LOS ANGELES
LEGEND

SOUTH · NORTH

Airports having Control Towers are shown in Blue, all others in Magenta. Consult Chart Supplement 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, 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 landmark value

Military - Other than hard-surfaced; all military airports are identified by abbreviations AFB, NAS, AAF, etc.

Heliport Selected · Unverified · Abandoned - paved having landmark value, 3000 ft. or greater · Ultralight Flight Park Selected

Fuel availability indicated by use of tick marks around basic airport symbol. Consult Supplement for details and 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 Supplement.

FSS · NO SVFR · FAR 91 · Location Identifier · NAME (NAM) (PNAM) · ICAO Location Indicator shown outside contiguous U.S. · CT - 118.3 ★ Ⓒ ATIS 123.8 · 285 L 72 122.95 · RP 23, 34 · UNICOM · VFR Advsy 125.0 · WX CAM — Weather Camera (AK) · AOE — Airport of Entry

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

AFIS 135.2 - Automatic Flight Information Service (AK)

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 Supplement.

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.

- Class B Airspace
- Class C Airspace (Mode C - see FAR 91.215/AIM.)
- Class D Airspace
- [40] Ceiling of Class D Airspace in hundreds of feet (A minus ceiling value indicates surface up to but not including that value.)
- Class E (sfc) Airspace
- CLASS G · 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 · 4500 MSL · Differentiates floors of Class E Airspace greater than 700 ft. above surface.

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

Class E Airspace low altitude Federal Airways and RNAV 2 Routes 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

T 319 · TK 313 · (Helicopter Only) · RNAV Waypoint

- Prohibited, Restricted, and Warning Areas
- *Alert Area and Military Operations Area (MOA)

*Alert Areas do not extend into Class A, B, C and D airspace, or Class E airport surface areas.

- Special Airport Traffic Area (See FAR 93 for details.)
- National Defense Airspace
- Temporary Flight Restriction Area
- ADIZ - Air Defense Identification Zone
- MODE C (See FAR 91.215/AIM.)
- National Security Area
- Terminal Radar Service Area (TRSA)
- IR211 · MTR - Military Training Route

COMMUNICATION BOXES

122.1R 122.6 123.6 · OAKDALE Ⓐ · 362★ ~~116.8~~ OAK

Underline indicates no voice on frequency.

- Crosshatch indicates Shutdown status.

★ - Operates less than continuous or On-Request.

Ⓐ - ASOS/AWOS

122.6 · CHICAGO CHI

Heavy line box indicates Flight Service Station (FSS). Frequencies 122.2 and 255.4 (Conterminous U.S.) and 121.5, 122.2, 243.0 and 255.4 (Alaska) are available at many FSSs and are not shown above boxes. All other frequencies are shown.

R - Receive only

122.1R · MIAMI · FSS radio providing voice communication

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 Supplement for complete information.

RADIO AIDS TO NAVIGATION

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

OBSTRUCTIONS

1000 ft and higher AGL

Above 200 ft & below 1000 ft AGL (above 299 ft AGL in urban area)

Wind Turbine · Group Obstruction · Wind Turbine Farm · 2894' UC

Obstruction with high-intensity lights; may operate part-time

Elevation of the top above mean sea level — 2049

Height above ground — (1149)

Under construction or reported; position and elevation unverified — UC

NOTICE: Guy wires may extend outward from structures.

MISCELLANEOUS

- A - Aerobatic Practice Area (See Supplement.)
- G - Glider Operations
- H - Hang Glider Activity
- U - Ultralight Activity
- UA - Unmanned Aircraft Activity
- Parachute Jumping Area (See Supplement.)
- STADIUM · Intermittent TFR site (within 3 NM, up to & incl 3000' AGL)
- Marine Light
- VPXYZ · VFR Waypoints
- Space Launch Activity Area
- −1°E− · Isogonic Line (2020 VALUE)
- NAME (VPXYZ)

TOPOGRAPHIC INFORMATION

- Power Transmission Line
- Aerial Cable
- Lookout Tower · 618 (Elevation Base of Tower)
- Mountain Pass · 11823 (Elevation of Pass)

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.

LOS ANGELES SECTIONAL

SOUTH · NORTH

SECTIONAL AERONAUTICAL CHART SCALE 1:500,000

Federal Aviation Administration

EFFECTIVE 0901Z **23 FEB 2023**
TO 0901Z **20 APR 2023**

Consult NOTAMs for latest information

Consult/Subscribe to FAA Safety Alerts and Charting Notices at: http://www.faa.gov/air_traffic/flight_info/aeronav/safety_alerts/

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

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NSN 7641014100177
NGA REF. NO. SECXXLOSANGELES
EFF. DATE 23054

CONTROL TOWER FREQUENCIES ON LOS ANGELES SECTIONAL CHART

Airports with control towers are indicated on the face of the chart by the letters CT followed by the primary VHF tower frequency(ies). Information for each tower is listed in the table below. Operational hours are local time. The primary VHF and UHF tower and ground control frequencies are listed.

Automatic Terminal Information Service (ATIS) frequencies shown on the face of the chart are arrival VHF/UHF frequencies. All ATIS frequencies are listed in the table below. ATIS operational hours may differ from tower operational hours.

ASR and/or PAR indicate Radar Instrument Approach available.

"MON-FRI" indicates Monday through Friday.

O/T indicates other times.

CONTROL TOWER	OPERATES	TOWER	GND CON	ATIS	ASR/PAR
BOB HOPE	CONTINUOUS	118.7 254.3 132.325 (HELI)	123.9 348.6	134.5 135.125 (ARR VIA FIM/PMD VORTAC ONLY)	
BRACKETT FLD	0700-2100	118.2 (RWY 08R/26L) 133.3 (RWY 08L/26R)	125.0	124.4	
BROWN FLD MUNI	0800-2000	128.25 225.4	124.4	132.35	
CAMARILLO	0700-2100	128.2 269.4	121.8	126.025	
CAMP PENDLETON MCAS (MUNN FLD)	0800-2400 MON-THU 0800-1700 FRI CLSD HOL	128.775 340.2	134.675 360.2	285.45	ASR/PAR
CHINA LAKE NAWS (ARMITAGE FLD)	0730-2230 MON-FRI 1500-1600 SUN CLSD ALTN FRI OPN 0730-1230 & 1500-1600 1ST WORK NON-HOL FRI OF MONTH SAT-SUN PPR	120.15 340.2	360.2	322.375	
CHINO	0700-2100	118.5	121.6	125.85	
EDWARDS AFB	0600-2200 MON-FRI 0600-1400 SAT CLSD HOL	120.7 318.1	121.8 225.4	127.425 269.9	
EL CENTRO NAF (VRACIU FLD)	0700-2300 MON-THU 0700-1800 FRI 0700-1500 SAT CLSD HOL	119.1 360.2	121.9 254.35	269.275	
FULLERTON MUNI	0700-2100	119.1	121.8	125.05	
GENERAL WM J FOX AIRFIELD	0700-2100	118.525 256.9	121.7 256.9	126.3	
GILLESPIE FLD	0700-2100	120.7 257.8	121.7	125.45	
HARRY REID INTL	CONTINUOUS	118.75 (RWYS 01L/19R, 01R/19L) 119.9 (RWYS 08L/26R, 08R/26L) 257.8	121.1 270.8 (E OF RWY 01R/19L) 121.9 (W OF RWY 01R/19L) 254.3 (W OF RWY 01L/19R)	132.4	
HENDERSON EXEC	0600-2000	125.1	127.8	120.775	
IMPERIAL BEACH NOLF (REAM FLD)	0800-2230 MON-THU (0800-2300 DST) 0800-1800 FRI CLSD 1800 PRIOR TIL 0800 FLWG HOL	120.65 239.25	285.575	276.2	
JACK NORTHROP FLD/ HAWTHORNE MUNI	0600-2200	121.1 257.8	125.1	118.4	
JOHN WAYNE/ ORANGE COUNTY	0615-2300	119.9 (RWY 02R/20L) 126.8 (RWY 02L/20R) 343.625	120.8 (E) 132.25 (W)	126.0	
LONG BEACH (DAUGHERTY FLD)	0615-2345	119.4 (RWY 30 ARR RWY 12 DEP) 120.5 (RWY 12 ARR RWY 30 DEP) 257.6	133.0 257.6	127.75	
LOS ALAMITOS AAF	0700-1600 MON & FRI 0700-2200 TUE-THU 0700-1600 SAT-SUN CLSD FED HOL EXP CLOSURE PER NOTAM	123.85 251.15	126.95 257.95	118.875 379.975	ASR/PAR
LOS ANGELES INTL	CONTINUOUS	133.9 239.3 (N COMPLEX) 120.95 379.1 (S COMPLEX) 119.8 239.3 (HELI)	121.4 (W) 121.65 (N COMPLEX) 121.75 (S COMPLEX) 327.0	133.8 (ARR) 135.65 (DEP)	
MARCH ARB	CONTINUOUS	127.65 253.5	121.75 335.8	134.75 239.05	
MC CLELLAN-PALOMAR	0700-2200	118.6 276.4	121.8	120.15	
MEADOWS FLD	0600-2300	118.1 257.8	121.7	118.6	
MIRAMAR MCAS (JOE FOSS FLD)	0730-2400 MON-THU 0830-1800 FRI 1400-1800 SUN CLSD HOL	135.2 298.925	128.625 307.325	133.475 352.0	ASR/PAR
MOJAVE AIR AND SPACE PORT/RUTAN FLD	0700-1700 MON-FRI	127.6 288.35	123.9		
MONTGOMERY-GIBBS EXEC	0600-2100	119.2 (EXC RWY 28R 1000-1800) 125.7 (RWY 28R 1000-1800) 269.4	118.225	126.9	
NORTH ISLAND NAS/ HALSEY FLD	0630 MON-2200 FRI 0800-2200 SAT-SUN CLSD 1800 PRIOR TO 0630 FLWG FED HOL	135.1 336.4	118.0 360.675	317.8	ASR/PAR
ONTARIO INTL	CONTINUOUS	120.6 360.775	121.9 257.8	124.25	
OXNARD	0700-2100	134.95 257.8	121.9	118.05	
PALM SPRINGS INTL	0600-2300	119.7 377.05	121.9	124.65	
PALMDALE USAF PLANT 42	0530-2200	123.7 317.6	121.9 317.6	118.275	
POINT MUGU NAS (NAVAL BASE VENTURA CO)	0700-2300 CLSD HOL	124.85 290.375 340.2	121.6 360.2	125.55 363.05	ASR/PAR
RAMONA	0800-2000	119.875	121.65	132.025	
RIVERSIDE MUNI	0700-2000	121.0 257.8	121.7	128.8	
SAN BERNARDINO INTL	0700-2100	119.45	121.8	124.175	
SAN CLEMENTE ISLAND NALF	0800-1800 MON-THU 0800-1600 FRI CLSD HOL; O/T BY NOTAM	126.75 278.8	119.55 251.05	268.6	ASR/PAR
SAN DIEGO INTL	CONTINUOUS	118.3 338.225	123.9	134.8	
SAN GABRIEL VALLEY	0800-2000	121.2	125.9	118.75	
SAN LUIS COUNTY RGNL	0600-2000	124.0 379.9	121.6	120.6	
SAN NICOLAS ISLAND NOLF	0700-1630 MON-FRI	126.85 379.3			
SANTA BARBARA MUNI	0600-2300	119.7 254.35	121.7	132.65	
SANTA MARIA PUB/CAPT G ALLAN HANCOCK FLD	0600-2000	118.3 239.25	121.9	121.15	
SANTA MONICA MUNI	0700-2100	120.1 257.8	121.9	119.15	
SOUTHERN CALIFORNIA LOGISTICS	0600-2000	118.35 282.225	124.45	135.475	
VANDENBERG SPACE FORCE BASE	0800-1700 MON-FRI CLSD HOL	124.95 326.2	121.75 275.8	133.125 257.975	
VAN NUYS	0600-2245	119.3 (162°-345° & RWY 16R/34L DEP) 120.2 (346°-161° & RWY 16L/34R DEP) 239.0	121.7	127.55	
WHITEMAN	0800-2000	135.0	125.0	132.1	
ZAMPERINI FLD	0700-2000	124.0 (S) 133.075 (N) 257.8	120.9	125.6	

CLASS B, CLASS C, TRSA, AND SELECTED APPROACH CONTROL FREQUENCIES

FACILITY	FREQUENCIES	SERVICE AVAILABILITY
LAS VEGAS CLASS B	119.775 282.2 (030°-110°) 125.475 307.25 (110°-200°) 125.025 379.15 (200°-300°)	CONTINUOUS
NELLIS AFB	124.95 273.55 (N)	CONTINUOUS
LOS ANGELES CLASS B	124.3 124.5 124.9 125.2 127.4 128.75 134.9 235.975 263.025 269.0 323.275 346.25 363.2	CONTINUOUS
SAN DIEGO CLASS B	132.2 269.1 (029°-061° 14,000 & BLW) 124.35 279.625 (062°-109° 14,000 & BLW) 125.15 317.55 (110°-224° 17,000 & BLW) 119.6 363.1 (225°-293° 17,000 & BLW) 127.3 323.0 (294°-332° BLW 7000) 125.3 290.4 (294°-332° 7000-15,000) 127.3 323.0 (333°-028° BLW 7000) 132.2 269.1 (333°-028° 7000-11,000)	CONTINUOUS
BURBANK CLASS C	120.4 360.6 (VNY 280°-BUR 050°) 134.2 338.2 (VNY 160°-280°) 135.05 317.5 (BUR 050°-150°) 124.6 298.85 (BUR 150°-VNY 160°)	CONTINUOUS
ONTARIO CLASS C	127.0 318.2 (N-NE) 379.25 (NE-E) 134.0 278.3 (NE-S) 278.3 (E-S) 135.4 377.125 (S-SW) 125.5 349.0 (SW-N)	CONTINUOUS
RIVERSIDE MARCH FIELD CLASS C	119.25 133.5 270.275 306.975 O/T SOCAL APP 134.0 278.3	0700-2300 CLSD HOL
SANTA ANA CLASS C	121.3 263.1 (315°-045° SNA) 124.1 132.7 279.575 350.325 (045°-130° SNA) 128.1 281.4 (130°-190° SNA) 125.35 316.125 (190°-315° SLI) 127.2 269.6 (190°-315° ABV 3000 SNA)	0615-2300 O/T CLASS G
SANTA BARBARA CLASS C	120.55 319.15 (151°-329°) 125.4 291.1 (330°-150°) O/T 119.05 269.5 LOS ANGELES CNTR	0600-2300 O/T CLASS E
PALM SPRINGS TRSA	135.275 251.1 (8000 & BLW) 126.7 370.95 (9000-13,000)	CONTINUOUS
CAMP PENDLETON MCAS (MUNN FLD)	127.3 323.0	CONTINUOUS
CHINA LAKE NAWS (ARMITAGE FLD)	133.65 348.7	CONTINUOUS
EDWARDS AF AUX NORTH BASE	133.65 348.7	CONTINUOUS
IMPERIAL BEACH NOLF (REAM FLD)	125.15 317.55	CONTINUOUS
PALMDALE USAF PLANT 42	124.55 363.0	CONTINUOUS
POINT MUGU NAS (NAVAL BASE VENTURA CO)	128.65 307.275 335.5 O/T 135.5 327.1 LOS ANGELES CNTR	0700-2300
SAN CLEMENTE ISLAND NALF	127.05 292.15	0800-1800 MON-THU 0800-1600 FRI CLSD HOL O/T BY NOTAM
VANDENBERG SPACE FORCE BASE	124.15 327.8 O/T 119.05 269.5 LOS ANGELES CNTR	0600-2300

SPECIAL USE AIRSPACE ON LOS ANGELES SECTIONAL CHART

Unless otherwise noted altitudes are MSL and in feet. Time is local.
"TO" an altitude means "To and including."
FL – Flight Level
NO A/G – No air to ground communications.
Contact Flight Service for information.

† Other times by NOTAM.
NOTAM – Use of this term in Restricted Areas indicates FAA and DoD NOTAM systems. Use of this term in all other Special Use areas indicates the DoD NOTAM system.

U.S. P–PROHIBITED, R–RESTRICTED, W–WARNING, A–ALERT, MOA–MILITARY OPERATIONS AREA

NUMBER	ALTITUDE	TIME OF USE	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES
R-2501 A, B, C	UNLIMITED	CONTINUOUS	LOS ANGELES CNTR	126.35
R-2501 D, E	UNLIMITED	CONTINUOUS	LOS ANGELES CNTR	128.15
R-2502 A	TO 16,000	CONTINUOUS	LOS ANGELES CNTR	
R-2502 E	UNLLIMITED	CONTINUOUS	LOS ANGELES CNTR	132.5 284.7
R-2502 N	UNLIMITED	CONTINUOUS	JOSHUA CON FAC	120.25
R-2503 A	TO 2000	0600-2400†	LOS ANGELES CNTR	125.65
R-2503 B	TO 15,000	0600-2400†	LOS ANGELES CNTR	125.65
R-2503 C	15,000 TO FL 270	INTERMITTENT BY NOTAM 24 HRS IN ADVANCE	LOS ANGELES CNTR	125.65
R-2503 D	2000 TO 11,000	INTERMITTENT BY NOTAM 24 HRS IN ADVANCE	SOCAL TRACON	124.1 127.3
R-2504 A	TO BUT NOT INCL 6000	0600-2400	OAKLAND CNTR	128.7 307.0
R-2504 B	6000 TO 15,000	0600-2400	OAKLAND CNTR	128.7 307.0
R-2505	UNLIMITED	CONTINUOUS	JOSHUA CON FAC	120.25 133.65
R-2506	TO 6000	SR-SS MON-FRI	JOSHUA CON FAC	120.25 133.65
R-2507 E	TO FL 400	0700-2300†	LOS ANGELES CNTR	
R-2507 N, S	TO FL 400	CONTINUOUS	YUMA MCAS/YUMA INTL	124.15
R-2507 W	TO FL 230	CONTINUOUS	LOS ANGELES CNTR	
R-2510 A	TO 15,000	0700-2300 †24 HRS IN ADVANCE	LOS ANGELES CNTR	128.6
R-2510 B	15,000 TO FL 400	0700-2300 SAT-SUN WHEN ACT BY NOTAM 24 HRS IN ADVANCE	LOS ANGELES CNTR	128.6
R-2511	6000 TO BUT NOT INCL FL 200	INTERMITTENT 0700-1700 MON-FRI †7 DAYS IN ADVANCE	JOSHUA CON FAC	120.25 133.65
R-2512	TO 23,000	0600-2300 †24 HRS IN ADVANCE	YUMA MCAS/YUMA INTL	124.15
R-2513	TO FL 240	CONTINUOUS	OAKLAND CNTR	128.7 307.0
R-2515	UNLIMITED	CONTINUOUS	JOSHUA CON FAC	120.25 133.65
R-2516	UNLIMITED	CONTINUOUS	LOS ANGELES CNTR	119.05
R-2517	UNLIMITED	CONTINUOUS	LOS ANGELES CNTR	119.05
R-2519	UNLIMITED	CONTINUOUS	LOS ANGELES CNTR	135.5
R-2524	UNLIMITED	CONTINUOUS	JOSHUA CON FAC	120.25 133.65
R-2534 A, B	500 AGL TO UNLIMITED	INTERMITTENT BY NOTAM 4 HRS IN ADVANCE	LOS ANGELES CNTR	119.05
R-2535 A, B	TO 100,000	0600-2200 MON-FRI †24 HRS IN ADVANCE	LOS ANGELES CNTR	132.15
W-285 A	TO FL 450	0630-2100 MON-FRI†	OAKLAND CNTR	134.15 355.6 (N) 134.55 290.5 (S)
W-285 D	TO FL 190	0630-2100 MON-FRI†	OAKLAND CNTR	134.15 355.6 (N) 134.55 290.5 (S)
W-289 S, E, W	UNLIMITED	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	132.15
W-289 N	TO FL 240	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	132.15
W-291 E	TO FL 800	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	132.15 (E OF 120 W)
W-292 E, W	UNLIMITED	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	132.15
W-412	TO 3000	SR-SS	LOS ANGELES CNTR	132.15
W-532 E, N, S	UNLIMITED	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	
W-537	UNLIMITED	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	132.15

MOA NAME	ALTITUDE*	TIME OF USE†	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES
ABEL BRAVO	7000	0500-2200 MON-FRI	YUMA MCAS/YUMA INTL	124.15
ABEL EAST	5000 TO BUT NOT INCL 13,000	INTERMITTENT BY NOTAM	YUMA MCAS/YUMA INTL	124.15
ABEL NORTH, SOUTH	7000	0500-2200 MON-FRI	YUMA MCAS/YUMA INTL	124.15
BAKERSFIELD	2000 AGL	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	
BARSTOW	200 AGL	0600-2200 MON-FRI	LOS ANGELES CNTR	132.5 284.7
BRISTOL	5000	0700-1500 MON-FRI	LOS ANGELES CNTR	128.15 (S) 134.65 (N)
BUCKHORN	200 AGL	0600-2200 MON-FRI	LOS ANGELES CNTR	132.5 284.7
DOME	6000	INTERMITTENT BY NOTAM	YUMA MCAS/YUMA INTL	124.15
FOOTHILL 2	2000 AGL	INTERMITTENT BY NOTAM	OAKLAND CNTR	123.8 353.8 (N, W)
HUNTER HIGH	11,000	INTERMITTENT BY NOTAM	OAKLAND CNTR	126.9 343.8
HUNTER LOW A	200 AGL TO BUT NOT INCL 11,000	INTERMITTENT BY NOTAM	OAKLAND CNTR	128.7 307.0
HUNTER LOW B	2000 AGL TO BUT NOT INCL 11,000	INTERMITTENT BY NOTAM	OAKLAND CNTR	128.7 307.0
HUNTER LOW C	3000 AGL TO BUT NOT INCL 11,000	INTERMITTENT BY NOTAM	OAKLAND CNTR	128.7 307.0
HUNTER LOW D	1500 AGL TO 6000	INTERMITTENT BY NOTAM	OAKLAND CNTR	128.7 307.0
HUNTER LOW E	1500 AGL TO 3000	INTERMITTENT BY NOTAM	OAKLAND CNTR	128.7 307.0
ISABELLA	200 AGL	0600-2200 MON-FRI	JOSHUA CON FAC	133.65
KANE EAST, SOUTH & WEST	10,000	0500-2100	YUMA MCAS/YUMA INTL	124.15
LEMOORE B	13,000	0800-2300 MON-THU 0800-1800 FRI 1000-1800 1 SAT PER MO BY NOTAM 1300-2100 1 SUN PER MO BY NOTAM	LEMOORE NAS (REEVES) ATCT	134.225 290.325
LEMOORE C	16,000	0800-2300 MON-THU 0800-1800 FRI 1000-1800 1 SAT PER MO BY NOTAM 1300-2100 1 SUN PER MO BY NOTAM	LEMOORE NAS (REEVES) ATCT	134.225 290.325
LEMOORE D, E	5000	0800-2300 MON-THU 0800-1800 FRI 1000-1800 1 SAT PER MO BY NOTAM 1300-2100 1 SUN PER MO BY NOTAM	LEMOORE NAS (REEVES) ATCT	134.225 290.325
OWENS	200 AGL	0600-2200 MON-FRI	JOSHUA CON FAC	126.55
PANAMINT	200 AGL	0600-2200 MON-FRI	JOSHUA CON FAC	120.25
PORTERVILLE	2000 AGL	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	127.1
QUAIL	10,000	0700-1700 MST MON-FRI	LOS ANGELES CNTR	128.1
ROBERTS	500 AGL TO BUT NOT INCL 15,000	INTERMITTENT BY NOTAM	OAKLAND CNTR	128.7 307.0
SHOSHONE	200 AGL	0600-2200 MON-FRI	LOS ANGELES CNTR	134.65
SILVER NORTH	200 AGL TO 9000	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	134.65
SILVER SOUTH	200 AGL TO 7000	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	133.65
SUNDANCE	500 AGL TO 10,000	0700-1700 MST MON-FRI	LOS ANGELES CNTR	133.65
TURTLE	11,000	0700-1700 MST MON-FRI	LOS ANGELES CNTR	128.15 (N)

*Altitudes indicate floor of MOA. All MOAs extend to but do not include FL 180 unless otherwise indicated in tabulation or on chart.
†Other times by DoD NOTAM.

NOTE: Limited chart information provided outside of U.S. airspace. Refer to DoD (NGA) or foreign charts and flight information publications outside U.S. airspace.

NOTE: Airports outside the U.S. Flight Information Region (FIR) are shown with the standard ○ symbol. Only the airport names and ICAO identifiers are shown.

NORTH AMERICAN AEROSPACE DEFENSE COMMAND (NORAD) PROCEDURES

All aircraft operating in the U.S. national airspace, if capable, will maintain a listening watch on guard frequencies VHF 121.5 or UHF 243.0. It is incumbent upon all aviators to know and understand their responsibilities if intercepted. Review "AIM" section 5-6-13 for intercept procedures. Additionally, if U.S. military fighter jets intercept an aircraft and flares are dispensed in the area of that aircraft, aviators will pay strict attention, contact air traffic control immediately on the local frequency or on VHF guard 121.5 or UHF 243.0 and follow the interceptor visual ICAO signals. Be advised that non-compliance may result in the use of force.

CAUTION: This chart is primarily designed for VFR navigational purposes and does not purport to indicate the presence of all power transmission and telecommunication lines, terrain or obstacles which may be encountered below reasonable and safe altitudes.

CAUTION: Severe turbulence may occur over rugged terrain. See AIM.

90 / 20 AGL · IR214 — Ceiling of MTR in hundreds of feet MSL — Floor of MTR in hundreds of feet AGL

SPECIAL MILITARY ACTIVITY

The chart identifies IFR Military Training Routes and Military Operations Area within which the Department of Defense conducts periodic operations involving Unmanned Aircraft Systems. These aircraft may be accompanied by military or other aircraft which provide the pilots of the Unmanned Aircraft Systems visual observation information about other aircraft operations near them. Status of these routes and areas may be obtained by contacting the FAA/DoD facility on designated frequencies along the routes and as displayed on the chart. The lateral limits of these specified routes are shown by the Special Use Airspace symbol. Altitudes for these route segments are also shown.

Class G Airspace within the United States extends up to 14,500 feet MSL. At and above this altitude all airspace is within Class E Airspace, excluding the airspace less than 1500 feet above the terrain and certain special use airspace areas.

ATTENTION

THIS CHART CONTAINS MAXIMUM ELEVATION FIGURES (MEF). The Maximum Elevation Figures shown in quadrangles bounded by ticked lines of latitude and longitude are represented in THOUSANDS and HUNDREDS of feet above mean sea level. The MEF is based on information available concerning the highest known feature in each quadrangle, including terrain and obstructions (trees, towers, antennas, etc.).

Example: 12,500 feet 12⁵

REPORTING CHART ERRORS

You are requested to inform us of chart errors and/or additions that come to your attention while using this chart. See frequently asked questions (FAQs) on our website at http://faa.gov/go/ais/ prior to contacting us via toll free number at 1-800-638-8972 or visit https://www.faa.gov/air_traffic/flight_info/aeronav/aero_data/ or mail to: FAA, Aeronautical Information Services,1305 East-West Highway, SSMC 4, Suite 4400, Silver Spring, MD 20910-3281.

PACIFIC OCEAN
CONTIGUOUS U.S. ADIZ
LOS ANGELES BASIN
WARNING W-532N
WARNING W-532E
WARNING W-532S
WARNING W-537
WARNING W-289N
WARNING W-289S
WARNING W-289W
WARNING W-412
WARNING W-292E
WARNING W-292W
WARNING W-291E
RESTRICTED R-2505
RESTRICTED R-2524
RESTRICTED R-2515
RESTRICTED R-2502N
R-2502E
R-2501D
RESTRICTED R-2507N
RESTRICTED R-2507S
RESTRICTED R-2510A/B
HUNTER LOW & HIGH MOA
ROBERTS MOA
LEMOORE C MOA
LEMOORE D MOA
PORTERVILLE MOA
OWENS MOA
ISABELLA MOA
BAKERSFIELD MOA
PANAMINT MOA
SHOSHONE MOA
SILVER NORTH MOA
SILVER SOUTH MOA
BARSTOW MOA
BUCKHORN MOA
BRISTOL MOA
TURTLE MOA
QUAIL MOA
SUNDANCE MOA
KANE WEST MOA
KANE EAST MOA
ABEL NORTH MOA
ABEL SOUTH MOA
ABEL EAST MOA
LAS VEGAS
BAKERSFIELD
LOS ANGELES
SAN DIEGO
SANTA BARBARA
PALM SPRINGS
MOJAVE
Salton Sea
Joins San Francisco
Overlaps Las Vegas
Overlaps Phoenix
NOAA REGULATED NATIONAL MARINE SANCTUARY DESIGNATED AREAS
MAXIMUM ELEVATION FIGURE IS BELIEVED NOT TO EXCEED 400 FEET
CONTROL AREA PACIFIC LOW
5500 MSL
1200 AGL
MEXICO FIR MMFR
DEFENSE AREA

Lambert Conformal Conic Projection Standard Parallels 33° 20' and 38° 40'
Horizontal Datum: North American Datum of 1983 (World Geodetic System 1984)

CONTOUR INTERVAL 500 feet
Intermediate contours 250 feet
Auxiliary contours 100 feet

HIGHEST TERRAIN elevation is 11499 feet located at 34°06' - 116°49'W

Spot elevation .... • 4254
Approximate elevation .... x 3200

CONVERSION OF ELEVATIONS

FOR PROCUREMENT: For digital products, visit http://www.faa.gov/air_traffic/flight_info/aeronav/digital_products/ For a list of approved FAA Print Providers, visit our website at: http://www.faa.gov/air_traffic/flight_info/aeronav/print_providers/

WARNING: Extensive fleet and air operations being conducted in offshore areas to approximately 100 miles seaward

FAA air traffic service outside U.S. airspace is provided in accordance with Article 12 and Annex 11 of ICAO Convention. ICAO Convention not applicable to state aircraft but compliance with ICAO standards and practices is encouraged.

MILITARY TRAINING ROUTES (MTRs): All IR and VR MTRs are shown, and may extend from the surface upwards. Only the route centerline, direction of flight along the route, and the route designator are depicted - route widths and altitudes are not shown. DoD users refer to Area Planning AP/1B Military Training Routes North and South America for current routes.

Features normally used as checkpoints for controlling VFR traffic are emphasized on this series of charts so they may be readily identified.

Example: POWER PLANT

The name shown is that used by the controlling personnel and is not necessarily the official name of the feature.

Flight Following Services are available on request and highly recommended in and around Class B, C, and TRSA areas.

CAUTION: Unmanned Aircraft Systems (UAS) may be approved to operate above critical infrastructure including obstacles and linear features such as high-voltage powerlines and railroads. Check NOTAMs and see AIM for details.

PLOTTING DIRECT ROUTE ON NORTH/SOUTH SIDE

There are approximately two minutes of latitude overlap between the north and south sides of each sectional chart. To plot a course line from one side to the other, the user must first locate two pair of corresponding latitude tick marks, one pair on each side of the chart and follow the steps below.

STEP 1 - Draw a horizontal line (MATCH LINE) between each pair of corresponding latitude tick marks on each side of the chart just to the left or right of where your plot line crosses. (Figure 1)

STEP 2 - Decide which side of the chart has the departure or destination point closer to the edge of the chart. On that side, line up a blank piece of paper along the MATCH LINE (the paper should be completely on the chart, not extending beyond its edge).

STEP 3 - Slide the paper sideways left or right so that a side edge of the paper aligns with the departure or destination point (POINT A). Make a MARK A on edge of the paper where it meets that point.

STEP 4 - Without moving the paper, on the same edge as MARK A, extend a short line on the chart from the corner of the paper where it meets the MATCH LINE out to the edge of the chart. Make that LINE B.

STEP 5 - Turn the chart over and transfer the end of LINE B to the other side, and extend it straight to the MATCH LINE. (Figure 2)

STEP 6 - Take the sheet of paper with MARK A on it and align the (top or bottom) edge of the paper with the MATCH LINE and side edge with LINE B with the bulk of the sheet extending off of the chart. Plot a line from MARK A to the departure or destination point (POINT B).

STEP 7 - Where your plot line crosses the MATCH LINE make a MARK C. Extend a line straight from that mark to the edge of the chart.

STEP 8 - Turn the chart back over and transfer MARK C to that side and extend it to the MATCH LINE. Plot a line from MARK C to the destination. (Figure 3)

REGULATIONS REGARDING FLIGHTS OVER CHARTED NATIONAL PARK SERVICE AREAS, U.S. FISH AND WILDLIFE SERVICE AREAS, BUREAU OF LAND MANAGEMENT AREAS AND U.S. FOREST SERVICE AREAS

The landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, Bureau of Land Management or U.S. Forest Service (hereafter referred as Agency/Agencies) without authorization from the respective agency. Exceptions include: 1) when forced to land due to an emergency beyond the control of the operator, 2) at officially designated landing sites, or 3) on approved official business of the Federal Government. All aircraft are requested to maintain a minimum altitude of 2,000 feet above the surface of the following: National Parks, Monuments, Seashores, Lakeshores, Recreation Areas, Scenic Riverways,Wildlife Refuges, Big Game Refuges, Game Ranges, Wildlife Ranges, Conservation Areas, Wild and Scenic Rivers, Wilderness Areas and Primitive Areas administered by the Agencies.FAA Advisory Circular (AC) 91-36, "Visual Flight Rules (VFR) Flight Near Noise-Sensitive Areas," definesthe surface as: the highest terrain within 2,000 feet laterally of the route of flight, or the upper-most rim of a canyon or valley.

Federal regulations also prohibit airdrops by parachute or other means of persons, cargo, or objects from aircraft on lands administered by the four agencies without authorization from the respective agency. Exceptions include: 1) emergencies involving the safety of human life, or 2) threat of serious property loss.

- Boundary of Agency Areas
- Boundary of NOAA Regulated National Marine Sanctuary Designated Areas (see http://sanctuaries.noaa.gov/flight).

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