Name _____ Date _____

Climate


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Lake Agassiz: Studying Past Climate

Multiple Choice

For each question, select the best answer from the four alternatives.

1. What caused the formation of Lake Agassiz?
   a) ice melting from 20th century climate change
   b) ice melting during the last ice age
   c) ice melting billions of years ago
   d) ocean water pouring over the land

2. The dark-blue area of the map shows
   a) the extent of Lake Agassiz today.
   b) the area once covered by ice.
   c) the area that James Teller found to be covered with sand.
   d) the extent of Lake Agassiz during the end of the ice age.

3. How did James Teller reconstruct the history of Lake Agassiz?
   a) by studying ancient glaciers
   b) by using a computer simulation
   c) by studying ancient beaches and lake bottoms
   d) by studying the bottoms of lakes that exist today

4. What caused the volume of Lake Agassiz to change suddenly?
   a) climate change
   b) ice breaking and water escaping
   c) a colder climate
   d) a sea level rise

Short Answer

Explain how volume changes in Lake Agassiz could have caused climate changes on Earth.

5. _____

_____

_____

_____

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5. Melting ice could have caused the lake to dump enormous amounts of water into the Atlantic. The fresh water might have interrupted air and ocean currents that normally flow northward in the North Atlantic. This interrupted energy transfer could have cooled the entire Earth.