

**Solar Variability and Climate  
Joint ProClim- / ISSI Forum  
Friday, July 2, 1999, Berne**

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## ProClim-

Forum for Climate and Global Change

Swiss Academy of Sciences

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## Scope of the Forum

How does the solar variability affect climate change?

During the last years the discussions about the influence of solar variability on climate change has been intensified. Since a long time it is known that variations of solar radiation influence the temperature on the earth's surface. However, since the direct effect by known physical processes is much smaller than the observed changes, this topic received only little scientific attention. As a consequence the Second Assessment Report of the IPCC handled the topic with less care than probably would have been necessary.

Discussions about possible indirect influences causing stronger effects on earth's temperature as well as recent statistical and model analyses comparing the influence of different forcing factors on climate have now gained more attention.

The International Space Science Institute (ISSI, Bern) invited about 50 leading scientists from all over the world to join a workshop to discuss the state of knowledge and open questions on the influence of solar variability on climate. This workshop will take place from 28 June to 2 July 1999 in Bern.

On 2 July ProClim and the ISSI will organize a public forum at the same location, which gives an overview of the present knowledge and preliminary results of the workshop. Chair persons of the different sessions will present summaries of the workshop. The forum is addressed at scientists, the media and governmental institutions.

## Programme

<b>14.30 – 14.55</b>	<b>Solar Variability Observations</b> Claus Fröhlich, Switzerland
<b>14.55 – 15.20</b>	<b>Observations of Climate Variability and Modeling</b> James E. Hansen, USA
<b>15.20 – 15.45</b>	<b>Solar Variability and Clouds</b> Dave Randall, USA
<b>15.45 – 16.15</b>	Coffee Break
<b>16.15 – 16.40</b>	<b>Influences on Climate</b> Raymond S. Bradley, USA
<b>16.40 – 17.05</b>	<b>Summary</b> Eigil Friis-Christensen, Denmark
<b>17.05 – 17.30</b>	<b>Discussion</b>

## Organizing Institutes

ProClim-	Forum for Climate and Global Change, Swiss Academy of Sciences, Berne
ISSI	International Space Science Institute, Berne

## Speakers

### Raymond S. Bradley

Head of the Department of Geosciences at the University of Massachusetts.  
Climatology, paleoclimatology, climate variability.  
<http://www.geo.umass.edu/faculty/bradley.html>

### Eigil Friis-Christensen

Director of the Danish Space Research Institute, Kopenhagen.  
Solar wind-magnetosphere coupling processes, solar-terrestrial relationships  
<http://www.ntnu.no/ntva/seminar/cv/friis.htm>

### Claus Fröhlich

Director of the World Radiation Center and the Physical-Meteorological Observatory at Davos.  
Radiative forcing, solar irradiance variability  
<http://www.pmodwrc.ch/staff/cfrohlich/cfrohlich.html>

### James E. Hansen

Director of NASA (National Aeronautics and Space Administration) Goddard Institute for Space Studies in New York.  
Climate and climate change, climate forcings and indicators, climate variability, modeling.  
<http://www.giss.nasa.gov/staff/jhansen.html>

### Dave Randall

Professor of Atmospheric Sciences at Colorado State University.  
General circulation modeling, planetary boundary layer, convective cloud dynamics, cloud/climate studies  
<http://kiwi.atmos.colostate.edu/group/dave/dave.html>