



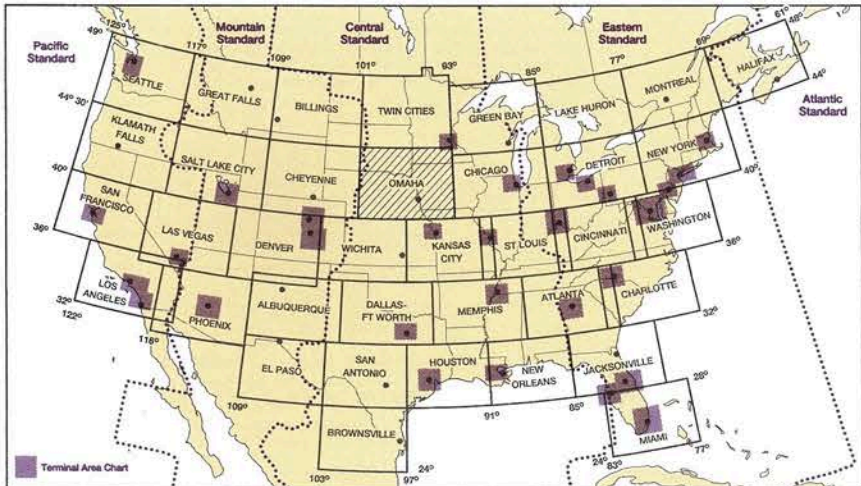
Federal Aviation
Administration

TM

89TH EDITION EFFECTIVE 0901Z **6 FEB 2014**
TO 0901Z **24 JUL 2014**

Includes airspace amendments effective **6 FEB 2014**
and all other aeronautical data received by **12 DEC 2013**

Information on this chart will change; consolidated updates of chart changes are available every 56 days in the AIRPORT/
FACILITY DIRECTORY Chart Bulletin section (online at <http://aeronav.faa.gov>). Also consult appropriate NOTICES TO
AIRMEN (NOTAMs) and other FLIGHT INFORMATION PUBLICATIONS (FLIPs) for the latest changes.



PUBLISHED IN ACCORDANCE WITH INTERAGENCY AIR CARTOGRAPHIC COMMITTEE SPECIFICATIONS AND AGREEMENTS, APPROVED BY: DEPARTMENT OF DEFENSE * FEDERAL AVIATION ADMINISTRATION

Warning: Refer to current foreign charts and flight information publications for information within foreign airspace.



FAA Product ID: SOMA



NSN 7641014100155

NGA REF. NO. SECXXOMAHA



EFF. DATE 14037

Airports having Control Towers are shown in Blue, all others in Magenta. Consult Airport/Facility Directory (A/FD) for details involving airport lighting, navigation aids, and services. All times are local. For additional symbol information refer to the Chart User's Guide.

AIRPORTS

- Other than hard-surfaced runways
 - Hard-surfaced runways 1500 ft. to 8069 ft. in length
 - Hard-surfaced runways greater than 8069 ft. or some multiple runways less than 8069 ft.
 - Open dot within hard-surfaced runway configuration indicates approximate VOR, VOR-DME, or VORTAC location.
- All recognizable hard-surfaced runways, including those closed, are shown for visual identification. Airports may be public or private.

ADDITIONAL AIRPORT INFORMATION

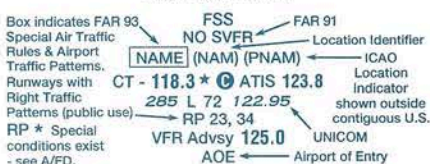
- Private ("Pvt") - Non-public use having emergency or landmark value
- Military - Other than hard-surfaced; all military airports are identified by abbreviations AFB, NAS, AAF, etc. DoD users, for complete airport information consult DoD FLIP.
- Helicopter Selected
- Unverified
- Abandoned - paved having landmark value, 3000 ft. or greater
- Ultralight Flight Park Selected

Services - fuel available and field tended during normal working hours depicted by use of ticks around basic airport symbol. (Normal working hours are Mon thru Fri 10:00 A.M. to 4:00 P.M.) Consult A/FD for service availability at airports with hard-surfaced runways greater than 8069 ft.

★ Rotating airport beacon in operation Sunset to Sunrise

OBJECTIONABLE - Airport may adversely affect airspace use.

AIRPORT DATA



- Box indicates FAR 93 Special Air Traffic Rules & Airport Traffic Patterns.
 - Runways with Right Traffic Patterns (public use)
 - RP * Special conditions exist - see A/FD.
 - FSS - Flight Service Station
 - NO SVFR - Fixed-wing special VFR flight is prohibited.
 - CT - 118.3 - Control Tower (CT) - primary frequency
 - * - Star indicates operation part-time. See tower frequencies tabulation for hours of operation.
 - CTAF - Follows the Common Traffic Advisory Frequency (CTAF)
 - ATIS 123.8 - Automatic Terminal Information Service
 - ASOS/AWOS 135.42 - Automated Surface Weather Observing Systems (shown where full-time ATIS not available). Some ASOS/AWOS facilities may not be located at airports.
 - UNICOM - Aeronautical advisory station
 - VFR Advsy - VFR Advisory Service shown where full-time ATIS not available and frequency is other than primary CT frequency.
 - 285 - Elevation in feet
 - L - Lighting in operation Sunset to Sunrise
 - *L - Lighting limitations exist; refer to Airport/Facility Directory.
 - 72 - Length of longest runway in hundreds of feet; usable length may be less.
- 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.

AIRPORT TRAFFIC SERVICE AND AIRSPACE INFORMATION

Only the controlled and reserved airspace effective below 18,000 ft. MSL are shown on this chart.

- Class B Airspace
- Class C Airspace (Mode C - see FAR 91.215/AIM.)
- Class D Airspace
- Ceiling of Class D Airspace in hundreds of feet (A minus ceiling value indicates surface up to but not including that value.)
- Class E (sf) Airspace
- Class E Airspace with floor 700 ft. above surface that laterally abuts Class G Airspace.
- Class E Airspace with floor 700 ft. above surface that laterally abuts 1200 ft. or higher Class E Airspace
- Class E Airspace with floor 1200 ft. or greater above surface that laterally abuts Class G Airspace

2400 MSL Differentiates floors of Class E Airspace greater than 700 ft. above surface.

4500 MSL

Class E Airspace exists at 1200' AGL unless otherwise designated as shown above.

Class E Airspace low altitude Federal Airways are indicated by center line.

Intersection - Arrows are directed towards facilities which establish intersection.

132° V 69 169 Total mileage between NAVAIDS on direct Airways

Class E Airspace low altitude RNAV Routes are indicated by center line.

T 319 TK 313 (Helicopter Only) RNAV Waypoint

Prohibited, Restricted, and Warning Areas; Canadian Advisory, Danger, and Restricted Areas

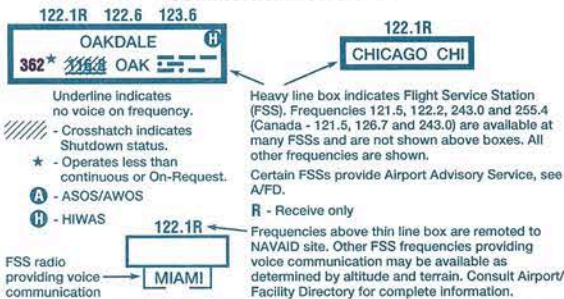
Alert Area and MOA - Military Operations Area Special Airport Traffic Area (See FAR 93 for details.)

ADIZ - Air Defense Identification Zone

MODE C (See FAR 91.215/AIM.) National Security Area Terminal Radar Service Area (TRSA)

MTR - Military Training Route

COMMUNICATION BOXES



- Underline indicates no voice on frequency.
- Crosshatch indicates Shutdown status.
- * - Operates less than continuous or On-Request.
- A - ASOS/AWOS
- H - HIWAS
- 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 available at many FSSs and are not shown above boxes. All other frequencies are shown.
- Certain FSSs provide Airport Advisory Service, see A/FD.
- R - Receive only
- Frequencies above thin line box are remoted to NAVAID site. Other FSS frequencies providing voice communication may be available as determined by altitude and terrain. Consult Airport/Facility Directory for complete information.

RADIO AIDS TO NAVIGATION

- VHF OMNI RANGE (VOR)
- VOR-DME
- VORTAC
- Other facilities, i.e., FSS Outlet, RCO, etc.
- Non-Directional Radio Beacon (NDB)
- NDB - DME

OBSTRUCTIONS

- 1000 ft and higher AGL
- Below 1000 ft AGL
- Wind Turbine
- Wind Turbine Farm
- Group Obstruction
- Obstruction with high-intensity lights; may operate part-time
- Elevation of the top above mean sea level
- Height above ground
- Under construction or reported; position and elevation unverified
- NOTICE: Guy wires may extend outward from structures.

MISCELLANEOUS

- Hang Glider Activity
- Ultralight Activity
- Parachute Jumping Area (See Airport/Facility Directory.)
- VPXYZ
- VFR Waypoints (See Airport/Facility Directory for latitude/longitude.)
- NAME (VPXYZ)
- Marine Light
- Unmanned Aircraft Activity

TOPOGRAPHIC INFORMATION

- Power Transmission Line
- Mountain Pass
- Aerial Cable
- 11823 (Elevation of Pass)
- Lookout Tower
- 618 (Elevation Base of Tower)
- Pass symbol does not indicate a recommended route or direction of flight and pass elevation does not indicate a recommended clearance altitude. Hazardous flight conditions may exist within and near mountain passes.





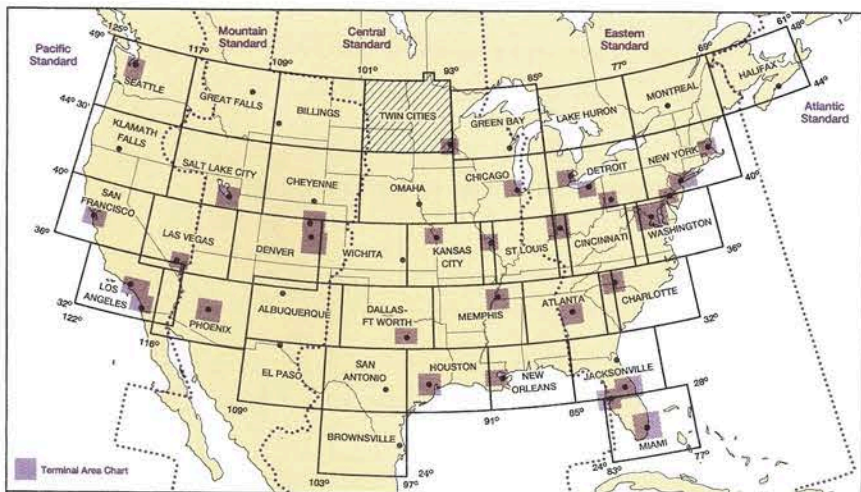
Federal Aviation Administration

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87TH EDITION EFFECTIVE 0901Z 9 JAN 2014 TO 0901Z 26 JUN 2014

Includes airspace amendments effective 12 DEC 2013 and all other aeronautical data received by 14 NOV 2013

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FAA Product ID: STC



NSN 7641014100145

NGA REF. NO. SECXXTWINCITIES



EFF. DATE 14009

TWIN CITIES LEGEND

Airports having **Control Towers** are shown in **Blue**, all others in **Magenta**. Consult Airport/Facility Directory (A/FD) for details involving airport lighting, navigation aids, and services. All times are local. For additional symbol information refer to the Chart User's Guide.

AIRPORTS

- Other than hard-surfaced runways
 - Seaplane Base
 - Hard-surfaced runways 1500 ft. to 8069 ft. in length
 - Hard-surfaced runways greater than 8069 ft. or some multiple runways less than 8069 ft.
 - Open dot within hard-surfaced runway configuration indicates approximate VOR, VOR-DME, or VORTAC location.
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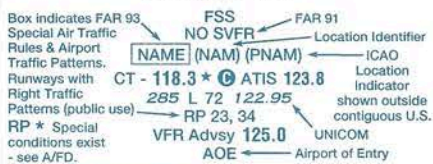
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- Helicopter Selected
- Unverified
- Abandoned - paved having landmark value, 3000 ft. or greater
- Ultraflight Flight Park Selected

Services - fuel available and field tended during normal working hours depicted by use of ticks around basic airport symbol. (Normal working hours are Mon thru Fri 10:00 A.M. to 4:00 P.M.) Consult A/FD for service availability at airports with hard-surfaced runways greater than 8069 ft.

★ Rotating airport beacon in operation Sunset to Sunrise
OBJECTIONABLE - Airport may adversely affect airspace use.

AIRPORT DATA



- Box indicates FAR 93
 - FSS - Flight Service Station
 - NO SVFR - Fixed-wing special VFR flight is prohibited.
 - CT - 118.3 - Control Tower (CT) - primary frequency
 - * - Star indicates operation part-time. See tower frequencies tabulation for hours of operation.
 - Ⓢ - Follows the Common Traffic Advisory Frequency (CTAF)
 - ATIS 123.8 - Automatic Terminal Information Service
 - ASOS/AWOS 135.42 - Automated Surface Weather Observing Systems (shown where full-time ATIS not available). Some ASOS/AWOS facilities may not be located at airports.
 - UNICOM - Aeronautical advisory station
 - VFR Advsy - VFR Advisory Service shown where full-time ATIS not available and frequency is other than primary CT frequency.
 - 285 - Elevation in feet
 - L - Lighting in operation Sunset to Sunrise
 - *L - Lighting limitations exist; refer to Airport/Facility Directory.
 - 72 - Length of longest runway in hundreds of feet; usable length may be less.
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AIRPORT TRAFFIC SERVICE AND AIRSPACE INFORMATION

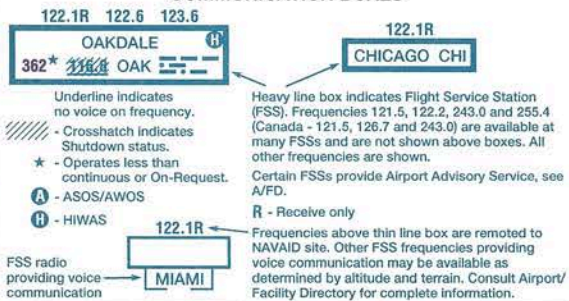
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- Class C Airspace (Mode C - see FAR 91.215/AIM.)
- Class D Airspace
- Ceiling of Class D Airspace in hundreds of feet (A minus ceiling value indicates surface up to but not including that value.)
- Class E (stc) Airspace
- Class E Airspace with floor 700 ft. above surface that laterally abuts Class G Airspace.
- Class E Airspace with floor 700 ft. above surface that laterally abuts 1200 ft. or higher Class E Airspace
- Class E Airspace with floor 1200 ft. or greater above surface that laterally abuts Class G Airspace

- 2400 MSL Differentiates floors of Class E Airspace greater than 700 ft. above surface.
- 4500 MSL Class E Airspace exists at 1200' AGL unless otherwise designated as shown above. Class E Airspace low altitude Federal Airways are indicated by center line. Intersection - Arrows are directed towards facilities which establish intersection.
- 132° V 69 169 Total mileage between NAVAIDs on direct Airways Class E Airspace low altitude RNAV Routes are indicated by center line.

- T 319 TK 313 (Helicopter Only) RNAV Waypoint
- Prohibited, Restricted, and Warning Areas; Canadian Advisory, Danger, and Restricted Areas Alert Area and MOA - Military Operations Area Special Airport Traffic Area (See FAR 93 for details.)
- ADIZ - Air Defense Identification Zone MODE C (See FAR 91.215/AIM.) National Security Area Terminal Radar Service Area (TRSA) MTR - Military Training Route

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

RADIO AIDS TO NAVIGATION

- VHF OMNI RANGE (VOR)
- VOR-DME
- VORTAC
- Other facilities, i.e., FSS Outlet, RCO, etc.
- Non-Directional Radio Beacon (NDB)
- NDB - DME

OBSTRUCTIONS

- 1000 ft and higher AGL
- Below 1000 ft AGL
- Wind Turbine
- Wind Turbine Farm
- Group Obstruction
- Obstruction with high-intensity lights; may operate part-time
- 2894' UC 2049 (1149) UC Elevation of the top above mean sea level Height above ground Under construction or reported; position and elevation unverified NOTICE: Guy wires may extend outward from structures.

MISCELLANEOUS

- Hang Glider Activity
- Ultraflight Activity
- Parachute Jumping Area (See Airport/Facility Directory.)
- Glider Operations
- Unmanned Aircraft Activity
- VPXYZ VFR Waypoints (See Airport/Facility Directory for latitude/longitude.)
- NAME (VPXYZ)
- Marine Light
- Isogonic Line (2010 VALUE) -1°E

TOPOGRAPHIC INFORMATION

- Power Transmission Line
- Mountain Pass 11823 (Elevation of Pass)
- Aerial Cable
- Pass symbol does not indicate a recommended route or direction of flight and pass elevation does not indicate a recommended clearance altitude. Hazardous flight conditions may exist within and near mountain passes.
- Lookout Tower 618 (Elevation Base of Tower)

