REF FWAY

VFR TERMINAL AREA CHART
SAN FRANCISCO

SAN FRANCISCO

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. or greater

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 1500 ft. or greater.

Rotating airport beacon in operation Sunset to Sunrise

OBJECTIONABLE - Airport may adversely affect airspace use.

AIRPORT DATA

Box indicates FAR 91, Special Air Traffic Rules & Airport Traffic Patterns. Runways with Right Traffic. Private airport. *RP Special conditions exist - see Supplement.

FAR 91 — FSS — FAR 91 NO SVFR — Location Identifier NAME (PNAME) (PIAM) — CAO — Location Indicator shown outside contiguous U.S. VFR Arvoy 125.0 — UNICOM — WX CAM — Weather Camera (AK) — FSS - Flight Service Station — AOE — Airport of Entry — NO SVFR - Fixed-wing special VFR flights 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 Advsry - 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 - Runway length in hundreds of feet. Leader 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 - Class D Airspace)

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 G — Class E Airspace with floor 700 ft. above surface that laterally abuts Class G Airspace.

Class E Airspace with floor 1200 ft. or greater above surface that laterally abuts Class G airspace.

Class E Airspace with floor 1200 ft. or greater above surface that laterally abuts Class D airspace.

2400 MSL — Differentiates floors of Class E Airspace greater than 1200 ft. above the surface.

4500 MSL — Class E Airspace at 4500' 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.

Total mileage between NAVAIDs on direct Airway.

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

COMMUNICATION BOXES

122.18 122.6 123.6 — OAKDALE — 382* 385.8 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.

122.18 — MIAMI — FSS radio providing voice communication

Frequencies above this line box are remoted to the FSS facility. Pilots requesting/receiving voice communication may be available as determined by altitude and terrain. Consult Supplement for complete information.

Contact Flight Service for information.

R - Receive only

RADIO AIDS TO NAVIGATION

VHF OMNI RANGE (VOR) — VORTAC — VOR-DME — DME — 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) — Group Obstruction — Obstruction with high-intensity lights; may operate part-time — Wind Turbine — Wind Turbine Farm — Elevation of the top above mean sea level (in hundreds of feet). Under construction or reported; position and elevation unverified — NOTICE: Guy wires may extend outward from structures.

MISCELLANEOUS

A - Aerobatic Practice Area (See Supplement.) — STADIUM Intermittent VFR sfcs (within 3 NM, up to & incl 3000' AGL) — Space Launch Activity Area

G - Glider Operations — H - Hang Glider Activity — U - Ultralight Activity — UA - Unmanned Aircraft Activity — Parachute Jumping Area (See Supplement.) — Marine Light — Isogonic Line (2020 VALUE)

MODE C VFR AIR SFC 2500 MSL — National Security Area — Terminal Radar Service Area (TRSA) — MTR - Military Training Route — IFR Departure Route — IFR Arrival Route — IFR Arrival/Departure Route

TOPOGRAPHIC INFORMATION

Power Transmission Line — Mountain Pass — Aerial Cable — Lookout Tower — 618 (Elevation Base of Tower) — Plain 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.

SAN FRANCISCO TAC

VFR TERMINAL AREA CHART SCALE 1:250,000

Federal Aviation Administration

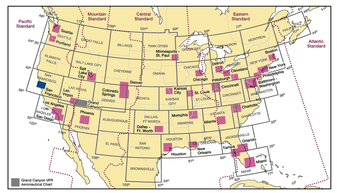
EFFECTIVE 0901Z **23 FEB 2023**

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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EFF. DATE 23054

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/ato/ 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.

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

CONTROL TOWER FREQUENCIES ON SAN FRANCISCO TERMINAL AREA CHART

Airports with control towers are indicated on the face of the chart by the letter 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.

"NON-PIR" indicates Monday through Friday.

O/T indicates other times.

CONTROL TOWER	OPERATES	TOWER	GND CON	ATIS	ASR/PAR
BUCHANAN FLD	0700-2200	119.7 123.9 257.8	121.9	124.7	
HAYWARD EXEC	0700-2100	126.2 257.8	121.4	126.7	
LIVERMORE MUNI	0700-2100	118.1 239.25	121.6	119.65	
METRO OAKLAND INTL	CONTINUOUS	118.3 291.65 (RWYS 10L/28R, 10R/28L, 13/31) 127.2 256.9 (RWY 12/30)	121.9 (RWYS 10L/28R, 10R/28L, 13/31) 121.75 (RWY 12/30)	133.775	
MOFFETT FEDERAL AFLD	0700-2300	119.55 269.65	121.85 278.95	124.175 283.0	
NORMAN Y MINETA SAN JOSE INTL	0600-2400	124.0 257.4	121.7	126.95	
RACO AUTO	0700-2100	118.6	125.0	135.375	
REID-HILLVIEW	0700-2200	119.8 (BWY 13L/31R) 126.1 (BWY 13R/31L)	121.65	125.2	
SAN CARLOS	0700-2100	119.0 126.2	121.6	123.9	
SAN FRANCISCO INTL	CONTINUOUS	120.5 249.1	121.8	113.7 115.8 118.65	

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

FACILITY	FREQUENCIES	SERVICE AVAILABILITY
SAN FRANCISCO CLASS B	120.9 . 223.2 (NW) 127.0 . 298.95 (N) 125.35 . 254.1 (NE-E) 134.5 . 338.2 (E) 133.95 . 317.4 (S) 135.1 . 307.2 (W)	CONTINUOUS
OAKLAND METRO CLASS C	127.0 . 298.95 (E) 127.35 . 354.1 (S) 133.95 . 317.4 (W) 135.1 . 307.2 (W) 120.9 . 223.2 (NNW)	CONTINUOUS
SAN JOSE CLASS C	121.3 . 270.35 (280°-080° S/C) 120.1 . 290.25 (081°-135° S/C) 135.2 . 379.1 (136°-279° S/C)	0600-2400 O/T CLASS E

SPECIAL USE AIRSPACE ON SAN FRANCISCO TERMINAL AREA CHART

Unless otherwise noted altitudes are MSL. "AGL" means AGL. "SFC" on altitude means "To and including." FL - Flight level. NO A/G - No air to ground communications. Contact Flight Service for information.

T-Other times by NOTAM. H-H24 by NOTAM. Shown 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-2531	TO BLIT NOT (HC) 4000	1000-2030 MON-FRI 0ON& SATSUN BY NOTAM 24 HRS IN ADVANCE	NORCAL TRACON	123.85 278.3
W-285 B	TO FL 190	0630-2100 MON-FRI	NORCAL TRACON	126.57 254.25
A-682	TO 6000 (IN OF TRAWS AFB EXTND SWY CHIQUITA) TO 3000 (S OF TRAWS AFB EXTND SWY CHIQUITA)	0800-2100 MON-FRI	NO A/G	

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

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 (hereinafter referred to 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 aircraft operator; 2) when authorized by a special use permit, lease, license, agreement, or contract issued by 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," defines the 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).

Lambert Conformal Conic Projection Standard Parallels 33° and 45°

Horizontal Datum: North American Datum of 1983 (World Geodetic System 1984)

CONVERSION OF ELEVATIONS

FEET (Thousands) 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

METERS (Thousands) 0 1 2 3 4 5 6 7 8 9

GROUND ELEVATIONS IN FEET 4400 3000 2000 1000 Sea Level CONTOUR INTERVAL 500'

Entire area of this chart is within the Pacific Standard Time Zone +8 (+7DT)=UTC

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.

SAN FRANCISCO CLASS B AIRSPACE

OPERATING RULES AND PILOT/EQUIPMENT REQUIREMENTS: Regardless of weather conditions, an ATC authorization is required prior to operating within the Class B Airspace. Pilots should not request an authorization to operate within the Class B Airspace unless the requirements of FAR 91.215 and FAR 91.131 are met. Included among those requirements are:

1. Unless otherwise authorized by ATC, an operable two-way radio capable of communicating with ATC on appropriate frequencies for that Class B Airspace.
2. No person may take off or land a civil aircraft at the San Francisco International Airport unless the pilot in command holds at least a Private Pilot certificate.
3. Except as noted in 2. above, no person may take off or land a civil aircraft at an airport within the Class B Airspace or operate a civil aircraft within the Class B Airspace unless:
   (a) The pilot in command holds at least a Private Pilot certificate, or holds a Recreational Pilot certificate and has met the requirements of FAR 61.101(d); or holds a Sport Pilot certificate and has met the requirements of FAR 61.325, or;
   (b) The aircraft is operated by a student pilot who has met the requirements of FAR 61.94 or FAR 61.95 as applicable.
4. Unless otherwise authorized by ATC, each person operating a large turbine engine-powered aircraft to or from a primary airport shall operate at or above the designated floors while within the lateral limits of the Class B Airspace.
5. An operable VOR or TACAN receiver for IFR operations.
6. A transponder with automatic altitude reporting equipment.

NOTE: ATC may, upon notification, immediately authorize a deviation from the altitude reporting equipment requirement or for a transponder failure; however, other requests for deviations from the transponder equipment requirement must be submitted to the controlling ATC facility at least one hour before the proposed operation.

FLIGHT PROCEDURES

IFR FLIGHTS— Aircraft operating within the San Francisco Class B Airspace must be operated in accordance with ATC clearances and instructions.

VFR FLIGHTS—

1. Arriving aircraft should contact the appropriate approach control on specified frequencies and in relation to geographic fixes shown on the accompanying chart. Although arriving aircraft may be operating beneath the floor of the Class B Airspace on initial contact, communications should be established with approach control in relation to the points indicated for sequencing and spacing purposes.
2. Aircraft departing the primary airports are requested to advise clearance delivery prior to taxiing of their intended altitude and direction of flight to depart the Class B Airspace. Aircraft departing from other than the primary airports whose route of flight would penetrate the Class B Airspace should give this information to ATC on the appropriate frequencies.
3. Aircraft desiring to transit the Class B Airspace must obtain an ATC clearance to enter the Class B Airspace and will be handled on an ATC workload permitting basis.

ATC PROCEDURES

All aircraft will be controlled and separated while operating within the Class B Airspace, except helicopters need not be separated from other helicopters. Although radar separation will be the primary standard used, approved visual and other nonradar procedures will be applied as required or deemed appropriate. Traffic information on observed but unidentified radar targets will be provided on a workload permitting basis to aircraft operating outside the Class B Airspace.

NOTE: Assignment of radar headings and/or altitudes is based on the provision that a pilot operating in accordance with visual flight rules is expected to advise ATC if compliance with an assigned route, radar heading, or altitude will cause the pilot to violate such rules.

NORTH AMERICAN AEROSPACE DEFENSE COMMAND (NORAD) PROCEDURES

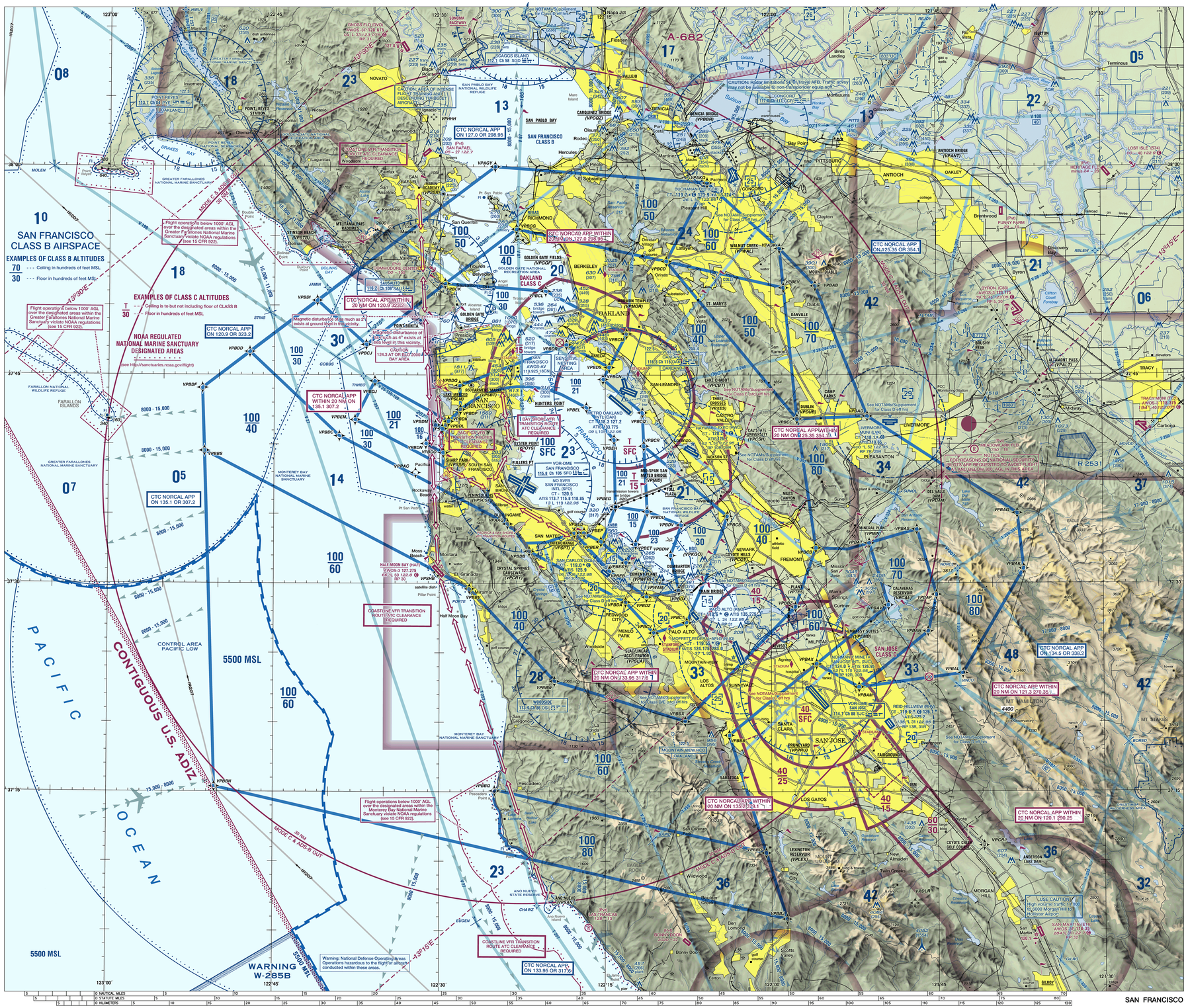
All aircraft operating in the U.S. national airspace, if capable, will maintain a listening watch on guard frequencies VHF 121.5 or UHF 243.0. It is incumbent upon all aviators to know and understand their responsibilities if intercepted. Review "AIM" section 5-6-13 for intercept procedures. Additionally, 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.

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.

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.



SAN FRANCISCO

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 12 5

VFR TRANSITION ROUTES

VFR TRANSITION ROUTE (ATC CLEARANCE REQUIRED) ALTITUDE ASSIGNED BY ATC

THIS CHART ALSO IDENTIFIES VFR TRANSITION ROUTES IN THE SAN FRANCISCO CLASS B AIRSPACE. OPERATION ON THESE ROUTES REQUIRES ATC AUTHORIZATION FROM SAN FRANCISCO APPROACH CONTROL. UNTIL AUTHORIZATION IS RECEIVED, REMAIN OUTSIDE OF CLASS B AIRSPACE. DEPICTION OF THESE ROUTES IS TO ASSIST PILOTS IN POSITIONING THE AIRCRAFT IN AN AREA OUTSIDE THE CLASS B AIRSPACE WHERE ATC CLEARANCE CAN NORMALLY BE EXPECTED WITH MINIMAL OR NO DELAY. ON INITIAL CONTACT, ADVISE ATC OF POSITION, ALTITUDE, ROUTE NAME DESIRED, AND DIRECTION OF FLIGHT. REFER TO CURRENT SAN FRANCISCO VFR TERMINAL AREA CHART FOR USER REQUIREMENTS.

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.

VFR FLYWAY PLANNING CHART
SAN FRANCISCO
Scale 1:250,000
NOT TO BE USED FOR NAVIGATION

AIRPORTS
Paved Runways
NAME (NAM)
NAME (NAM)
Unpaved Runways
NAME (NAM)

RADIO AIDS TO NAVIGATION
VOR — DLG 138.8
NDB — DCW 262
VORTAC — PPS 121.8
NDB-DME — RMW 320
VOR-DME — KIP 110.7
DME — PVU CH 21 (108.4)

AIRPORT TRAFFIC SERVICE AND AIRSPACE INFORMATION

- Class B Airspace
- Class C Airspace (Mode C - see FAR 91.215/AIM.)
- Class B/C Surface Area
- 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.

Examples of Class B Airspace Altitudes
70 --- Ceiling in hundreds of feet MSL
30 --- Floor in hundreds of feet MSL
- 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

- IFR Departure Routes
- IFR Arrival Routes
- IFR Arrival/Departure Routes

Suggested VFR Flyway and Altitude
2600 6700

OBSTRUCTIONS (Selected)
2049

MISCELLANEOUS
Navigation Reference Point
N39° 56.32'
W120° 36.91'

TOPOGRAPHIC INFORMATION
12256 — Mountain Top or Peak and Spot Elevation

THIS CHART IDENTIFIES VFR FLYWAYS DESIGNED TO HELP VFR PILOTS AVOID MAJOR CONTROLLED TRAFFIC FLOWS. IT DEPICTS MULTIPLE VFR ROUTINGS THROUGHOUT THE SAN FRANCISCO AREA WHICH MAY BE USED AS ALTERNATES TO FLIGHT WITHIN THE ESTABLISHED CLASS B/CLASS C AIRSPACE ITS GROUND REFERENCES PROVIDE A GUIDE FOR IMPROVED VISUAL NAVIGATION. THIS IS NOT INTENDED TO DISCOURAGE REQUESTS FOR VFR OPERATIONS WITHIN THE CLASS B/CLASS C AIRSPACE BUT IS DESIGNED SOLELY FOR INFORMATION AND PLANNING PURPOSES.

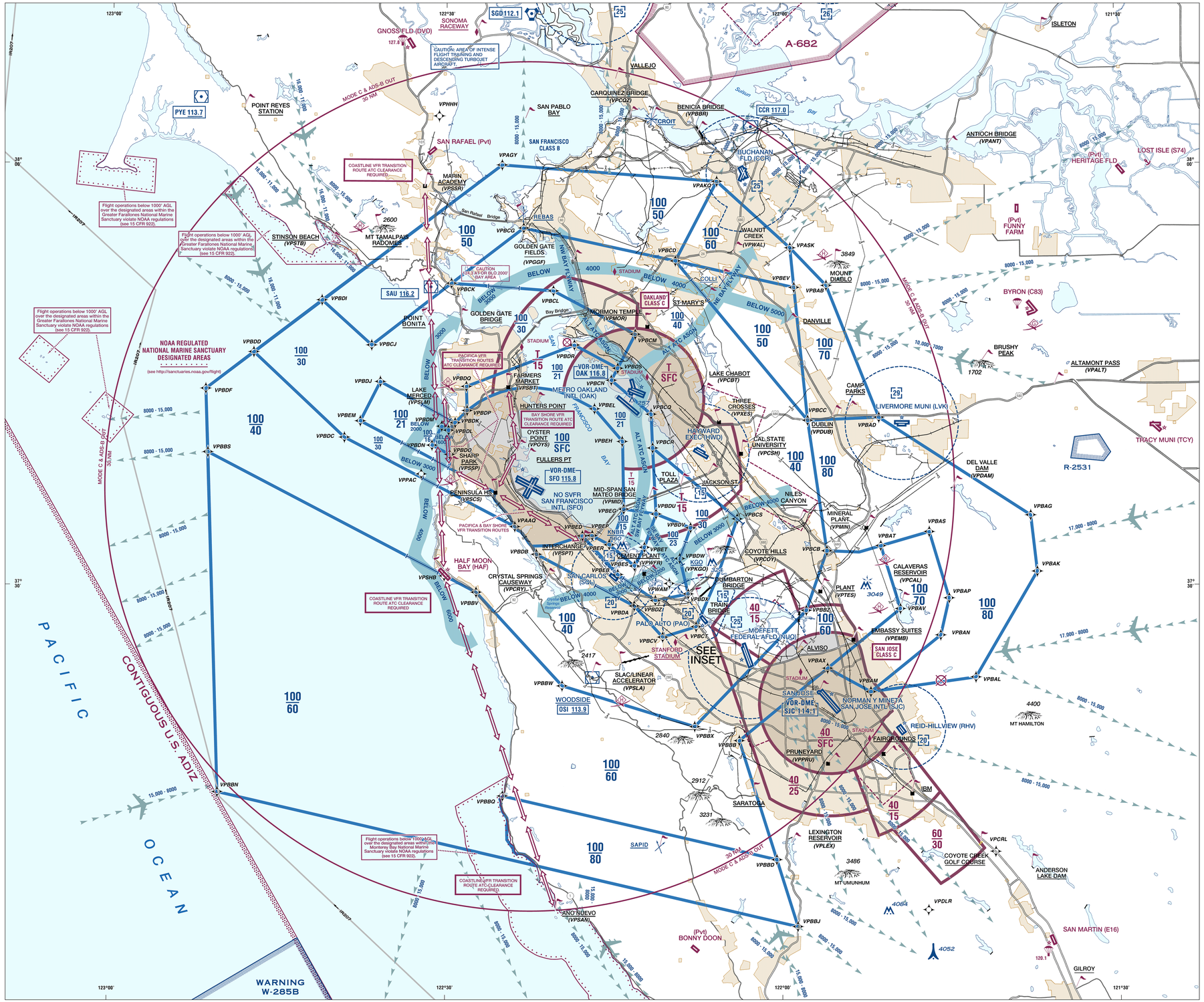
CAUTION

THE ENTIRE SAN FRANCISCO AREA IS HEAVILY CONGESTED WITH MANY DIFFERENT AIRCRAFT TYPES. THESE ROUTE SUGGESTIONS ARE NOT STERILE OF OTHER TRAFFIC; THEY ARE AREAS WE BELIEVE LEAST CONGESTED IN AN AREA OF HEAVY CONGESTION. PILOT ADHERENCE TO VFR RULES MUST BE EXERCISED AT ALL TIMES. COMMUNICATIONS MUST BE MAINTAINED BETWEEN AIRCRAFT AND CONTROL TOWERS WHILE IN CLASS D AIRSPACE.

VFR TRANSITION ROUTES

VFR TRANSITION ROUTE
(ATC CLEARANCE REQUIRED)
ALTITUDE ASSIGNED BY ATC

THIS CHART ALSO IDENTIFIES VFR TRANSITION ROUTES IN THE SAN FRANCISCO CLASS B AIRSPACE. OPERATION ON THESE ROUTES REQUIRES ATC AUTHORIZATION FROM SAN FRANCISCO APPROACH CONTROL. UNTIL AUTHORIZATION IS RECEIVED, REMAIN OUTSIDE OF CLASS B AIRSPACE. DEPICTION OF THESE ROUTES IS TO ASSIST PILOTS IN POSITIONING THE AIRCRAFT IN AN AREA OUTSIDE THE CLASS B AIRSPACE WHERE ATC CLEARANCE CAN NORMALLY BE EXPECTED WITH MINIMAL OR NO DELAY. ON INITIAL CONTACT, ADVISE ATC OF POSITION, ALTITUDE, ROUTE NAME DESIRED, AND DIRECTION OF FLIGHT. REFER TO CURRENT SAN FRANCISCO VFR TERMINAL AREA CHART FOR USER REQUIREMENTS.



INSET SCALE 1:150,000

CAUTION - TYPICAL VFR AIRPORT DEPARTURE ROUTE