

Observatory Days 2016

13.-15. January 2016
Sodankylä Geophysical Observatory

Programme

Wednesday, 13th January, afternoon

12:00		LUNCH
13:20	Th. Ulich	Welcome & Practicalities
		Session 1 (Chair Antti Kero)
13:30	E. Turunen	CHAMOS (Chemical Aeronomy of Mesosphere and Ozone in Stratosphere) international collaboration and future plans (solicited)
13:50	C. Baumann	Effects of meteoric smoke particles on the D-region ion-chemistry
14:05	A. Kozlovsky	Mesospheric temperature estimation from meteor decay times during Geminids meteor shower
14:20	L. Cai	The Joule heating hot spot at high latitudes in the afternoon sector
14:35	J. Manninen	High-frequency VLF radio emissions observed at Kannuslehto at L=5.5
14:50		DISCUSSION
15:00		COFFEE
		Session 2 (Chair Esa Turunen)
15:30	L. Roininen	Enabling Quantification of Uncertainties for Inverse Problems
15:45	I. Usoskin	Report on the cosmic ray group research in 2015 (solicited)
16:05	E. Asvestari	Long term solar variability and heliospheric modulation of Galactic Cosmic Rays: semi-empirical modelling
16:20	A. Mishev	Modelling of precipitating particles with various population impact ionisation in the upper and middle atmosphere
16:35	S. Poluianov	Mini Neutron Monitors at Concordia Research Station, Central Antarctica
16:50		DISCUSSION

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Thursday, 14th January, morning

- Session 3** (Chair Esa Turunen)
- 08:30 J. Manninen Kannuslehto ELF-VLF campaign 2015-2016
- 08:45 C. Heinselman EISCAT_3D: A new instrument for probing the Geospace environment (**solicited**)
- 09:05 C.-F. Enell Data services for EISCAT and EISCAT 3D
- 09:20 I. Virtanen Background suppression and strong codes in lag profile inversion
- 09:35 **DISCUSSION**
- Where do we stand
 - Funding for EISCAT_3D
 - Funding for related activities/instruments incl ITN
 - EISCAT support activities
- 10:00 **COFFEE**
- Session 4** (Chair Craig Heinselman)
- 10:30 R. Fallows Ionospheric Scintillation at Low Frequencies: Broadband Spectra and Phase Measurements (**solicited**)
- 10:50 H. Rothkaehl POLFAR – Polish LOFAR with Space Weather Applications (**solicited**)
- 11:10 M. Tornikoski Studies of Active Galactic Nuclei at Metsähovi Radio Observatory (**solicited**)
- 11:30 **DISCUSSION**
- Contributions to Space Weather
 - Solar Radio Observations
 - Relationship to LOFAR
- 12:00 **LUNCH**



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- Session 5** (Chair Ilya Usoskin)
- 13:30 H. Silvennoinen 3D structure of the crust and upper mantle below northern part of the Fennoscandian Shield
- 13:45 M. Toker Temporal imaging of the b-value anomalies of the 2011 Van earthquake (Mw 7.1), Eastern Turkey: A new look on the seismic radiation and deformation characteristics of this event
- 14:00 M. Orispää Single board computers
- 14:15 J. Mäkivaara SDR20 – Software Defined Radio as a scientific tool
- 14:30 T. Tallkvist Autonomous satellite tomography receiver concept
- 14:45 **DISCUSSION**
- EPOS
- Low power computers / Solutions for remote operations
- SDR applications
- 15:00 **COFFEE**
- Session 6** (Chair Thomas Ulich)
- 15:30 J. Kero IRF ground-based measurements: status and outlook (**solicited**)
- 15:50 M. G. Johnsen Tromsø Geophysical Observatory – Status and future plans (**solicited**)
- 16:05 Th. Ulich Sodankylä Geophysical Observatory – Status and future plans
- 16:15 A. Kero RLAB project building the next generation tomography and riometer receivers (**solicited**)
- 16:30 **DISCUSSION**
- TGO-IRF-SGO-FMI collaboration
- Tomography receiver locations and responsibility sharing
- Riometer locations
- Optical plans
- Other ground-based station locations
- 17:00 **WORKSHOPS**
- 19:00 **DINNER**

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Friday, 15th January

09:00 National EISCAT Co-ordination Committee Meeting
(Chair: Anita Aikio)
Everyone is welcome to participate.

Agenda

1. EISCAT status report – Director Craig Heinselman
2. EISCAT Council meeting short report – Anita Aikio
3. EISCAT SOC meeting short report – Thomas Ulich
4. Finnish EISCAT activities in 2016
 - EISCAT_3D Finland – Esa Turunen
 - Planned measurements and campaigns – all
5. Report to Academy – Anita Aikio
6. Metsähovi activities in radio science – Merja Tornikoski
7. Discussion

10:30 **COFFEE**

11:00 National EISCAT Co-ordination Committee Meeting
(continued)

12:00 **LUNCH**

13:00 Excursion to Kannuslehto VLF Site (optional)

16:00 Return to Sodankylä.