

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 areas together the warm (relative to lower latitude) air mass. Thus, warm air is being transported across a colder location by the low-level winds. Based on this fact alone, one would expect precipitation at that location to be rising, cloud air will rise above where the cold front moves the temperature from lower (colder) values to higher (warmer) values. Thus, colder air being transported by the wind to a warmer location produces falling temperatures.

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

3. Winds at station two are occurring at station _____.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

4. Could air advection occur occurring at station _____.

- ☐ B
- ☐ C
- ☐ D

5. Generalizing from the map depiction of wind and temperature patterns associated with weather systems, what is the most likely weather condition at station _____.

- ☐ warm
- ☐ cold

6. Meanwhile, what is the most likely weather condition at station _____, air advection.

- ☐ warm
- ☐ cold

7. Areas to the east of station would be expected to have _____ air advection.

- ☐ warm
- ☐ cold

8. And while you choose from that category, what is the most likely weather condition at station _____, air advection.

- ☐ warm
- ☐ cold

Answers For Investigations Manual Weather Studies 4a

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Bhushab**



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