

Questions: Global Warming

1. Define the term Global Warming
2. About how much has the earth warmed in the past century?
3. About how much of this has warming occurred since 1980?
4. When have most of the hottest years on record occurred?
5. What part of the earth is expected to warm the most (according to current models and data)?
6. What are some of the expected effects of warming (according to current models)?
7. What are some of the prominent greenhouse gases?
8. Which gases causes most of the greenhouse effect?
9. What will happen to the earth's average sea level if the north polar ice cap melts?
10. Define the term "climate proxy"
11. Is there a conclusive link between increasing frequency of ENSO and warming?
12. If greenhouse gas emissions were stabilized, would warming continue to occur, and if so, about how much?
13. Is the earth in radiative balance?
14. Have CO₂ levels ever been as high as currently in the history of the earth?
15. Name a monitoring station where atmospheric CO₂ concentrations are routinely observed
16. What is the name of the curve showing increase of CO₂ concentration with time?
17. Of the various sectors of the economy, which sector is responsible for most of the greenhouse gas emissions?
18. Which region of the world/countries produces the most CO₂?

19. What is the difference between a positive feedback and a negative feedback loop?

20. What are some of the inaccurate predictions of climate models?