Back to Basics

Airspace

90 Minutes

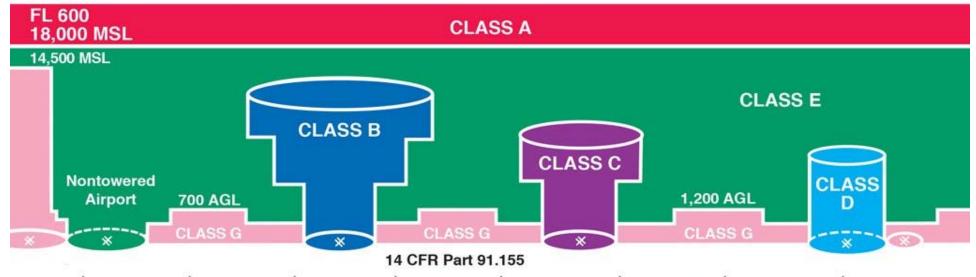
Presented to: On-Line Audience

By: Stephen K. Brown & John Wood

Date: June 2019



U.S. Airspace Classes at a Glance



Airspace Class	Entry Requirement	Pilot Certificate or Rating	Two-Way Communication	Altitude Decoding Transponder	VFR Min. Visibility Below 10,000 MSL	VFR Min. Visibility 10,000 MSL and Above	VFR Cloud Clearance Below 10,000 MSL	VFR Cloud Clearance 10,000 MSL and Above
A	ATC Clearance	Instrument	Yes	Yes	N/A	N/A	N/A	N/A
В	ATC Clearance	Private Certificate or student with endorsement	Yes	Yes within 30 nm of the class B primary airport¹	3 miles	3 miles	Clear of Clouds	Clear of Clouds
С	VFR: Radio Contact IFR: Clearance	Student Certificate	Yes	Yes within C space and above lateral limits of C space ¹	3 miles	3 miles	500 below 1,000 above 2,000 horizontal	500 below 1,000 above 2,000 horizontal
D	VFR: Radio Contact IFR: Clearance	Student Certificate	Yes	No unless required by other airspace	3 miles	3 miles	500 below 1,000 above 2,000 horizontal	500 below 1,000 above 2,000 horizontal
E	VFR: None IFR: Clearance	Student Certificate	IFR only	No unless required by other airspace	3 miles	5 miles	500 below 1,000 above 2,000 horizontal	1,000 below 1,000 above 1 mile horizontal
G	None	Student Certificate	No	No unless required by other airspace	Day: 1 mile Night: 3 miles	5 miles²	500 below 1,000 above 2,000 horizontal	1,000 below 1,000 above 1 mile horizontal

¹ An altitude decoding transponder is required above 10,000 MSL.

*** AGL = above ground level | FL = flight level | MSL = mean sea level ***

02/11

² When flying 1,200 AGL or below: DAY: 1 mile visibility clear of clouds; NIGHT: 3 miles visibility, 500 below, 1,000 above, 2,000 horizontal.

"Basic" Airspace



Mode C Transponder...*

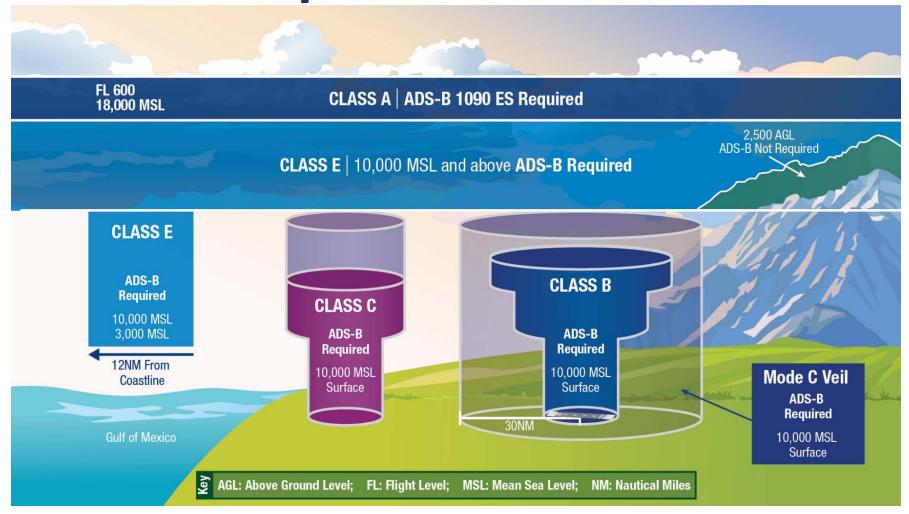
- 10,000MSL (2500)
- In & Above Class C

- In & Above Class B
- Mode C Veil

10 Mile of Airport – App D, 1200 AGL to 10,000 MSL



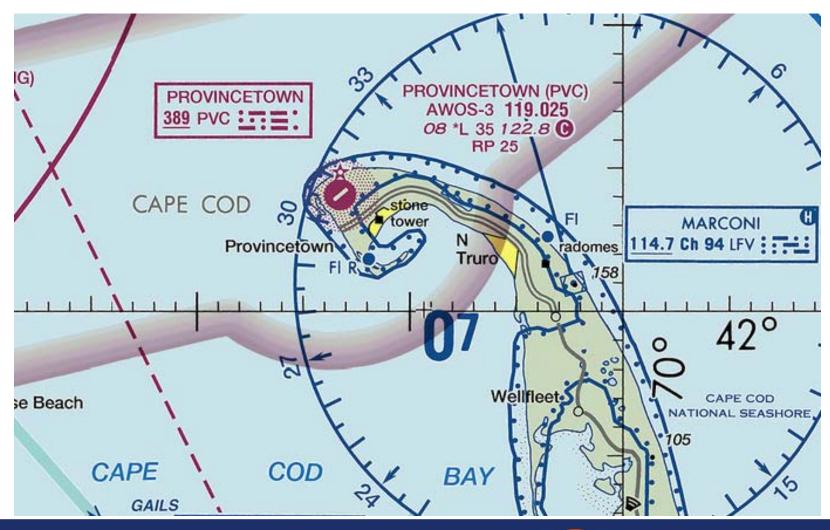
ADS-B Airspace



UAS Airspace Card

Upper Limit Undefined CLASS E FL 600 **CLASS A** 18,000 MSL **CLASS E** 14,500 MSL **CLASS B** Needs Waiver above 400ft ま **CLASS C CLASS D CLASS E** Air traffic 1,200 AGL 1,200 AGL 1,200 AGL Surface Area authorization required 700 AGL 700 AGL 700 AGL 700 AGL Air traffic CLASS G CLASS G **CLASS G** authorization Air traffic Air traffic authorizatior required authorization 400 AGL 400 AGL 400 AGL * required required **Above Ground Level** Class E Surface Extension Flight Level **Federal Aviation Airspace Guidance for Small UAS Operators** Mean Sea Level Administration

Provincetown, MA (KPVC)



What airspace would you be in if you could climb vertically from the surface up to 75,000?

- A. Class E up to 700 AGL, Class G from 700 AGL up to 18,000 MSL, Class A from 18,000 to & include FL600, Class G above FL600
- B. Class G up to 700 MSL, Class B up to 14,500 MSL, Class A from 14,500 to & include FL600, Class G above FL600
- C. Class G up to 700 AGL, Class E from 700 AGL up to 18,000 MSL, Class A from 18,000 to & include FL600, Class E above FL600
- D. Class F up to 2000 AGL, Class E from 2000 AGL up to 18,000 MSL, Class A from 18,000 to & include FL600, Class E above FL600
- E. Class E up to 1200 AGL, Class G up to 14,500 MSL, Class A from 14,500 to & include FL600, Class G above FL600

What airspace are you in and what are the VFR Minimums?

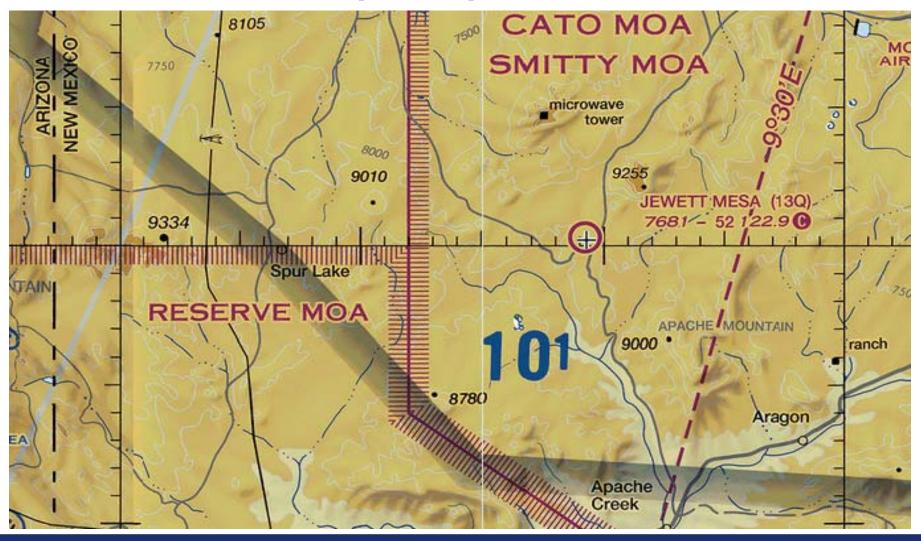
- A. Class E 3 sm, 1,000' above, 500' below & 2,000' horizontally
- B. Class G 1 sm, 1,000' above, 500' below & 2,000' horizontally
- C. Class G 3 nm, 1,000' above, 500' below & 2,000' horizontally
- D. Class G 1 sm, Clear of Clouds
- E. Class E 5 sm, 1,000' above, 1000' below & 1sm horizontally

What is your Traffic Pattern Altitude, Airspace and what are the VFR Minimums?

- A. 1,000'; Class E 3 sm, 1,000' above, 500' below & 2,000' horizontally
- B. 1,500'; Class G 1 sm, 1,000' above, 500' below & 2,000' horizontally
- C. 500'; Class G 3 nm, 1,000' above, 500' below & 2,000' horizontally
- D. 500'; Class G 1 sm, Clear of Clouds
- E. 1,000; Class E 5 sm, 1,000' above, 1000' below & 1sm horizontally



Jewett Mesa (13Q)



What airspace would you be in if you could climb vertically from the surface up to 75,000?

- A. Class E up to 1200 AGL, Class G from 1200 AGL up to 18,000 MSL, Class A from 18,000 to & include FL600, Class G above FL600
- B. Class G up to 14,500 MSL, Class E from 14,500 MSL up to 18,000MSL & include FL600, Class E above FL600
- C. Class G up to 1200 AGL, Class E from 1200 AGL up to 18,000 MSL, Class A from 18,000 to & include FL600, Class E above FL600
- D. Class B up to unknown altitude then Class E up to 18,000 MSL, Class A from 18,000 to & include FL600, Class E above FL600
- E. Class E up to 14,500 AGL, Class A from 14,500 to & include FL600, Class G above FL600

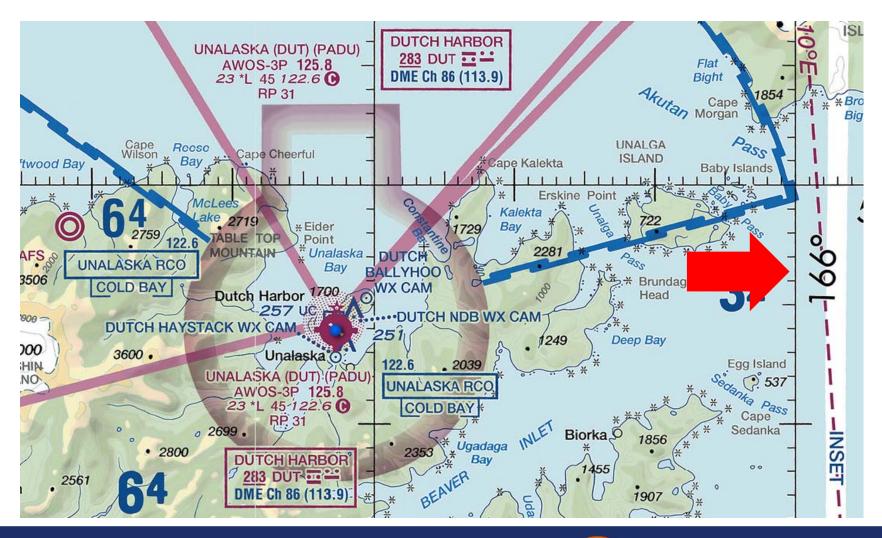
What airspace are you in and what are the VFR Minimums?

- A. Class E 3 sm, 1,000' above, 500' below & 2,000' horizontally
- B. Class G 3 sm, 1,000' above, 500' below & 2,000' horizontally
- C. Class G 3 nm, 1,000' above, 500' below & 2,000' horizontally
- D. Class G 1 sm, Clear of Clouds
- E. Class E 5 sm, 1,000' above, 1000' below & 1sm horizontally

What airspace are you in at 12,000 MSL and what are the VFR Minimums?

- A. Class E 3 sm, 1,000' above, 500' below & 2,000' horizontally
- B. Class G 3 sm, 1,000' above, 500' below & 2,000' horizontally
- C. Class G 5 sm, 1,000' above, 1000' below & 1 sm horizontally
- D. Class G 1 sm, Clear of Clouds
- E. Class E 5 sm, 1,000' above, 1000' below & 1 sm horizontally

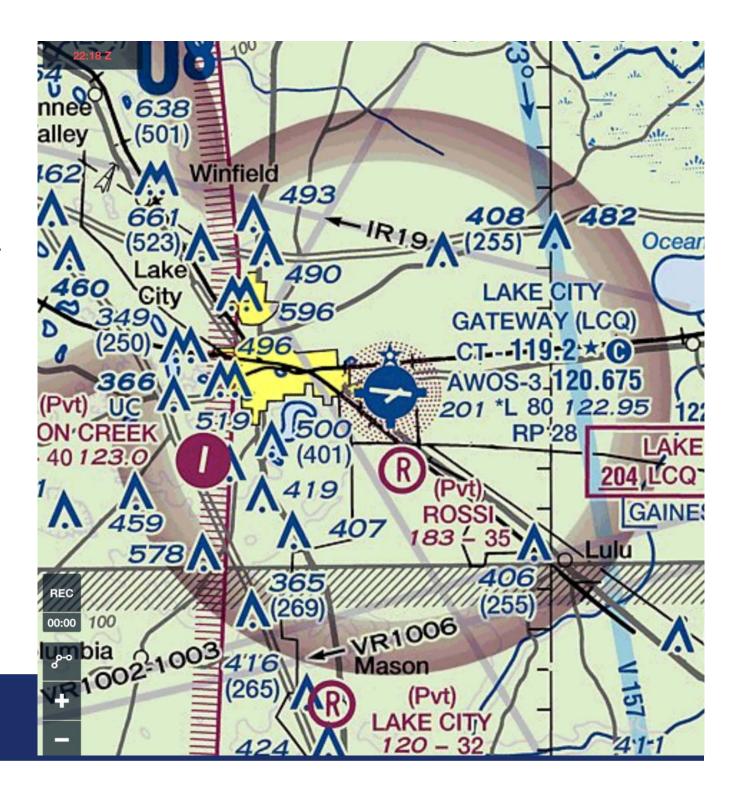
Unalaska (Dutch Harbor) PADU



What airspace would you be in if you could climb vertically from the surface up to 75,000?

- A. Class E up to 700 AGL, Class G from 700 AGL up to 18,000 MSL, Class A from 18,000 to & include FL600, Class G above FL600
- B. Class G up to 700 MSL, Class B up to 14,500 MSL, Class A from 14,500 to & include FL600, Class G above FL600
- C. Class G up to 700 AGL, Class E from 700 AGL up to 18,000 MSL, Class A from 18,000 to & include FL600, Class E above FL600
- D. Class G up to 700 AGL, Class E from 700 AGL up to 18,000 MSL, Class A from 18,000 to & include FL450, Class E above FL450
- E. Class E up to 1200 AGL, Class G up to 14,500 MSL, Class A from 14,500 to & include FL600, Class G above FL600

Lake City Gateway (KLCQ)



Back to Basic - Airspace June 2019

What airspace are you in and what are the VFR Minimums (3 miles south)?

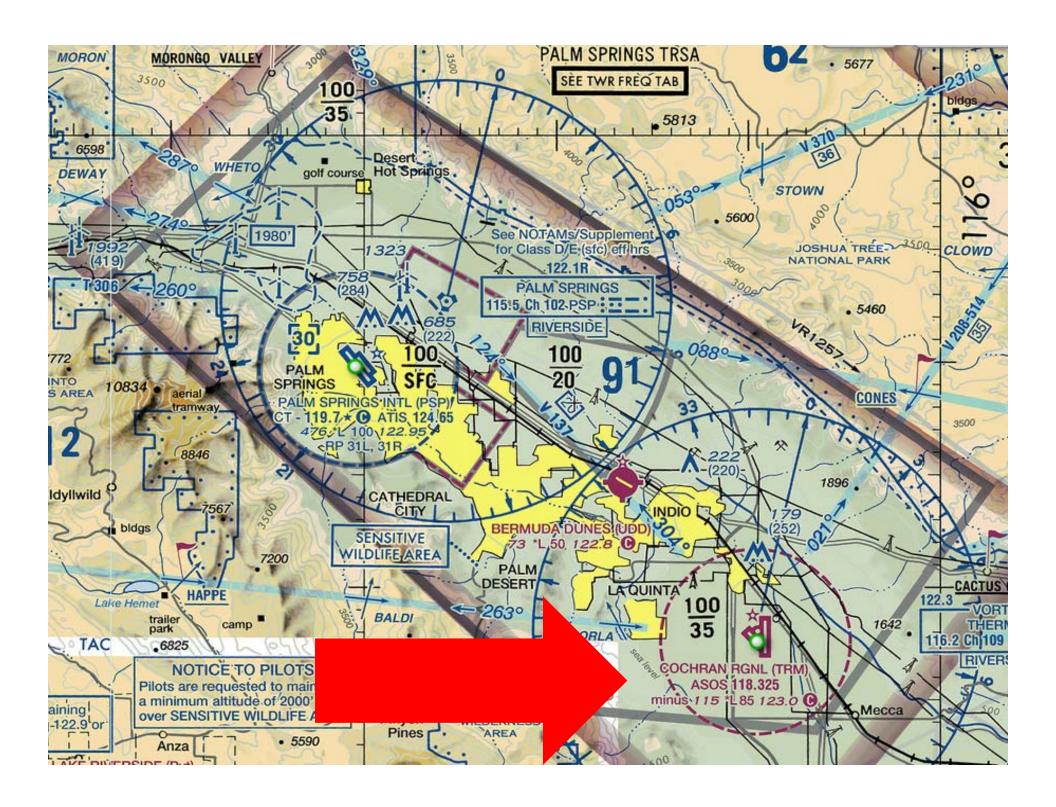
- A. Class G 1 sm, 1,000' above, 500' below & 2,000' horizontally
- B. Class E 3 sm, 1,000' above, 500' below & 2,000' horizontally
- C. Class D 3 sm, 1,000' above, 500' below & 2,000' horizontally
- D. Class G 1 sm, Clear of Clouds
- E. Class E 5 sm, 1,000' above, 1000' below & 1sm horizontally

What airspace are you in and what are the VFR Minimums (500 AGL Final) ?

- A. Class G 3 sm, 1,000' above, 500' below & 2,000' horizontally
- B. Class E 3 sm, 1,000' above, 500' below & 2,000' horizontally
- C. Class D 3 sm, 1,000' above, 500' below & 2,000' horizontally
- D. Class G 1 sm, Clear of Clouds
- E. Class E 5 sm, 1,000' above, 1000' below & 1sm horizontally

Were you required to call the tower before landing at Lake City?

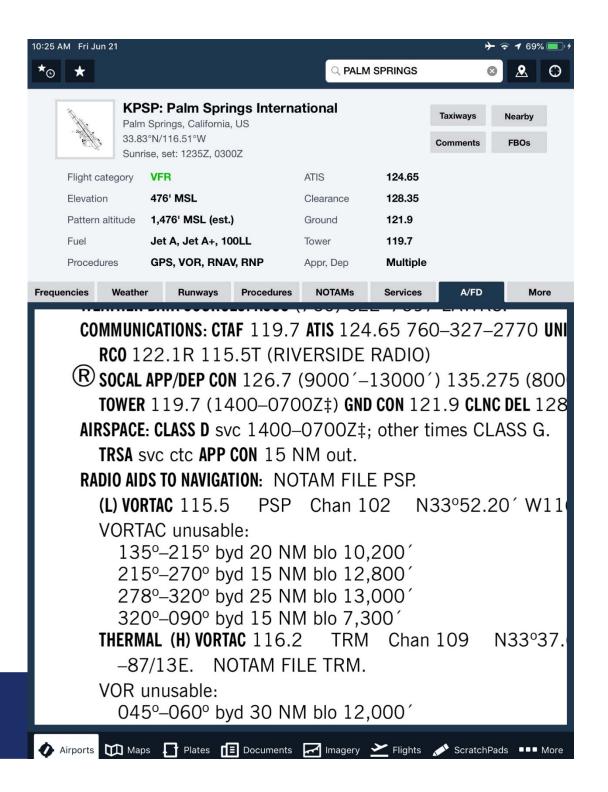
- A. Yes
- B. No
- C. No but you are required to make radio calls like it was a non-towered airport.



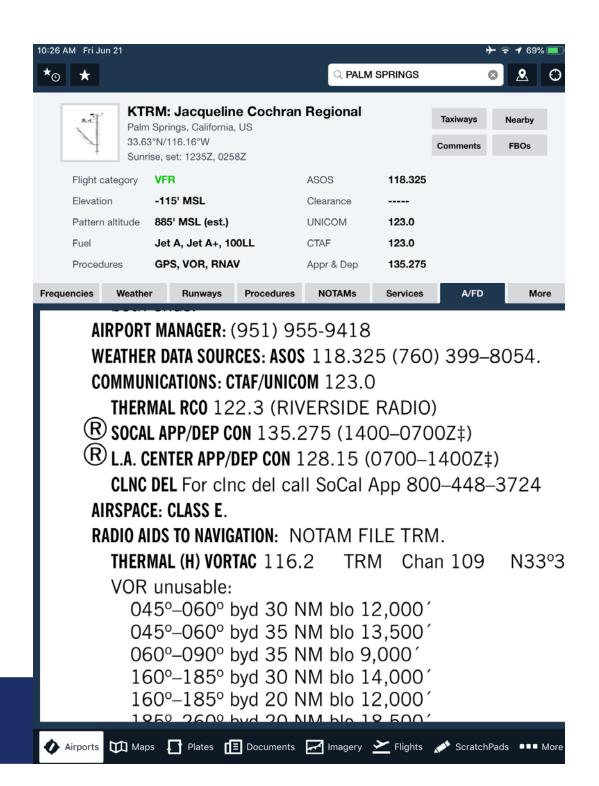
What airspace are you in and what are the VFR Minimums (500 AGL Final) ?

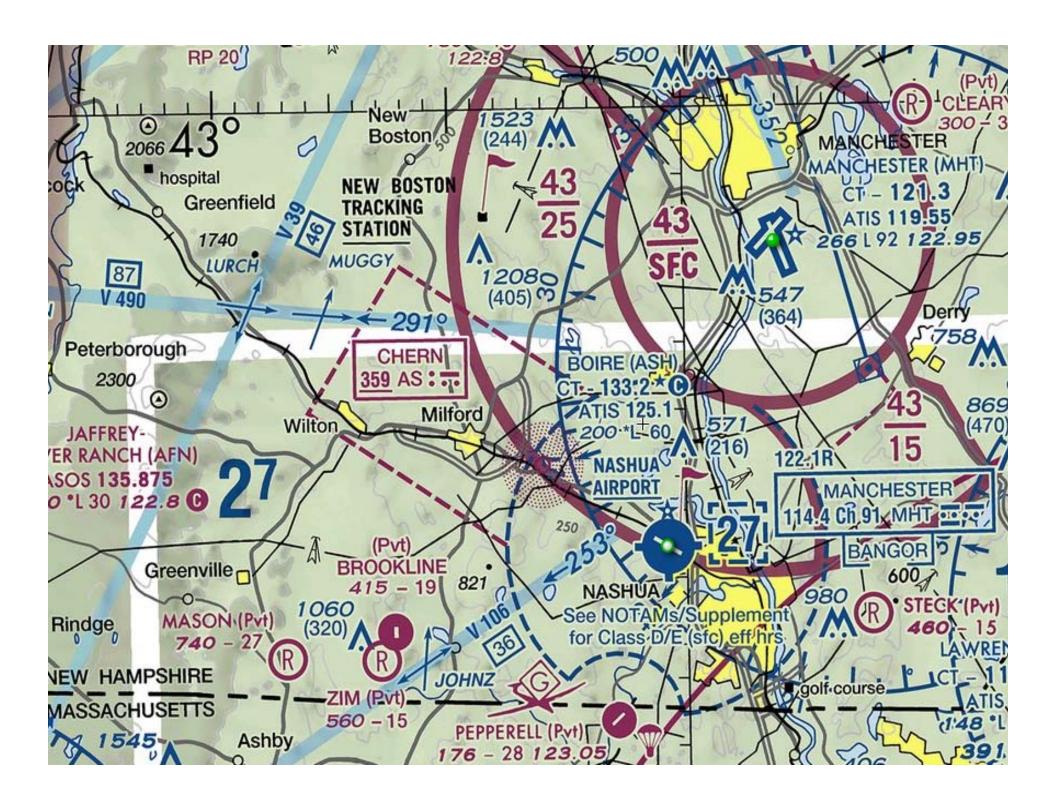
- A. Class G to the surface
- B. Class E to the surface
- C. Class D
- D. Class G up to 700 AGL
- E. Terminal Radar Service Area (TRSA)

Palm Springs



Jacqueline Cochran - Thermal





What airspace are you in just two miles north of Nashua at 2,600 msl?

- A. Class B
- B. Class C
- C. Class D
- D. Class E
- E. Terminal Radar Service Area (TRSA)

What is the maximum indicated airspeed you can be at?

- A. Below Mach 1.0 (or so)
- **B. 250 Kts**
- C. 200 kts
- D. 175 kts

Charts

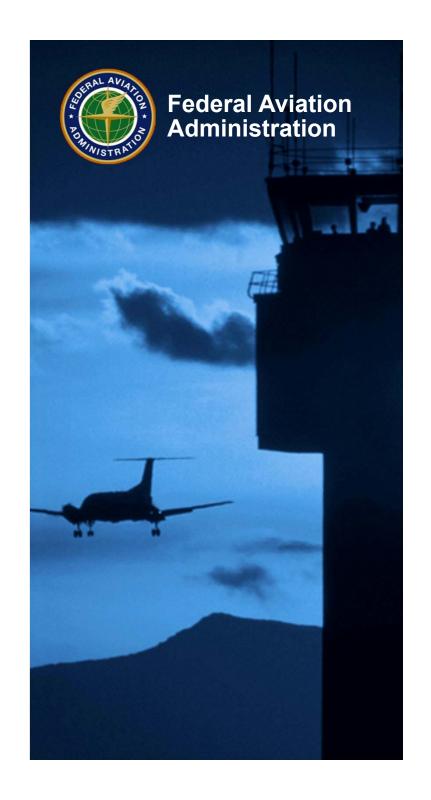
Things that make you go Hmmm...

90 Minutes

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By: Stephen K. Brown & John Wood

Date: January 2018



Charts

I have a Question....

90 Minutes

Presented to: On-Line Audience

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Date: February 2018

