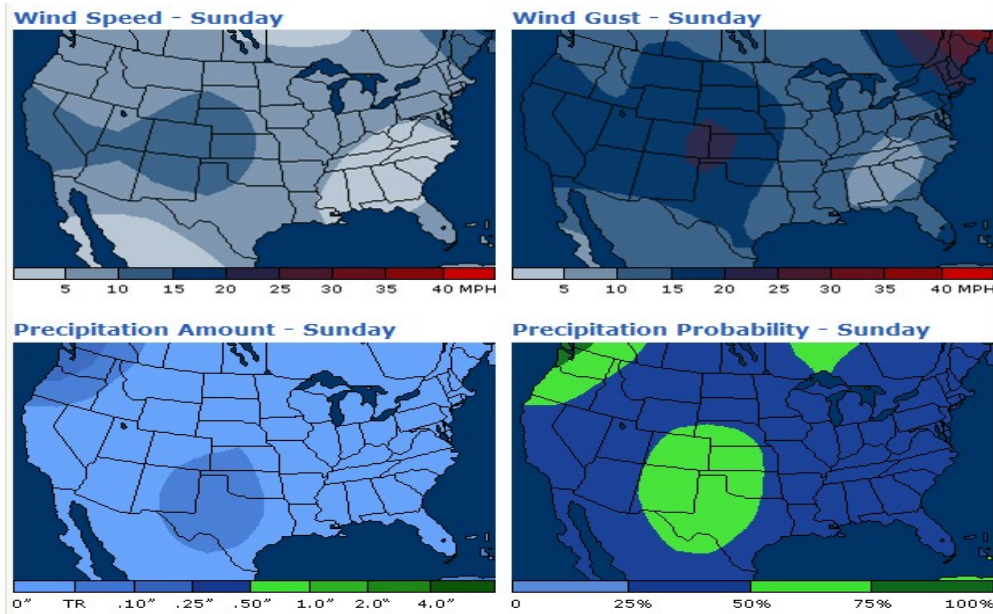


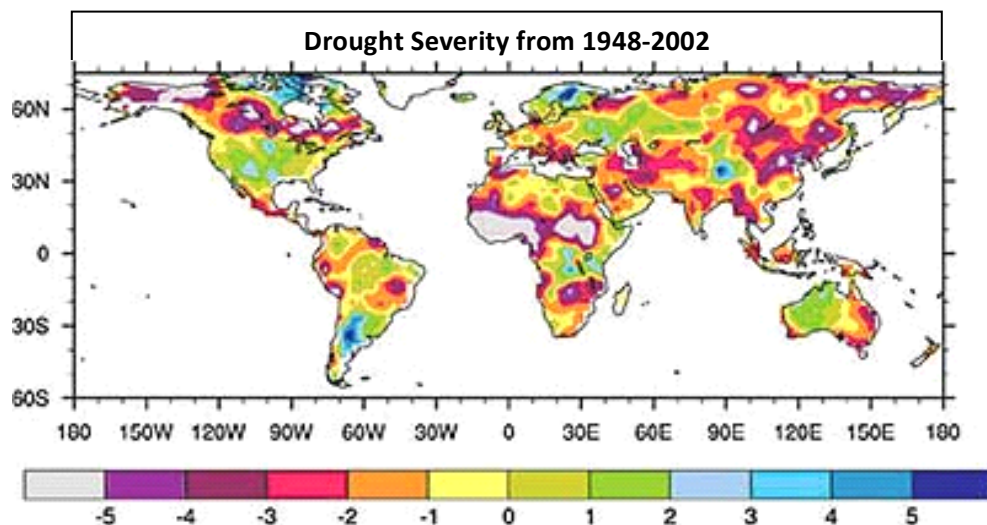
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1-3. Answer the following questions using the maps below (<http://www.accuweather.com>):



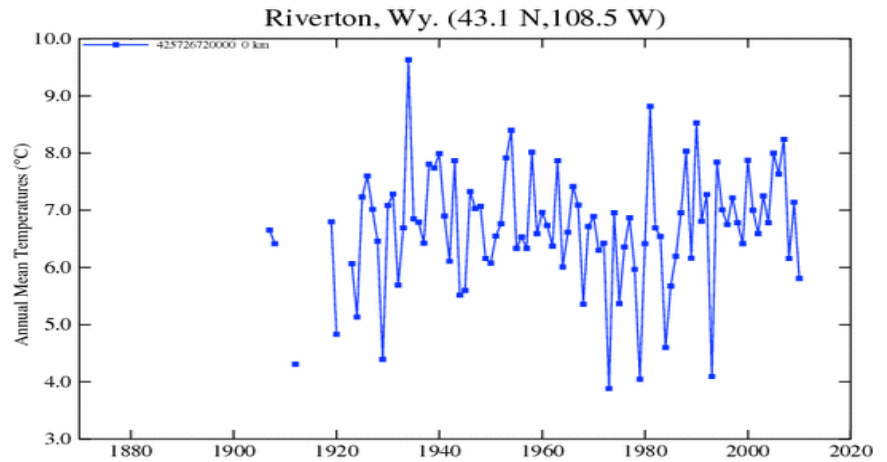
1. What was the slowest wind speed on this date according to the maps above? _____
2. What color represents the lowest probability of precipitation? _____
3. What is the most precipitation that fell in the United States on this date? _____
4. Which of the following statements is true based on the data shown on the map below?
 - a. There has been a global average decrease in precipitation.
 - b. There has been a global average increase in precipitation.
 - c. Precipitation in some areas of the world has increased.
 - d. Average annual precipitation for the United States has stayed the same.



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5. Use the graph of Riverton to the right to answer this question: How do the temperature values tell you whether or not climate change is happening in Riverton? Please explain why you made this decision. Write your answer in the box below.



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

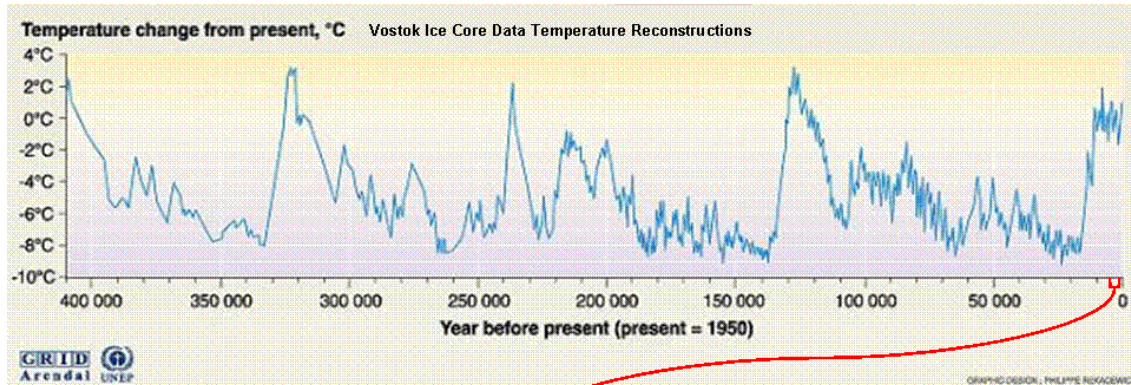
6. Climate change isn't just about temperature. Name and describe another climate factor that may change along with temperature?

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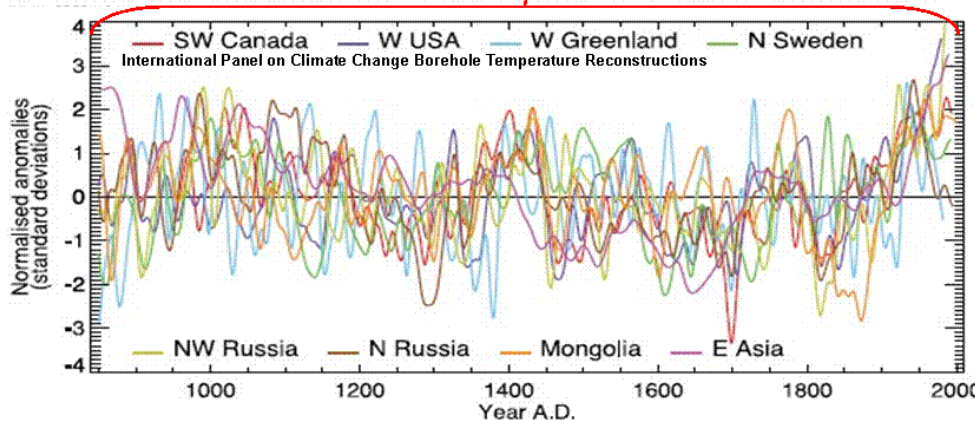
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7. "Ppm" is a measure of:
- Mass
 - Size
 - Concentration
 - pH

Use the graphs below to answer the following questions:



Source: J.R. Petit, J. Jouzel, et al. Climate and atmospheric history of the past 420 000 years from the Vostok ice core in Antarctica, *Nature* 399 (3 June), pp 429-436, 1999.



8. Around 320,000 years ago the temperature on Earth was:
- Colder than today
 - Warmer than today
 - About the same as today
 - Cannot determine the answer from the data provided
9. The time between 240,000 and 230,000 years ago can be described as:
- A rapid cooling period
 - A gradual cooling period
 - A rapid warming period
 - A gradual warming period

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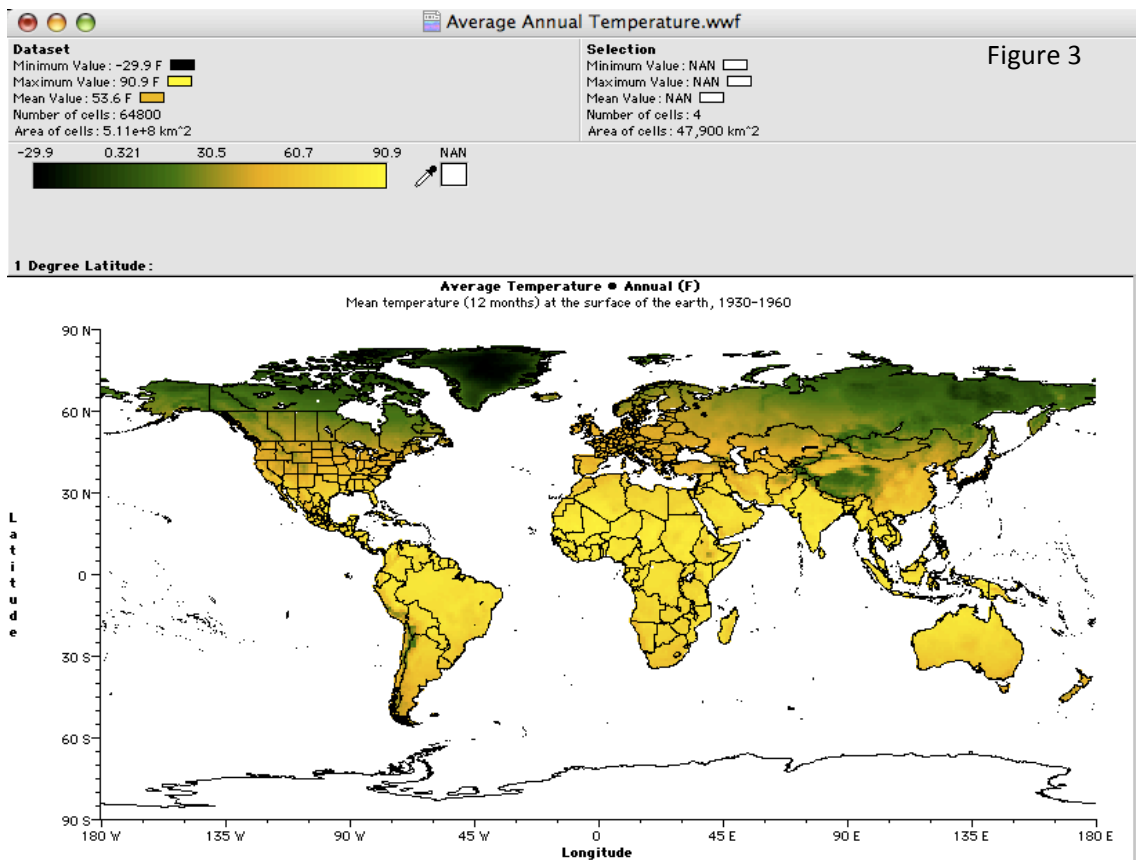
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10. Many scientists say that (fill in the blank) _____ is a likely reason for the pattern in the amount of CO₂ in the atmosphere between 1850 and 1990.

- a. A decline in the Earth's surface temperature
- b. The American Revolution
- c. The Industrial Revolution
- d. An increase in the Earth's surface temperature

11. Where is the **warmest** place on the map below?

- a. Between 0° and 30° S Latitude
- b. Between 0° and 45° E Longitude
- c. Between 60° S and 90° S Latitude
- d. Between 90° W and 135° W Longitude



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

- a. Cloud cover
- b. Day length
- c. Drought
- d. Sea ice thickness

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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)