

Action Plan

- Sensitivity Study
 - MAC & CR: Electron spectrum (50 keV-2 MeV) and flux for 7 months based on solar max (2003) and for 2008/2009 (✓ Fluxes sent to PV on 12 Nov 2011)
 - All satellite locations for HEPPA2 needed for WACCM4 runs (coming through HEPPA comparison) (According to Bernd Funke (*skype call on Tue and Fri*), this likely ready by week ending 19 Nov 2010)
This is identified as critical. AS to contribute GOMOS locations following week (✓ Locations sent to Bernd Funke)
 - DM: WACCM background atmosphere (N₂, O₂, O) to PV and a reference run for boundary conditions for low top models (by the end of the year), low top models can use observations as well.
 - PV calculates ionisation rates and a LUT/production using SIC
 - ER: Another set of ionisation rates from Maijk Wissing?
 - Feeding into models (in low-top models used bellow 80km).
 - WACCM upper boundary conditions as needed in to the low-top (80km) models (ER: prefer to have a flux at the top of the model, not sure if this is available from satellites. Bernd Funke to look into determining fluxes from observations.)
 - Coordination and distribution of results:
 - Use FMI ftp server (contact PV if necessary)
 - AS to coordinate model results for next meeting.
 - Check out google docs
 - Outputs for the sensitivity study:
 - Daily zonal mean NO_y, HO_x, O₃, TEM, heating rates (chemical species as well), CO, H₂O, CH₄, HNO₃, N₂O₅, ClONO₂, BrONO₂
 - Daily 00 UT 3D: NO, NO₂, HNO₃, O₃, T, winds, H, OH, HO₂, excited N(²D), N(⁴S)
 - Models: SIC, SD-WACCM (nudged), SOCOL (ensemble), FinROSE (CTM, ECMWF), (ECHAM5/MESSy?), maybe include other HEPPA models as well?
- AS to update webpage (<http://www.issibern.ch/teams/polaratmosphere>) for program, action plan, deadlines, publications etc.
- 3rd HEPPA workshop in Granada 9-11 May 2011 (<http://heppa2011.iaa.es>)
 - Many of us planning to attend
 - Abstract deadline 11th March, contact ISSI group early March 2011
 - Preliminary results to present?
 - DM will send an abstract for WACCM if base case ready
 - HEPPA2 comparison study: Bernd Funke takes lead of observation intercomparison, ER, SS and DM lead the model side. HEPPA2 intercomparison study will take place on Thursday morning (12 May) after the workshop.
- AS to arrange for next ISSI team meeting: October 2010 (provisionally 10-14 Oct)