**Climate and Oceans Study Guide**

**Define**

-greenhouse effect

-climate

-salinity

-density current

1. List reasons why carbon dioxide levels have been increasing in the atmosphere.

2. What causes Earth's global temperatures to increase?

3. Which gas is most responsible for the greenhouse effect on Earth?

4. List several natural causes of climate change.

5. Which NATURAL cause of climate change primarily influences Michigan's climate?

6. How can the salinity of ocean water increase for a period of time?

7. What is another name for the Great Ocean Conveyer Belt?

8. If wind patterns affect ocean currents. If ocean currents have changed their circulation patterns, what could you assume happened to the wind currents?

9. As ocean water gets denser, how does it move?(Sinks or floats

10. How does the temperature of the ocean affect the air above it?

11. List some causes of ocean waters warming.

12. Can hurricanes form over any large body of water?

13. How do scientist predict the consequences of warmer ocean temperatures?

14. What criteria do scientist use to classify climates?

15. Describe the weather that occurs and where due to El Nino and La Nina.

16. List the greenhouse gases we discussed in class.

17. How can people help reduce global warming?

18. Describe several natural causes to climate change.

19. In which direction does the Coriolis effect cause currents in the northern hemisphere? (Counterclockwise or clockwise)

On the test there is one written response questions. I am giving you the question now so you can research the answer. Based on evidence of observable changes in recent history and climate change models explain two consequences of warmer oceans.