

Surface Weather Map Showing Storm System in the Eastern United States



Figure 2: Simplified surface weather map showing a storm system in the eastern US.

Warm air advection occurs where the cold front moves across northern Ohio together the warm front to lower-level air. Thus, warm air is being transported across a local location by the low-level winds. Based on this fact alone, one would expect precipitation at that location to be rain. Cold air advection occurs where the cold front moves off northern Ohio (lower-level) into higher (cooler) air. Thus, cold air is being transported by the wind to a warmer location, producing falling temperatures.

Based on wind directions and the isobars pattern on the Figure 2 map, determine the type of air advection (warm or cold) that would be occurring at each station.

3. Warm air advection was occurring at Station _____.

- ☐ A
☐ B
☐ C
☐ D

4. Cold air advection was occurring at Station _____.

- ☐ B
☐ C
☐ D

5. Considering the fact that deposition of most cloud components requires saturation with moisture, which area east of Lake Erie is expected to have air advection.

- ☐ Area A
☐ Area B

6. Meanwhile, where on the west end coastline of Lake Erie is expected to have _____ air advection.

- ☐ warm
☐ cold

7. Areas to the east of Erie is expected to have _____ air advection.

- ☐ warm
☐ cold

8. And while you choose here that only the weather based factor would be a high across the north of higher cloud base _____ air advection.

- ☐ warm
☐ cold

Answers For Weather Studies Investigation Manual

Yi-Tong Ma



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