**Study Guide for the Climate Change Test**

l. What is the difference between land masses’ and water bodies in relation to solar radiation?

2. Why are a All farmers nervous and tend to be cautious about when to plant?

3. What relationship does the melting of the north polar icecap have to sea level?

1. What relationship does the melting of the Greenland continental glacier have to sea level?

5. What was an amazing example of weather extremes in Colorado in March of?

6. Climate models predict that by the year 2100 sea level rise could very likely be how much higher?

7. Which city of the south eastern USA would probably be most threatened by sea level rising?

8. All coastal cities may be threatened by sea level rising and also by what other water body related features?

9. The melting of the north polar ice cap is most threatening to which animals?

10. In the winter 2016 what was unusual about February? About the months of December through Febreuary?

11. In terms of world weather how was the December through February period exceptional?

12. Since 1940, the December to February temperature anomalies have shown what?

In addition, February 2016 was the 10th-straight month to set a monthly temperature record.

13. In 2016, Massive areas of the globe, stretching from Alaska, across Canada, throughout the Arctic Ocean and into Russia, had average February temperatures that were at least how much above average?

14. 2015 into 2016 weather was greatly affected by what periodic condition that was, affecting weather all around the Pacific basin?.

15. 2015 into 2016, how was the El Nino rated by the UN?

16. What did The UN warn about the 2015-16 El Nino in regard to Africa?

17. One explanation for the rapid melting of the Greenland ice cap is that if the ice sheet melts, it also slumps and how does that affect the melting process?

18. As the Greenland icecap melts, pools of standing water form on the ice sheet surface which do what?

19. In October of 2015, the latest data showed that 2015 was firmly on pace for being what in relation to 1880?

20. What records the the NOAA report state that were set in 2015 regarding climate?

21. In November of 2015, what was stated about El Nino and La Nina?

22. Melting permafrost in Canada and Siberia may cause what consequences?

23. Compared to carbon dioxide, how does methane react with solar radiation?

24. What was President Obama’s position on temperatures in Alaska by the end of the century?

25. How could studying the Palaeocene-Eocene Thermal Maximum, or PETM give us a better understanding of what kinds consequences a global warming of this proportions could have?