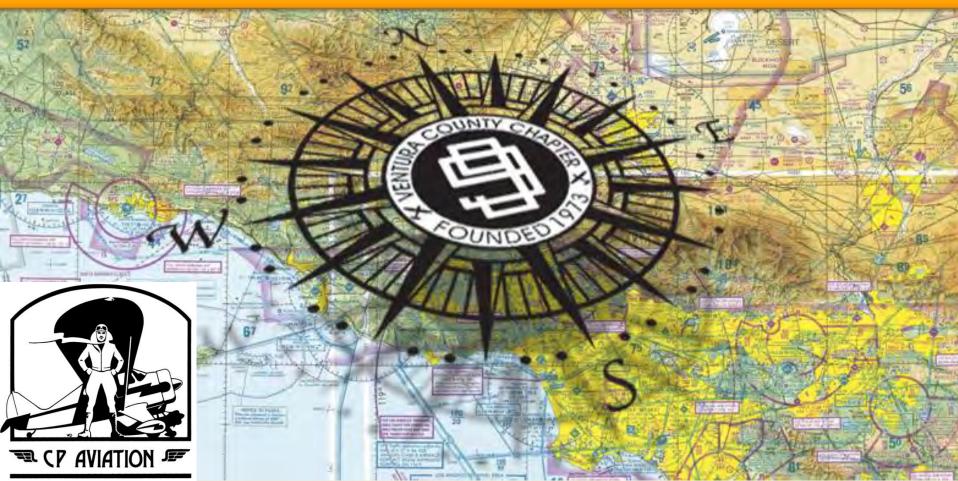
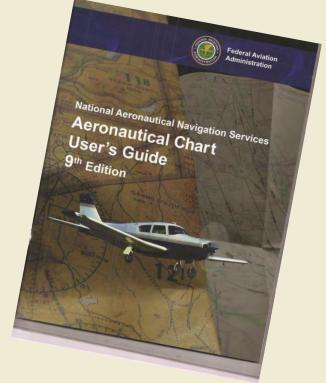


Judy Phelps ♦ Master CFI-Aerobatic, CFII



Charts provide information which allows pilots to track their position and provides information which enhances safety.

- Airport Data
- Navigation Aids
- Airspace
- Topography



# And much more!

# **Types of VFR Charts**

## Sectional

- Most common
- Scale of 1:500,000 (1 inch = 6.86 Nautical miles (NM) or approximately 8 statute miles (SM)
- This allows for detailed information
- Updated semiannually

# **Types of Charts**

## **Terminal Area Charts (TAC)**

- Used for flying in or near Class B airspace
- Scale of 1:250,000 (1 inch = 3.43 NM or approximately 4 SM)
- Transition routes
- Updated semi-annually

# **Types of Charts**

## **VFR Flyway Planning Charts**

- On the back of the TAC
- Help VFR pilots avoid major traffic flows
- Depicts routing throughout the busy area
- Ground references for improved visual navigation
- Designed solely for planning purposes –not navigation!

# Flyway



#### COASTAL ROUTE VER ONLY



REQUIREMENTS OF FAR 91.215 AND 91.131 SHALL BE MET

#### REMAIN OUTSIDE BRAVO AIRSPACE UNTIL RECEIVING BRAVO CLEARANCE

COASTAL ROUTE NORTHBOUND: Enter the Los Angeles Class B northbound abeam the Vincent Thomas Bridge established on the Los Angeles 123 radial. After crossing the Los Angeles VOR, proceed outbound on the Los Angeles 323 radial until exiting the Los Angeles Class B near the Sepulveda Pass. Maintain altitude as assigned by ATC.

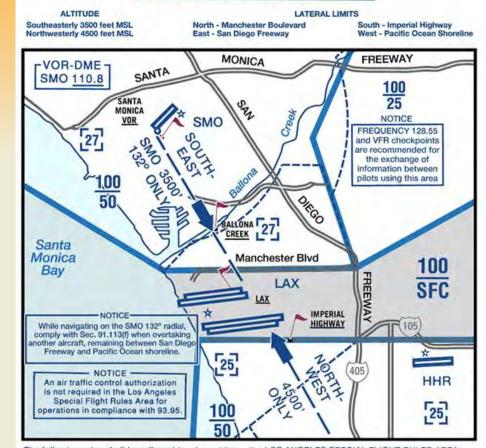
COASTAL ROUTE SOUTHBOUND: Enter the Los Angeles Class B southbound abeam the Sepulveda Pass established on the Los Angeles 323 radial. After crossing the Los Angeles VOR, proceed outbound on the Los Angeles 123 radial until exiting the Los Angeles Class B near the Vincent Thomas Bridge. Maintain altitude as assigned by ATC.

Note: Aircraft departing Long Beach, Torrance, Hawthorne, or Santa Monica airport, please contact So Cal Tracon 134.9 or 363.2 for clearance.

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

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

## LOS ANGELES SPECIAL FLIGHT RULES AREA



The following rules shall be adhered to when utilizing the LOS ANGELES SPECIAL FLIGHT RULES AREA:

The flight must be conducted under VFR and only when operation may be conducted in compliance with Sec. 91.155.

The aircraft must be equipped as specified in Sec. 91.215 replying on code 1201 prior to entering and while operating in this area.

The pilot shall have a current Los Angeles Terminal Area Chart in the aircraft.

The pilot shall operate on the Santa Monica very high frequency omni-directional radio range (VOR) 132° radial. Aircraft navigating in a southeasterly direction shall be in level flight at 3500 feet MSL.

Aircraft navigating in a northwesterly direction shall be in level flight at 4500 feet MSL.

Indicated airspeed shall not exceed 140 knots.

Anti-collision lights and aircraft position/navigation lights shall be on. Use of landing lights is recommended. TURBOJET AIRCRAFT ARE PROHIBITED FROM VFR OPERATIONS IN THIS AREA.

## **Chart Supplement**

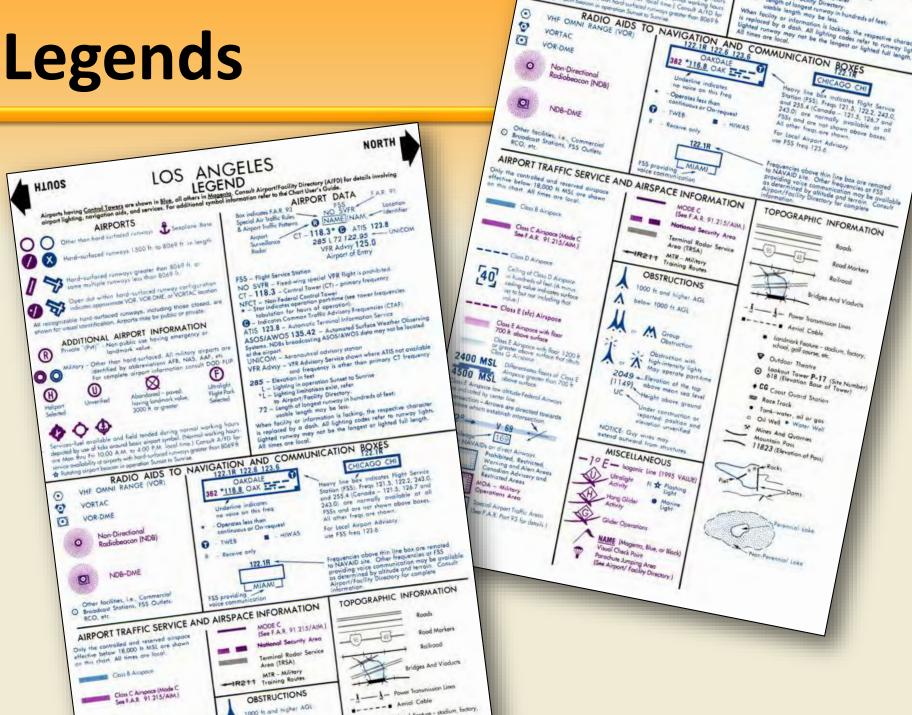
(Airport Facility Directory)

## Use in conjunction with charts

- Airport information
- Phone numbers
- VFR waypoints
- LAHSO







as para was nord surfaced runways greater than 8069 to M local sme | Consult A/FD for received working hours nours hours

0

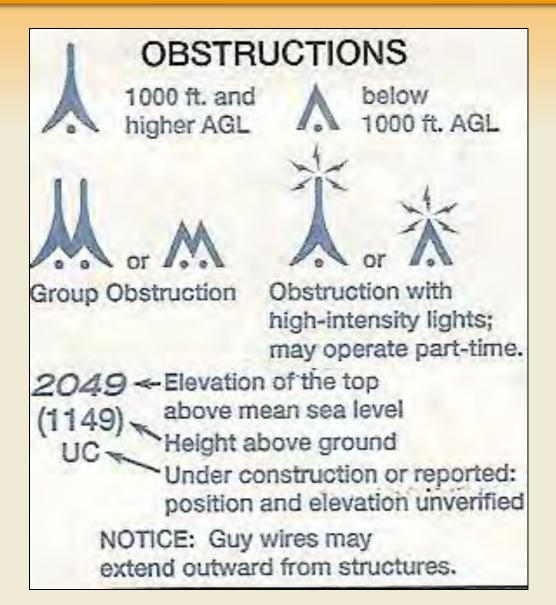
Length of longest runway in hundreds of feet,

Using obsolete charts is dangerous

Information changes rapidly

FDC NOTAMs – reflect changes





#### **Obstructions** on Sectional and TAC

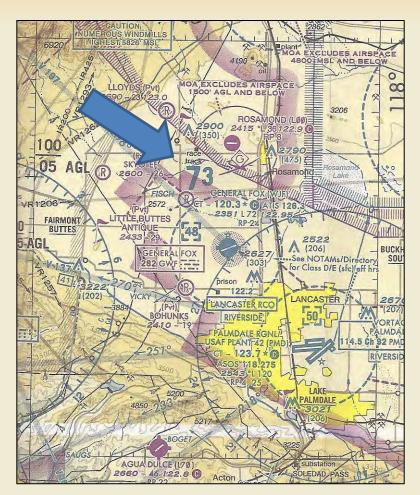
Generally - 200' AGL are charted

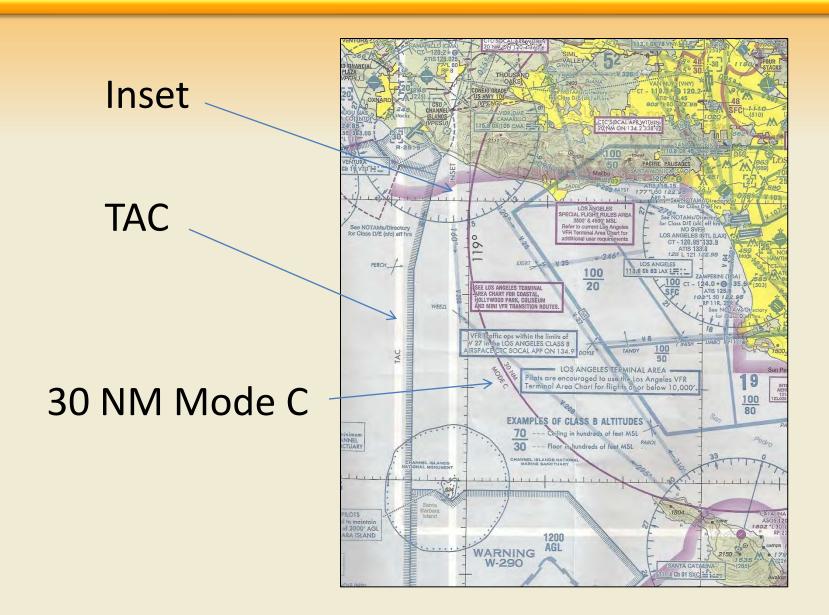
 Objects less than 200' are charted only if considered a hazard very near an airport

Examples - smoke stacks, tanks, antennas

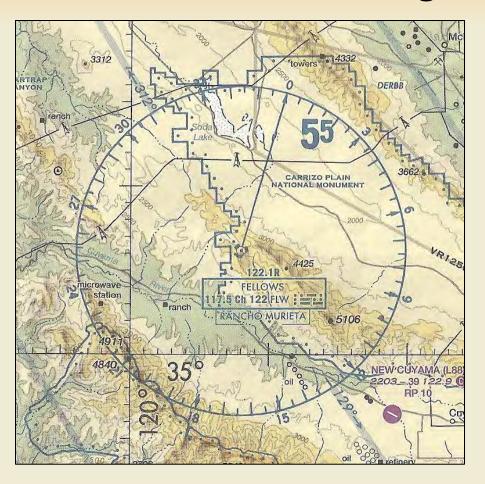
### **Maximum Elevation Figure**

Highest Obstacle + 300'

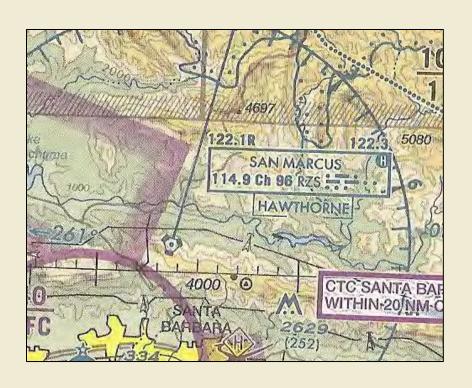




### Compass Rose is oriented to Magnetic North



#### **Radio Aids to Navigation**



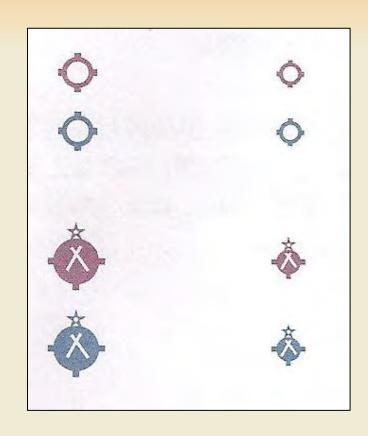




## **Public use airports**

Blue - Control Tower

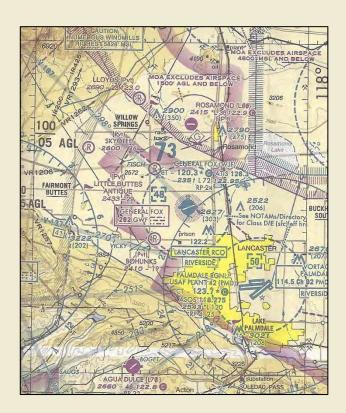
Magenta - No Tower



#### **Services Available**

#### Tick marks – fuel available



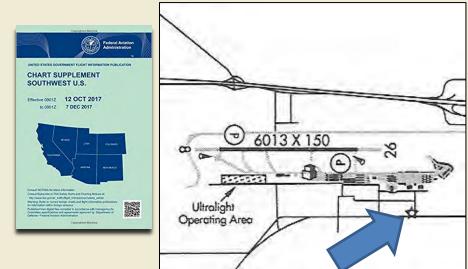


## **Rotating Beacon**

Is there one (chart)



Where is it located on airport (Chart Supplement)



## **Airport Information**



#### AIRPORT DATA

FSS Box indicates FAR 93 NO SVFR Special Air Traffic ocation Identifier Rules & Airport NAME (NAM) (PNAM) -ICAO Traffic Patterns. Location Runways with CT - 118.3 \* @ ATIS 123.8 Indicator 285 L 72 122.95 Right Traffic shown outside contiguous U.S. RP \* Special VFR Advsy 125.0 UNICOM conditions exist AOE - Airport of Entry - 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.

Common Traffic Advisory Frequencies (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.



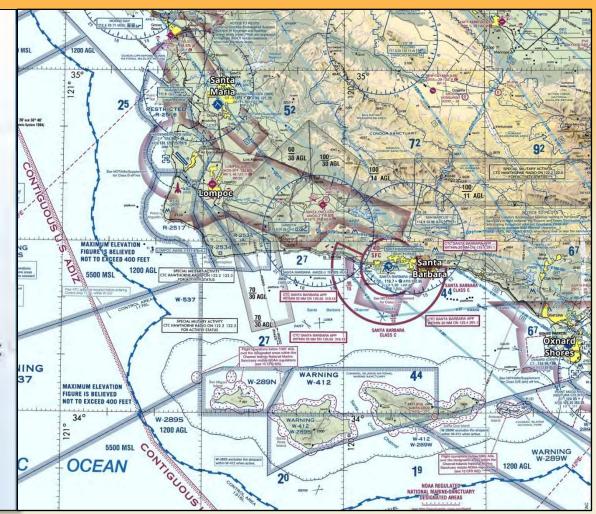
#### Contiguous ADIZ

The Contiguous ADIZ lies off the east and west U.S. coastlines and follows the U.S. - Mexico border. Aircraft crossing the ADIZ must:

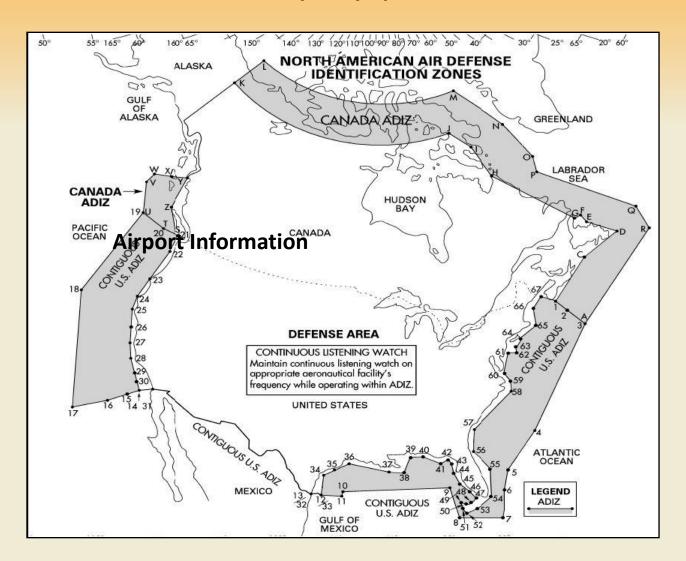
- Be on an IFR or DVFR flight plan
- Be equipped with a two-way radio and Mode C transponder
- Have registration numbers at least 12" tall

See the **Learn More** for information about international travel requirements.





The U.S. & Canada jointly operate an ADIZ



#### Contiguous ADIZ

The Contiguous ADIZ lies off the east and west U.S. coastlines and follows the

U.S. - Mexico border. Airc the ADIZ must:

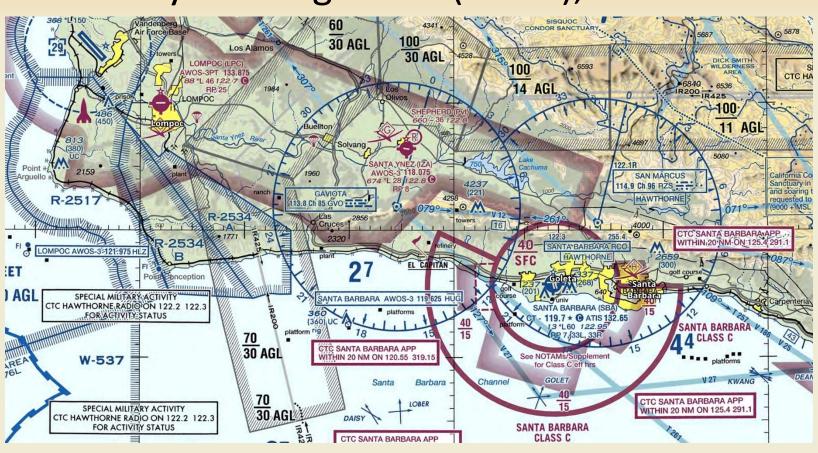
- Be on an IFR or DVF
- Be equipped with a tv and Mode C transpor
- Have registration nun 12" tall

See the **Learn More** for in international travel require TIP:

International travel with a "pink slip," or temporary aircraft registration, is prohibited by law. When planning an international trip with a newly purchased aircraft, a permanent registration certificate from the FAA must be on board before crossing the border.

1320)

## Military Training Routs (MTRs), AIM 3-5-2

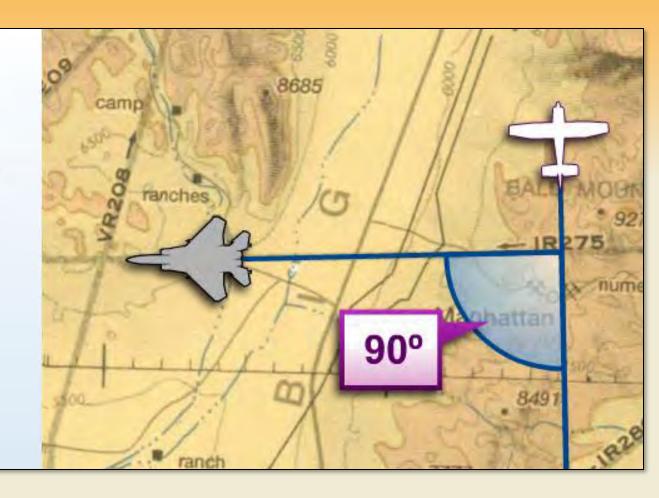


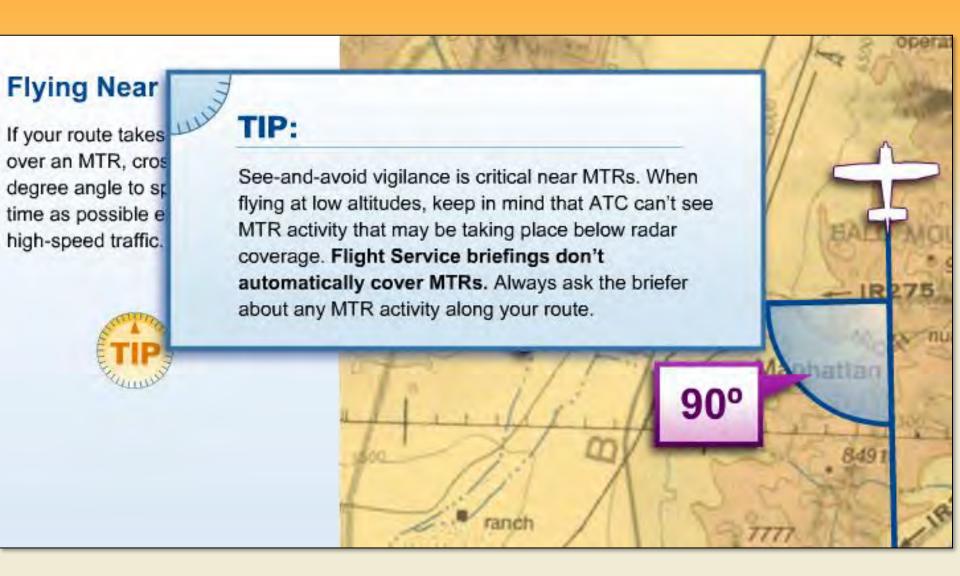


#### Flying Near MTRs

If your route takes you near or over an MTR, cross it at a 90degree angle to spend as little time as possible exposed to the high-speed traffic.







# **Special Use**



# Temporary Flight Restrictions (TFRs) Other TFRs Presidential TFRs

Sporting events (3 mi/3000 ft)
Other places (Disposured Super

Other places (Disneyworld, Super Bowl, UN General Assembly)



Can pop up anytime, and on very short notice. Virtually zero tolerance for incursions.



The official sources for TFR information are the <u>FAA's</u> <u>Graphic TFR web page</u> and the FDC NOTAMs.

#### **MORE – INFO**

Towers
Prohibited
Restricted
MOA
Warning
Alert

LOOK across the top of the chart!

#### 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 local control frequency (ies). Information for each tower is listed in the table below. Operational hours are local time. The primary VHF and UHF local control frequencies are listed. An asterisk (\*) indicates the part-time tower frequency is remoted to a collocated full-time FSS for use as Airport Advisory Service (AAS) during hours the tower is closed. The primary VHF and UHF ground control frequencies are listed. Automatic Terminal Information Service (ATIS) frequencies shown on the face of the chart are primary arrival VHF/UHF frequencies. All ATIS frequencies are listed in the table below. ATIS operational hours may differ from tower operational hours.

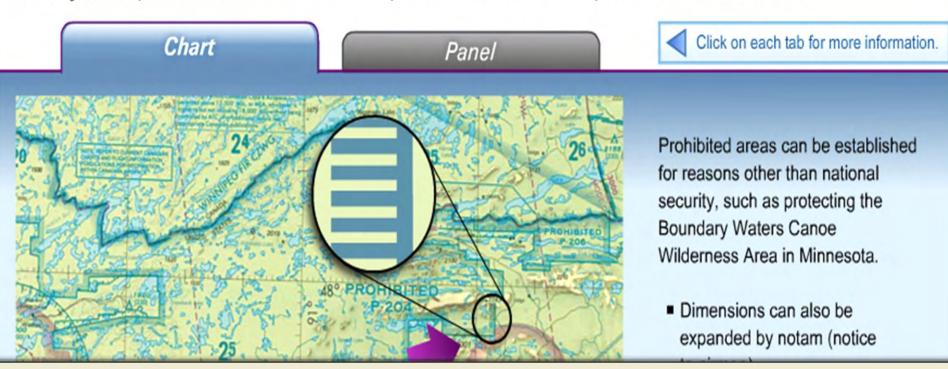
ASR and/or PAR indicate Radar Instrument Approach available.

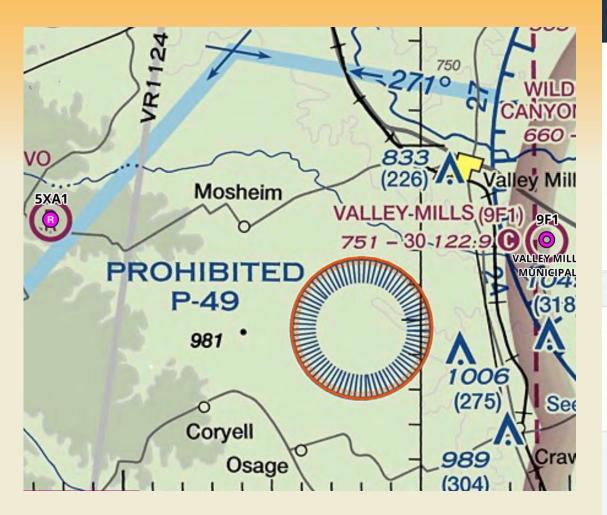
"MON-FRI" indicates Monday through Friday.

CONTROL TOWER	OPERATES	TWR FREQ	GND CON	ATIS	ASR/PAR
BOB HOPE	CONTINUOUS	118.7 254.3	123.9 348.6	134.5 135.125 (ARR VIA FIM/ PMD VORTAC ONLY)	
BRACKETT	0700-2100	118.2	125.0	124.4	
BROWN 0800-2000		126.5 128.25 (RWY 08R/26L) 288.1	124.4	132.35	
CAMARILLO	0700-2100	128.2 269.4	121.8	126.025	
CAMP PENDLETON MCAS (MUNN)	0800-1700 MON & FRI 0800-2300 TUE-THU (0800-2400 DST) CLSD SAT-SUN & HOL	128.775 340.2	128.775 360.2	267.6	ASR/PAR
CHINA LAKE NAWS  0630-2230 MON-FRI  CLSD ALTN FRI & 15T WORK NON-HOL MON OF MONTH  SAT-SUN PRE/LCL USE ONLY		120.15 340.2	360.2	322.375	
CHINO	0700-2100	118.5	121.6	125.85	
EDWARDS AFB 0600-2200 MON-FRI SAT-SUN BY NOTAM CLSD HOL		120.7 318.1	121.8 225.4	269.9	
EL CENTRO NAF	0700-2300 MON-THU 0700-1800 FRI 0700-1500 SAT CLSD SUN & HOL	119.1 360.2	121.9 254.35	269.275	
EL MONTE	0800-2000	121.2	125.9	118.75	
FULLERTON	0700-2100	119.1	121.8	125.05	
	O NAUTICAL MILES		10		20
	O STATUTE MILES	10		20	1
10	O KILOMETERS	10	20	30	14

#### **Prohibited Areas**

Prohibited Areas are usually established for security or other reasons associated with the national welfare. P=Prohibited: **Do not fly here!** Specific information for each area is provided on the inside chart panel of VFR and IFR charts.





Back Special	P-49 Use Airspace
Туре	Prohibited Area
Designator	49
Name	P-49
Upper Limit	2,000' MSL
Lower Limit	Surface
ADDITIONAL INFO	RMATION
Activation Continuously (excl	holidays)
Hours Continuous	



Restricted Areas indicate the existence of unusual, often invisible, hazards such as:

Artillery firing

Aerial combat

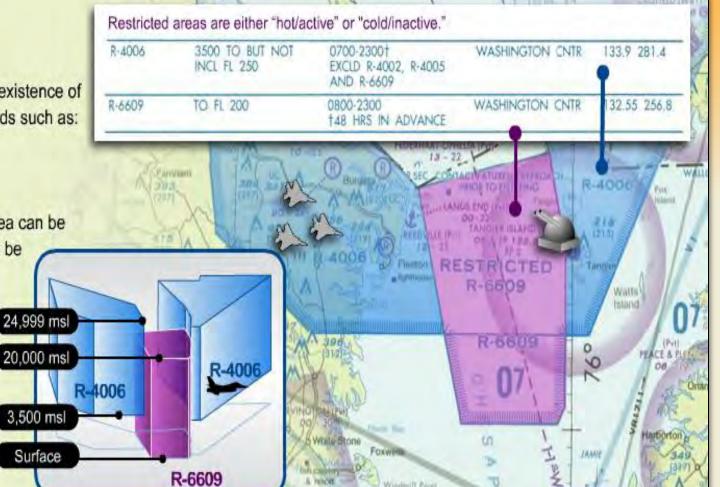
Guided missiles

Flight through a Restricted Area can be

authorized, but will most likely be

denied if the area is "hot".

See the Learn More for additional information on controlling agencies.



Windsoft Poor



CAMP PENDLETON MCAS (MUNN)	127.3 323.0	CONTINUOUS
CHINA LAKE NAWS (ARWITAGE)	133.65 348.7	CONTINUOUS
EDWARDS AF AUX NORTH BASE	133.65 348.7	CONTINUOUS
IMPERIAL BEACH NOLF (REAM)	125.15 317.55	CONTINUOUS
PALMDALE USAF PLANT 42	124.55 363.0	CONTINUOUS
POINT MUGU NAS (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 AFB	124.15 327.8 O/T 119.05 249.5 LOS ANGELES CHITE	0600-2300

#### SPECIAL USE AIRSPACE ON LOS ANGELES SECTIONAL CHART

Unless otherwise noted crititudes are MSL and in Net Time is local. "TO" on a hithide 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

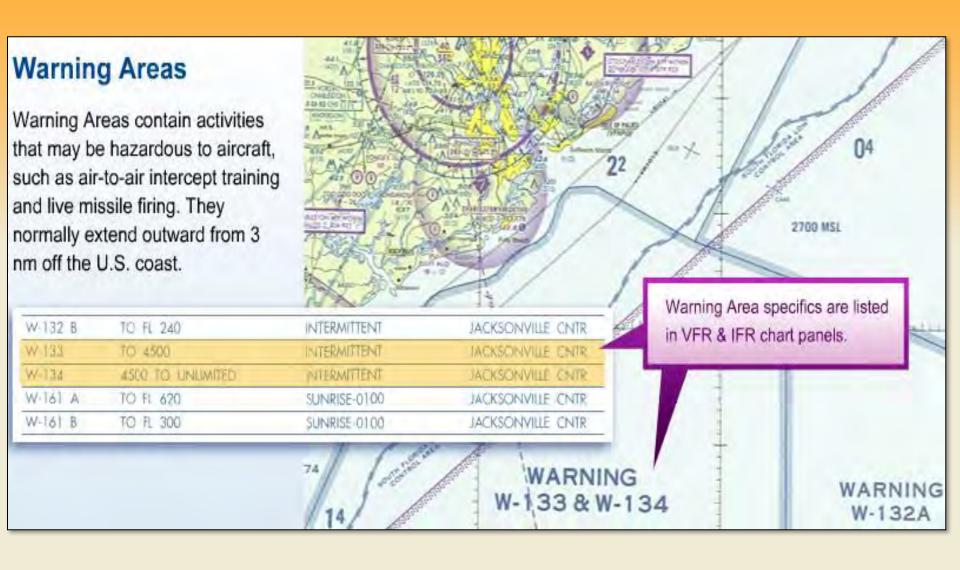
NUMBER	ALTITUDE	TIME OF USE	CONTROLLING AGENCY/ CONTACT FACILITY	FREQUENCIES	
R-2501 A, B, C	UNLIMITED	CONTINUOUS	LOS ANGELES CNTR	126.35	
R-2501 D, E	UNLIMITED	CONTINUOUS	LOS ANGELES CNTR	128.15	
R-2502 A	TO 16,000	CONTINUOUS	LOS ANGELES CNTR		
R-2502 E	UNLUMITED	CONTINUOUS	LOS ANGELES CNTR	132.5 284.7	
R-2502 N	UNUMITED	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 ONTR	128.7 307.0	
R-2504 B	6000 TO 15,000	0600-2400	OAKLAND ONTR	128.7 307.0	
R-2505	UNUMITED	CONTINUOUS	JOSHUA CON FAC	120.25 133.65	
R-2506 TO 6000		SR-SS MON-FRI	JOSHUA CON FAC	120.25 133.65	
^	Taxa .				

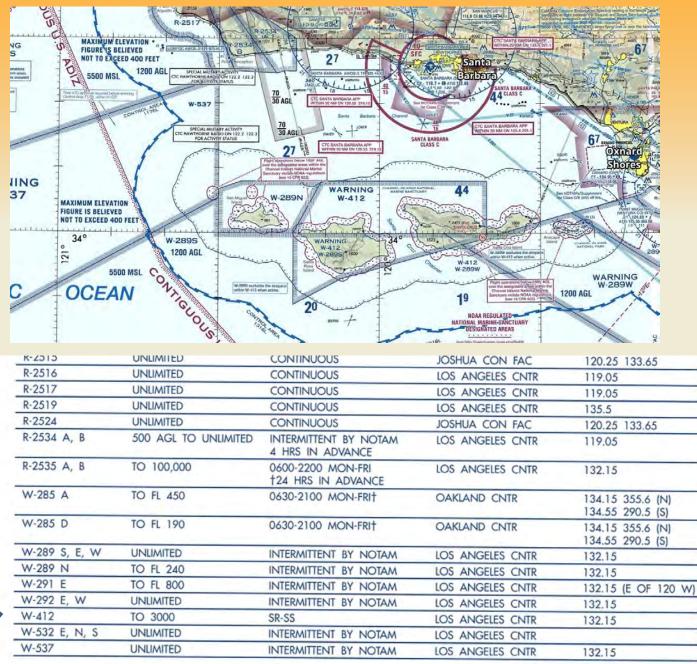
R-2507 E	TO FL 400	0700-2300†	LOS ANGELES ONTR			
R-2507 N, S	TO FL 400	CONTINUOUS	YUMA MCAS/YUMA INTL	124.15		
R-2507 W	TO FL 230	CONTINUOUS	LOS ANGELES CNTR			
R-2510 A	TO 15,000	0700-2300 †24 HRS IN ADVANCE	LOS ANGELES CNTR	128.6		
R-2510 B	15,000 TO FL 400	0700-2300 SAT-SUN WHEN ACT BY NOTAM 24 HRS IN ADVANCE	LOS ANGELES CNTR	128.6		
R-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	UNLIWITED	CONTINUOUS	LOS ANGELES CNTR	119.05		
R-2519	UNLIWITED	CONTINUOUS	LOS ANGELES CNTR	135.5		
R-2524	UNLIWITED	CONTINUOUS	JOSHUA CON FAC	120.25 133.65		
R-2534 A, B	500 AGL TO UNLIMITED	INTERWITTENT 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-FRIT	OAKLAND CNTR	134.15 355.6 (N) 134.55 290.5 (S)		
W-285 D	TO FL 190	0630-2100 MON-FRIT	OAKLAND CNTR	134.15 355.6 [N] 134.55 290.5 [S]		
W-289 S, E, W	UNUMITED	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 R 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, 5	UNLIMITED	INTERMITTENT BY NOTAM	LOS ANGELES CNTR			
W-537	UNLIWITED	INTERMITTENT BY NOTAM	LOS ANGELES CNTR	132.15		

#### MEXICO P-PROHIBITED, R-RESTRICTED

NUMBER	LOCATION	ALTITUDE	TIME OF USE	CONTROLLING AGENCY
MMR412		TO 16,000	BY NOTAM	DGAC SENEAM

	130		140		150		160		170	180		1190	
_	150	160	)	170		180		190	200		210	132	220
	240	250	260 270		280	290	300	310	320	330	340	350	360







### Alert Areas

Alert Areas contain a high volume of pilot training or some other type of unusual activity. Flight through an Alert Area is not restricted, but pilots should exercise caution when flying in these areas.

R-2916

R-2936

W-168

A 291 A.C

W 174 A.F W-174 B.C

W-174 E

W-174 G

10 14,000

TO 10,000

TO 2500

TO 3900

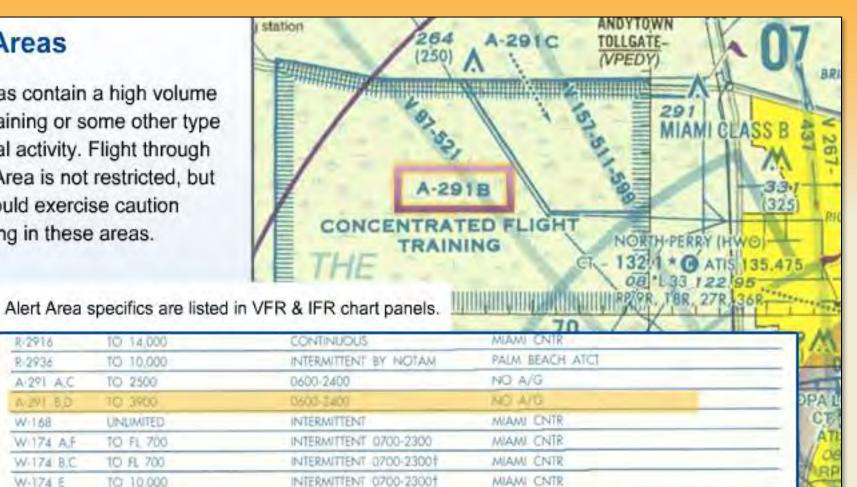
UNLIMITED

TO FL 700

10 FL 700

TO 10,000

TO FL 700



MIAMI ONTR

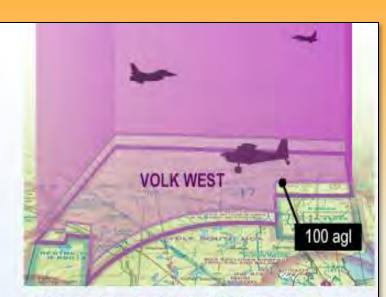
INTERMITTENT 0700-2300†

### Military Operations Areas (MOAs)

MOAs contain activities such as air combat tactics and aerobatics, with some operations exceeding 250 knots near the surface. They exist to separate military training activities from IFR traffic, which is normally routed outside active MOAs. VFR traffic is permitted, but extreme caution should be used when these areas are active.



Roll over each area below to review

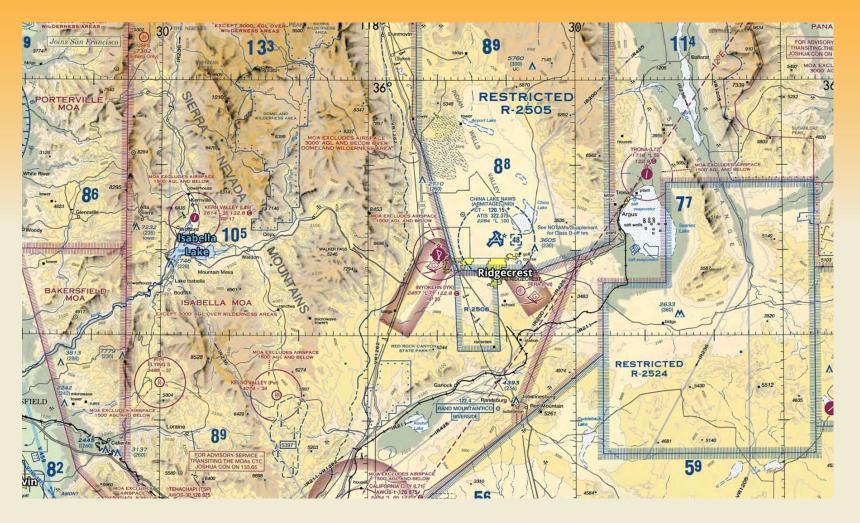


MOA specifics are listed in VFR & IFR chart panels.

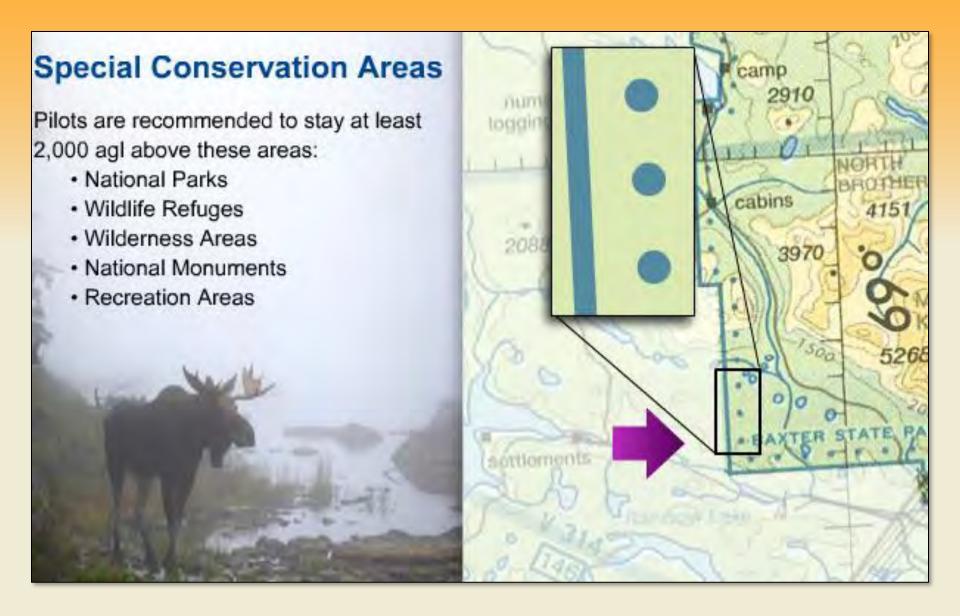


SNOOPY WEST 6000		BY NOTAM NORMALLY INTERMITTENT 0800-2200 MON-SAT	MINNEAPOLIS CNTR	127.9 281.45	
VOLK EAST	8000	INTERMITTENT BY NOTAM 0800-1600 TUE-SAT	CHICAGO CNTR	133.3 380.35	
VOLK SOUTH	500 AGL	INTERMITTENT BY NOTAM 0800-1600 TUE-SAT	CHICAGO CNTR	133,3 380,35	
VOIK WEST	100 AGL	INTERMITTENT BY NOTAM 800-1600 TUE-SAT	MINNEAPOUS CNTR	124.4 128.6 317.7 363.0	

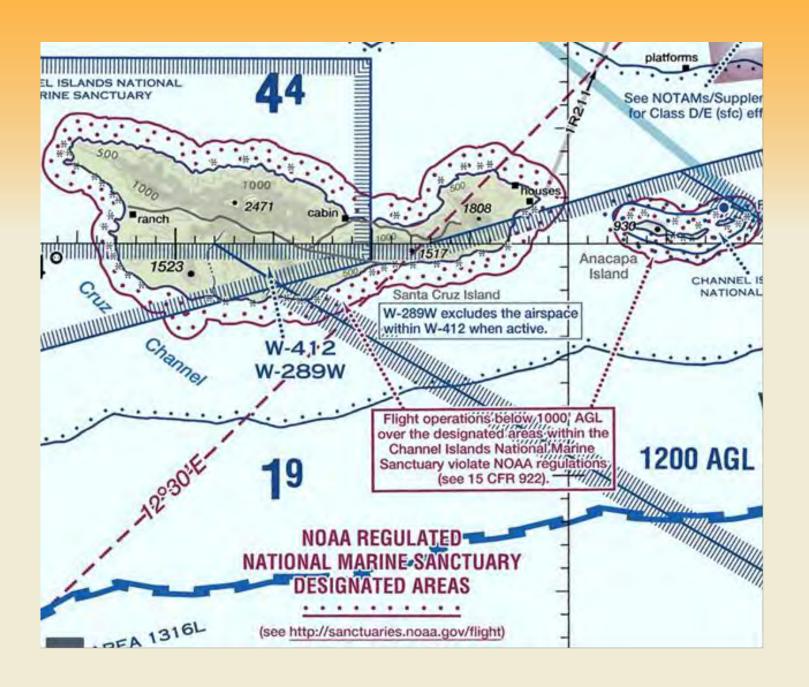
<sup>\*</sup>Altitudes indicate floor of MOA. All MOAs extend to but do not include FL 180 unless otherwise indicated in tabulation or on chart. †Other times by DoD NOTAM.



<b>—</b>	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	LEMOORE NAS (REEVES) ATCT	134.225 290.325







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### Pilots: Know Before You Go!



NOAA Twin Otter over Point Sur, California. Credit: Kip Evans

Overflight regulations within Olympic Coast, Greater Farallones, Monterey Bay and Channel Islands National Marine Sanctuaries require that motorized aircraft maintain minimum altitudes above specified coastal waters. Failure to comply with these minimum altitude limits is presumed to disturb marine mammals and seabirds and is a violation of federal regulations for the sanctuaries.

### Overflight Regulation

Overview

NOAA Regulated Overflight Zones

Olympic Coast

Greater Farallones

Monterey Bay

Channel Islands

FAQS

### Why Fly Higher?



This composite image was created by NOAA using common license components, and is available for unrestricted use. Credit: NOAA

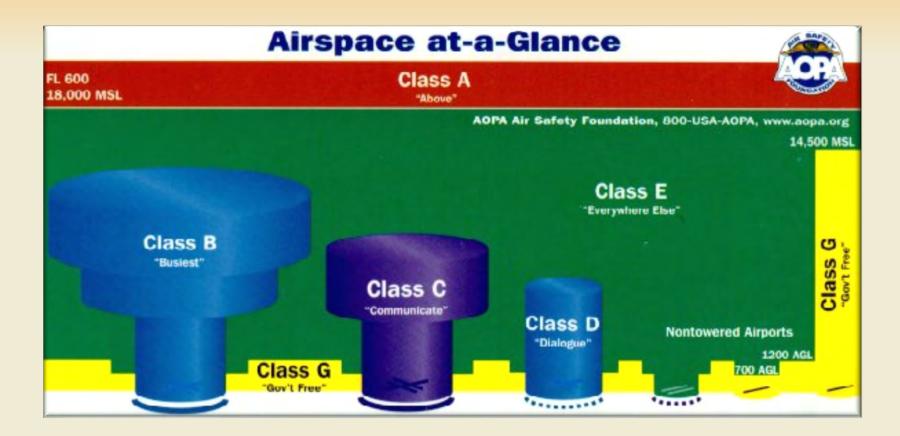
Fly High for Safety, Fly High for Wildlife



# Airspace

- IdentifyingAirspace
  - Uncontrolled
  - Controlled
- Cloud Clearance and Visibility
- Speed Limits
- Equipment

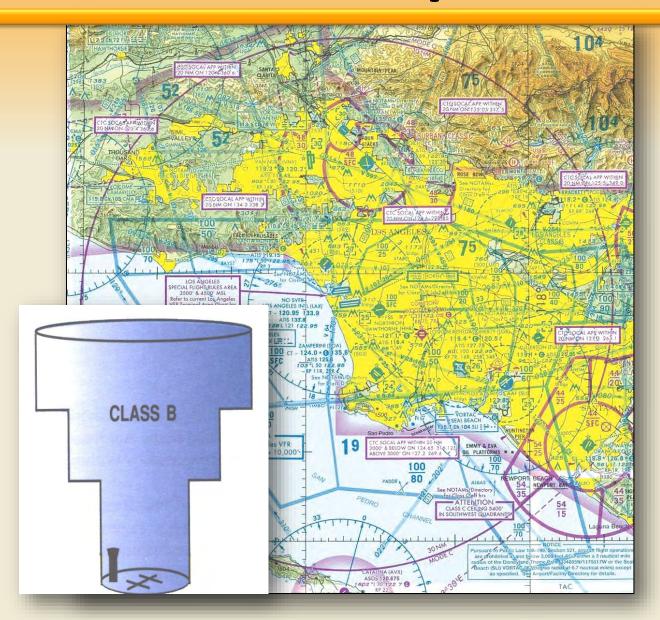
# Why?



- 18000' MSL + to FL600
- IFR



- BIG
  - Big airspace
  - Big airplanes
  - Big airports
- LAX





- Congested, radar assistance, talk to approach control
- BUR, SBA

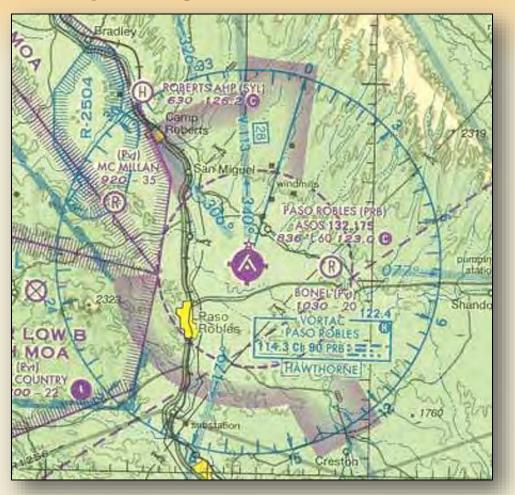






Everything Else

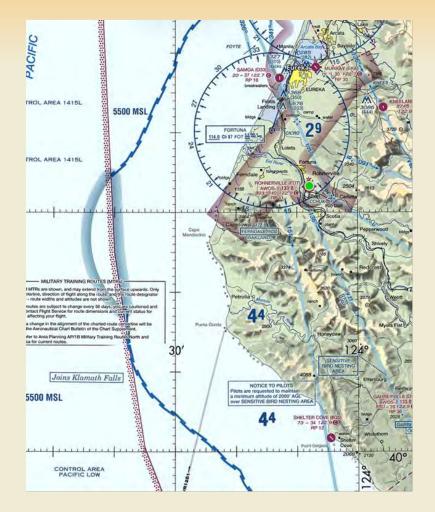
- Starts at surface
- 18,000' top
- PRB
- WeatherASOS/AWOS

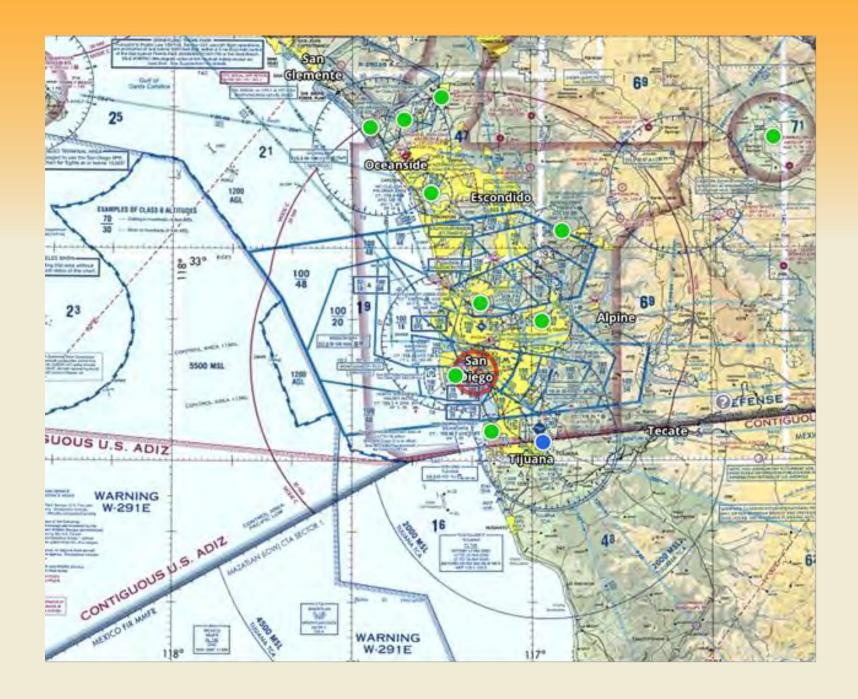




Everything Else

- Floor 1200' AGL or greater
- 18,000' top
- Abuts Class G airspace





Everything Else

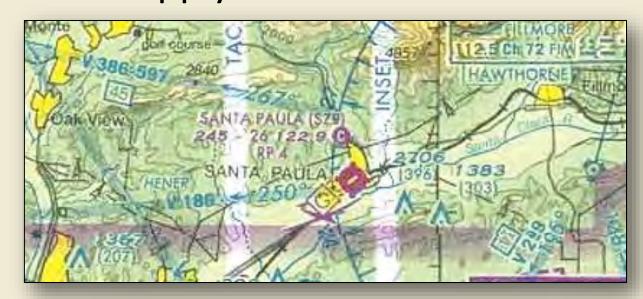
- AGL
- Floor 700' AGL
- 18,000' top
- IZA



### **Uncontrolled Airspace**

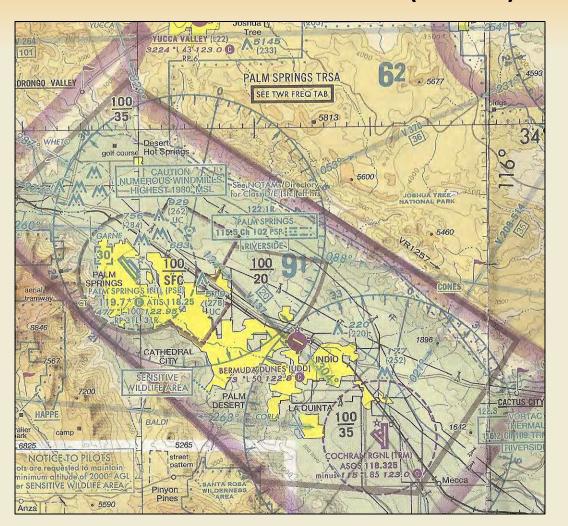
The Airspace in which ATC has no authority or responsibility to control air traffic, but remember there are VFR weather minimums which apply.

- Always starts at sfc up to 1,200
- SZP



### **Aeronautical Charts**

Terminal Radar Service Areas (TRSA)



# Cloud Clearance and Visibility Requirements

- Visual Flight Rules (VFR) or Instrument Flight Rules (IFR)
- IFR if less then 3 miles visibility and or 1,000' Ceiling in controlled airspace to the surface associated with an airport
- IFR Traffic Separation





# Cloud Clearance & Visibility

- Class B
  - 3 miles visibility
  - Clear of clouds

# **1000' ABOVE** 2000' HORIZONTAL **500' BELOW**

# Cloud Clearance & Visibility

- Class C, D & E
  - 3 miles visibility
  - 1000' above
  - 500' below
  - 2000' horizontal

## **Cloud Clearance & Visibility**

- Class G Day
- Below 1200' AGL
  - 1 mile visibility
  - Clear of clouds
- Above 1200' AGL
  - 1 mile visibility
  - 1000' above
  - 500' below
  - 2000' horizontal

- Class G Night
  - 3 miles visibility
  - 1000' above
  - 500' below
  - 2000' horizontal



EXCEPTION: Sport Pilots, or pilots operating under Sport Pilot Rules, Cannot Fly at Night OR with Visibility < 3 miles and ALWAYS Within Sight of the Ground.



## **Cloud Clearance & Visibility**

- 10,000' MSL and above
  - 5 miles visibility
  - 1000' above
  - 1000' below
  - 1 mile horizontal

EXCEPTION: Sport Pilots, or pilots operating under Sport Pilot Rules, <u>May Not Fly Over 10,000 ft</u> or 2000 ft AGL if terrain is above 10,000 feet

## **Speed Limits**

- Above 10,000'
  - No speed limit
- Below 10,000'
  - 250 knots
  - Under Class B, 200 knots
  - In Class C or D, 200 knots



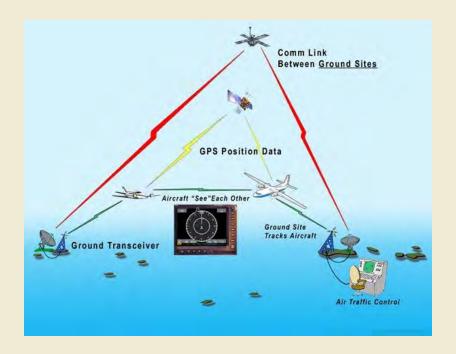
### Equipment



- Transponder
  - 10,000' and above
  - In or above Class C
  - 30NM Mode C
- Radio
  - Class B (clearance)
  - Class C and D (establish communications, must hear N-number)

# Automatic Dependent Surveillance – Broadcast (ADS-B)

 Starting January 1, 2020, you must be equipped with ADS-B Out to fly in most controlled airspace.



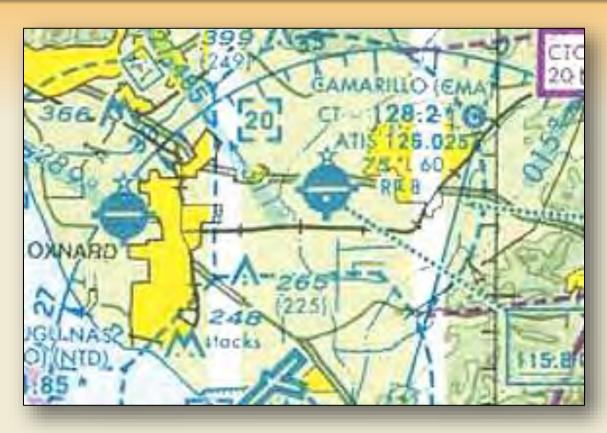


### Quiz: SZP

- Define airspace
  - Surface to 18,000'
- Cloud clearance?
- Requirements?
  - Transponder
  - Radio
- Speed limits?

18,000' MSL 1,000' No speed restrictions 5 miles visibility No radio 1 mile Yes transponder 1,000' 10,000' MSL 1,000' 250 knots speed 3 miles visibility 2000' No radio No transponder 500' 1200' AGL 250 knots speed 1 mile visibility No radio **Clear of clouds** No transponder

### Quiz: CMA



### Define airspace

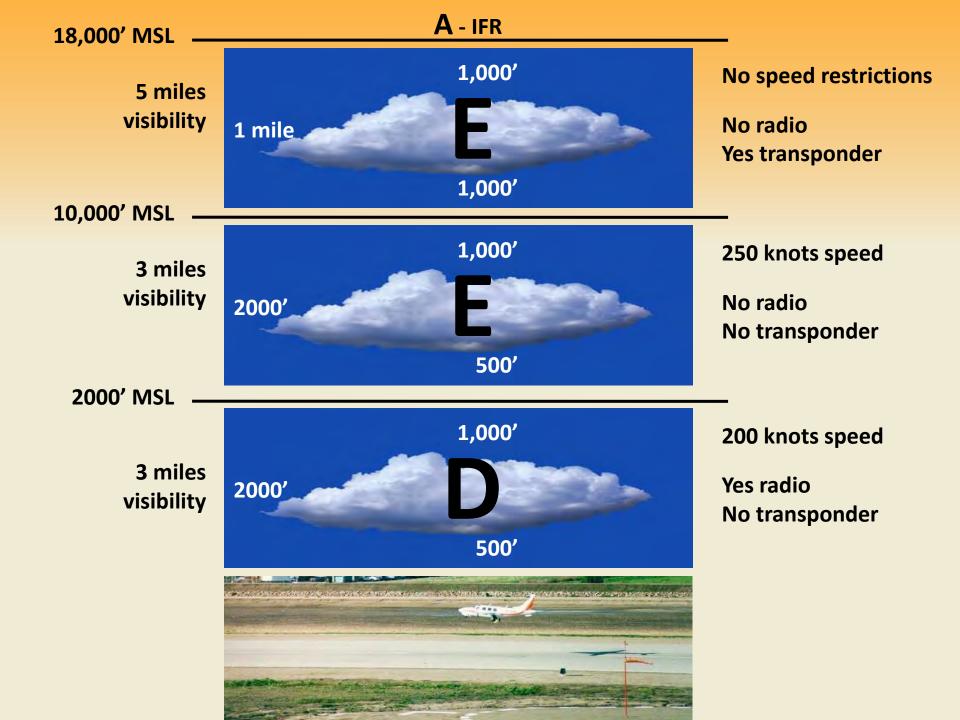
Surface to 18,000'

Cloud clearance?

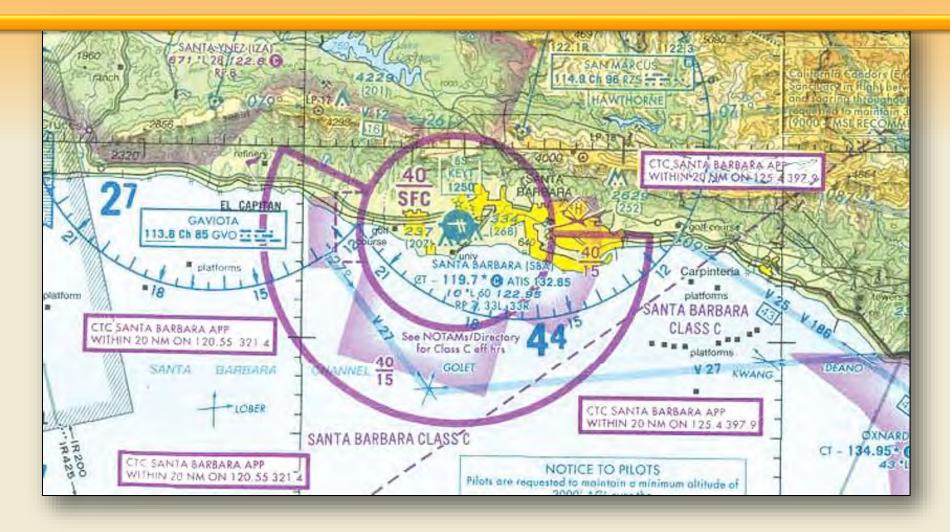
Requirements?

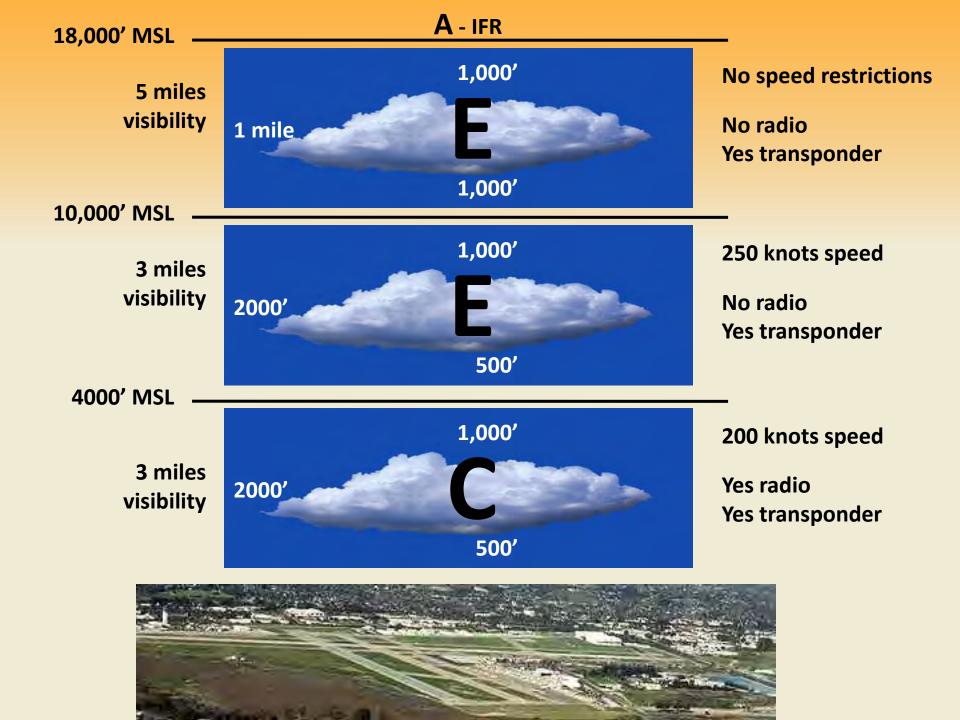
- Transponder
- Radio

Speed limits?



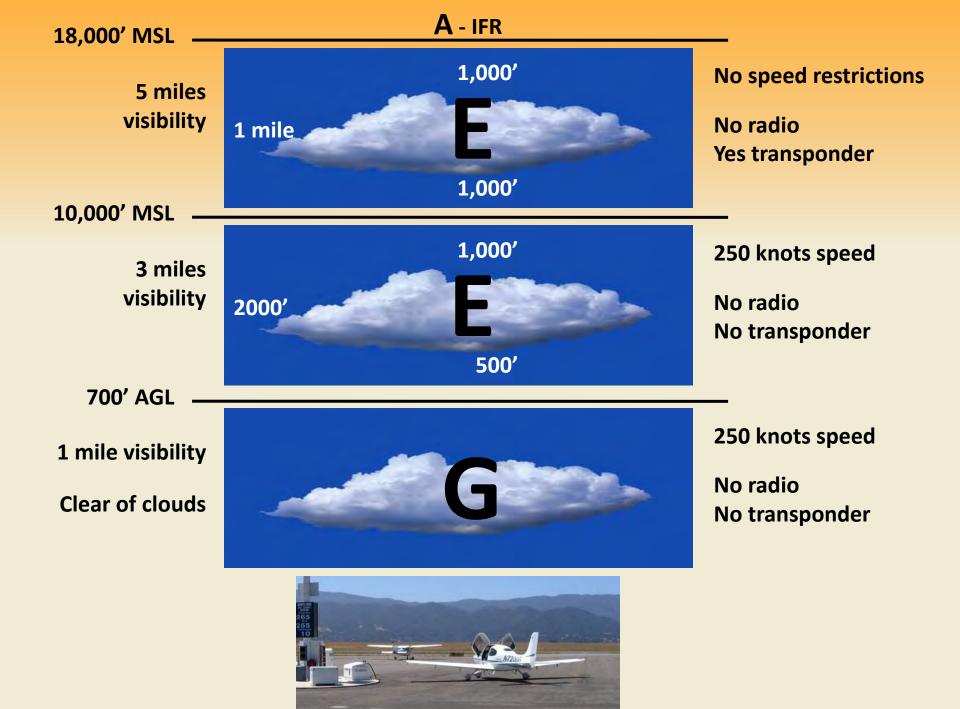
### Quiz: SBA



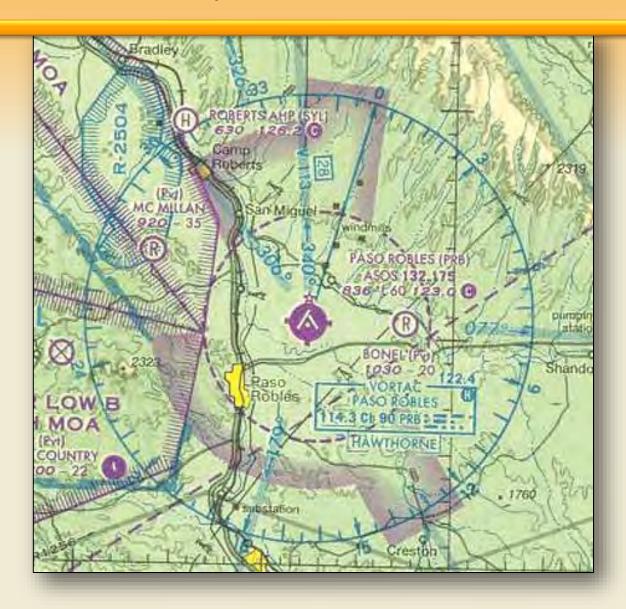


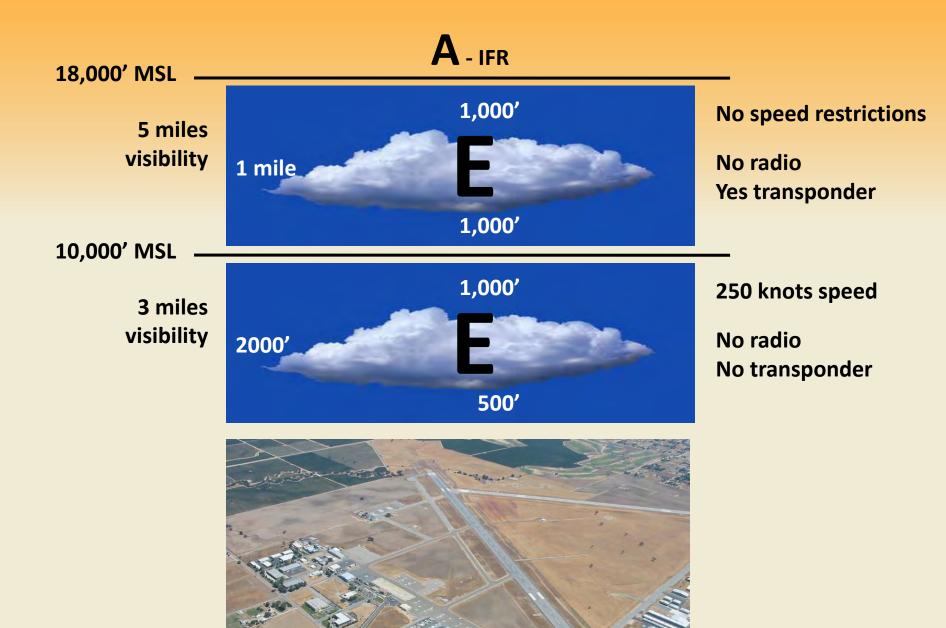
# Quiz: IZA





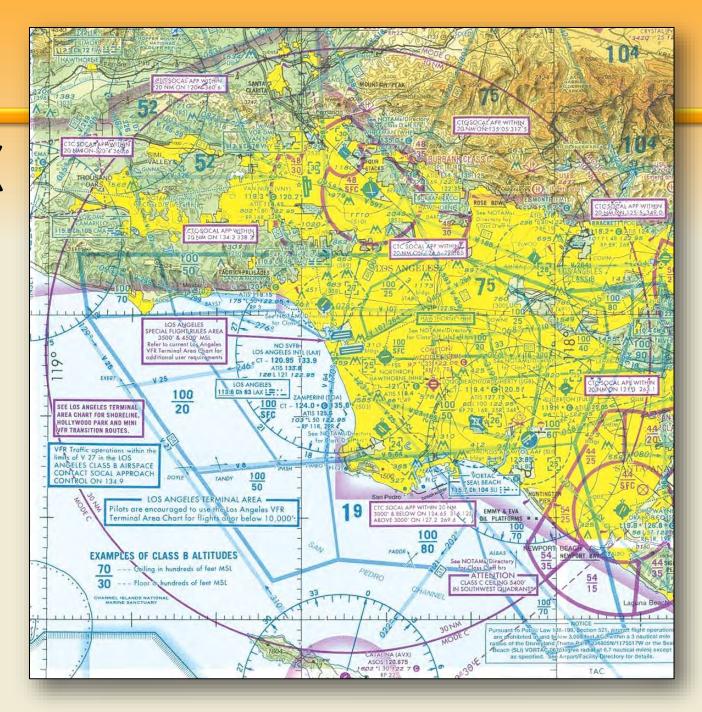
### Quiz: PRB





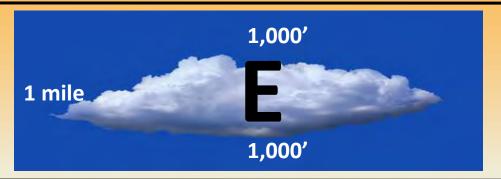
## Quiz:

### LAX



18,000' MSL

5 miles visibility



No speed restrictions

No radio Yes transponder

10,000' MSL

3 miles visibility Clear of Clouds



250 knots speed

Yes radio Yes transponder



Regardless if you are in controlled or uncontrolled airspace it is the responsibility of the pilot-in-command to see and avoid other aircraft.



# **Emergency Maneuver**Training Scholarship







In Memory of Vicki Cruse www.cpaviation.com