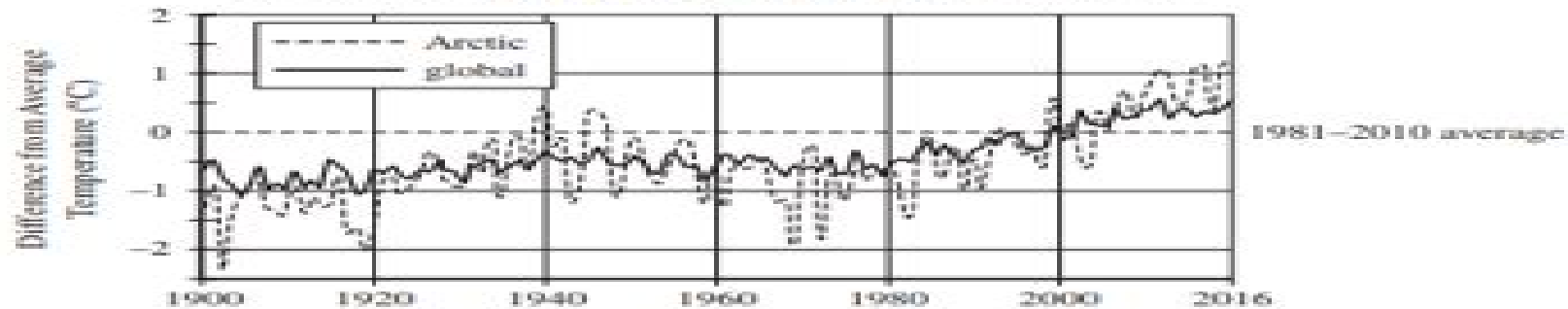


The graph below shows temperature anomalies from 1900 to 2016 globally and in the Arctic.

CHANGES IN AVERAGE TEMPERATURE, 1900–2016



- (a) Refer to the graph above to answer the following questions.
- Based on the data in the graph, **identify** the change in the difference from average temperature in the Arctic between 1980 and 2016.
 - Describe** the difference in the change in temperatures in the Arctic with the change in global temperatures from 2000 to 2016.
- (b) The cause of the temperature trend seen in the map is a result of increasing concentrations of greenhouse gases in the atmosphere.
- Identify** a greenhouse gas that has a global warming potential (GWP) that is greater than 1.
 - Identify** an anthropogenic source that contributes to greenhouse gas emissions.
 - Explain** how increasing amounts of greenhouse gases in the atmosphere are linked to a change in pH of the ocean.
- (c) Greenhouse gases can pose threats to both human health and the environment.
- Describe** TWO impacts that global climate change can have on human health.
 - Describe** one effect global climate change can have on marine organisms.
- (d) In order to reduce the effect of greenhouse gases on ecosystems, greenhouse gas emissions must be reduced.
- Propose** one realistic solution to reduce greenhouse gas emissions.
 - Justify** how the solution posed in (d)(i) would lead to a decrease in greenhouse gas emissions.

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Gary S. Thorpe



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