



# **The Sun, Solar Analogs and the Climate: Saas-Free Advanced Course 34, 2004. Swiss Society for Astrophysics and Astronomy**

*Joanna Dorothy Haigh, Michael Lockwood, Mark S. Giampapa*

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The 34th Saas-Fee advanced course of the Swiss Society of Astronomy and Astrophysics (SSAA) took place from March 15 to 20, 2004, in Davos, on the subject of The Sun, Solar Analogs and the Climate.

Presently the Swiss mountain resort of Davos is probably most well known for hosting an event on globalization.

However, it is because Davos also happens to be the seat of the Physikalisch-Meteorologisches

Observatorium Davos and World Radiation Center, that this course on a “global” subject was hosted here.

Exceptionally, the topic of this course was not purely astrophysical, but

the members of the SSAA decided to support it all the same due to the timely topic of global warming and its possible

link to solar variations. In these times of concern about global warming, it is important to understand solar

variability and its interaction with the atmosphere. Only in this way can we distinguish between the solar and

anthropogenic contributions to the rising temperatures. Therefore, this course addressed the observed va-

riability of the Sun and the present understanding of the variability's origin and its impact on the Earth's

climate. Comparing the solar variability with that of solar analog stars leads to a better understanding of the

solar activity cycle and magnetic activity in general, and helps us to estimate how large the solar variations

could be on longer time scales. In spite of the fantastic weather and snow conditions which reigned during this

week, the participants assiduously took part in the lectures. This is proof

of the high quality of the lectures that the three speakers, Joanna Haigh, Mike Lockwood and David Soderblom,

delivered. We deeply thank them for their contributions and efforts and hope that the readers will enjoy the

book as much as we enjoyed their lectures.

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