

Forecasting Weather MAP Worksheet #1

Figures 1—4 are weather maps for a 24-hour period. The maps show the position of pressure systems and fronts in the United States every 12 hours, beginning at 12:00 A.M. on Thursday. Examine the maps and think about what is occurring. Then answer the following questions.

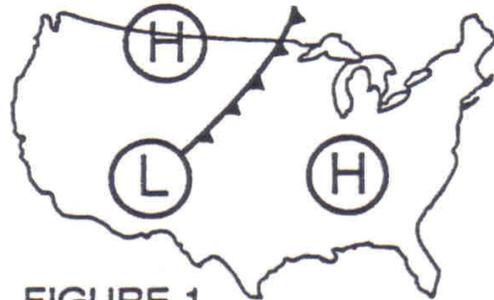


FIGURE 1



FIGURE 2



FIGURE 3

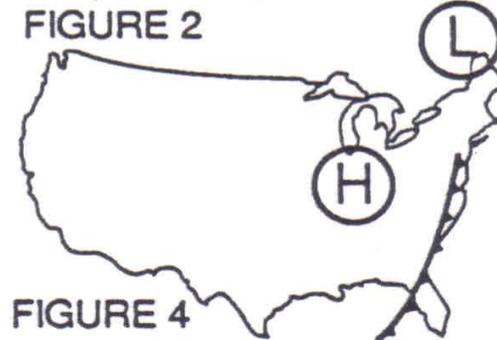


FIGURE 4

1. Briefly describe the movement of the high and low pressure systems shown on the maps.
2. Why do you think the cold front in Figure 1 developed?
3. What conditions were necessary for the development of the warm front in Figure 3?
4. What may be happening to the cold air mass as it moves southward from the Great Plains?
5. Explain what is happening to air along the cold front.

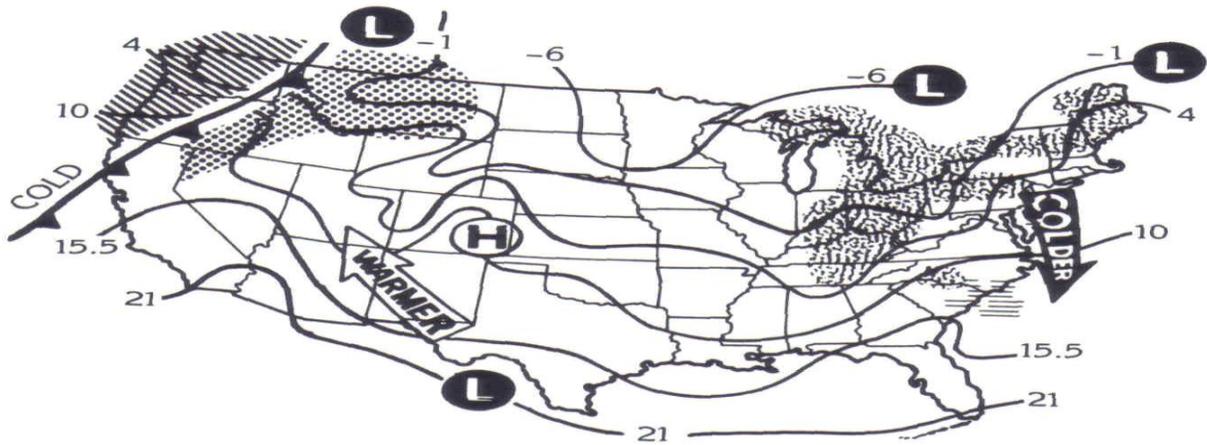
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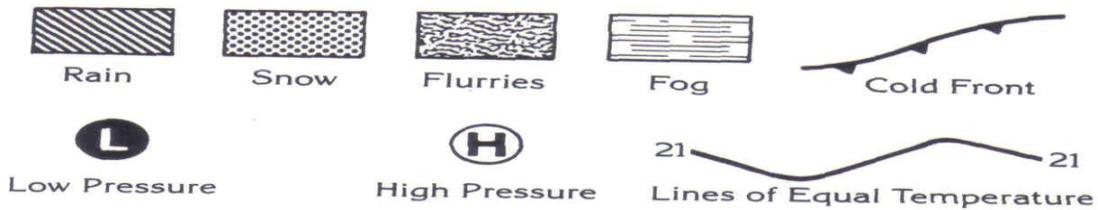
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Forecasting Weather MAP Worksheet #2

Weather Map



Weather Symbols



- This weather map shows conditions during the _____ season of the year.
- What are the probable weather conditions in each of these states?

a. Michigan	d. South Carolina
b. New York	e. Montana
c. Minnesota	f. Texas
- What kind of weather can Wyoming soon expect?
- What is the approximate temperature of each of these cities?

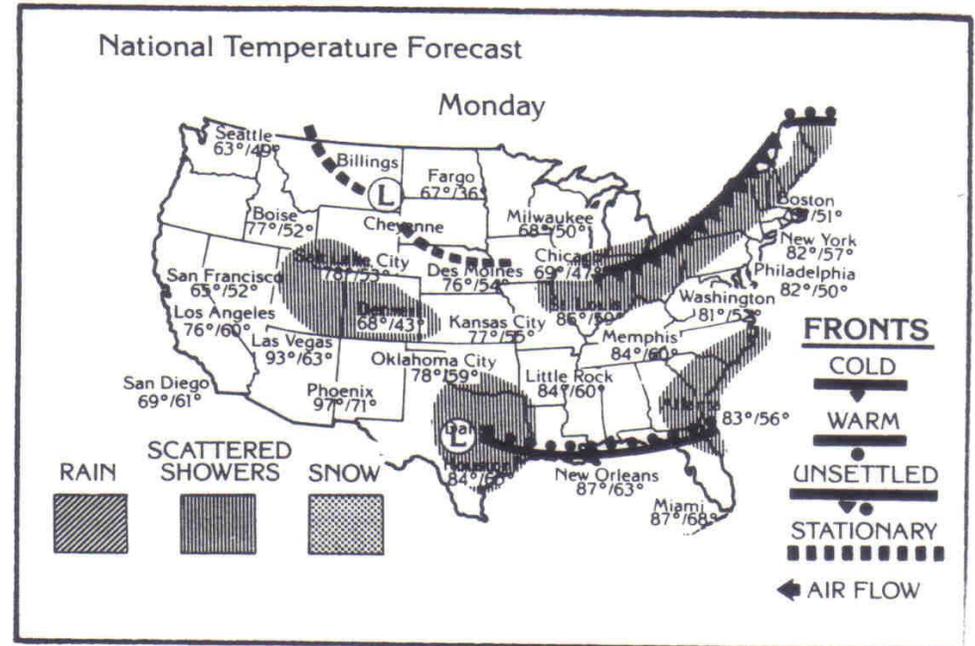
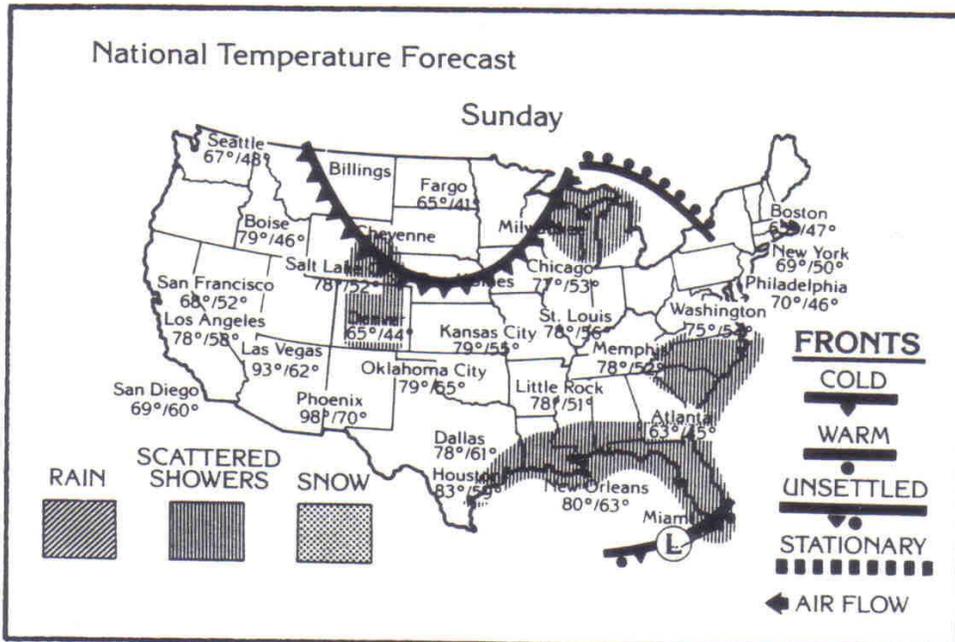
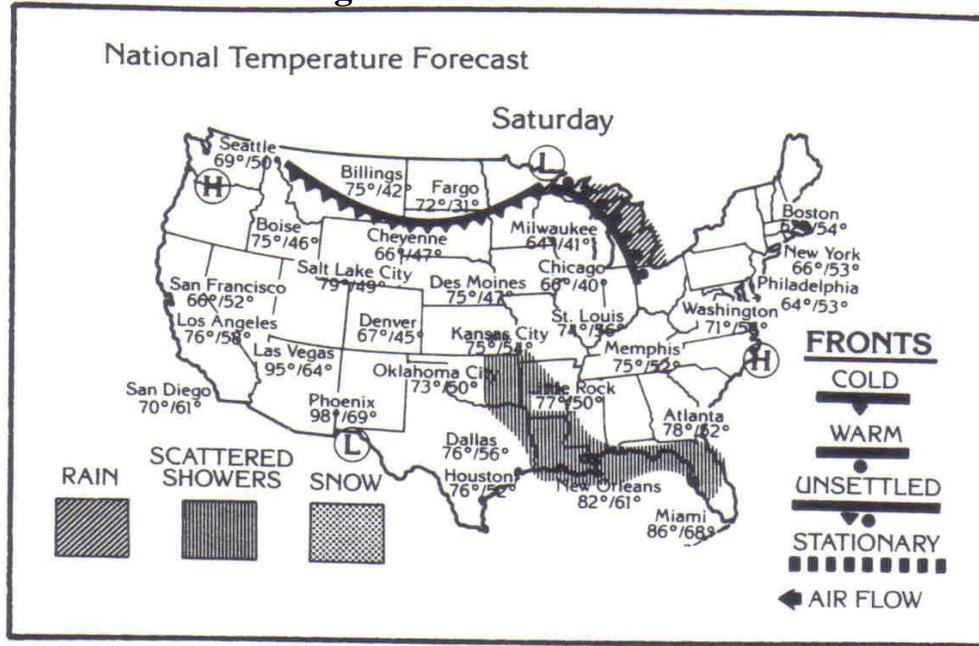
a. _____ New Orleans, LA	d. _____ San Diego, CA
b. _____ El Paso, TX	e. _____ Miami, FL
c. _____ Denver, CO	f. _____ Memphis, TN

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Forecasting Weather MAP Worksheet #3

Observe the movement of highs and lows and fronts on the weather maps for Saturday, Sunday and Monday on the maps shown above. Then make the following weather predictions for Tuesday

1. What large city in Texas will have its third day of rain?
 2. What will be the approximate high temperature for Atlanta?
 3. What will be the general weather conditions for Oklahoma City?
 4. What will be the high temperatures in the Great Lakes region?
 5. What will be the general weather conditions in Phoenix, AZ?
 6. Will Miami, FL, be warmer or cooler?
 7. Will Chicago, IL, be clear or rainy?
 8. What kind of front will have passed through Philadelphia, PA?
- What kind of front will have passed through New Orleans, LA

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Forecasting Weather MAP Worksheet #4

Use the weather map and Appendix L to answer the following questions.

1. Which station has the lowest pressure?

Station A Station B

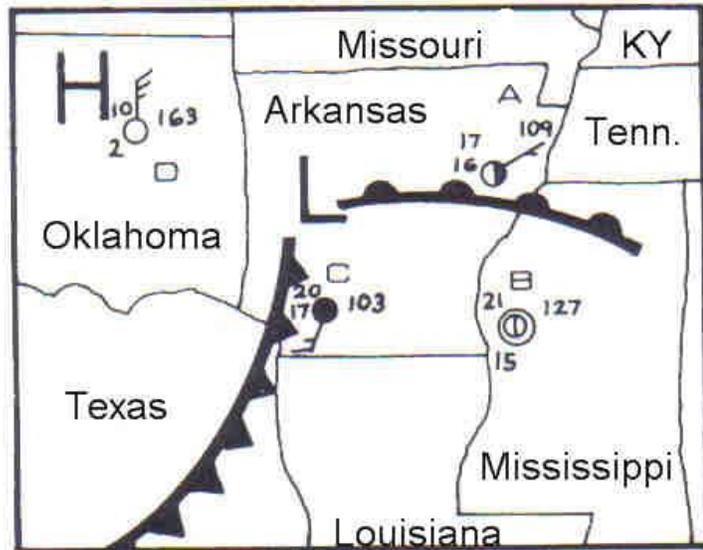
Station C Station D

2. How would you describe the wind at Station B?

3. Which station is recording the highest wind speed?

Station A Station B

Station C Station D



4. What is the wind speed from question #3?

5. What is the wind direction from question #3?

6. Which station has the highest pressure? Station A Station B Station C Station D

7. What kind of front is south of Station A?

8. Which station has the most cloud cover? Station A Station B Station C Station D

9. What is the cloud cover at Station A?

10. How might the temperature change at Station C over the next few hours?

11. Why?

12. What is the temperature at Station C?

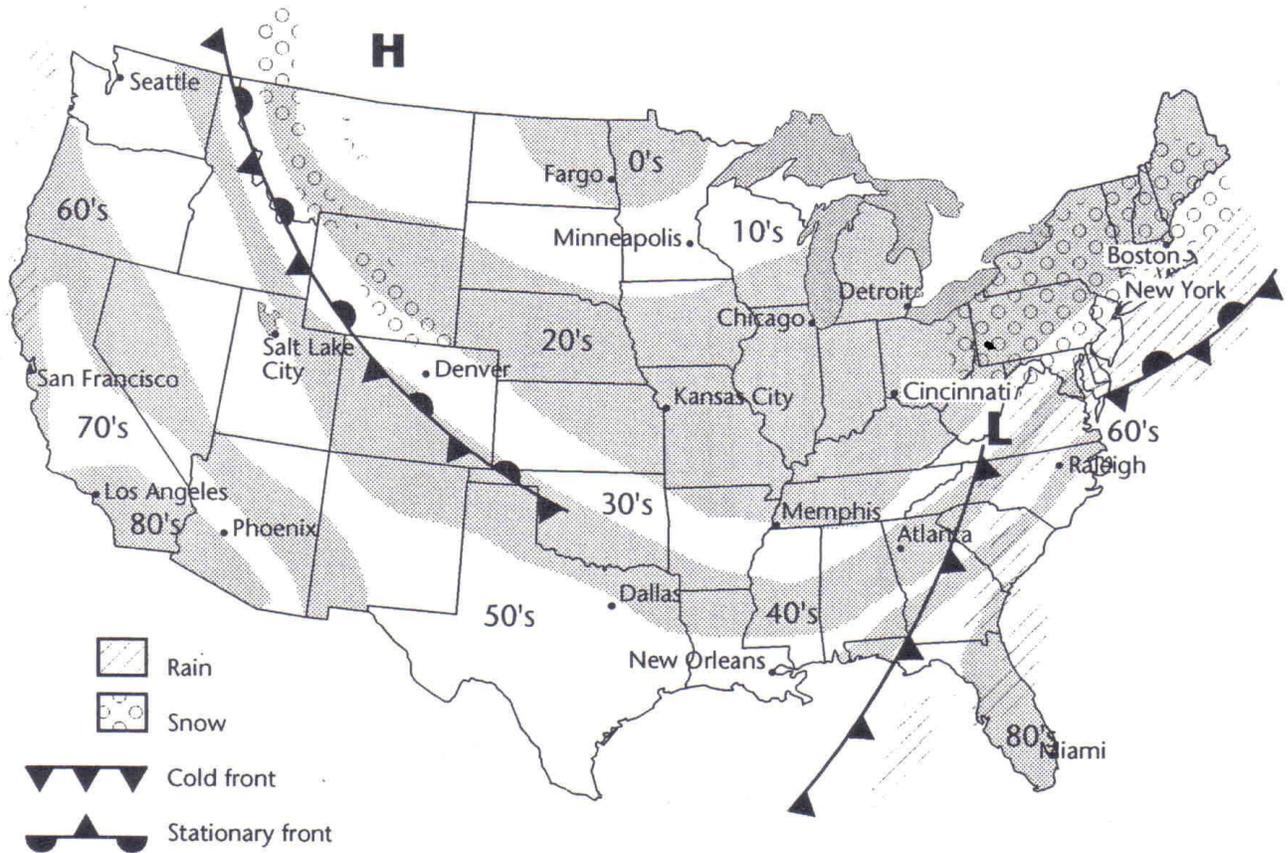
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Forecasting Weather MAP Worksheet #5

The symbols on the weather map below show the locations of fronts, high- and low-pressure areas, and different kinds of precipitation across the United States at 2:00 in the afternoon on a particular day in March. Shaded bands on the map indicate areas that have about the same temperature. The key below the map tells what the symbols mean.



Answer the questions below based on information in the weather map.

1. Would you expect to find clear weather or clouds near Fargo, North Dakota?
2. Where would you expect to find a storm?
3. How is the weather in Salt Lake City, west of the stationary front, different from the weather in Denver, east of the front?
4. What is happening to the air masses at the cold front?