



IGAC / SPARC Global Chemistry-Climate Modeling and Evaluation Workshop

- Connecting the science and activities of CCMVal, ACCMIP, and AC&C -



First Announcement

Dates: May 21-25, 2012

Venue: Davos, Switzerland

Background: Increasingly, the chemistry and dynamics of the stratosphere and troposphere are being modeled as a single entity in global models. Tropospheric and stratospheric global chemistry-climate models are continuously being challenged by new observations and model intercomparisons. There is a need to better coordinate the previously separate activities addressing these two domains and to assess scientific questions in the context of comprehensive stratosphere-troposphere resolving models with chemistry (and increasingly a coupled ocean). Accordingly, we invite participation in the *IGAC / SPARC Global Chemistry-Climate Modeling and Evaluation Workshop*.

Workshop Goals: We seek to encourage discussion of new observations and new methods that can be used to evaluate and inter-compare CCMs, and discuss progress in the evaluation and analysis of current chemistry-climate models (CCMs) in the stratosphere and troposphere. We also seek to link stratospheric and tropospheric coupled modeling efforts. Topics of the workshop include:

- Improvements in process-oriented evaluation and understanding of CCMs (incl. CCMVal),
- Trends and variability in atmospheric composition and oxidizing capacity,
- Circulation/chemistry response to ozone depletion/recovery and climate change,
- Chemical and dynamical connections between the troposphere and stratosphere,
- Chemistry, dynamics and transport in the upper troposphere / lower stratosphere (UTLS),
- Stratospheric aerosols and impacts on climate,
- Emission based model simulations of long-lived ozone depleting substances.

Workshop Structure and Format: This workshop will provide an open forum for presentations of science results and open questions on emerging chemistry-climate themes of the stratosphere and the troposphere via invited and contributed oral presentations and poster sessions. Sessions will also target new methods to optimize comparability between model simulations and observations (in situ, satellite, sonde and ground-based). Time will be allotted to discuss expansion of existing activities (e.g., CCMVal, ACCMIP, AC&C hindcast and HTAP), definition of community-wide simulations and process-oriented model evaluation benchmarks.

Registration and Abstract Submission: Abstracts will be due in **March 2012**.

Note that this workshop incorporates the previously announced SPARC CCMVal Workshop.



The workshop is being held under the auspices of the International Global Atmospheric Chemistry (IGAC) Project and the WCRP's (World Climate Research Programme) SPARC (Stratospheric Processes and their Role in Climate) core project.

Scientific Organizing Committee: Veronika Eyring (DLR), Jean-Francois Lamarque (NCAR), Arlene Fiore (LDEO/Columbia University), Andrew Gettelman (NCAR), Peter Hess (Cornell University), Paul Monks (University of Leicester), Steven Pawson (NASA), Thomas Peter (ETH), Ted Shepherd (University of Toronto), Kengo Sudo (Nagoya University), Darryn Waugh (JHU), and Tong Zhu (Peking University)

Local Organizing Committee: Werner Schmutz, Sonja Degli Esposti, Eugene Rozanov, Stephanie Ebert, Tatiana Egorova (PMOD/WRC), and Andrew Gettelman (NCAR)