

Observatory Days 2018
10.-12. January 2018
Sodankylä Geophysical Observatory

Programme

Wednesday, 10th January, afternoon

- 12:00 **LUNCH** (own cost)
Chili con carne, rice (L, G)
- 13:30 **Welcome & Practicalities**
- Session 1** (Chair Esa Turunen)
- 13:35 I Virtanen EISCAT observations of electron precipitation energy spectrum
- 13:50 C-F Enell Status of the EISCAT_3D data management projects
- 14:05 J Manninen Status of EISCAT_3D at Karesuvanto
- 14:20 S Oyama Beyond present understanding of Magnetosphere-Ionosphere-
Thermosphere-Mesosphere coupled system at high latitudes:
planning instruments to be collaborated with the EISCAT_3D
- 14:35 **DISCUSSION**
– EISCAT & EISCAT_3D related developments
- 15:00 **COFFEE**
- Session 2** (Chair Thomas Ulich)
- 15:30 U Brändström Status of IRF Observatory
- 15:45 U Raffalski Instrumentation for ground-based atmospheric research located
at IRF Kiruna
- 16:00 D Martíni Space weather interests at Tromsø Geophysical Observatory
- 16:15 Th Ulich New Developments at Sodankylä Geophysical Observatory
- 16:30 **DISCUSSION**
– Observatory co-ordination/collaboration in Nordic countries
– Data licences, what to use? CC-BY 4.0? Other?
- 17:00 End of Session
- 19:00 **Conference Dinner**



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Thursday, 11th January, morning

Session 3 (Chair Anita Aikio)

- 08:30 A Mishev Upgrade of GLE database: assessment of effective dose rate at flight altitude
- 08:45 S Poluianov The status report of cosmic ray measurements in SGO. Long-awaited GLE event
- 09:00 I Usoskin Extreme solar particle events: the worst case scenario
- 09:15 P Peitso 100 years of Sodankylä magnetic field fluctuations
- 09:30 J Kallunki Multifrequency observations of the unprecedented Solar activity of September 2017

09:45 **DISCUSSION**

10:00 **COFFEE**

Session 4 (Chair Thomas Ulich)

- 10:30 R Fallows LOFAR4SW: Towards Space Weather Monitoring with LOFAR
- 10:45 M Fletcher Design Criteria and Performance of RF-shamaanit Oy Radio Scientific Instruments
- 11:00 E Turunen Lappi satellite project - new service for society, new data for satellite tomography
- 11:15 M Fletcher Preferred Ionosonde Characteristics for High Latitude HF Communications and Broadcast Services

11:30 **DISCUSSION**

- Industry-Academia collaboration
- consortia, funding element ideas
- data processing chains, public service ideas

12:00 Group Photo

12:05 **LUNCH**

Pea soup, pancake (L, G)

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Session 5 (Chair Thomas Ulich)

- 13:30 R Kivi Ozone measurements at Sodankylä
- 13:45 D Newnham Observations of the polar middle atmosphere using the BAS 230-250 GHz radiometer
- 14:00 P Verronen Polar ozone response to energetic particle precipitation over decadal time scales
- 14:15 J Karjalainen Passive seismic sounding in XSodEx project
- 14:30 H Jänkäväära State of health data processing and monitoring software for Northern Finland Seismological Network

14:45 **DISCUSSION**

15:00 **COFFEE**

Session 6 (Chair Kirsti Kauristie)

- 15:30 A Workayehu Studying the ionospheric horizontal and field-aligned currents from Swarm satellite measurements
- 15:45 L Cai Upper thermospheric wind in response to magnetospheric substorms
- 16:00 L Juusola Comparison of auroral ionospheric currents derived from IMAGE and Swarm magnetic field measurements
- 16:15 E L Macotela Sunrise effects on the lower ionosphere evaluated from VLF signal measurements
- 16:30 J Manninen VLF highlights from 2016 and 2017
- 16:45 R Hynönen Spatio-temporal evolution of ULF waves in space and on ground

17:00 **DISCUSSION & CLOSING**

17:30 End of Session

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Friday, 12th January

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

Agenda

1. Overview Reports
 1. EISCAT Council meetings in 2017 (Anita Aikio)
 2. EISCAT SOC meetings in 2017 (Thomas Ulich)
2. EISCAT Activities in 2018
 1. satellite coordination, e.g. ARASE, SWARM
 2. EISCAT_3D Users Meeting (Uppsala, 7-9 May 2018)
 3. Radar School (Qingdao, 23 July - 3 August 2018)
 4. Reporting to EISCAT (Annual Reports)
 5. other
3. EISCAT_3D
 1. EISCAT_3D Finland status and plans (Jyrki Manninen)
 2. Long-term strategy for EISCAT-related research in Finland
4. AOB

10:30 **COFFEE**

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

12:00 **LUNCH** (own cost)
Kebap sauce, potatoes (L, G)