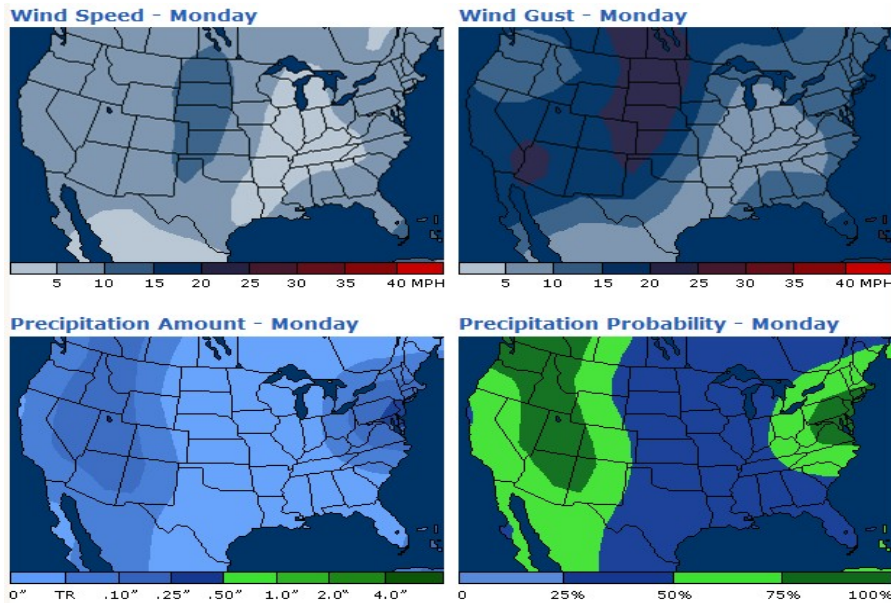


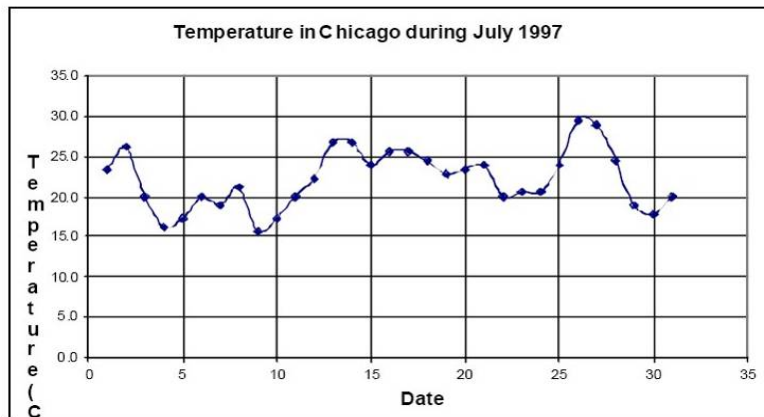
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1-3. Answer the following questions using the maps below (<http://www.accuweather.com>):



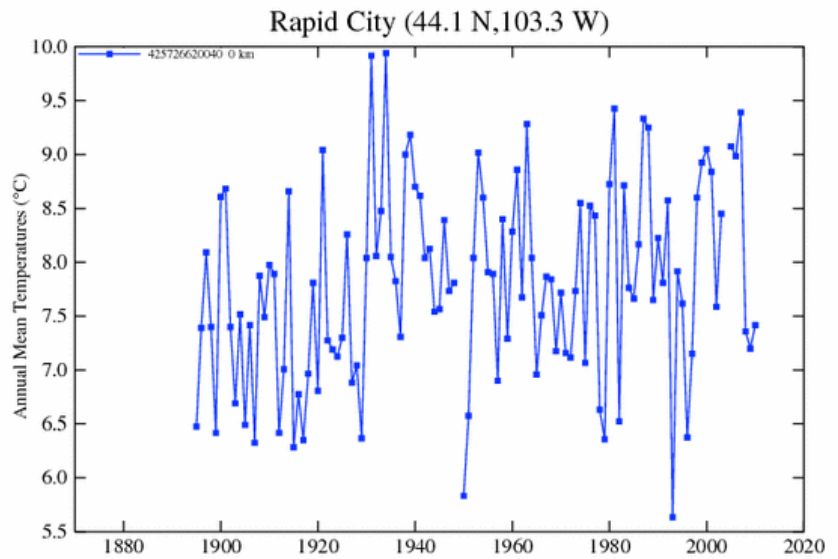
1. What was the fastest wind speed on this date according to the maps above? _____
2. What color represents the highest probability of precipitation? _____
3. What is the most precipitation that fell in the United States on this date? _____
4. What does the graph below represent?
 - a. A global warming trend
 - b. A normal fluctuation in temperatures in July 1997
 - c. A greenhouse effect
 - d. A fixed set of temperatures during July 1997



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5. Use the graph of Rapid City to the right to answer this question: How do the temperature values tell you whether or not climate change is happening Rapid City? Please explain why you made this decision.



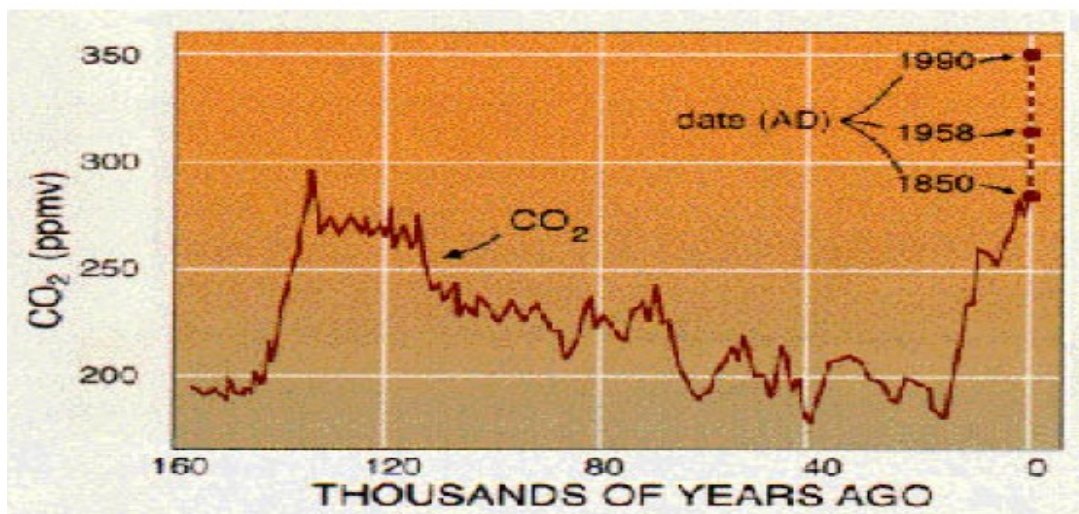
(http://data.giss.nasa.gov/cgi-bin/gistemp/gistemp_station.py?id=425726620040&data_set=1&num_neighbors=1)

6. Climate change isn't just about temperature. Name and describe another climate factor that may change along with temperature.

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Answer the following questions using the graph below.



7. "Ppm" is a measure of:
 - a. Mass
 - b. Size
 - c. Concentration
 - d. pH

8. The trend in the graph of CO₂ from about 135,000 years ago to about 15,000 years ago is best described as:
 - a. A rapid decrease
 - b. A rapid increase
 - c. A gradual decrease
 - d. A gradual increase

9. The trend in the graph of CO₂ from about 10,000 years ago to the present is best described as:
 - a. A rapid decrease
 - b. A rapid increase
 - c. A gradual decrease
 - d. A gradual increase

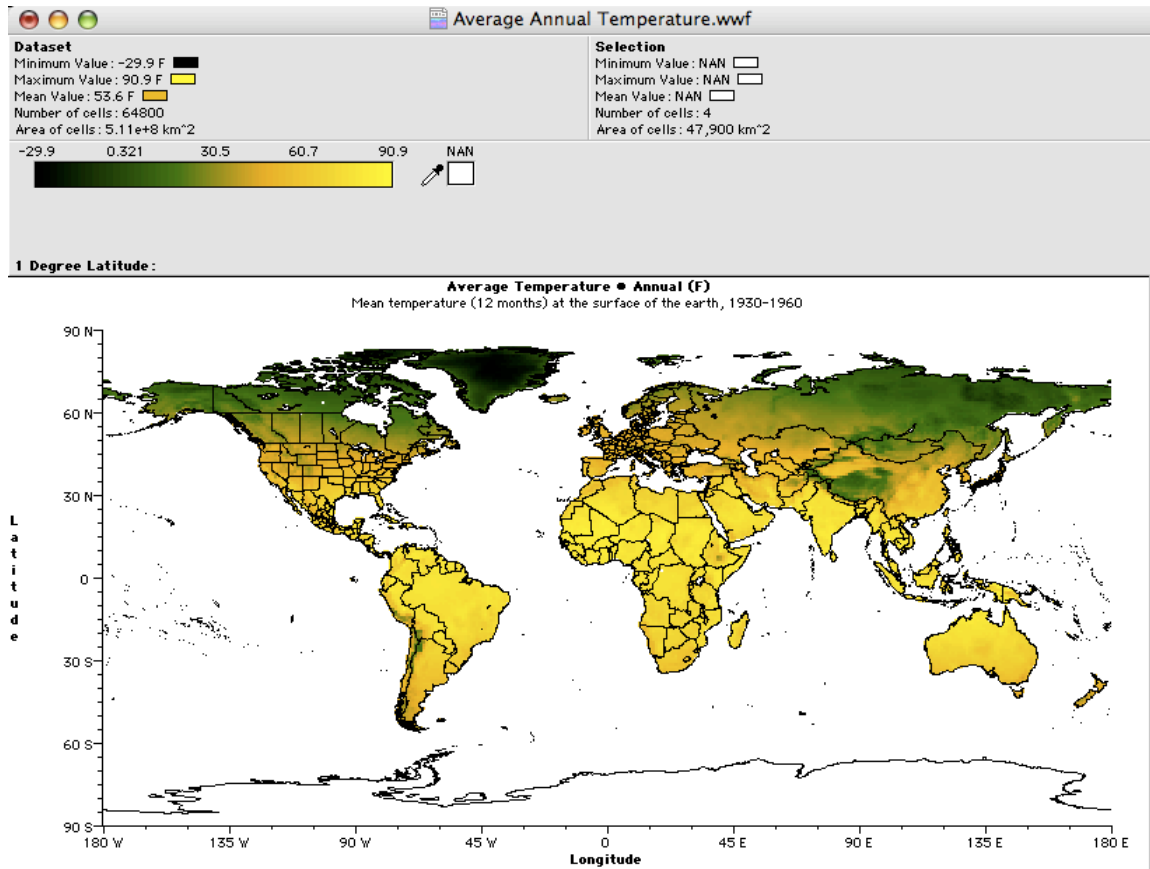
10. Many scientists say that (fill in the blank) _____ is a likely reason for the pattern in the amount of CO₂ in the atmosphere between 1850 and 1990.
 - a. A decrease in the Earth's surface temperature
 - b. The American Revolution
 - c. The Industrial Revolution
 - d. An increase in the Earth's surface temperature

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11. The average annual temperature at 60 S latitude on the map below is closest to:

- a. -29.9°F .
- b. 32.1°F .
- c. 0°F .
- d. 60.7°F .



12. Which of the following variables are not affected by climate change?

- a. Cloud cover
- b. Precipitation
- c. Sea ice thickness
- d. Wind speed

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13. Explain how looking at temperature data from the past can help draw conclusions about whether the climate is currently changing. Be as specific as possible.

14. Name and describe two examples of **evidence** that climate change is occurring. How does each source of evidence tell you that climate change is occurring?

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15. Use the space below to list or diagram the causes of climate change and explain in as much detail as possible how each cause affects the climate. List as many as you can:

Cause	Effect(s)