

**Quiz - 3: Observed behavior of the climate system**

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Questions: 10

**Finish****Save All****Help****1. Changes in land-surface temperature** (Points: 10)

Since 1980, the global, annual temperature of the land surface has

- a. risen roughly 0.1 - 0.2 °C.
- b. varied up and down by about 0.05 °C.
- c. decreased roughly 0.0 - 0.1 °C.
- d. risen roughly 0.6 - 0.8 °C.

**Save Answer****2. Cloud cover over land** (Points: 10)

From 1975 to 2005, over most of the Northern Hemisphere's land area, cloud cover

- a. increased by about 5%.
- b. rose and fell by about 1% about its average.
- c. decreased by about 5%.

**Save Answer****3. Global land precipitation changes** (Points: 10)

For global land areas, precipitation during the first few years of the current decade was substantially greater than during the 1950s.

- True  False

**Save Answer****4. Global temperature trends in the atmosphere** (Points: 10)

From 1979-2004, the global average temperature of the troposphere

- a. increased by about 1 °C/decade.
- b. increased by about 0.1-0.2 °C/decade.
- c. decreased by about 0.4 °C/decade.
- d. hardly changed (increased < 0.05 °C/decade).

**Save Answer**

**5. Effects of volcanic eruptions on temperature** (Points: 10)

Prominent volcanoes cause all of these effects 1-2 years after they erupt: [Multiple correct answers. Selecting all correct answers gives full credit.]

- a. Lower stratosphere temperatures tend to rise.
- b. Mid to upper troposphere temperatures change less than 0.01 °C.
- c. Surface temperatures tend to decrease.
- d. Lower troposphere temperatures tend to increase by 0.5 °C.

Save Answer

**6. Components of the cryosphere** (Points: 10)

Match the ice sheet components with descriptions on the right.

**Column preview**

Ice sheets	can be roughly 1,000 km in size.
Ice shelves	has depth scales roughly 1 meter or less.
Snow cover	can extend under the ocean.
Frozen ground	contain most of the cryosphere's water.

**Matching pairs**

Ice sheets	- Select choice -
Ice shelves	- Select choice -
Snow cover	- Select choice -
Frozen ground	- Select choice -

Save Answer

**7. Seasonally frozen ground** (Points: 10)

Seasonally frozen ground's maximum extent has decreased by how many percent since 1900?

- a. 25%
- b. 10%
- c. 2.5%
- d. 7%

Save Answer

**8. Glacier contributions to sea-level rise** (Points: 10)

Glaciers in which regions have contributed almost nothing to sea-level rise during the period 1960-

2005? [There are multiple correct answers. Selecting all correct answers gives full credit.]

- a. Arctic
- b. Alaska and coast mountains
- c. Patagonia
- d. Andes
- e. Europe

Save Answer

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**9. Spring snowcover** (Points: 10)

During the satellite era, Spring (March-April) snowcover in the Northern Hemisphere has retreated poleward on these continents: [Multiple correct answers. Selecting all correct answers gives full credit.]

- a. North America
- b. Africa
- c. Europe
- d. Asia

Save Answer

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**10. Ice Sheets** (Points: 10)

The central regions of ice sheets are typically

- a. lower than the ice sheet margins.
- b. above 2 km in elevation.
- c. covered with rivers.
- d. 5 km above sea level.

Save Answer

Finish

Save All

Help