

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 wind flows across isotherms from higher pressure (closer to lower latitude) values. Thus, warm air is being transported across a cold front by the low-level winds. Based on this fact alone, one would expect precipitation at that location to be rising, cold air advection occurs where the wind flows across the isotherms from lower (colder) values to higher (warmer) values. Thus, cold air is being transported by the wind to a warm location, producing 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 expected at Station _____.

- ☐ warm
- ☐ cold

6. Most likely, what is the most and weather at Station can be expected to have _____ 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 city; weather based on the model of a high, what is the most of higher cloud cover _____ air advection.

- ☐ warm
- ☐ cold

Answers For Weather Studies Investigation Manual

Yijin Wang



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