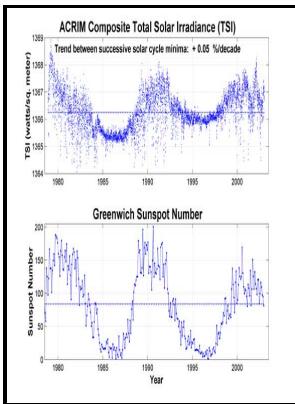


Sunspots and the influence of solar variation on climate

-- How strongly does the Sun influence the global climate?



Description: -

-Sunspots and the influence of solar variation on climate

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Notes: Research paper (M.Sc.)--Graduate Department of Geography and Institute for Environmental Studies, University of Toronto, 2000.

This edition was published in 2000



Filesize: 21.31 MB

Tags: #Sun

NASA GISS: Science Briefs: Do Variations in the Solar Cycle Affect Our Climate System?

During periods of maximum sunspots the sun emits more about 0.

Possible Causes for Climate Change

Scientists have observed that the number of sunspots on the surface of the sun has been determined to correspond to solar output variability.

Possible Causes for Climate Change

Figure 1 shows the estimate of sunspots since 1600 prepared by Hoyt and Schatten.

The Role of Sunspots and Solar Winds in Climate Change

In this way it was possible for the scientists to obtain, for the first time, a reliable, quantitative determination of the sunspot numbers even for times before direct measurements were made. They come to the conclusion that the variations on the Sun run parallel to climate changes for most of that time, indicating that the Sun has indeed influenced the climate in the past. During a grand minimum, solar magnetism diminishes, sunspots appear infrequently and less ultraviolet radiation reaches Earth.

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In response to this more stable vertical profile for tropical tropospheric processes, tropical convection preferentially shifts off the equator, favoring monsoonal effects during Northern Hemisphere summer and on the annual average. . For example, the temperature anomaly was - 0.

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This cooling effect may cause even more snow cover and glaciation that would increase the planet's albedo even more. Sunspots have been observed continuously since 1609, although their cyclical variation was not noticed until much later.

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