

Name: _____ Date: _____ Period: _____

Effects of Ocean Warming Notes

1. Do you think melting of land ice, melting of sea ice, or thermal expansion of water will contribute more to sea level rise and why?
2. Why are greenhouse gases important to have in Earth's atmosphere?
3. What does the Keeling Curve show?
4. How much have global temperatures risen in the past century?
5. How much have global sea surface temperatures risen in the past century?
6. List three possible effects that warmer sea surface temperatures could have on our planet.
7. Will melting of land ice cause sea levels to rise? Why or why not?
8. Will melting of sea ice cause sea levels to rise? Why or why not?
9. Will thermal expansion of water cause sea levels to rise? Why or why not?
10. Was your hypothesis correct about which would cause more sea level rise correct?
11. What has happened to the level of land ice in the Arctic from 1979 to 2007?

12. How much does sea level rise per year?

13. How much will melting ice sheets increase sea level? How much will melting glaciers increase sea level?

14. How much of the U.S. would be affected by a sea level rise of just 10m?

15. What happens to corals (and their zooxanthellae) as ocean temperatures rise?

16. What could a decrease in the world's coral reefs mean for humans?

17. How is less sea ice affecting the polar bears?

18. What are three effects of warmer sea surface temperatures on sea turtles?

19. What are two possible changes in weather patterns that warmer sea surface temperatures could cause?

20. What can be done to slow or stop these changes from happening?