



SORCE Science Meeting –

“SORCE’s Past, Present, and Future Role in Earth Science Research”

Feb. 5-7, 2008

Santa Fe, New Mexico

It is not too late to register and attend this great meeting! Visit the SORCE Meeting website to see the final science program and all of the abstracts. The agenda consists of invited and contributed oral and poster presentations concerning variations in the Sun’s radiation and in the Earth environment.



<http://lasp.colorado.edu/sorce/2008SciMeeting>.

Hotel/Registration Due:

Jan. 4, 2008

Yikes – that is Friday!

**Call La Posada at 505-954-9686 today
for the SORCE group rate!**

SORCE Meeting Science Program

Monday, February 4

5:30 p.m. Welcome Reception

Tuesday, February 5, morning

Session 1. Variability of the Solar Irradiance Over the Solar Cycle

Tom Woods (Keynote), LASP, University of Colorado
*What We’ve Learned from SORCE – Solar Cycle
Maximum to Minimum*

Judith Lean (Invited), NRL, Washington, DC
*Comparison of Solar Irradiance Variability Models
with SORCE Observations*

Greg Kopp (Invited), LASP, Univ. of Colorado
The History and Future of TSI and SSI Measurements

G rard Thuillier (Invited), Service d’A ronomie du
CNRS, France
*Space Station SOLSPEC Investigations: Measurements
of the Absolute Spectral Irradiance from 165 to 3080 nm
On-Board SOLAR*

Steven Dewitte, Royal Meteorological Institute of Belgium
*Measured Total Solar Irradiance Cycle Variability: Status
at the End of Cycle 23*

Claus Fr hlich, Physikalisch-Meteorologisches
Observatorium Davos, Switzerland
*TSI Variation: What can we Learn from the Last Three
Solar Cycles?*

Gary Chapman (Invited), San Fernando Observatory, CSU
Long-Term Ground-Based TSI Measurements

Tuesday, February 5, afternoon

Alexander Ruzmaikin, JPL, Cal. Inst. of Technology
Solar Irradiance: Modes of Variation

Matt DeLand, SSAI, Maryland
*Comparison of Long-Term Solar UV Irradiance Data Set
and Proxy Model Data*

Yvonne Unruh, Imperial College, London, UK
*Irradiance Variations on Rotational Timescales:
A Comparison Between SORCE Measurements and
the SATIRE Model*

Doug Biesecker (Invited), NOAA, SWPC, Boulder
Predictions of the Solar Cycle, Past and Present

Session 2. Atmospheric Models, Processes, and Solar Irradiance

Michael King (Keynote), NASA GSFC
*NASA’s Earth Observations of the Global Environment:
Our Changing Planet and the View from Space*

David Lary (Invited), NASA GSFC
Solar Photochemistry Stratospheric

Kiyotaka Shibata, Meteor. Res. Inst. (MRI), Japan
*Temperature and Ozone Response to the 11-Year Solar
Cycle in the Tropical Stratosphere*

Poster Session (posters listed below)

Wednesday, February 6 morning

Session 2 Continued

Mark Schoeberl (Keynote), NASA GSFC
The Aura Mission

Paul Newman (Invited), NASA GSFC
Estimating When the Antarctic Ozone Hole Will Recover

Jay Mace (Invited), Univ. of Utah
*A Description of Hydrometeor Layer Occurrence Statistics
Derived from the First Year of Merged CloudSat and
CALIPSO Data*

Terry Nathan (Invited), Univ. of California, Davis
*On the Connection Between Solar Spectral Irradiance,
Planetary Wave Drag and the Zonal-Mean Circulation*

**Session 3. Models of Solar Processes Affecting
Climate**

Mark Miesch (Keynote), HAO, NCAR
Processes that Cause Solar Irradiance Variability

Wednesday, February 6, afternoon

Karel Schrijver (Invited), Lockheed Martin ATC,
Palo Alto, CA
Magnetic Flux Transport Modeling

Sami Solanki (Invited), Max Planck Institute, Lindau,
Germany
*Solar Irradiance and Activity Reconstructions
on Timescales up to Millennia*

Juan Fontenla (Invited), LASP, Univ. of Colorado
*Modeling the Spectral and Total Irradiance from
Solar Atmospheric Structures*

Mark Rast, LASP, Univ. of Colorado
*Latitudinal Variation in the Solar Intensity During
the Decline of Cycle 23*

David Hathaway (Invited), NASA MSFC,
Huntsville, AL
Estimating the Next Solar Cycle

Tom Ayres (Keynote), CASA, Univ. of Colorado
How Star-Like is the Sun; How Solar-Like are the Stars?

Jeffrey Hall, Lowell Observatory, Flagstaff, AZ
*Brightness Variations of Solar Analogs during Activity
Cycles and Grand Minima*

**Session 4. Climate Models, Processes, and Solar
Irradiance**

Caspar Ammann (Keynote), NCAR, Boulder, CO
*IPCC Report and Possible Solar Contributions to
Climate Change*

Robert Cahalan, NASA, GSFC
*Modeling the Wavelength and Time Dependence of Solar
Forcing of Earth's Atmosphere and Ocean Mixed Layer*

6:30 p.m. Science Dinner – La Casa Sena

Thursday, February 7, morning

Session 4 Continued

Tom Crowley (Keynote), Duke University
*Fire vs. Fire: Do Volcanoes or Solar Variability Contribute
More to Past Climate Change?*

David Rind (Invited), NASA GISS
Exploring the Tropospheric Response to Solar Forcing

Gavin Schmidt (Invited), NASA GISS
*Modeling Solar Cycle Impacts on Tropical Hydrology
and Proxy Records*

Richard Keen, Univ. of Colorado, Boulder
*Climate Forcing Since 1960: What Does the Moon Have
to Say?*

Don Anderson (Invited), NASA Headquarters
CLARREO Overview

Bryant Cramer (Invited), NASA GSFC
NASA ES New Mission Concepts for Future

POSTERS:

Douglas Allen, Dordt College, Sioux City, IA
Using SORCE Data in the College Classroom

Gary Chapman/Angie Cookson, San Fernando
Observatory, CSU
TSI and Ground-Based Data: What Can be Learned?

Jerry Harder, LASP, Univ. of Colorado
*Spectral Decomposition of the TSI Record Using the
SORCE TIM and SIM Instruments*

Dora Preminger, San Fernando Observatory, CSU
*The Relationship Between Sunspots and the Variability
of the Solar Corona*

Martin Snow, LASP, Univ. of Colorado
Ultraviolet SSI Variability from two SOLSTICES

Rodney Viereck, NOAA, SWPC, Boulder, CO
Solar EUV Observations from the NOAA GOES 13 Satellite

Tom Woods, LASP, Univ. of Colorado
*XUV Photometer System (XPS): Improved Solar Irradiance
Algorithm Using CHIANTI Spectral Models*

Erik Richard, LASP, Univ. of Colorado

Solar Spectral Irradiance Variability in the Near-Infrared and Correlations to the Variability of Total Solar Irradiance during the Declining Phase of Solar Cycle 23

David Harber, LASP, Univ. of Colorado

Absolute Optical Power and Irradiance Comparisons with SORCE/TIM and Glory/TIM Instruments

Jeff Morrill, NRL, Washington, DC

NRL Long Term Solar UV Irradiance Model: Status and Future Plans

Doug Lindholm, LASP, Univ. of Colorado

SORCE Solar Irradiance Data Products

Christopher Pankratz, LASP, Univ. of Colorado

LASP Interactive Solar Irradiance Datacenter (LISIRD)

Saumitra Mukherjee, Jawaharlal Nehru University, New Delhi, India

Extragalactic Cosmic Ray Can Affect Sun-Earth Environment and Environment of the Earth

Peter Pilewskie, LASP, Univ. of Colorado

Differential Atmospheric Heating Derived from SORCE Spectral Irradiance

Rock Bush, Stanford Univ., CA

Michelson Doppler Imager Observations of the Solar Radius over Cycle 23

Dibyendu Nandy, Montana State Univ.

Reconstructing Solar Variability Over Multiple Timescales

Sheila Lynch, NAVC, Boston, MA

Applying Relativity to Earth Climate Data The Damhsa Theory Signs of the Inflationary Universe

Guoyong Wen, NASA GSFC and UMBC

Modeling Lunar Borehole Temperature in Order to Reconstruct Historical TSI and Estimate Surface Temperature in Permanently Shadowed Regions



Upcoming Meetings / Talks –

SORCE scientists plan to present papers or attend the following 2008 meetings:

SORCE Science Meeting, Feb. 5-7, Santa Fe, NM

AGU Spring Meeting, May 27-30, Ft. Lauderdale, FL

CAWSES (SCOSTEP), June 1-6, Bozeman, MT

37th COSPAR Scientific Assembly, July 13-20,
Montreal, Canada

**To submit information to this newsletter, please contact:
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368,889

Hits to the SORCE Website

(Since 4/21/03, As of 12/31/07)