



## Homeschool Learning Network

# Global Warming in Polar Regions Web Quest

### Arctic Questions

**EPA: Climate Change and the Polar Regions**

<http://www.epa.gov/globalwarming/impacts/polarregions/index.html>

1. Since the 1950's, how much of the sea ice has disappeared?
2. What are the potential problems the Arctic environment might have as the sea ice disappears?

### Antarctic Questions

**Glacier: Ice**

[http://www.glacier.rice.edu/land/5\\_antarcticicesheetintro.html](http://www.glacier.rice.edu/land/5_antarcticicesheetintro.html)

3. What is the difference between an ice sheet and an ice shelf?
4. What is an ice tongue?
5. When an ice tongue breaks off, what is it called?
6. The Antarctic Ice sheet holds how much of the total fresh water in the world?

**ABC News Report: Cracking Up Fast**

<http://abcnews.go.com/sections/scitech/DyeHard/dyehard010118.html>

7. The amount of ice that has melted along the Larsen Ice shelf is comparable to what state in size?
8. How much warmer has the summertime temperature been at the Larsen Ice shelf?
9. Scientists estimate that if all the landlocked ice in the Western Hemisphere of Antarctica were to be released into the ocean, the seas would rise approximately how many feet around the world?



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### Global Warming Questions

#### EPA Global Warming

<http://www.epa.gov/globalwarming/climate/index.html>

10. There is a theory that global warming is caused by certain atmospheric gases reflecting some of the outgoing energy of the sun back to the surface and trapping it. What is the name of this theory?

11. Approximately how many inches has the sea level risen in the last century?

12. How many degrees do scientists predict the average global temperature will rise in the next fifty years? In the next one hundred years?

#### The National Academy of Science: Leading Climate Scientists Advise White House on Global Warming

<http://www4.nationalacademies.org/news.nsf/fc340309c47a1e43852567460067595e/854f0f191bb3912385256a6300697720?OpenDocument>

13. Carbon Dioxide, a naturally occurring gas in the atmosphere, is considered to be the most important greenhouse gas to monitor and reduce. How many years can it remain in the atmosphere once it's released? Days weeks, years, or centuries?

14. What are the other main greenhouse gases?

#### Inuit Observations on Climate Change

<http://iisd1.iisd.ca/casl/projects/inuitobs.htm>

15. What is causing the building foundations in Sachs Harbor to shift?

#### Environment Canada's Global Warming Page: What You Can Do?

<http://www2.ec.gc.ca/climate/whatyou/index.html>

16. A well-insulated hot water heater can save how much energy?

17. How much energy can be saved by using recycled products?