

W44. Cumulus clouds indicate?

- A. You are in a low-pressure system.
- B. Fog may form around sunset when the air cools off.
- C. Conditions are smooth for flying.
- D. There's instability in the air with vertical air movement.

W45. Stratus clouds indicate?

- A. The barometer is probably not rising or falling very fast.
- B. Generally stable air with not much vertical movement at cloud level.
- C. There is a good chance that it will rain within two days.
- D. There is enough moisture in the air for fog to form.

W46. What do clouds indicate about the air?

- A. Some visual reference about what the air is doing.
- B. Flying will be dangerous and you should stay on the ground.
- C. There will be severe turbulence.
- D. There is a good chance there will be thunderstorms within 2 days.

W47. Towering cumulus clouds indicate?

- A. A warm front is approaching.
- B. The barometer is rising or falling with the possibility of thunderstorms.
- C. Nothing as long as they are in the distance.
- D. Strong vertical air currents with gust fronts and turbulence.

W48. Clouds will start to form when?

- A. The relative humidity of the air is high.
- B. Anytime there is a cold front.
- C. The air temperature hits the dewpoint.
- D. The gust front hits the warm air.

W49. What type of air would wind and cumulus clouds indicate?

- A. You should realize that the air will be challenging and should approach with caution.
- B. A cold front is approaching.
- C. There can be some enjoyable flying conditions with great visibility.
- D. Wait for a steady breeze before you take off.

W50. What are the three stages of a thunderstorm?

- A. Cumulus updraft, mature cloud forming rain, rain downdraft dissipation stage.
- B. Rain, thunder, and lightning.
- C. Cumulonimbus, evaporation, and condensation.
- D. Calm air, wind shear, and dissipation.

Terrain

W51. What effect do mountains have on airflow?

- A. Can block the winds so you can fly behind them safely when it is windy up high.
- B. Have no effect as long as the windsock at your flying site is calm.
- C. Mountain flying should be avoided by all pilots except the most advanced.
- D. Can cause turbulence or unpredictable winds from heating, cooling, and wind flow.

W52. Katabatic flow is caused from?

- A. Air cooling at the top of mountains and flowing down slope like a river.
- B. Wind blowing over the top of the mountains and sounding like a cat howling.
- C. Air funneling up the valleys because of the direction of the ridges.
- D. The last heating of the air before the sun goes down accelerating the upper air.