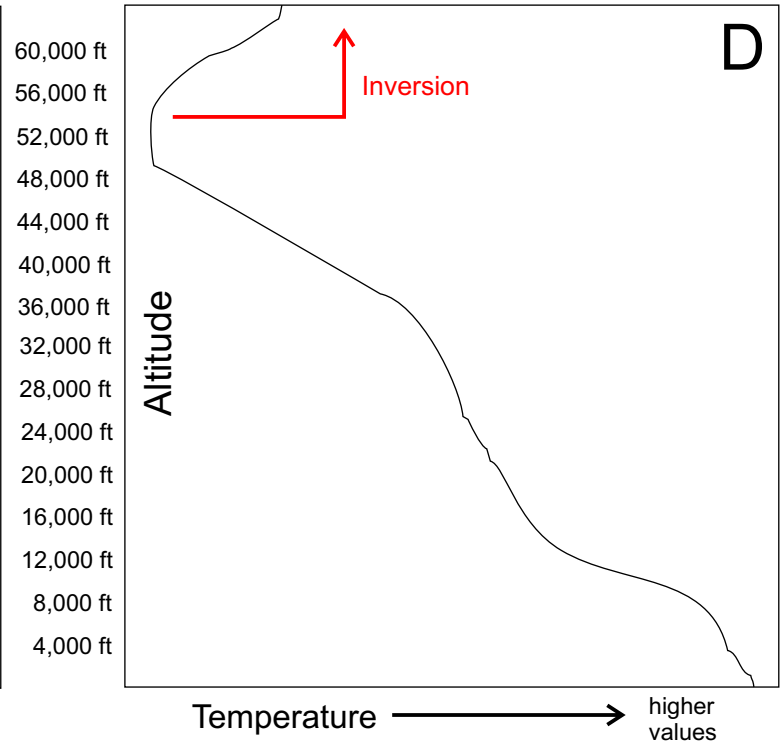
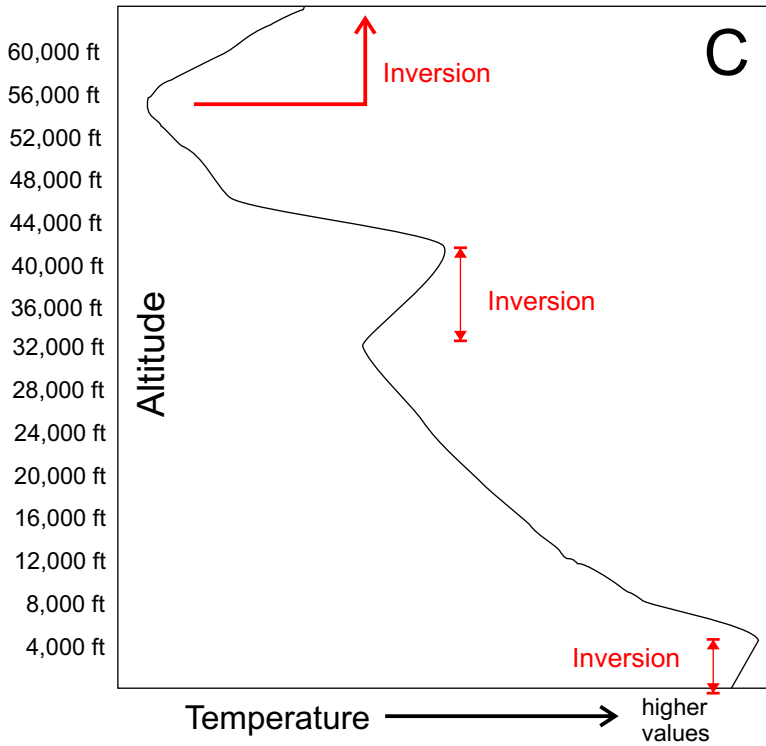
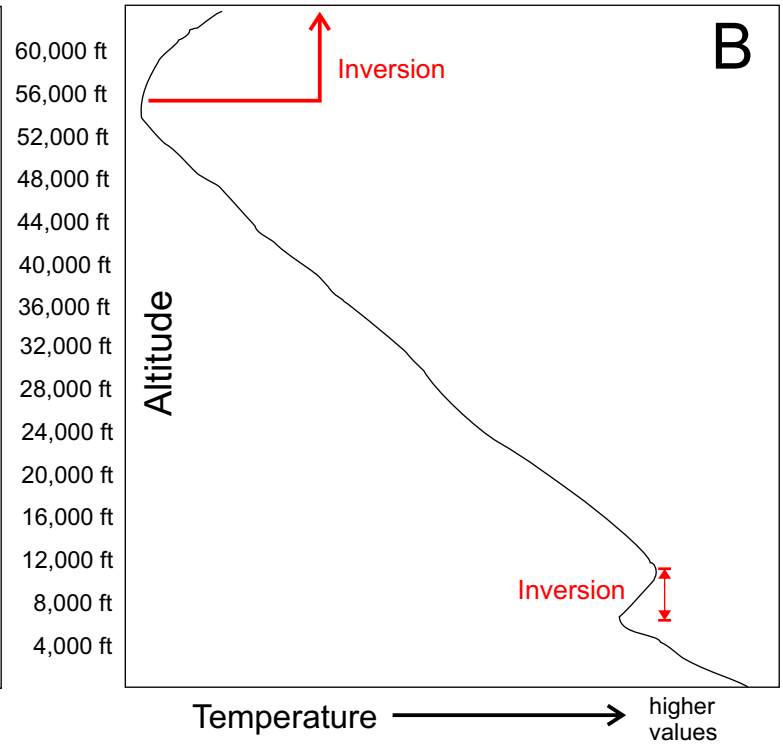
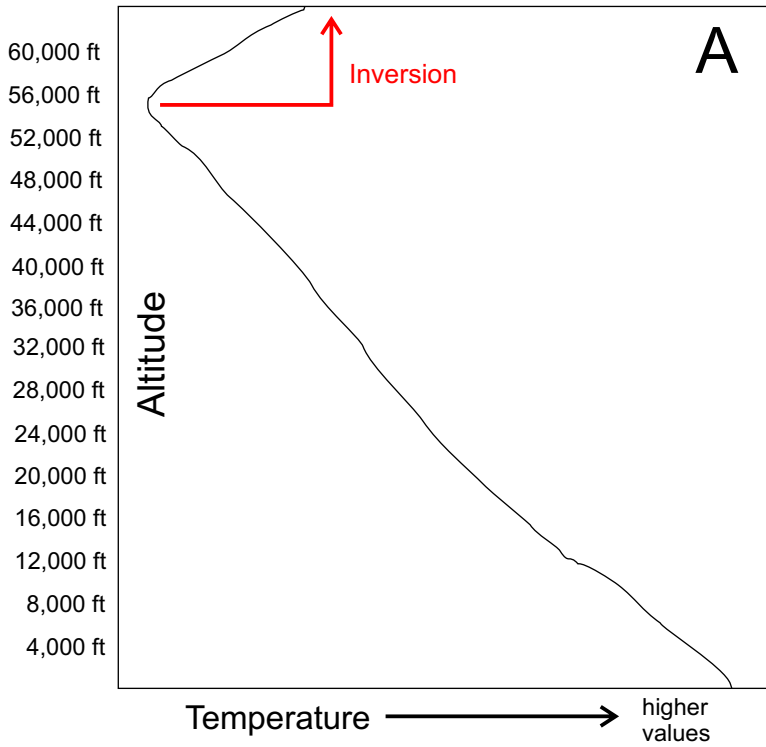


Weather and Air Pollution

Name: _____



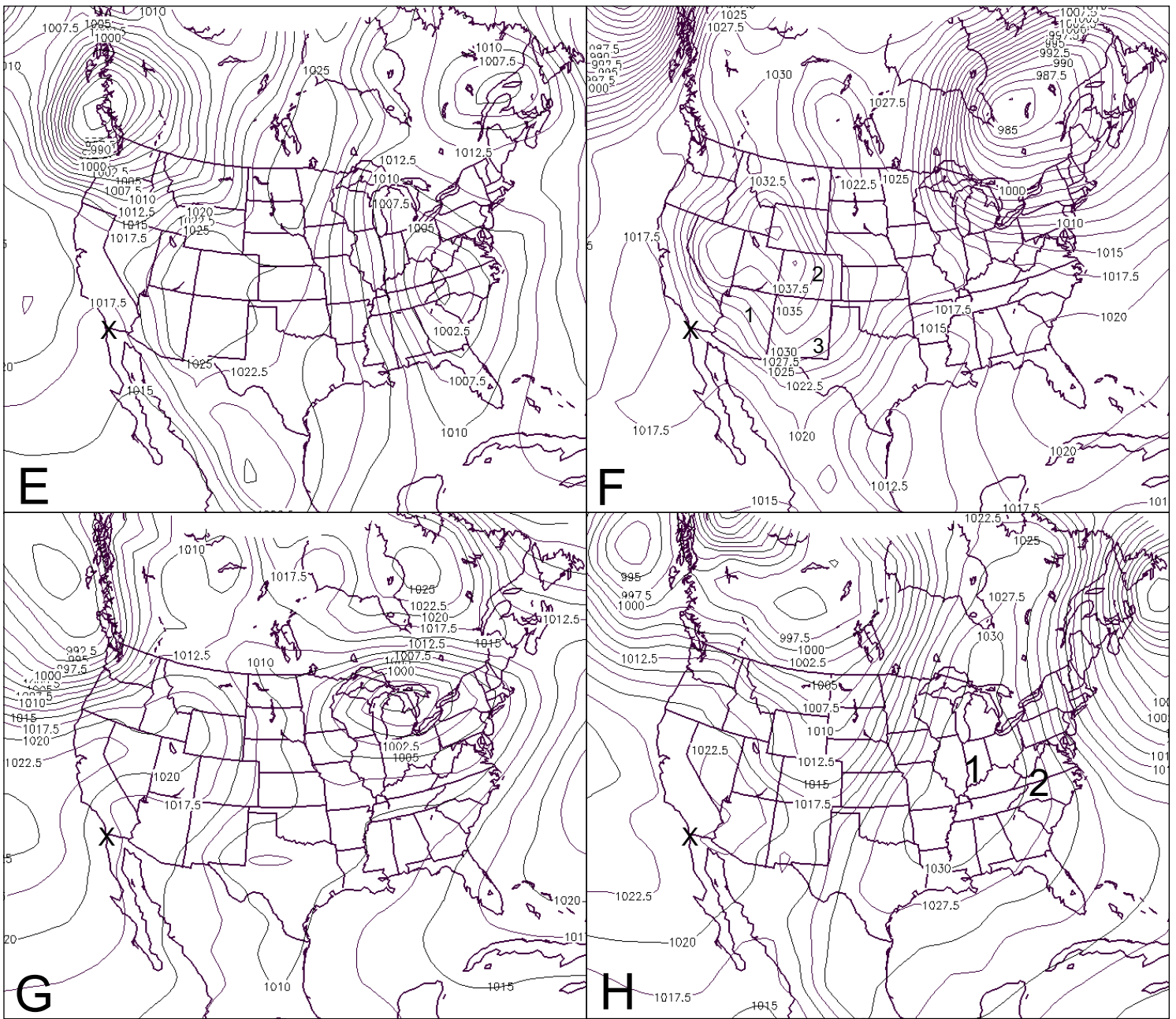
Above are four profiles of temperature as collected from a weather balloon. For each day, label where the temperature inversions are. (some days have more than one).

Which day would have the worst pollution near the ground? A B C D

Which day would have the clearest skies? A B C D

Which day would have a hazy sky but not smoke down next to the ground? A B C D

Some cities will issue warnings when it unhealthy to burn wood stoves - these may be called "red days" or "no-burn days." On which day would this warning be issued? A B C D



The above are sea level pressure maps, with the units in millibars.

What day would be the #1 worst day for air pollution in Albuquerque? **E** F G H

What day would be the #2 worst day for air pollution in Albuquerque? E **F** G H

What day would probably have the cleanest air in Albuquerque? E F G **H**

Suppose that on map F there are three wildfires burning at locations 1, 2 and 3. Albuquerque's skies fill with smoke. Which fire is the smoke from?

On map H there are two cities labeled 1 and 2. Assuming each city is the same size and is polluting the same amount, which city has the best air quality?

There is a factory in Tijuana - labeled with an "X" - that is producing a lot of air pollution. On which of these days (E F G H) will the air pollution from Tijuana be carried the farthest into California?