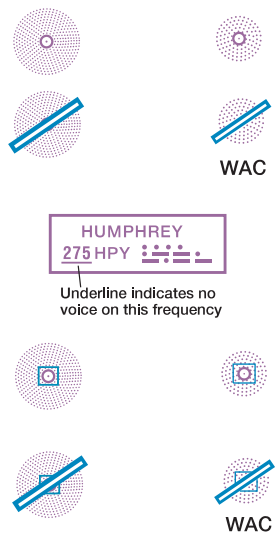
*When an NDB NAVAID shares the same name and Morse Code as the VOR NAVAID the frequency can be colocated inside the same box to conserve space.*

NDB Frequency	Name	ASOS/AWOS
379	PONTIAC	A
110.0 Ch 47	PTK	Morse Code
Frequency	Channel Identifier	

Hazardous Inflight Weather Advisory Service (HIWAS)

SALEM  
\*114.3 Ch 90 SVM

**NON-DIRECTIONAL RADIOBEACON (NDB)**



HUMPHREY  
275 HPY

Underline indicates no voice on this frequency

**NDB-DME**

GAMBELL  
369 GAM  
DME Ch 92 (114.5)

### RADIO AIDS TO NAVIGATION

**ILS COMPONENTS**

*Shown when component of airway system or used in the description of Class B airspace.*

Localizer

LCZR or LOCALIZER 109.5 I-BED

Locator Beacon

LOM or LOM 388 DT

ILS - DME

SALT LAKE CITY  
DME ANT (I-BNT) Ch 52 (111.5)

**BROADCAST STATIONS (BS)**

*On request by the proper authority or when a VFR Checkpoint.*

KFTM or BS KFTM 1400

**FLIGHT SERVICE STATION (FSS)**

Heavy line box indicates Flight Service Station (FSS). Frequencies 121.5, 122.2, 243.0 and 255.4 (Canada - 121.5, 126.7 and 243.0) are normally available at all FSS's and are not shown above boxes. All other frequencies are shown. For Local Airport Advisory use FSS frequency 123.6. R - Receive only

PONTIAC PTK

No NAVAID of the same name as FSS

or

122.1R

IDAHO FALLS  
109.0 Ch 27 IDA

FSS oper 0500-2300  
Boise FSS other times.

NAVAID same name as FSS but not an RCO

**REMOTE COMMUNICATIONS OUTLET (RCO)**

Frequencies above thin line box are remot to NAVAID site. Other frequencies at FSS providing voice communication may be available determined by altitude and terrain. Consult Airport / Facility Directory for complete information.

Thin line box without frequencies and controlling FSS name indicates no FSS frequency available.

123.6

OLYMPIA RCO  
[McCHORD]

122.35

ST PAUL  
108.6 STP  
[MINNEAPOLIS]

122.35

HUMPHREY  
275 HPY  
[MILES CITY]

FSS providing voice communication





RADIO AIDS TO NAVIGATION	
AIR FORCE STATION (AFS)	<p>122.0 AFS 123.6 POINT BARROW</p> <p>122.4 AFS 123.6 CAPE LEWISTON 206 LWS</p> <p>AFS at airport with NDB</p>
LONG RANGE RADAR STATION (LRRS)	<p>122.4 LRRS 122.55 BARTER ISLAND</p> <p>122.4 LRRS 123.6 CAPE LISBURNE 385 LUR</p> <p>LRRS at airport with NDB</p>
OFF AIRPORT AWOS/ASOS	<p>SANDBERG ASOS 120.625</p>




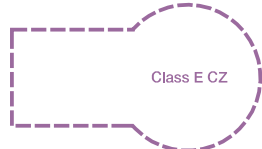
AIRSPACE INFORMATION	
CLASS C AIRSPACE	<p><b>BURBANK CLASS C</b></p> <p>Appropriate notes as required may be shown. (Mode C see FAR 91.215 /AIM)</p> <p>See NOTAMs/Directory for Class C eff hrs</p> <p>See NOTAMs/Directory for Class C eff hrs</p> <p>WAC</p> <p>Outer limit only, segments not shown</p> <p>FOR FLIGHTS AT OR BELOW 6600 MSL SEE PHOENIX VFR SECTIONAL CHART</p> <p>WAC only</p> <p>48 - Ceiling of Class C in hundreds of feet MSL 30 - Floor of Class C in hundreds of feet MSL</p> <p>T - Ceiling is to but not including floor of Class B SFC - Surface</p> <p>CTC BURBANK APP WITHIN 20 NM ON 124.6 395.9</p> <p>Not shown on WAC</p>

AIRSPACE INFORMATION

CLASS B AIRSPACE	<p><b>LAS VEGAS CLASS B</b></p> <p>Appropriate notes as required may be shown. Only the airspace effective below 18,000 feet MSL are shown. (Mode C see FAR 91.215 /AIM) All mileages are nautical (NM). All radials are magnetic.</p> <p>Outer limit only, segments not shown</p> <p>WAC</p> <p>FOR FLIGHTS AT AND BELOW 8000 MSL SEE KANSAS CITY VFR TERMINAL AREA CHART</p> <p>WAC only</p> <p>80 - Ceiling of Class B in hundreds of feet MSL 40 - Floor of Class B in hundreds of feet MSL</p> <p>CTC LAS VEGAS APP ON 121.1 OR 257.8</p> <p>TAC only</p>
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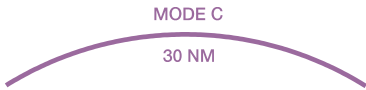


CLASS D AIRSPACE	<p>See NOTAMs/Directory for Class D eff hrs</p> <p>See NOTAMs/Directory for Class D/E (sfc) eff hrs</p> <p>(A minus in front of the figure is used to indicate "from surface to but not including...") ALTITUDE IN HUNDREDS OF FEET MSL</p> <p>Not shown on WAC</p>
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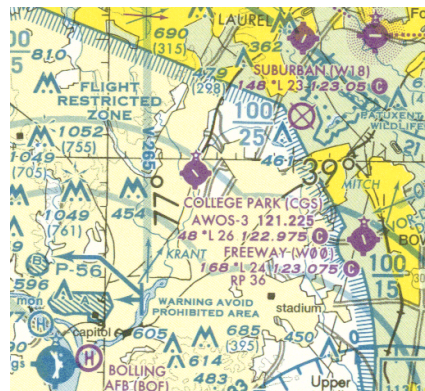

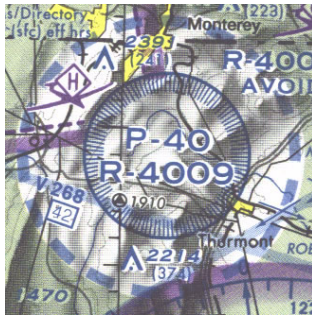
AIRSPACE INFORMATION	
<p><b>CLASS E AIRSPACE</b></p> <p>The limits of Class E airspace shall be shown by narrow vignettes or by the dashed magenta symbol. Individual units of designated airspace are not necessarily shown; instead, the aggregate lateral and vertical limits shall be defined by the following:</p> <p>Airspace beginning at the surface (sfc) designated around airports ...</p> <p>Airspace beginning at 700 feet AGL ...</p> <p>Airspace beginning at 1200 feet AGL or greater that abuts uncontrolled airspace (Class G) ...</p> <p>Differentiates floors of airspace greater than 700 feet above the surface...</p> <p>When the ceiling is less than 18,000 feet MSL, the value, prefixed by the word "ceiling," shall be shown along the limits.</p>	    <p style="text-align: center;"><b>8000 AGL</b></p> <p style="text-align: center;"><b>11,500 MSL</b></p> <p style="text-align: center;">Not shown on WAC</p>
<p><b>OFFSHORE CONTROL AREAS</b></p>	<p style="text-align: center;"><b>ATLANTIC LOW CONTROL AREA</b></p> <p style="text-align: center;">Class G Airspace</p> <p style="text-align: center;"><b>9500 MSL</b> <b>ATLANTIC LOW CONTROL AREA</b></p> <p style="text-align: center;"><b>8000 MSL</b> <b>CONTROL AREA 1148L</b></p> <p style="text-align: center;"><b>ATLANTIC LOW CONTROL AREA</b></p> <p style="text-align: center;"><b>ATLANTIC LOW CONTROL AREA</b> <b>CONTROL AREA 1148L</b></p> <p style="text-align: right;">WAC</p>

AIRSPACE INFORMATION	
<p><b>CANADIAN AIRSPACE</b></p> <p>Individual units of designated Canadian airspace are not necessarily shown; instead, the aggregate lateral and vertical limits shall be portrayed as closely as possible to the comparable U.S. airspace.</p> <p>Appropriate notes as required may be shown.</p>	<p style="text-align: right;">TCA Class C/D</p>  <p style="text-align: right;">TCA Class C/D</p>  <p style="text-align: right;">WAC</p> <p style="text-align: center;">Outer limit only, segments not shown</p> <p><b>125</b> - Ceiling of TCA Class C/D in hundreds of feet MSL <b>25</b> - Floor of TCA Class C/D in hundreds of feet MSL</p>
<p><b>AIRSPACE OUTSIDE OF U.S.</b></p> <p>Other than Canada</p> <p>Appropriate notes as required may be shown.</p>	 <p style="text-align: center;">ALTITUDE IN HUNDREDS OF FEET MSL</p>  <p style="text-align: center;">Not shown on WAC</p> <div style="border: 1px solid blue; padding: 5px; width: fit-content; margin: 10px auto;"> <p>AIRSPACE CLASSIFICATION (SEE CANADA FLIGHT SUPPLEMENT) AND OPERATIONAL REQUIREMENTS (SEE DOD AREA PLANNING AP/1) MAY DIFFER BETWEEN CANADA AND UNITED STATES</p> </div> <div style="border: 1px solid blue; padding: 5px; width: fit-content; margin: 10px auto;"> <p>NOTE: REFER TO CURRENT CANADIAN CHARTS AND FLIGHT INFORMATION PUBLICATIONS FOR INFORMATION WITHIN CANADIAN AIRSPACE</p> </div>
<p><b>FLIGHT INFORMATION REGIONS (FIR) and /or (CTA)</b></p> <p><b>OCEANIC CONTROL AREAS (OCA)</b></p>	<p style="text-align: center;">No FIR exists this side - No ticks</p> <p style="text-align: center;"><b>MONCTON FIR CZQM</b></p> <p style="text-align: center;"><b>WINNIPEG FIR CZWG</b></p> <p style="text-align: center;"><b>EDMONTON FIR CZEG</b></p> <p style="text-align: center;"><b>OAKLAND OCEANIC CONTROL AREA</b></p>


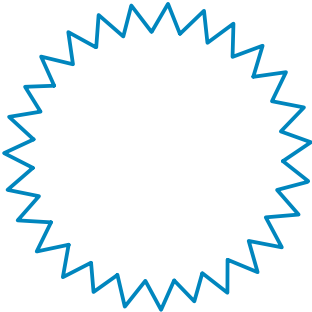
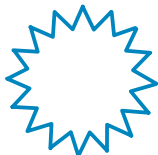

AIRSPACE INFORMATION	
<p><b>LOW ALTITUDE AIRWAYS</b> VOR and LF / MF (CLASS E AIRSPACE)</p> <p><i>Low altitude Federal Airways are indicated by centerline.</i></p> <p><i>Only the controlled airspace effective below 18,000 feet MSL is shown.</i></p>	<p>Total mileage between NAVAIDS on direct Airways.</p> <p>25</p> <p>V2N ← 270° Alternate Airway radial</p> <p>V2 ← 255° Enroute Airway radial</p> <p>R40 LF / MF Airway</p> <p>V2N ← 270° Alternate Airway radial</p> <p>V2 ← 255° Enroute Airway radial</p> <p>R40 LF / MF Airway</p> <p>WAC</p>
<p><b>MISCELLANEOUS AIR ROUTES</b></p>	<p>BR 63V ← 265° Bahama Route</p> <p>A 301 Oceanic &amp; ATS Route</p> <p>AR5 Atlantic Route</p> <p>GULF RTE 26 Gulf Route</p> <p>B ROUTE 2 Class G Route</p> <p>BR 63V ← 265° Bahama Route</p> <p>A 301 Oceanic &amp; ATS Route</p> <p>AR5 Atlantic Route</p> <p>GULF RTE 26 Gulf Route</p> <p>B ROUTE 2 Class G Route</p> <p>WAC</p>

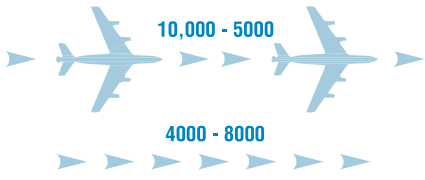
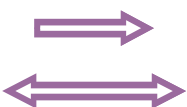
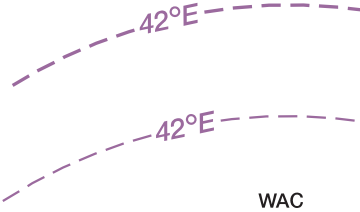
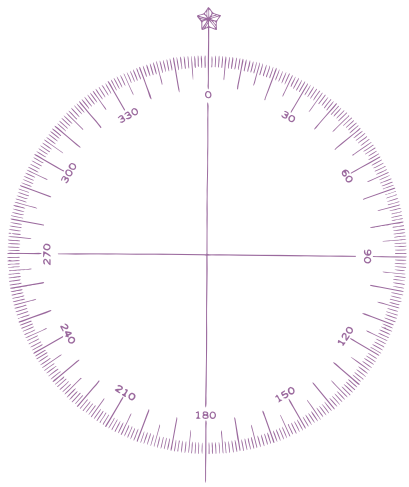
AIRSPACE INFORMATION	
<p><b>SPECIAL USE AIRSPACE</b></p> <p><i>Only the airspace effective below 18,000 feet MSL are shown.</i></p> <p><i>The type of area shall be spelled out in large areas if space permits.</i></p>	<p>P-56 or R-6401 or W-518</p> <p><b>PROHIBITED, RESTRICTED or WARNING AREA</b></p> <p>ALERT AREA A-631</p> <p>CONCENTRATED STUDENT HELICOPTER TRAINING</p> <p><b>ALERT AREA</b></p> <p>VANCE 2 MOA</p> <p><b>MILITARY OPERATIONS AREA (MOA)</b></p>
<p><b>MILITARY TRAINING ROUTES (MTR)</b></p>	<p>← IR292</p> <p>Not shown on WAC</p>
<p><b>SPECIAL MILITARY ACTIVITY ROUTES (SMAR)</b></p> <p><i>Boxed notes (as in text) shown adjacent to route.</i></p>	<p>40 05 AGL</p> <p>45 05 AGL</p> <p>SPECIAL MILITARY ACTIVITY CONTACT MOBILE FSS ON 123.6 FOR ACTIVITY STATUS</p> <p>40 --- Ceiling of SMAR in hundreds of feet MSL 05 AGL -- Floor of SMAR in hundreds of feet AGL</p> <p>Not shown on WAC</p>

AIRSPACE INFORMATION	
<p>SPECIAL AIR TRAFFIC RULES / AIRPORT PATTERNS (FAR 93)</p> <p><i>Appropriate boxed note as required shown adjacent to area.</i></p>	 <p><b>SPECIAL NOTICE</b> Pilots are required to obtain an ATC clearance prior to entering this area.</p>
<p>SPACE OPERATIONS AREA (FAR 91.143)</p>	 <p>DARKER TINT IS FAR 91.143 AREA</p> <p>Not shown on WAC</p>
<p>MODE C (FAR 91.215)</p> <p><i>Appropriate notes as required may be shown.</i></p>	 <p>MODE C 30 NM</p>
<p>MISCELLANEOUS AIRSPACE AREAS</p> <p>Parachute Jumping Area with Frequency</p> <p>Glider Operating Area</p> <p>Ultralight Activity</p> <p>Hang Glider Activity</p>	 <p>122.9</p> <p>Not shown on WAC</p>
<p>SPECIAL CONSERVATION AREAS</p> <p>National Park, Wildlife Refuge, Primitive and Wilderness Areas, etc.</p>	 <p>PAHRANAGAT NATIONAL WILDLIFE REFUGE</p> <p>Not shown on WAC</p>

AIRSPACE INFORMATION	
<p>SPECIAL AIRSPACE AREAS</p> <p>SPECIAL FEDERAL AVIATION REGULATIONS (SFAR) AREAS</p> <p><i>Appropriate notes as required may be shown.</i></p> <p><i>Note. Delimiting line not shown when it coincides with International Boundary, projection lines or other linear features.</i></p>	 <p><b>SPECIAL FEDERAL AVIATION REGULATIONS (SFAR)</b> 14 CFR Part 93, Subpart U and SFAR 50.2 - GRAND CANYON NATIONAL PARK SPECIAL FLIGHT RULES AREA. Special regulations apply to all aircraft operations below 18,000 feet MSL.</p>
<p>FLIGHT RESTRICTED ZONE RELATING TO NATIONAL SECURITY</p> <p>Example: Washington DC</p> <p><i>Appropriate notes as required may be shown.</i></p>	 <p><b>Washington DC Metropolitan Area Air Defense Identification Zone/Flight Restricted Zone restrictions are in effect.</b> Special regulations apply to all aircraft operations below Flight Level 180 in the Washington DC Metropolitan Area. Pilots should contact a local FSS for NOTAM information prior to flight in the Washington DC Metropolitan Area.</p>
<p>AIR DEFENSE IDENTIFICATION ZONE (ADIZ)</p> <p><i>Note. Delimiting line not shown when it coincides with International Boundary, projection lines or other linear features.</i></p>	<p><b>WASHINGTON DC METROPOLITAN ADIZ</b></p> 
<p>TEMPORARY FLIGHT RESTRICTION (TFR) RELATING TO NATIONAL SECURITY</p> <p>Example: P-40/R-4009</p> <p><i>Appropriate notes as required may be shown.</i></p>	 <p><b>CAUTION</b> P-40 AND R-4009 EXPANDED BY TEMPORARY FLIGHT RESTRICTION. CONTACT AFSS FOR LATEST STATUS AND NOTAMS</p> <p>Not shown on WAC</p>



AIRSPACE INFORMATION	
<p><b>NATIONAL SECURITY AREA</b></p> <p><i>Appropriate notes as required may be shown.</i></p>	 <p style="text-align: center;">NOTICE FOR REASONS OF NATIONAL SECURITY PILOTS ARE REQUESTED TO AVOID FLIGHT BELOW 1200 MSL IN THIS AREA</p> <p style="text-align: center;">Not shown on WAC</p>
<p><b>HIGH ENERGY RADIATION AREAS</b></p> <p><i>Appropriate notes as required may be shown.</i></p>	 <p style="text-align: center;">HAZARDOUS LASER TRANSMISSIONS SFC to infinity See Airport Facility/Directory</p>  <p style="text-align: right;">WAC</p>
<p><b>TERMINAL RADAR SERVICE AREA (TRSA)</b></p> <p><i>Appropriate notes as required may be shown.</i></p>	<p style="text-align: center;">PALM SPRINGS TRSA</p>  <p><b>80</b> - Ceiling of TRSA in hundreds of feet MSL <b>40</b> - Floor of TRSA in hundreds of feet MSL</p> <p style="text-align: center; border: 1px solid black; padding: 2px;">SEE TWR FREQ TAB</p> <p style="text-align: center;">Not shown on WAC</p>

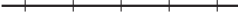




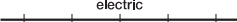
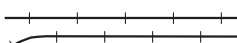




AIRSPACE INFORMATION	
<p><b>IFR ROUTES</b></p> <p><i>Appropriate notes as required may be shown.</i></p> <p>Arrival</p> <p>Departure</p>	 <p style="text-align: center;">TAC only</p>
<p><b>TRANSITION ROUTES</b></p> <p><i>Appropriate notes as required may be shown.</i></p> <p>Uni-directional</p> <p>Bi-directional</p>	<p style="text-align: center; border: 1px solid purple; padding: 5px;">VFR TRANSITION ROUTE ATC CLEARANCE REQUIRED SEE SHOWBOAT GRAPHIC ON SIDE PANEL</p>  <p style="text-align: center;">TAC only</p>
NAVIGATIONAL AND PROCEDURAL INFORMATION	
<p><b>ISOGONIC LINE &amp; VALUE</b></p> <p><i>Isogonic lines and values shall be based on the five year epoch magnetic variation model.</i></p>	 <p style="text-align: right;">WAC</p>
<p><b>LOCAL MAGNETIC NOTES</b></p> <p>Unreliability Notes</p>	<p style="text-align: center; border: 1px solid purple; padding: 5px;">Magnetic disturbance of as much as 78° exists at ground level and 10° or more at 3000 feet above ground level in this vicinity.</p>
<p><b>COMPASS ROSETTE</b></p> <p><i>Shown only in areas void of VOR roses.</i></p> <p><i>Compass rosette will be based on the five year epoch magnetic variation model.</i></p>	

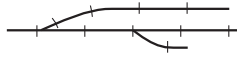









NAVIGATIONAL AND PROCEDURAL INFORMATION	
<p><b>INTERSECTIONS</b></p> <p><i>Named intersections used as reporting points. Arrows are directed toward facilities which establish intersection.</i></p>	<p>ANGOO VHF      ROAMS LF / MF</p> <p>WATSY Combined VHF - LF / MF Not shown on WAC</p>
<p><b>AERONAUTICAL LIGHTS</b></p>	<p><b>Rotating or Oscillating</b> Located at Aerodrome</p> <p>2520      2520 In isolated location on top of high structure WAC</p>
<p><b>AERONAUTICAL LIGHTS</b></p>	<p><b>Rotating Light with Flashing Code Identification Light</b></p> <p><b>Rotating Light with Course Lights and Site Number</b></p> <p><b>Flashing Light</b></p> <p>WAC</p>

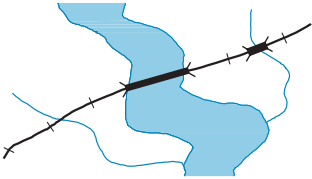
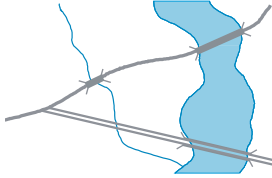

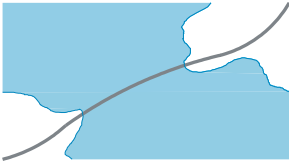
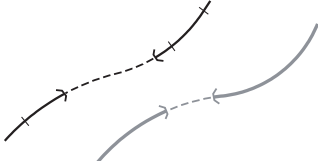
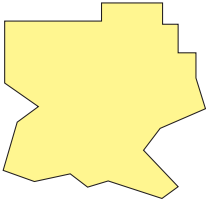


NAVIGATIONAL AND PROCEDURAL INFORMATION	
<p><b>MARINE LIGHTS</b></p> <p><b>With Characteristics of Light</b></p>	<p>Oc R SEC      AI Land Light      Land Light</p> <p>WAC</p> <ul style="list-style-type: none"> <li>R Red</li> <li>W White</li> <li>G Green</li> <li>B Blue</li> <li>SEC Sector</li> <li>F Fixed</li> <li>Oc Single Occulting</li> <li>Oc (2) Group Occulting</li> <li>Oc (2+1) Composite Group Occulting</li> <li>Iso Isophase</li> <li>Fl Flashing</li> <li>Fl (2) Group Flashing</li> <li>Fl (2+1) Composite Group Flashing</li> <li>Q Quick</li> <li>IQ Interrupted Quick</li> <li>Mo (A) Morse Code</li> <li>FFI Fixed and Flashing</li> <li>Al Alternating</li> <li>Gp Group</li> <li>LFI Long Flash</li> <li>Q (3) Group Quick Flashing</li> <li>IQ Interrupted Quick Flashing</li> <li>VQ Very Quick Flashing</li> <li>VQ (3) Group Very Quick Flashing</li> <li>IVQ Interrupted Very Quick Flashing</li> <li>UQ Ultra Quick Flashing</li> <li>IUQ Interrupted Ultra Quick Flashing</li> </ul> <p><small>*Marine Lights are white unless otherwise noted. Alternating lights are red and white unless otherwise noted.</small></p>
<p><b>VISUAL GROUND SIGNS</b></p> <p><i>Shore and Landmarkers</i></p>	<p>A33</p> <p>Arrow points to location of marker</p> <p>M</p> <p>Actual location of ground sign</p>
<p><b>VFR CHECKPOINTS</b></p>	<p>Pictorial      STATE CAPITOL</p> <p>SIGNAL HILL</p> <p>NORTHBROOK 113.0 Ch 77 OBK</p> <p>LEWIS (Pvt) 989 - 27</p> <p>Not shown on WAC</p>
<p><b>VFR WAYPOINTS</b></p> <p>Stand-Alone</p> <p>Collocated with VFR Checkpoint</p>	<p>VPXYZ</p> <p>NAME (VPXYZ)</p> <p>Not shown on WAC</p>

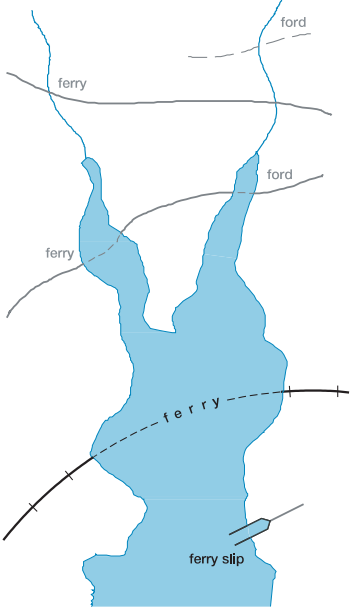





NAVIGATIONAL AND PROCEDURAL INFORMATION	
<b>OBSTRUCTION</b>	<p>Less than 1000' AGL</p> <p>Under Construction or reported and position / elevation unverified</p> <p>1000' AGL and higher</p> <p>WAC</p>
<b>GROUP OBSTRUCTION</b>	<p>Less than 1000' AGL</p> <p>1000' AGL and higher</p> <p>At least two in group over 1000' AGL</p> <p>WAC</p>
<b>HIGH-INTENSITY OBSTRUCTION LIGHTS</b>  <i>High-intensity lights may operate part-time.</i>	<p>Less than 1000' AGL</p> <p>1000' AGL and higher</p> <p>Group Obstruction</p> <p>WAC</p>
<b>WINDMILL FARMS</b>  <i>When highest windmill is unverified, UC will be shown after MSL value.</i>	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px; font-size: small;">CAUTION NUMEROUS WINDMILLS HIGHEST 3624' MSL UC</div> <div style="border: 1px solid black; padding: 2px; font-size: small;">CAUTION NUMEROUS WINDMILLS HIGHEST 3624' MSL</div> </div> <p>WAC</p>
<b>MAXIMUM ELEVATION FIGURE (MEF)</b>  <i>(see page 2 for explanation).</i>	135
<b>WARNING AND CAUTION NOTES</b>  <i>Used when specific area is not demarcated.</i>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; font-weight: bold; font-size: small;">WARNING</p> <p>Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>CAUTION: Be prepared for loss of horizontal reference at low altitude over lake during hazy conditions and at night.</p> </div>





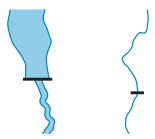


CHART LIMITS	
<b>OUTLINE ON SECTIONAL OF TERMINAL AREA CHART</b>	<div style="border: 1px solid black; padding: 5px; margin-top: 10px; font-size: small;"> <p style="text-align: center; font-weight: bold;">LOS ANGELES TERMINAL AREA</p> <p>Pilots are encouraged to use the Los Angeles VFR Terminal Area Chart for flights at or below 10,000'</p> </div> <p style="text-align: center;">Not shown on WAC</p>
<b>OUTLINE ON SECTIONAL OF INSET CHART</b>	<p style="text-align: center; font-size: small;">If inset chart is on a different chart:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px; font-size: small;"> <p style="text-align: center; font-weight: bold;">INDIANAPOLIS INSET</p> <p>See inset chart on the St. Louis Sectional for additional information</p> </div> <p style="text-align: center; font-size: small;">If inset chart is on the same chart as outline:</p> <div style="border: 1px solid black; padding: 5px; margin-top: 5px; font-size: small;"> <p style="text-align: center; font-weight: bold;">INDIANAPOLIS INSET</p> <p>See inset chart for additional detail</p> </div> <p style="text-align: center;">Not shown on WAC</p>

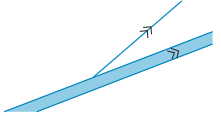
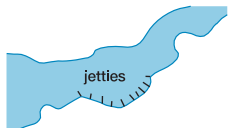
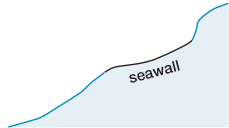
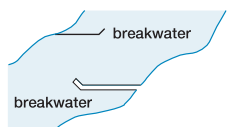
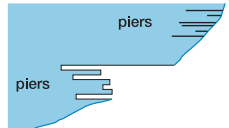


CULTURE	
<b>RAILROADS</b> <i>All gauges</i> Single Track	 
Double Track	 
More Than Two Tracks	
Electric	
RAILROADS IN JUXTAPOSITION	
RAILROAD-NONOPERATING, ABANDONED, DESTROYED OR UNDER CONSTRUCTION	
RAILROAD YARDS	Limiting Track To Scale  Location Only 
RAILROAD STATIONS	

CULTURE	
RAILROAD SIDINGS AND SHORT SPURS	
ROADS	Dual-Lane Divided Highway Category 1  Primary Category 2  Secondary Category 2 
TRAILS	Category 3 <i>Provides symbolization for dismantled railroad when combined with label "dismantled railroad."</i> 
ROAD MARKERS	Interstate Route No.  U.S. Route No.  Air Marked Identification Label 
ROAD NAMES	
ROADS UNDER CONSTRUCTION	

CULTURE	
BRIDGES AND VIADUCTS	Railroad 
	Road 
OVERPASSES AND UNDERPASSES	
CAUSEWAYS	
TUNNELS-ROAD AND RAILROAD	
POPULATED PLACES	<p>Large Cities Category 1 </p> <p>Cities and Large Towns Category 2 </p>
POPULATED PLACES	<p>Towns and Villages Category 3 </p> <p>WAC</p>

CULTURE	
FERRIES, FERRY SLIPS AND FORDS	
PROMINENT FENCES	
BOUNDARIES	<p>International </p> <p>State or Province </p> <p>Convention or Mandate Line </p> <p>Date Line </p>

CULTURE	
TIME ZONES	<p>PST (-7DT) = UTC +8</p> <p>MST (-6DT) = UTC +7</p> <p>Not shown on WAC</p>
MINES OR QUARRIES <i>Shaft Mines or Quarries</i>	
POWER TRANSMISSION & TELECOMMUNICATION LINES	 <p>----- WAC</p>
PIPELINES	<p>pipeline</p> 
Underground	<p>underground pipeline</p> 
DAMS	
DAM CARRYING ROAD	
PASSABLE LOCKS	<p>locks</p> 


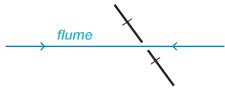

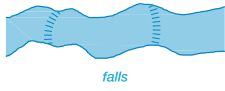

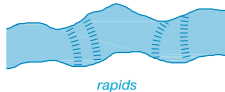


CULTURE	
SMALL LOCKS	
WEIRS AND JETTIES	<p>jetties</p> 
SEAWALLS	<p>seawall</p> 
BREAKWATERS	<p>breakwater</p> 
PIERS, WHARFS, QUAYS, ETC.	<p>piers</p> 
MISCELLANEOUS CULTURAL FEATURES	<ul style="list-style-type: none"> <li>■ stadium</li> <li>■ fort</li> <li>■ cemetery</li> </ul>
OUTDOOR THEATER	
WELLS  Other Than Water	<p>o all</p> 




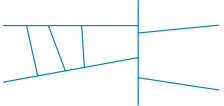

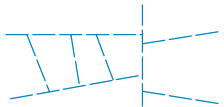
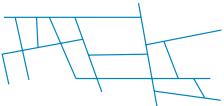

CULTURE	
RACE TRACKS	
LOOKOUT TOWERS Air marked identification	618 (Elevation Base of Tower)
LANDMARK AREAS	
TANKS	<ul style="list-style-type: none"> <li>• water</li> <li>• oil</li> <li>• gas</li> </ul>
COAST GUARD STATION	
AERIAL CABLEWAYS, CONVEYORS, ETC.	  WAC
HYDROGRAPHY	
OPEN WATER	
INLAND WATER	

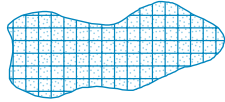




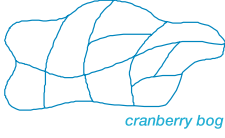

HYDROGRAPHY	
SHORELINES	Definite 
	Fluctuating 
	Unsurveyed Indefinite 
	Man-made 
LAKES	Label as required Perennial When too numerous to show individual lakes, show representative pattern and descriptive note. 
	Non-Perennial (dry, intermittent, etc.) Illustration includes small perennial lake 
	RESERVOIRS
RESERVOIRS	Natural Shorelines 
	Man-made Shorelines Label when necessary for clarity 
	Too small to show to scale 
Under Construction 	

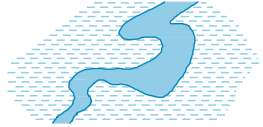

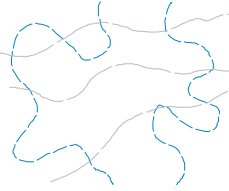
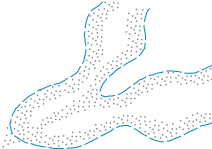
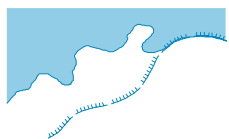
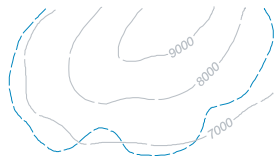

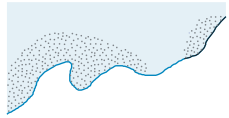
HYDROGRAPHY		HYDROGRAPHY		
<p><b>STREAMS</b></p> <p>Perennial</p> <p>Non-Perennial</p> <p>Fanned Out <i>Alluvial fan</i></p> <p>Braided</p> <p>Disappearing</p> <p>Seasonally Fluctuating <i>with undefined limits</i></p> <p><i>with maximum bank limits, prominent and constant</i></p> <p>Sand Deposits In and Along Riverbeds</p>		<p><b>WET SAND AREAS</b></p> <p><i>Within and adjacent to desert areas</i></p>		
			<p><b>AQUEDUCTS</b></p> <p><i>aqueduct</i></p>	
			<p><b>Abandoned or Under Construction</b></p> <p><i>abandoned aqueduct</i></p>	
			<p><b>Underground</b></p> <p><i>underground aqueduct</i></p>	
			<p><b>Suspended or Elevated</b></p>	
			<p><b>Tunnels</b></p>	
			<p><b>Kanats</b></p> <p><i>Underground aque- duct with air vents</i></p>	



HYDROGRAPHY	
FLUMES, PENSTOCKS AND SIMILAR FEATURES	
Elevated	
Underground	
FALLS	
Double-Line	
Single-Line	
RAPIDS	
Double-Line	
Single-Line	
CANALS	

HYDROGRAPHY	
To Scale	
Abandoned or Under Construction	
Abandoned to Scale	
SMALL CANALS AND DRAINAGE / IRRIGATION DITCHES	
Perennial	
Non-Perennial	
Abandoned or Ancient	
Numerous <i>Representative pattern and/or descriptive note.</i>	
Numerous	

HYDROGRAPHY	
SALT EVAPORATORS AND SALT PANS MAN EXPLOITED	
SWAMPS, MARSHES AND BOGS	
HUMMOCKS AND RIDGES	
MANGROVE AND NIPA	
PEAT BOGS	
TUNDRA	tundra
CRANBERRY BOGS	
RICE PADDIES	




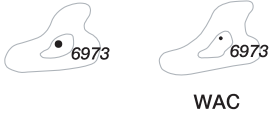



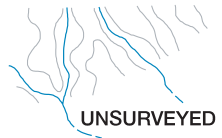
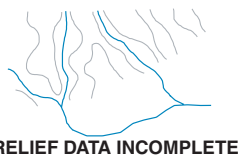
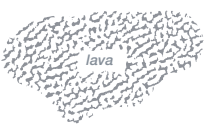

HYDROGRAPHY	
LAND SUBJECT TO INUNDATION	
SPRINGS, WELLS AND WATERHOLES	
GLACIERS	
GLACIAL MORAINES	
ICE CLIFFS	
SNOWFIELDS, ICE FIELDS AND ICE CAPS	
ICE PEAKS	
FORESHORE FLATS	


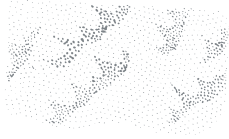
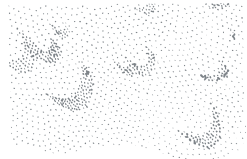
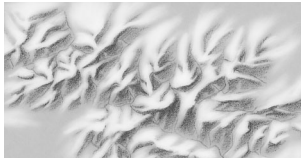

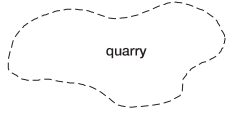

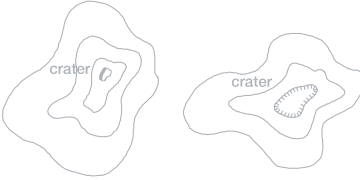
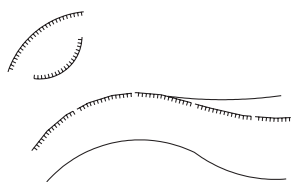

Extensive areas indicated by label only.










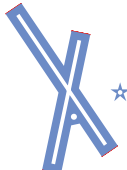
Tidal flats exposed at low tide.

HYDROGRAPHY	
ROCKS-ISOLATED Bare or Awash	*
WRECKS Exposed	
REEFS-ROCKY OR CORAL	
MISCELLANEOUS UNDERWATER FEATURES NOT OTHERWISE SYMBOLIZED	
FISH PONDS AND HATCHERIES	
ICE	
Permanent Polar Ice	
Pack Ice	

RELIEF	
CONTOURS	
Basic	
Approximate	
Intermediate	
Auxiliary	
Depression	
Values	


RELIEF	
SPOT ELEVATIONS	
Position Accurate	
Position Accurate, Elevation Approximate	
Approximate location	
Highest in General Area	
Highest on Chart	
MOUNTAIN PASS	
HACHURING	
UNSURVEYED AREAS	
UNCONTOURED AREAS	
DISTORTED SURFACE AREAS	
LAVA FLOWS	

RELIEF	
SAND OR GRAVEL AREAS	
SAND RIDGES	
To Scale	
SAND DUNES	
To Scale	
SHADED RELIEF	
ROCK STRATA OUTCROP	
QUARRIES TO SCALE	
STRIP MINES, MINE DUMPS AND TAILINGS	
To Scale	
CRATERS	
ESCARPMENTS, BLUFFS, CLIFFS, DEPRESSIONS, ETC.	
LEVEES AND ESKERS	

AIRPORTS	
<p><b>LANDPLANE</b></p> <p>All recognizable runways, including some which may be closed, are shown for visual identification.</p>	 Public  Private 
<p><b>HELIPORT</b></p>	Heliports public and private  Hospital Helipads  Trauma Center  Helipads located at major airports 
<p><b>SEAPLANE</b></p>	
<p><b>ULTRALIGHT FLIGHT PARK</b></p>	
<p><b>AIRPORT DATA GROUPING</b></p> <p>Boxed airport name indicates airport for which a Special Traffic Rule has been established.</p> <p>(Pvt) - Non-public use having emergency or landmark value.</p>	 <p>Rotating Beacon in operation Sunset to Sunrise</p> <p>FSS NO SVFR [NAME] (NAM) CT -119.1 * (119.8 HELI) ATIS 115.4 ASOS / AWOS 135.42 03 L 122.95 AOE</p>

**FSS** - Flight Service Station on field

**NO SVFR** - Airspace where fixed wing special visual flight rules operations are prohibited (shown above airport name) F.A.R. 91.

 - Indicates F.A.R. 93 Special Air Traffic Rules and Airport Traffic

**(NAM)** - Location Identifier

**CT - 119.1**

★ - Star indicates operation part-time. See tower frequencies tabulation for hours of operation.

**ATIS 115.4**


**ASOS / AWOS 135.42** - Automated Surface Weather Observing Systems (shown where full-time ATIS is not available). Some ASOS/AWOS facilities may not be located at airports.

**03** - Elevation in feet

**L** - Lighting in operation Sunset to Sunrise

**\*L** - Lighting limitations exist, refer to Airport/Facility Directory.


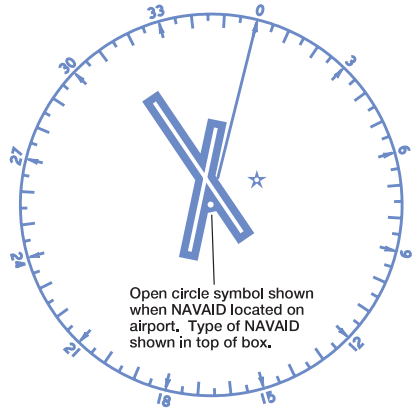










**122.95** - UNICOM - Aeronautical advisory station

 - Indicates Common Traffic Advisory Frequencies (CTAF)

**(Unverified)** - Unverified Helipoint


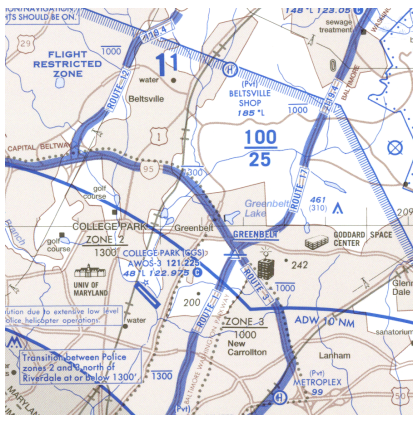

**AOE** - Airport of Entry




When information is lacking, the respective character is replaced by a dash. Lighting codes refer to runway edge lights and may not represent the longest runway or full length lighting. Dashes are not shown on heliports or helipads unless additional information follows the elevation (e.g. UNICOM, CTAF).

RADIO AIDS TO NAVIGATION	
<p><b>VHF OMNI-DIRECTIONAL RADIO (VOR) RANGE</b></p>	<p>VOR-DME PROVO 108.4 Ch 21 PVU </p>  <p>Open circle symbol shown when NAVAID located on airport. Type of NAVAID shown in top of box.</p> <p>Compass Rose oriented to slave variation.</p> <p>Operates less than continuous or On-Request</p> <p>Transcribed Weather Broadcast (TWEB)</p> <p><b>VOR</b></p> <p> <b>AMEDEE</b> 109.0 Ch 27 AHC </p> <p>Underline indicates no voice on this frequency.</p> <p><b>VORTAC</b></p> <p>When an NDB NAVAID shares the same name and Morse Code as the VOR NAVAID the frequency can be colocated inside the same box to conserve space.</p> <p>NDB Frequency Name ASOS/AWOS</p> <p> <b>PONTIAC</b> 379 111.0 Ch 47 PTK  Morse Code</p> <p>Frequency Channel Identifier</p> <p><b>VOR-DME</b></p> <p> <b>SALEM</b> 114.3 Ch 90 SVM </p> <p>Hazardous Inflight Weather Advisory Service (HIWAS)</p>
<p><b>NON-DIRECTIONAL RADIOBEACON (NDB)</b></p>	 <p><b>MONTAGUE</b> 382 MOG </p> <p>Underline indicates no voice on this frequency.</p> <p><b>NDB-DME</b></p> <p> <b>GAMBELL</b> 369 GAM  DME Ch 92 (114.5)</p>

RADIO AIDS TO NAVIGATION	
<p>NAVAIDS USED TO DEFINE CLASS B AIRSPACE</p>	<p>ILS - DME</p>
<p>BROADCAST STATIONS (BS)</p> <p><i>On request by the proper authority or when a VFR Check-point.</i></p>	
<p>FLIGHT SERVICE STATION (FSS)</p>	<p>Heavy line box indicates Flight Service Station (FSS). Frequencies 121.5, 122.2, 243.0 and 255.4 (Canada - 121.5, 126.7 and 243.0) are normally available at all FSS's and are not shown above boxes. All other frequencies are shown. For Local Airport Advisory use FSS frequency 123.6. R - Receive only</p> <p>No NAVAID of the same name as FSS</p> <p>or</p> <p>NAVAID same name as FSS but not an RCO</p> <p>Frequencies above thin line box are remot to NAVAID site. Other frequencies at FSS providing voice communication may be available determined by altitude and terrain. Consult Airport/Facility Directory for complete information.</p> <p>Thin line box without frequencies and controlling FSS name indicates no FSS frequencies available.</p>
<p>REMOTE COMMUNICATIONS OUTLET (RCO)</p>	<p>FSS providing voice communication</p>

AIRSPACE INFORMATION	
<p>CLASS B AIRSPACE</p> <p><i>Appropriate notes as required may be shown. (Mode C see FAR 91.215/AIM)</i></p> <p><i>All mileages are nautical (NM)</i></p> <p><i>All radials are magnetic.</i></p>	<p><b>LAS VEGAS CLASS B</b></p> <p>NAVAID identifier and distance from facility.</p> <p>NAVAID identifier and radial from facility.</p> <p><b>CLASS B SURFACE AREA</b></p> <p><b>70</b> - Ceiling of Class B in hundreds of feet MSL <b>SFC</b> - Floor of Class B in hundreds of feet MSL</p>
<p>CLASS C AIRSPACE</p> <p><i>Appropriate notes as required may be shown. (Mode C see FAR 91.215/AIM)</i></p>	<p><b>BURBANK CLASS C</b></p> <p>See NOTAMs/Directory for Class C eff hrs</p> <p><b>CLASS C SURFACE AREA</b></p> <p><b>70</b> - Ceiling of Class C in hundreds of feet MSL <b>30</b> - Floor of Class C in hundreds of feet MSL</p> <p><b>T</b> - Ceiling is to but not including floor of Class B <b>SFC</b> - Surface</p>
<p>CLASS D AIRSPACE</p>	<p>See NOTAMs/Directory for Class D eff hrs</p> <p>See NOTAMs/Directory for Class D/E (sfc) eff hrs</p> <p>(A minus in front of the figure is used to indicate "from surface to but not including...")</p> <p>ALTITUDES IN HUNDREDS OF FEET MSL</p>



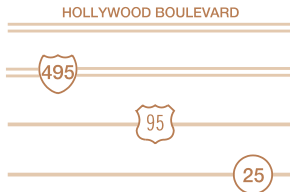
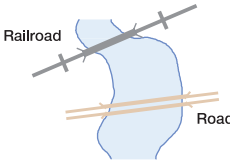
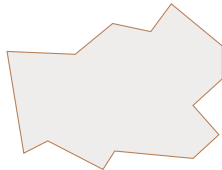


<b>AIRSPACE INFORMATION</b>	
<p><b>CLASS E SURFACE (SFC) AIRSPACE</b></p>	<p>See NOTAMs/Directory for Class E (sfc) eff hrs</p> 
<p><b>SPECIAL AIRSPACE AREAS</b></p> <p><b>FLIGHT RESTRICTED ZONE RELATING TO NATIONAL SECURITY</b></p> <p><b>Example: Washington DC</b></p> <p><i>Appropriate notes as required may be shown.</i></p>	 <div style="border: 1px solid brown; padding: 5px; margin-top: 10px;"> <p><b>Washington DC Metropolitan Area Air Defense Identification Zone/Flight Restricted Zone restrictions are in effect.</b>                  Special regulations apply to all aircraft operations below Flight Level 180 in the Washington DC Metropolitan Area. Pilots should contact a local FSS for NOTAM information prior to flight in the Washington DC Metropolitan Area.</p> </div>
<p><b>AIR DEFENSE IDENTIFICATION ZONE (ADIZ)</b></p> <p><i>Note. Delimiting line not shown when it coincides with International Boundary, projection lines or other linear features.</i></p>	<p style="text-align: center;"><b>WASHINGTON DC METROPOLITAN ADIZ</b></p> 






<b>AIRSPACE INFORMATION</b>																							
<p><b>CANADIAN AIRSPACE</b></p> <p><i>Appropriate notes as required may be shown.</i></p>	<p style="text-align: center;">TCA Class C/D</p>  <p><b>80</b> - Ceiling of TCA Class C/D in hundreds of feet MSL  <b>40</b> - Floor of TCA Class C/D in hundreds of feet MSL</p> <p style="text-align: center;">Class C or D Control Zone</p>  <p style="text-align: center;">ALTITUDE IN HUNDREDS OF FEET MSL</p> <p style="text-align: center;">Class E Control Zone</p>  <div style="border: 1px solid blue; padding: 5px; margin-top: 10px;"> <p>AIRSPACE CLASSIFICATION (SEE CANADA FLIGHT SUPPLEMENT) AND OPERATIONAL REQUIREMENTS (SEE DOD AREA PLANNING AP/1) MAY DIFFER BETWEEN CANADA AND UNITED STATES</p> </div> <div style="border: 1px solid blue; padding: 5px; margin-top: 10px;"> <p>NOTE: REFER TO CURRENT CANADIAN CHARTS AND FLIGHT INFORMATION PUBLICATIONS FOR INFORMATION WITHIN CANADIAN AIRSPACE</p> </div>																						
<p><b>HELICOPTER ROUTES</b></p>	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Route Name</th> <th style="text-align: left;">Tower Frequency</th> <th style="text-align: left;">One-way Route</th> <th style="text-align: left;">Altitude Changeover Point</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid blue; padding: 2px;">MARRIOT</td> <td style="border: 1px solid blue; padding: 2px;">118.3</td> <td style="text-align: center;">➔</td> <td style="border: 1px solid blue; padding: 2px;"> </td> </tr> </tbody> </table> <p style="text-align: center;">Reporting or Holding Points <b>BAHAI</b> Name</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">▲</td> <td style="text-align: center;">▲</td> <td style="width: 50px;"></td> <td style="text-align: right;">Name</td> </tr> <tr> <td style="text-align: center;">Non-Compulsory</td> <td style="text-align: center;">Compulsory</td> <td></td> <td></td> </tr> </table> <p>Secondary Route: </p> <p>Transition Route: </p> <p>Police Zone:  <b>ZONE 8</b> / 1000</p> <p style="text-align: center;">Recommended Route Altitude</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;"><u>500</u></td> <td>Maximum</td> </tr> <tr> <td style="text-align: center;"><u>500</u></td> <td>Minimum</td> </tr> <tr> <td style="text-align: center;"><u>500</u></td> <td>Recommended</td> </tr> </table>	Route Name	Tower Frequency	One-way Route	Altitude Changeover Point	MARRIOT	118.3	➔		▲	▲		Name	Non-Compulsory	Compulsory			<u>500</u>	Maximum	<u>500</u>	Minimum	<u>500</u>	Recommended
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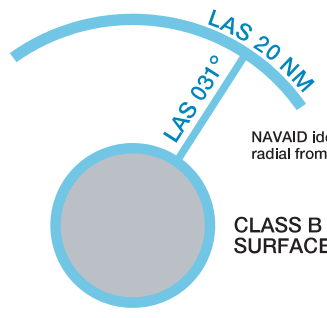



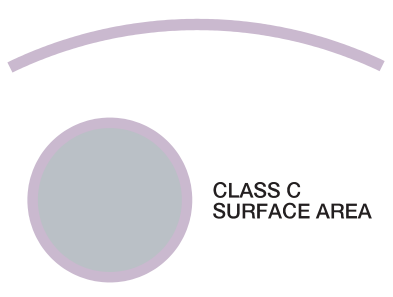


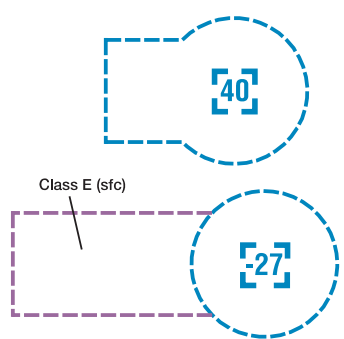

AIRSPACE INFORMATION	
<p><b>SPECIAL USE AIRSPACE</b></p> <p><i>Only the airspace effective below 18,000 feet MSL is shown.</i></p> <p><i>The type of area shall be spelled out in large areas if space permits.</i></p>	<p>P-56 or R-6401      W-518 or A-631</p> <p>PROHIBITED, RESTRICTED, WARNING or ALERT AREA</p> <p>FALCON 1 MOA</p> <p>MILITARY OPERATIONS AREA (MOA)</p>
<p><b>MILITARY TRAINING ROUTES (MTR)</b></p>	<p>← VR269</p>
<p><b>SPECIAL AIR TRAFFIC RULES / AIRPORT TRAFFIC AREAS (FAR PART 93)</b></p> <p><i>Appropriate boxed notes as required shown adjacent to area.</i></p>	<p><b>SPECIAL NOTICE</b> Pilots are required to obtain an ATC clearance prior to entering this area.</p>
<p><b>MODE C (FAR 91.215)</b></p> <p><i>Appropriate notes as required may be shown.</i></p>	<p>MODE C</p> <p>30 NM</p>
<p><b>MISCELLANEOUS AIRSPACE AREAS</b></p> <p>Parachute Jumping Area with Frequency</p> <p>Glider Operating Area</p> <p>Ultralight Activity</p> <p>Hang Glider Activity</p>	<p>122.9</p>
<p><b>SPECIAL CONSERVATION AREAS</b></p> <p>National Park, Wildlife Refuge, Primitive and Wilderness Areas, etc.</p>	<p>HAVASU LAKE NATIONAL WILDLIFE REFUGE</p>
<p><b>TERMINAL RADAR SERVICE AREA (TRSA)</b></p> <p><i>Appropriate notes as required may be shown.</i></p>	<p><b>PALM SPRINGS TRSA</b></p> <p>SEE TWR FREQ TAB</p> <p><b>80</b> - Ceiling of TRSA in hundreds of feet MSL <b>40</b> - Floor of TRSA in hundreds of feet MSL</p>

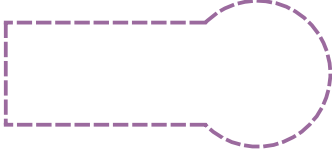
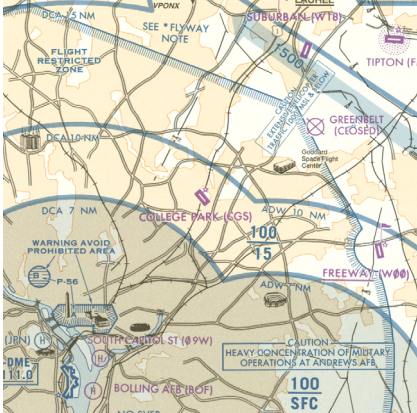

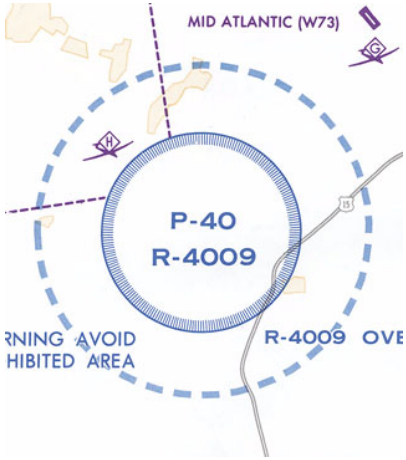
NAVIGATIONAL AND PROCEDURAL INFORMATION	
<p><b>VFR CHECKPOINTS</b></p>	<p>Pictorial</p> <p>STATE CAPITOL</p> <p>STACKS</p> <p>122.2 FRANCIS PEAK RCO CEDAR CITY</p> <p>(Pvt) LEWIS 420</p>
<p><b>VFR WAYPOINTS</b></p> <p>Stand-Alone</p> <p>Collocated with VFR Checkpoint</p>	<p>VPXYZ</p> <p>NAME (VPXYZ)</p>
<p><b>OBSTRUCTIONS</b></p>	<p>bldg</p> <p>1000' AGL and higher</p> <p>300' AGL and higher</p> <p>Group Obstruction</p> <p>Obstruction with high-intensity lights.</p> <p>2049 (1149) UC</p> <p>Elevation of the top above mean sea level</p> <p>Height above ground Under Construction or reported and position / elevation unverified</p>
<p><b>MAXIMUM ELEVATION FIGURE (MEF)</b></p> <p><i>(see page 2 for explanation).</i></p>	<p><b>124</b></p>
<p><b>NAVIGATION DATA</b></p>	<p>N38°56.32' W76°36.91'</p> <p>POWER PLANT N32°27.12' W70°15.73'</p> <p>ATL 25 NM</p> <p>ATL 033/25 NM N33°59.18' W84°10.62'</p> <p>ATL 033°</p>

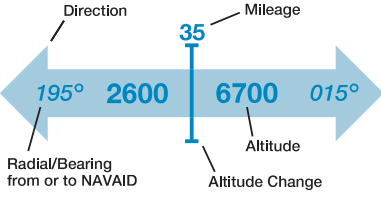
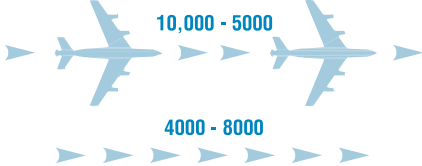





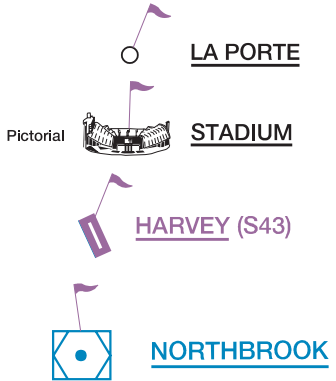

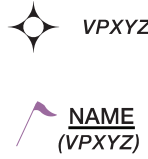
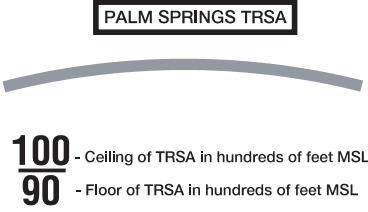
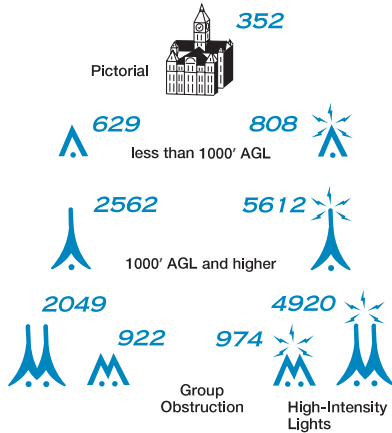

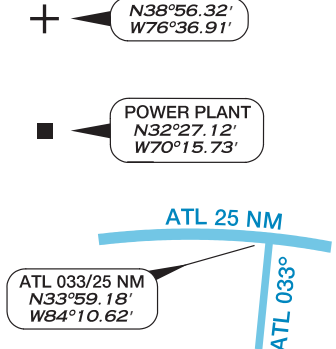
NAVIGATIONAL AND PROCEDURAL INFORMATION	
WARNING AND CAUTION NOTES	<p><b>WARNING</b> Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward.</p> <p><b>CAUTION:</b> Be prepared for loss of horizontal reference at low altitude over lake during hazy conditions and at night.</p>
LOCAL MAGNETIC NOTES	<p><b>Unreliability Notes</b></p> <p>Magnetic disturbance of as much as 78° exists at ground level and 10° or more at 3000 feet above ground level in this vicinity.</p>
CULTURE	
RAILROADS	<p>Single Track</p>  <p>Double Track</p> 
ROADS	<p>Dual-Lane: Divided Highways Major Boulevards &amp; Major Streets</p> <p>Primary</p> 
BRIDGES	
POPULATED PLACES	<p>Built-up Areas</p> 
BOUNDARIES	<p>International</p>  <p>State and Provincial</p> 

CULTURE	
POWER TRANSMISSION LINES	
PROMINENT PICTORIALS	<p>TEMPLE</p> 
LANDMARKS	<ul style="list-style-type: none"> <li>■ Landmark Feature-stadium, factory, school, etc.</li> <li>⚡ Mines or Quarries</li> <li>🏟 Race Track</li> <li>🎪 Outdoor Theater</li> <li>● Tank-water, oil or gas</li> </ul>
HYDROGRAPHY	
SHORELINES	
MAJOR LAKES AND RIVERS	
RESERVOIRS	
RELIEF	
SPOT ELEVATIONS	<p>Position Accurate</p> <p>● 405</p>

AIRPORTS		AIRSPACE INFORMATION	
<p><b>LANDPLANE</b></p> <p><i>No distinction is made between airports with services and those without services. Runways may be exaggerated to clearly portray the pattern. Hard-surfaced runways which are closed but still exist are included in the charted pattern.</i></p> <p><i>FAR 91 - Fixed wing special VFR operations prohibited.</i></p> <p><i>(Pvt) - Non-public use having emergency or landmark value.</i></p>	 <p>NO SVFR RIVERSIDE (RAL)</p> <p>Paved Runways</p>  <p>AGUA DOLCE (L70)</p> <p>Unpaved Runways</p>  <p>(Pvt) COMPTON</p>	<p><b>CLASS B AIRSPACE</b></p> <p><i>Appropriate notes as required may be shown.</i></p> <p><i>(Mode C see FAR 91.215 /AIM)</i></p> <p><i>All mileages are nautical (NM).</i></p> <p><i>All radials are magnetic.</i></p>	<p><b>LAS VEGAS CLASS B</b></p>  <p>NAVAID identifier and distance from facility</p> <p>NAVAID identifier and radial from facility</p> <p><b>CLASS B SURFACE AREA</b></p> <p><b>80</b> - Ceiling of Class B in hundreds of feet MSL</p> <p><b>40</b> - Floor of Class B in hundreds of feet MSL</p>
RADIO AIDS TO NAVIGATION			
<p><b>VHF OMNI-DIRECTIONAL RADIO RANGE (VOR)</b></p> <p>VOR</p> <p>VORTAC</p> <p>VOR-DME</p>	 <p>Identifier Frequency</p> <p><b>MAL 109.6</b></p>  <p><b>GCY 113.4</b></p>  <p><b>FHM 114.2</b></p> <p>Underline indicates no voice on this frequency</p>	<p><b>CLASS C AIRSPACE</b></p> <p><i>Appropriate notes as required may be shown.</i></p> <p><i>(Mode C see FAR 91.215 /AIM)</i></p>	<p><b>EL TORO CLASS C</b></p>  <p><b>CLASS C SURFACE AREA</b></p> <p><b>48</b> - Ceiling of Class C in hundreds of feet MSL</p> <p><b>30</b> - Floor of Class C in hundreds of feet MSL</p> <p><b>T</b> - Ceiling is to but not including floor of Class B</p> <p><b>SFC</b> - Surface</p>
<p><b>NON-DIRECTIONAL RADIOBEACON (NDB)</b></p> <p>NDB-DME</p>	 <p><b>WDP 396</b></p> <p>Underline indicates no voice on this frequency</p>  <p><b>LSJ 206</b></p>	<p><b>CLASS D AIRSPACE</b></p>	 <p>Class E (sfc)</p> <p>(A minus in front of the figure is used to indicate "from surface to but not including...")</p> <p>ALTITUDE IN HUNDREDS OF FEET MSL</p>
<p><b>NAVAIDS USED TO DEFINE CLASS B AIRSPACE</b></p>	 <p><b>SALT LAKE CITY DME ANTENNA (I-BNT) Ch 52 (111.5)</b></p>		

AIRSPACE INFORMATION	
<p><b>CLASS E SURFACE (SFC) AIRSPACE</b></p> 	
<p><b>SPECIAL AIRSPACE AREAS</b></p> <p><b>FLIGHT RESTRICTED ZONE RELATING TO NATIONAL SECURITY</b></p> <p>Example: Washington DC</p> <p><i>Appropriate notes as required may be shown.</i></p>	 <div style="border: 1px solid purple; padding: 5px; margin-top: 10px;"> <p><b>Washington DC Metropolitan Area Air Defense Identification Zone/Flight Restricted Zone restrictions are in effect.</b> Special regulations apply to all aircraft operations below Flight Level 180 in the Washington DC Metropolitan Area. Pilots should contact a local FSS for NOTAM information prior to flight in the Washington DC Metropolitan Area.</p> </div>
<p><b>AIR DEFENSE IDENTIFICATION ZONE (ADIZ)</b></p> <p><i>Note. Delimiting line not shown when it coincides with International Boundary, projection lines or other linear features.</i></p>	<p style="text-align: center;"><b>WASHINGTON DC METROPOLITAN ADIZ</b></p> 
<p><b>TEMPORARY FLIGHT RESTRICTION (TFR) RELATING TO NATIONAL SECURITY</b></p> <p>Example:</p> <p><i>Appropriate notes as required may be shown.</i></p>	 <div style="border: 1px solid blue; padding: 5px; margin-top: 10px;"> <p><b>CAUTION</b> P-40 AND R-4009 EXPANDED BY TEMPORARY FLIGHT RESTRICTION. CONTACT AFSS FOR LATEST STATUS AND NOTAMS.</p> </div>

AIRSPACE INFORMATION	
<p><b>SUGGESTED VFR FLYWAY AND ALTITUDE</b></p> 	
<p><b>IFR ROUTES</b></p> <p><i>Appropriate notes as required may be shown.</i></p> <p>Arrival</p> <p>Departure</p>	
<p><b>TRANSITION ROUTES</b></p> <p><i>Appropriate notes as required may be shown.</i></p> <p>Uni-directional</p> <p>Bi-directional</p>	<div style="border: 1px solid purple; padding: 5px; margin-bottom: 10px;"> <p>VFR TRANSITION ROUTE ATC CLEARANCE REQUIRED SEE SHOWBOAT GRAPHIC ON SIDE PANEL</p> </div> 
<p><b>SPECIAL USE AIRSPACE</b></p> <p><i>Only the airspace effective below 18,000 feet MSL is shown.</i></p>	<div style="border: 1px solid blue; padding: 5px; margin-bottom: 10px;"> <p>P-56 or R-6401      W-518 or A-631</p> </div> <p>PROHIBITED, RESTRICTED ALERT or WARNING AREA</p> <div style="border: 1px solid purple; padding: 5px; margin-bottom: 10px;"> <p>FALCON 1 MOA</p> </div> <p>MILITARY OPERATIONS AREA (MOA)</p>
<p><b>MILITARY TRAINING ROUTES (MTR)</b></p>	

AIRSPACE INFORMATION		NAVIGATIONAL AND PROCEDURAL INFORMATION	
<p><b>SPECIAL AIR TRAFFIC RULES / AIRPORT TRAFFIC AREAS (FAR Part 93)</b></p> <p><i>Appropriate boxed note as required shown adjacent to area.</i></p>		<p><b>VFR CHECKPOINTS</b></p>	
<p><b>MODE C (FAR 91.215)</b></p> <p><i>Appropriate notes as required may be shown.</i></p>		<p><b>VFR WAYPOINTS</b></p> <p>Stand-Alone</p> <p>Collocated with VFR Checkpoint</p>	
<p><b>TERMINAL RADAR SERVICE AREA (TRSA)</b></p>		<p><b>OBSTRUCTIONS</b></p> <p><i>Only those obstacles specified by the local ATC Facility shall be shown.</i></p> <p><i>Above Ground Level (AGL) heights are not shown.</i></p>	
<p><b>MISCELLANEOUS AIRSPACE AREAS</b></p> <p>Parachute Jumping Area</p> <p>Glider Operating Area</p> <p>Ultralight Activity</p> <p>Hang Glider Activity</p>		<p><b>NAVIGATIONAL DATA</b></p>	

CULTURE	
RAILROADS  Single and Multiple Tracks	
ROADS  Dual-Lane Divided Highway  Primary	
POPULATED PLACES  Built-up Areas  Towns	
BOUNDARIES  International	
POWER TRANSMISSION LINES	
PROMINENT PICTORIALS	
LANDMARKS	
HYDROGRAPHY	
SHORELINES	
MAJOR LAKES AND RIVERS	
RESERVOIRS	

RELIEF	
Spot Elevations  Position Accurate Mountain Peaks	