

5. (5 pts) What is the difference between meandering and braided streams? Where is a braided stream likely to form? What is a meander cutoff? an oxbow lake?
6. (6 pts) What are three ways a stream transports sediments? Explain each.
7. (5 pts) How has global climate varied in the past? What are three reasons we believe global climate changes? State briefly the current controversy over global warming.
8. (4 pts) Explain this picture's significance. If an earthquake occurred, what data would we collect and how would we use it?
9. (4 pts) What is the difference between relative and absolute sea level? What probably happened at the site shown?

10. (4 pts) How is the area in purple different from the rest of the United States?
11. (3 pts) Why is a waterfall located as shown?
12. (8 pts) Explain the 1993 Mississippi River flood. What are three ways it was different from the 1927 flood?
13. (6 pts) Compare the three main approaches for analyzing risk. Apply them to reintroducing grey wolves into Yellowstone.

14. (**6 pts**) Sketch tidal ranges and wetlands, indicating the type of vegetation that is adapted to growing in each range.

15. (**5 pts**) What is wave refraction? Sketch it. How is it related to longshore drift?

16. (**8 pts**) Why do waves break? Sketch a wave approaching shore and label it.

17. (6 pts) What is an estuary? What are three reasons estuaries are biologically productive?

18. (4 pts) Who was Oetzi? How was he discovered? What are two things he can show us?

19. (5 pts) What is the most valuable thing you've learned in this class this semester?