

Monday 26/11/12

AMPHI DURAND (BATIMENT ESCLANGON)

9h30 Welcome

The Sun

Convener: T. Dudok de Wit

9h45-10h15 **N. Krivova** (MPI, Lindau) "Models and reconstructions of solar spectral irradiance"

10h15-10h45 **G. Cessateur** (PMOD, Davos) "Solar Spectral Irradiance: past, present and future Observations"

10h45-11h15 *Break*

11h15-11h45 **G. Thuiller** (LATMOS, Paris) "Comparison of Different Solar Spectral Irradiance Reconstructions"

11h45-12h00 **S. Melo** (CSA, Quebec) "Evaluating the impact of using different SSI reconstructions to calculate atmospheric solar heating rates as a function of altitude"

12h00-12h15 **C. Muller** (BISA, Brussels) "Solar irradiance measured from space: possible perturbing elements, mitigation and quality control procedures"

12h15-12h45 **Discussion**

12h45-14h15 *Lunch at restaurant l'Ardoise (Université Pierre et Marie Curie)*

From the surface to the upper atmosphere

Conveners: S. Bekki, P. Keckhut, A. Hauchecorne

14h15-14h45 **F. Lott** (LMD, Paris) "Gravity Wave parameterizations in the LMDz-GCM"

14h45-15h00 **T. Onishi** (LATMOS, Paris) "Simultaneous observations of daytime MSTIDs by DEMETER satellite and GPS-TEC"

15h00-15h15 **S. Melo** (CSA, Quebec) "Using airglow as a tool to evaluate atmospheric numerical models performance: results from the extended CMAM"

15h15-15h45 *Break*

15h45-16h15 **U. Berger** (Leibniz Institute of Atmospheric Physics, Kühlungsborn) "Solar cycle and long-term trends in the middle atmosphere effected by tropo-/stratospheric conditions"

16h15-16h45 **A. Hauchecorne** (LATMOS, Paris) "Dynamics and chemical variability of the mesosphere: Internal causes and role of solar forcing"

16h45-17h15 **Discussion**

17h15 *End of first day*

17h30-19h15 *Welcome drink*

Tuesday 27/11/12

AMPHI DURAND (BATIMENT ESCLANGON)

From the surface to the upper atmosphere (cnt'd)

Conveners: S. Bekki, P. Keckhut, A. Hauchecorne

- 9h00-9h30** **E. Rozanov** (PMOD, Davos) "Solar influence on the temperature in the lower tropical stratosphere"
- 9h30-10h00** **H. Schmidt** (MPI, Hamburg) "Solar-cycle signals in ECHAM-based models from the ocean to the mesosphere"
- 10h00-10h30** **M. Lopez-Puertas** (IAA, Granada) "Non-LTE IR energy budget in the middle/upper atmosphere: Status and implementation in GCMs"
- 10h30-11h00** *Break*
- 11h00-11h30** **D. Marsh** (NCAR, Boulder) "Adding Aeronomy to a high-top climate model: lessons learned from the development of WACCM"
- 11h30-11h45** **J. Manners** (UKMO) "Vertical extension of UKMO model"
- 11h45-12h00** **H. Schmidt** (MPI, Hamburg) "HAMMONIA"
- 12h00-12h30** **Discussion**
- 12h30-14h00** *Lunch at restaurant l'Ardoise (Université Pierre et Marie Curie)*
- 14h00-14h30** **F. Forget** (LMD, Paris) "Extending a Global Climate Model to the thermosphere and ionosphere: the case of the LMD Mars GCM"
- 14h30-14h45** **A. Vlasov** (KIT, Karlsruhe) "Coupling the thermosphere and the middle-atmosphere: the first experiences with EMAC-CMAT"
- 14h45-15h15** *Break*
- 15h15-15h45** **I. Usoskin** (Univ. Oulu) "Atmospheric ionization by cosmic rays: How to choose a proper model?"
- 15h45-16h15** **A. Marchaudon** (IRAP, Toulouse) "A new interhemispheric model of ionosphere"
- 16h15-16h30** **J.Y. Chaufray** (LATMOS, Paris) "3D Model of the Martian Ionospheric dynamics"
- 16h30-17h00** **Discussion**
- 17h00** *End of second day*

Wednesday 28/11/12

AMPHI 25 (TOWER 25)

Particle Precipitation and chemistry

Conveners: M. Marchand, F. Lefèvre

- 9h00-9h30** **A. Seppälä** (FMI, Helsinki) "Solar influence on the atmosphere through Energetic Particle Precipitation."
- 9h30-10h00** **K. Semeniuk** (York University, Ontario) "Simulating effects of galactic cosmic rays, solar proton events and high energy electron precipitation in the Canadian Middle Atmosphere Model"
- 10h00-10h30** *Break*
- 10h30-11h00** **M. Sinnhuber** (KIT, Karlsruhe) "Impact of energetic particle precipitation on the chemical composition of the middle atmosphere: results from global models and comparison to observations"
- 11h00-11h30** **P. Verronen** (FMI, Helsinki) "Ion chemistry affecting the minor neutral composition in the middle atmosphere"
- 11h30-11h45** **B. Funke** (IAA, Granada) "Stratospheric EPP-NO_y deposition during 2002-2012 as seen by MIPAS-Envisat: Contribution to the global NO_y budget and implications for atmospheric modeling"
- 11h45-12h00** **H. Nieder** (KIT, Karlsruhe) "NO_x production due to energetic particle precipitation in the MLT region – results from an ion-chemistry model"
- 12h00-12h30** **Discussion**
- 12h30-14h00** *Lunch at restaurant l'Ardoise (Université Pierre et Marie Curie)*
- 14h00-14h15** **T. Reddmann** (KIT, Karlsruhe) "Transport of NO_x from the lower Thermosphere into the middle Atmosphere in the KASIMA Model"
- 14h15-14h30** **P. E. Sheese et al.** (University of Toronto) "Antarctic night NO densities in the MLT: Odin, ACE, and WACCM"
- 14h30-14h45** **K. Perrot et al.** (CUT, Göteborg) "Data sets for studying direct and indirect effects of high energetic particle precipitation on middle atmospheric composition by the Odin Sub-Millimeter Radiometer"
- 14h45-15h00** **N. Kilifarska** (NIG, Sofia) "Ozone and ion chemistry of the lower stratosphere initiated by Galactic Cosmic Rays"
- 15h00-15h15** **F. Duruisseau** (LPC2E, Orléans) "One-dimensional numerical modeling of blue-jet and its impact on stratospheric chemistry"
- 15h15-15h45** **Discussion**
- 15h45** **End of the meeting**