

SWISS SOCIETY OF ASTROPHYSICS AND ASTRONOMY
34TH SAAS-FEE ADVANCED COURSE

THE SUN, SOLAR ANALOGS AND THE CLIMATE

15-20 March 2004 / Davos / Switzerland

LECTURE PROGRAMM

Monday 15 March 2004

08:40 – 09:30	J. Haigh	Overview: the Earth's climate system
09:30 – 10:20	M. Lockwood	Introduction to the Sun and the solar activity cycle
10:50 – 11:40	M. Giampapa	Properties of stellar cycles & stellar dynamos
17:00 – 17:50	J. Haigh	Atmospheric dynamics, modes of variability and climate modeling
17:50 – 18:40	M. Lockwood	Fundamental plasma physics of the Sun and heliosphere

Tuesday 16 March 2004

08:40 – 09:30	M. Giampapa	Stellar irradiance variability
09:30 – 10:20	J. Haigh	Climate records
10:50 – 11:40	M. Lockwood	The heliosphere, cosmic rays and cosmogenic isotopes
17:00 – 17:50	M. Giampapa	Stellar irradiance variability & activity in solar analogs
17:50 – 18:40	J. Haigh	Radiative processes in the atmosphere

Wednesday 17 March 2004

08:40 – 09:30	M. Lockwood	Solar variability and its effects on Earth
09:30 – 10:20	M. Giampapa	Activity in solar analogs
10:50 – 11:40	J. Haigh	The greenhouse effect and radiative forcing of climate change
17:00 – 17:50	M. Lockwood	Solar irradiance reconstruction
17:50 – 18:40	M. Giampapa	Stellar surface inhomogeneities

Thursday 18 March 2004

08:40 – 09:30	J. Haigh	Clouds
09:30 – 10:20	M. Lockwood	Statistical techniques for Sun-Earth interaction studies
10:50 – 11:40	M. Giampapa	Coronal structure in low mass stars & brown dwarfs
17:00 – 17:50	J. Haigh	Atmospheric photochemistry
17:50 – 18:40	M. Lockwood	Earth's orbit and its effects

Friday 19 March 2004

08:40 – 09:30	M. Giampapa	Pre-main sequence evolution of stellar activity
09:30 – 10:20	J. Haigh	Response of climate to variations in solar irradiance
10:50 – 11:40	M. Lockwood	Earth's shortwave albedo
17:00 – 17:50	M. Giampapa	Influence of stellar magnetic activity on the detection of extrasolar planets
17:50 – 18:40	J. Haigh	The Earth's electric field and ionisation of the atmosphere

Saturday 20 March 2004

08:40 – 09:30	M. Lockwood	Evidence for solar influence on Earth's climate
09:30 – 10:20	M. Giampapa	The future of ground-based solar astronomy
10:50 – 11:40	All	Final discussion