

# Observatory Days 2017

11.-13. January 2017  
Sodankylä Geophysical Observatory

## Programme

### Wednesday, 11th January, afternoon

12:00		<b>LUNCH</b>
13:30		Welcome & Practicalities
		<b>Session 1</b> (Chair Thomas Ulich)
13:40	A Kozlovsky	Dust in the mesosphere, as it may be detected by the meteor radar
14:00	K Kauristie	Swarm-SECS method: First tests for data base generation
14:20	A Workayehu	Studying the ionospheric horizontal and field-aligned currents from the Swarm satellite measurements
14:40	E Turunen	Chemical Aeronomy of the Mesosphere and Ozone in the Stratosphere
15:00		<b>DISCUSSION</b>
15:20		<b>COFFEE</b>
		<b>Session 2</b> (Chair J Manninen)
15:50	E L Macotela	Daytime sensitivity of the lower ionosphere to solar X-ray flares evaluated from VLF signal measurements
16:10	H Silvennoinen	Upgrading the Northern Finland Seismic Network
16:30	J Nevalainen	EPOS Anthropogenic Hazard and Analyses of microseismic data to monitor seismic activity at Pyhäsalmi Mine, Pyhäjärvi, Finland.
16:50		<b>DISCUSSION</b>
17:20		End of Session
19:00		<b>Conference Dinner</b>

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### Thursday, 12th January, morning

#### Session 3 (Chair K Kauristie)

- 08:30 T Raita Geomagnetic observatory activities at SOD  
08:50 U Brändström IRF Observatory - past, present and future  
09:10 J Kallunki Radio frequency interferences (RFI) – current trends and problems  
09:30 M Anttila Industry and research co-operation possibilities, practical examples  
09:50 **DISCUSSION**

10:10 **COFFEE**

#### Session 4 (Chair A Aikio)

- 10:40 T Leyser A new vertical incidence ionospheric HF radar in Kiruna  
11:00 J Kero The ARISE project, IRF infrasound registrations, and meteor research  
11:20 J Norberg TomoScand ionospheric 3D tomography  
11:40 **DISCUSSION**  
12:00 Group Photo  
12:05 **LUNCH**

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**Programme**

**Thursday, 14th January, afternoon**

- Session 5** (Chair E Turunen)
- 13:30 J Kallunki 40 years of solar radio observations at Metsähovi Radio Observatory
- 13:50 R Fallows Some Scintillating Updates from LOFAR and KAIRA
- 14:10 I Virtanen Incoherent scatter measurements with KAIRA
- 14:30 **DISCUSSION**  
- Preparing for EISCAT\_3D  
- Co-ordination of Nordic ground-based measurement efforts
- 15:00 **COFFEE**
- Session 6** (Chair I Usoskin)
- 15:30 S Poluianov Cosmic rays measurements of Sodankylä Geophysical Observatory. Status report.
- 15:50 A Mishev Practical modeling of ionization effects of various populations of precipitating particles in the upper and middle atmosphere
- 16:10 C-F Enell EISCAT\_3D data flow and data processing plans
- 16:30 **DISCUSSION**
- 17:20 End of Session
- 17:20 **WORKSHOPS**  
time for group work, break-out rooms available  
Suggestion(s):  
- Co-ordination of Nordic ground-based measurement efforts



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### Friday, 13th January

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

#### Agenda

1. ERG satellite status report – Antti Kero via Skype from Nagoya University
2. Planned use of Finnish EISCAT time in 2017, including possible ERG overflights - discussion
3. EISCAT Council meetings in 2016 and topical matters including plans for EISCAT\_3D - Anita Aikio
4. EISCAT SOC meetings in 2016 - Thomas Ulich
5. Discussion of Finnish EISCAT activities in 2017 and AOB

10:30 **COFFEE**

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

12:00 **LUNCH**

