

Quiz - 9: Regional Climate Change

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Questions: 10

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1. Summer monsoon ending date (Points: 10)

Most GCMs project that for India and Indochina, the summer monsoon (rainy season) under global warming will

- a. end earlier.
- b. end about the same time it has been ending.
- c. end later.
- d. continue without end.

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2. European Water Balance (Points: 10)

GCMs project that by the end of the 21st century, changes in precipitation and (precipitation - evaporation) will tend

- a. to be positive in northern Europe and negative in southern Europe.
- b. to be positive in western Europe and negative in eastern Europe.
- c. to be positive across all of Europe.
- d. to be positive in the center of Europe and negative all around its edges.

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3. Antarctica Precipitation Change (Points: 10)

Over the 21st century, GCMs simulating the A1B scenario show that Antarctic precipitation decreases.

- True False

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4. Australian warming (Points: 10)

GCMs project under the A1B scenario that warming for Australia by the end of the 21st century tend to be greatest

- a. along the southern coast.
- b. in the southeastern interior.

- c. in the western interior.
- d. in the center of the continent.

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5. African precipitation changes (Points: 10)

GCMs project that precipitation in Africa

- a. will tend to increase around the equator with decreases in the northern end.
- b. will decrease everywhere, creating desert conditions throughout the continent.
- c. will change no more than +/- 5% across the continent.
- d. will tend to decrease at the northern and southern ends of the continent.

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6. Amazon precipitation change (Points: 10)

Under the A1B scenario, most GCMs project that June-July-August precipitation in most of the Amazon Basin at the end of the 21st century will decrease relative to the end of the 20th century.

- True False

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7. Arctic Summer Warming (Points: 10)

An important factor limiting temperature increases for the Arctic region in GCMs during summer is

- a. changes in the solar zenith angle
- b. boreal forests
- c. sea ice
- d. polar bears

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8. European PRUDENCE Project (Points: 10)

The PRUDENCE Project involved working with multiple

- A. scenarios
- B. GCMs
- C. RCMs
- D. Impacts assessments

- 1. A, B, C, D
- 2. A, B
- 3. A, D
- 4. B, C
- 5. A, B, C

Save Answer

9. Springtime Snow Depth (Points: 10)

For North America, one GCM/RCM combination projects that mid-21st-century snow depth in spring (March) will

- a. increase toward the north and decrease toward the south.
- b. increase across Alaska and the Rockies.
- c. disappear everywhere.
- d. decrease at high latitudes but increase in the Rockies.

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10. Temperature Changes for Small Islands Regions (Points: 10)

Under the A1B scenario, the typical temperature changes by the end of the 21st century for the small-island (oceanic) regions studied in the AR4 are

- a. mixed increases and decreases in the range -2 to +2 deg C.
- b. increases from 4-8 deg C.
- c. decreases in the range -6 to -2 deg C.
- d. increases between 0-4 deg C.

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