

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 towards a low-pressure by the horizontal 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, 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 expected at Station _____.

- ☐ warm
- ☐ cold

6. Meanwhile, what is the most likely weather 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 option, what is the most likely weather to the east of Station _____, air advection.

- ☐ warm
- ☐ cold

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**United States. Environmental
Protection Agency**



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Technical Abstract Bulletin Defense Documentation Center (U.S.),1964 **Selected Water Resources Abstracts** ,1979
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