



The Fall AGU Meeting is Dec. 13-17, in San Francisco, California. **You are encouraged to submit abstracts to AGU sessions (GC29, GC17, and SA11).**

*Abstract deadline: Thursday, September 2<sup>nd</sup>*

<http://www.agu.org/meetings/fm10/>.



## **2010 Fall AGU Coming Soon –**

### **Solar Spectral Irradiance and Long-Term Solar Variability: Observations and Implications**

GC 29 Conveners: Marty Snow (LASP), Rodney Viereck (NOAA SWPC), Bill McClintock (LASP), and Erik Richard (LASP).

**Session GC29 Description:** Observations of the spectrally resolved solar irradiance (SSI) now extend over epochs that are long enough to identify the amplitude and phase of solar variability as a function of wavelength. This variability impacts the entire atmosphere, ozone and climate system. Long-term data records are often composites from several instruments or proxies. The methods of combining records and their uncertainties must be well understood to make valid comparisons on solar cycle timescales. We solicit papers on the measurement of SSI, the methods of producing composite time series, and the implications and impacts that SSI variations have on the atmosphere, climate, and near space environment.

### **Total Solar Irradiance Observations and Calibrations**

GC 17 Conveners: Greg Kopp (LASP) and Richard Willson (ACRIM).

**Session GC17 Description:** The ‘native’ scale of ACRIM3 and VIRGO satellite TSI results agree within 0.1%. SORCE/TIM results are lower by 0.35%, exceeding the theoretical uncertainty bounds for these three operational experiments. New TSI sensor calibration and characterization techniques using lasers calibrated by cryogenic radiometers have been implemented at LASP and NRL. Characterizations have recently been conducted on ACRIM3, VIRGO, TIM and PREMOS sensors to understand current scale differences and relate their results

more accurately to the follow-on experiments to be launched during 2010: PREMOS and SOVAP on PICARD and GLORY/TIM. Papers on calibration of flight TSI instrumentation and their impact on TSI monitoring are solicited.

### **Heliosphere-Atmosphere Coupling and Climate**

SA 11 Conveners: Cora Randall (CU), Charles Jackman (NASA GSFC), Stan Solomon (NCAR), and Xiaohua Fang (CU).

**Session SA11 Description:** In recent decades increased attention has been placed on the influence of energetic particle and solar forcing on atmospheric coupling. Nevertheless, a solid mechanistic understanding of the pathways by which this forcing affects climate from the thermosphere to the surface is elusive. Likewise, the influence of tropospheric change on the upper atmosphere response to heliophysical variability is highly uncertain. This session invites presentations on the Earth's atmospheric response to geomagnetic and solar forcing, including observational and modeling studies of both chemical and dynamical effects. Emphasis is on the processes by which heliophysical forcing is communicated throughout different atmospheric regions, and potential climate feedbacks.

# 1,709,330

## Hits to the SORCE Website

*(Since 4/21/03, As of 8/20/10)*

## **Upcoming Meetings / Talks –**

*SORCE scientists plan to present papers or attend the following 2010-2011 meetings:*

AGU Fall Meeting, Dec. 13-17, San Francisco, California

ISSI Working Group – Cross-Calibration Past FUV,

Jan. 10-11, Bern, Switzerland

ISSI Workshop – Observing and Modeling Earth's Energy

Flows, Jan. 10-14, Bern, Switzerland

Space Climate Symposia, Jan. 16-21, Goa, India

