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**Chapter 35: Antarctica- Researching Climate Change at the Coldest Place on Earth**

*EQ: How might global warming affect the environment in the world’s coldest places?*

**35.1- Introduction**

1. What is the coldest continent on Earth?
2. What is global warming?
3. Define greenhouse effect.

**35.2- Geographic Setting**

1. What was the coldest temperature ever recorded on Earth?
2. How many inches of precipitation does Antarctica receive each year?
3. What percentage of Antarctica is covered by glaciers?
4. What is an ice shelf?
5. Identify the largest ice shelf. Exactly how big is it?
6. Does Antarctica belong to any specific country?
7. Describe the provisions of the Antarctic Treaty.
8. What do ice cores tell scientists?

**35.3- The Theory of Global Warming**

1. What are the three key ideas about global warming?
2. How is the earth kept warm?
3. Describe all the parts of the greenhouse effect.
4. Provide some examples of fossil fuels.

**35.4- Support for the Global Warming Theory**

1. There are three kinds of evidence that support the theory of global warming. What are they?
2. What are the possible ramifications of global warming?
3. What is the best way to prevent disasters that could possibly take place from global warming?

**35.5- Doubts About the Global Warming Theory**

1. Those who do not support global warming have their own evidence to support their position. What is their evidence?
2. There are doubters who accept that the Earth is warming. What do they say is causing it if it is not global warming caused by the continued use of fossil fuels?

**35.6- Studying Temperatures in Antarctica**

1. What would be the impact of global warming on Antarctica?
2. How are scientists and researchers checking for any changes in Antarctica?
3. Why is it important to have such a deep ice core?

**35.7- Studying Ice Shelves in Antarctica**

1. How much of Antarctica’s coastline is ice shelves?
2. How are icebergs formed?
3. Why are scientists studying the ice shelves?

**35.8- Studying Penguins in Antarctica**

1. Which penguin is the most common in Antarctica?
2. What is a census?
3. Why would warmer air be harmful to the penguins?

**35.9- Global Connections**

1. How might rising sea levels be connected to greenhouse gases?
2. Are the countries that produce the most greenhouse gases the ones that will be most affected by rising sea levels?
3. What can people do to reduce the greenhouse gases they add to the environment?