

Daily schedule, oral and poster program	
6th International	HEPPA-SOLARIS Workshop
13-17 June, 2016	Helsinki, Finland

Invited talks 30+5 min.	Talks 15+5 min.	3+1 poster sessions, 6 h total
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	MONDAY 13	TUESDAY 14	WEDNESDAY 15	THURSDAY 16	FRIDAY 17
9:00		Partamies (S4)	Oyama (S2)	Orsolini (S2)	Nieder (S2)
9:20	Registration	Turunen (S2)	Verronen (S2)	Meraner (S2)	Andersson (S3)
9:40	Welcome	Matthes/Funke (S3)	Matthes/Funke (S3)	Chiodo (S3)	Turner (S4)
10:15	Tea and coffee	Tea and coffee	Tea and coffee	Tea and coffee	Tea and coffee
10:45	Nesse Tyssøy (S1)	Yeo (S1)	Thiéblemont (S3)	Coddington (S4)	Sinnhuber (S4)
11:20	Kilpua (S1)	Marsh (S2)	Bender (S2)	Lu (S2)	Arsenovic (S2)
11:40	Asikainen (S1)	Kunze (S2)	Kuchar (S2)	von Clarmann (S3)	Maliniemi (S3)
12:00	Pettit (S4)	Misios (S2)	Shieferdecker (S2)	Duderstadt (S3)	Final Discussion
12:20	Lunch	Lunch	Lunch	Lunch	Conclusion
13:20	Posters 1	Posters 2	Posters all	Posters 3	
14:50	Tea and coffee	Tea and coffee	Excursion	Tea and coffee	
15:20	van de Kamp (S4)	Ball (S1)	Excursion	Kiviranta (S4)	
15:40	Rodger (S4)	Ciliverd (S2)	Excursion	Kyrölä (S4)	
16:00	Kero (S4)	Newnham (S2)	Guided tour 16-17	Kalakoski (S2)	
16:20	Marshall (S4)	Hendrickx (S2)	Guided tour 16-17	Mursula (S3)	
17:00	Icebreaker	CCMI splinter	Excursion		
19:00			Dinner		

	MONDAY 13 JUNE	
9:20	Registration	Registration
9:40	Welcome	Welcome
10:15	Tea and coffee	Tea and coffee
10:45	Nesse Tyssøy (S1)	Energetic Electron Precipitation into the Middle Atmosphere - Constructing the Loss Cone Fluxes from MEPED POES (invited)
11:20	Kilpua (S1)	Dependence of magnetosphere-ionosphere storm-time response on large-scale solar wind structures
11:40	Asikainen (S1)	Solar wind drivers of energetic electron precipitation
12:00	Pettit (S4)	Comparison of two MEPED electron data sets with proton contamination corrections
12:20	Lunch	Lunch

13:20	Poster session 1	Poster session 1
14:50	Tea and coffee	Tea and coffee
15:20	van de Kamp (S4)	A model providing long-term datasets of energetic electron precipitation during geomagnetic storms
15:40	Rodger (S4)	Including "Typical" Relativistic Electron Precipitation in Representative Models
16:00	Kero (S4)	Lower mesospheric ionisation effect on the cosmic radio noise absorption spectrum
16:20	Marshall (S4)	Atmospheric Response to Energetic Electron Precipitation - Ionization, optical emissions, x-rays, and backscatter
17:00	Icebreaker	Icebreaker

	TUESDAY 14 JUNE	
9:00	Partamies (S4)	Characterisation of pulsating aurora
9:20	Turunen (S2)	Modeled response of mesospheric ozone to a pulsating aurora event on 17 November 2012
9:40	Matthes and Funke (S3)	Solar forcing for CMIP6, part 1. Overview, and TSI/SSI.
10:15	Tea and coffee	Tea and coffee
10:45	Yeo (S1)	UV SSI variability - Why do measurements and models not agree? (invited)
11:20	Marsh (S2)	Aeronomic impacts of a revision to the solar irradiance forcing for CMIP6
11:40	Kunze (S2)	Effects of different spectral solar irradiance datasets on the chemistry and dynamics in the CCMs EMAC and WACCM
12:00	Misios (S2)	Sensitivity of the simulated stratospheric climatology to the specification of solar irradiance spectra
12:20	Lunch	Lunch
13:20	Poster session 2	Poster session 2
14:50	Tea and coffee	Tea and coffee
15:20	Ball (S1)	High solar cycle spectral variations inconsistent with stratospheric ozone observations
15:40	Clilverd (S2)	Substorm-induced energetic electron precipitation: Impact on atmospheric chemistry
16:00	Newnham (S2)	Mesospheric nitric oxide production by medium energy electrons above Halley station, Antarctica
16:20	Hendrickx (S2)	EPP-produced NO and its 27 day solar cycles in production and mesospheric descent
17:00	CCMI splinter meeting	CCMI splinter meeting

	WEDNESDAY	15 JUNE
9:00	Oyama (S2)	Correspondence of evolution of EEP with auroral-patch morphological changes at the substorm recovery phase
9:20	Verronen (S2)	Enhancement of odd nitrogen modifies mesospheric ozone chemistry during polar winter
9:40	Matthes and Funke (S3)	Solar forcing for CMIP6, part 2. EPP, and future.
10:15	Tea and coffee	Tea and coffee
10:45	Thiéblemont (S3)	Solar influence on North Atlantic climate (invited)
11:20	Bender (S2)	Particle-induced NO production in the mesosphere and lower thermosphere from SCIAMACHY NO time series
11:40	Kuchar (S2)	Attribution of lower-stratospheric tropical temperature variations to the 11-year solar cycle
12:00	Shieferdecker (S2)	Is there a solar signal in lower stratospheric water vapor?
12:20	Lunch	Lunch
13:20	Poster session, all	Poster session, all
14:50	Excursion	Excursion
16:00	Guided tour 16-17	Guided tour 16-17
17:00	Excursion	Excursion
19:00	Dinner	Dinner

	THURSDAY	16 JUNE
9:00	Orsolini (S2)	Role of planetary waves, gravity waves and tides in the downward transport of nitrogen oxides during elevated stratopause events
9:20	Meraner (S2)	Sensitivity of the Simulated Mesospheric Transport of Nitrogen Oxides to Parameterized Gravity Waves
9:40	Chiodo (S3)	Reduction of climate sensitivity to solar forcing due to stratospheric ozone feedback (invited)
10:15	Tea and coffee	Tea and coffee
10:45	Coddington (S4)	Measurements of Solar Irradiance - How the future TSIS-1 mission will extend current understanding of solar irradiance variability (invited)
11:20	Lu (S2)	Does Wave-Mean Flow Interaction Amplify the 11-Year Solar UV Signal?
11:40	von Clarmann (S3)	Another Approach to Stratospheric-Mesospheric Exchange: The Direct Inversion of the Continuity Equation
12:00	Duderstadt (S3)	Nitrate ion spikes in ice cores not suitable as proxies for solar proton events
12:20	Lunch	Lunch
13:20	Poster session 3	Poster session 3

14:50	Tea and coffee	Tea and coffee
15:20	Kiviranta (S4)	Empirical model of nitric oxide in the upper mesosphere and lower thermosphere based on 12 years of Odin-SMR measurements
15:40	Kyrölä (S4)	GOMOS measurements of O ₃ , NO ₂ and NO ₃ compared to specified-dynamics WACCM simulations
16:00	Kalakoski (S2)	Dynamical effects of EEP induced mesospheric ozone loss in WACCM
16:20	Mursula (S3)	Comparing the influence of sunspot activity and geomagnetic activity on winter surface climate

FRIDAY 17 JUNE		
9:00	Nieder (S2)	Solar particle impact on the middle atmosphere: results of global model studies
9:20	Andersson (S3)	Long-term atmospheric effects of medium-energy electron precipitation from chemistry-climate modelling
9:40	Turner (S4)	The success of CubeSats for providing inexpensive yet high-quality observations of energetic electron precipitation from Earth's radiation belts (invited)
10:15	Tea and coffee	Tea and coffee
10:45	Sinnhuber (S4)	Validation of the direct effect of mid-energy electrons in the mesosphere: Suggestion for a new HEPPA model-measurement intercomparison experiment
11:20	Arsenovic (S2)	The Influence of Middle Range Energy Electrons on Atmospheric Chemistry and Regional Climate
11:40	Maliniemi (S3)	QBO-dependent relation of geomagnetic activity and northern annular mode during the 20th century
12:00	Final Discussion	Final Discussion
12:20	Conclusion	Conclusion

Poster session 1 Monday 13 June	
Artamonov (S2)	Model CRAC:EPIL for atmospheric ionization due to precipitating electrons: Applications and comparison with parametrization model
Lavarra (S4)	Photoionisation characteristics in the polar summer mesosphere inverted from the ESR IPY data
Nedal (S2)	Investigate the effect of different solar phenomena on the high-latitude ionosphere
Sandanger (S4)	Solar cycle variability in long term particle fluxes as measured by NOAA POES
Verronen (S2)	Contribution of proton and electron precipitation to the observed electron concentration in October-November 2003 and September 2005

Ødegaard (S1)	Energetic electron precipitation during geomagnetic storms driven by high-speed solar wind streams
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Poster session 2 Tuesday 14 June	
Feng (S2)	Effect of solar proton events and medium energy electrons on the middle atmosphere using a 3D WACCM with D region ion-neutral chemistry
Grandhi (S2)	Does the SPE of January 2005 produce a unique, identifiable signature in polar middle atmosphere dynamics?
Hackett (S2)	Elevated stratopause events and their effects on energetic particle precipitation
Peck (S2)	Whole atmosphere impacts by auroral EEP
Päivärinta (S2)	Effect of transport and energetic particle precipitation on Northern Hemisphere polar stratospheric odd nitrogen and ozone in January-March 2012
Smith-Johnsen (S2)	NO produced by energetic electron precipitation during a geomagnetic storm in April 2010
Thiéblemont (S2)	Sensitivity of tropical stratospheric ozone to rotational UV variations at different time scales: observations vs model
Zawedde (S2)	The Impact of Energetic Electron Precipitation on Mesospheric Hydroxyl during a Year of Solar Minimum

Poster session 3 Thursday 16 June	
Andrews (S3)	Sub-seasonal influence of the solar cycle on the winter NAO
Asikainen (S3)	Modulation of the polar vortex by energetic particle precipitation and Quasi-Biennial Oscillation via ozone loss
Ball (S4)	Constraining solar irradiance changes using ozone: uncertainties and limitations
Garfinkel (S2)	Stratospheric Response to Intraseasonal Changes in Incoming Solar Radiation
Lu (S3)	Downward Wave Reflection as an Additional Mechanism for the Troposphere Response to the 11-year Solar Cycle
Meraner (S3)	Climate Effect of a Mesospheric Ozone Loss due to Energetic Particle Precipitation
Ringsby (S4)	Frequency Correction of CO Spectra from Odin/SMR
Verronen (S4)	WACCM-D - Whole Atmosphere Community Climate Model with D-region ion chemistry
Versick (S3)	Tests of a parameterization for auroral forcing in the CCM EMAC for CMIP6 simulations