Natural Climate Variability on Decade-to-Century Time Scales

National Academies Press - Global warming 'set to speed up to rates not seen for 1,000 years'

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Atmospheric regionsNatural Climate Variability on Decade-to-Century Time Scales

-Natural Climate Variability on Decade-to-Century Time Scales Notes: -

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Time Scales of Climate Change

Earth's climate changes all the time, e.g., last 300 Myr, last 3 Myr, last 50,000 yr, and last 1000 yr.

Filesize: 61.49 MB independently modeled.

Causes of Climate Change

In the early, global temperatures were 1—2°C warmer than the present temperature, yet sea level was 15—25 meters higher than today. Recent

Results: Overturning the Rocks In this section I will use three examples that I believe presage the results that will be achieved during the 1990s in modeling intermediate-time-scale climate variations. The global annual cycle is relatively well documented in the instrumental record.

Tags: #Natural #Climate #Variability

Climate Variability

Particularly important are external forcings e. Solid black Lines in b, c, d denote linear trend of 9-year smoothed GMSAT; red lines in c and d represent the ensemble mean GMSAT, and the shading represents the GMSAT spread of the 16 CMIP5 models To further verify this linear relationship, we analyze two sets of the Coupled Model Intercomparison Project phase 5 CMIP5 experiments from 16 models. Since at present flux corrections are still needed to prevent climate drift of CGCMs, the global annual cycle in these models cannot be considered to have been DIAZ: Have you seen anything indicating an out-of-phase sea surface temperature relationship between the North and South Atlantic? For a small slice of the present they seem to be equally good, yet some of them have quite different behaviors for longer times.

COUPLED SYSTEMS

Unlike GHGs, BC can directly absorb incoming and reflected sunlight in addition to absorbing infrared radiation. But with a phenomenon like this you can look to see whether the structure and the amplitude of the flux corrections that you are putting into the model give you confidence that the model processes, as reflected in your means, are not likely to yield results that will not be physical or realizable in the real world. Climate variability has consequences for sea level changes, plant life, and mass extinctions; it also affects human societies.

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