9.-11. January 2019 Sodankylä Geophysical Observatory

Programme

Wednesday, 9th January, afternoon

12:00		LUNCH (own cost)
13:00	Th.Ulich	Welcome & Practicalities
13:10	E Turunen	Opening of 10th Observatory Days
		Session 1 (Chair Esa Turunen)
13:30	E Tanskanen	The Sun–Earth magnetic coupling: seasonal and solar cycle variability
13:45	J Envall	Small magnetometer for aerial magnetic surveys
14:00	I Usoskin	Progress and prospective of cosmic-ray studies at SGO
14:15	A Mishev	GLE 72 on 10 September 2017 and related space weather phenomena
14:30	S Poluianov	Dome C neutron monitors for studies of the cosmic ray multiplicity
14:45		DISCUSSION
15:00		COFFEE
		Session 2 (Chair Thomas Ulich)
15:30	S Kirchner	International Law and the Dawn of the Age of Asteroid Mining (solicited, via video link)
15:50	K Kauristie	Space Weather advisories for civil aviation by the PECASUS consortium
16:05	J Manninen	EISCAT_3D Finland status
16:20	S Oyama	SDI-3D project: MIT coupling study with the EISCAT_3D
16:35		DISCUSSION
17:00		End of Session
19:00		Conference Dinner (included)

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Thursday, 10th January, morning

		Session 3 (Chair Maxime Grandin)
08:30	C-F Enell	EISCAT_3D principles of operation and scheduling
08:45	M Pedersen	Estimating thermospheric neutral densities using EISCAT- observations and ionospheric heating
09:00	H Jänkävaara	Studies of long-period array methods with Northern Finland Seismological Network
09:15	T Miyamoto	Variations of CNA by EEP and changes of the auroral morphology
09:30		DISCUSSION
10:00		COFFEE
		Session 4 (Chair Jia Jia)
10:30	D Newnham	Simulation study for ground-based Ku-band microwave observations of ozone and hydroxyl in the polar middle atmosphere
10:45	R Kivi	Ozone measurements over Northern Finland
11:00	A Salminen	Effects of energetic electron precipitation and Quasi-Biennial Oscillation on the northern polar vortex
11:15	A Kero	Sensitivity of polar mesospheric ozone-related chemistry to ionisation
11:30		DISCUSSION
12:00		Group Photo
12:05		LUNCH (included)

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Thursday, 10th January, afternoon

			Session 5 (Chair Anita Aikio)	
13:30	K M Laundal		An empirical model of the average magnetic field and polar current system, based on Swarm and CHAMP magnetometer measurements	
13:45	L Roininen		Sparse Hierarchical Non-stationary Models in Geophysical Data Classification	
14:00	M Grandin		Hybrid-Vlasov simulation of auroral proton precipitation and other Vlasiator stories	
14:15	H Vanh	namäki	Using the SECS method to estimate ionospheric currents from Swarm magnetic data at middle and low latitudes	
14:30			DISCUSSION	
15:00			COFFEE	
			Session 6 (Chair Shin-ichiro Oyama)	
15:30	Yu Fedorenko		Joint VLF studies using Sodankyla Geophysical Observatory and Polar Geophysical Institute data: instrumentation and modeling	
15:45	J Manninen		Simultaneous KAN-ERG observations	
16:00	A Kozlovsky		Recent results from the SGO meteor radar observations	
16:15	M Grandin		Properties and geoeffectiveness of solar wind high-speed streams and stream interaction regions during solar cycles 23 and 24	
16:30			DISCUSSION & CLOSING	
17:00			End of Session	
			POSTERS	
B V Kozelov		Kola Arctic Geophysical Infrastructure Network of the Polar Geophysical Institute: possibilities for collaboration		
J Norberg		Recent developments in TomoScand ionospheric tomography project		
I Virtanen		Electron Energy Spectrum Estimation from Incoherent Scatter Radar Measurements		
A Workayehu		lonospheric currents in the two hemispheres during low and high magnetic activity by the Swarm satellite		

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9.-11. January 2019 Sodankylä Geophysical Observatory

Programme

Friday, 11th January

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

Preliminary Agenda

- 1. Overview Reports
 - 1. EISCAT Council meetings in 2018 (Anita Aikio)
 - 2. EISCAT SAC meetings in 2018 (Thomas Ulich)
- 2. EISCAT Activities in 2019
 - 1. Satellite coordination, e.g. ARASE, SWARM
 - 2. EISCAT_3D Users Meeting (Uppsala, 21-22 May 2019)
 - 3. EISCAT Symposium and Optical Meeting (46AM; Oulu, 19-23 Aug 2019)
 - 4. IS Radar School, Pikku-Syöte, 12-17 Aug 2019
 - 5. Reporting to EISCAT (Annual Reports)
 - 6. other
- 3. EISCAT_3D
 - 1. EISCAT_3D Finland status and plans (Jyrki Manninen)
 - 2. Long-term strategy for EISCAT-related research in Finland
- 4. Any Other Business
- 10:30 **COFFEE**
- 11:00 National EISCAT Co-ordination Committee Meeting (continued)
- 12:00 LUNCH (own cost)

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