

Observatory Days 2021

11.-15. January 2021

Sodankylä Geophysical Observatory

Programme

Monday, 11th January, 10-13 EET / 08-11 UTC

10:00	Th Ulich	Welcome & Practicalities
		Session 1 (Chair: E Tanskanen)
10:00	A Viljanen	Telluric currents play a larger role in geomagnetic variations than previously thought
10:15	M Kellinsalmi	Dynamics of ionospheric and telluric currents during large events of geomagnetically induced currents
10:30	H Vanhamäki	Fast multisheet solver for geomagnetic induction in time-domain
10:45	M Kruglyakov	Comparison of three approaches for the simulation of the geoelectric field induced by space weather events in Fennoscandia
11:00		DISCUSSION
11:30		BREAK
		Session 2 (Chair: E Tanskanen)
11:45	L Holappa	Explicit IMF By-effect in geomagnetic activity
12:00	S Nikbakhsh	Magnetic Evolution and Lifetime of Solar Active Regions
12:15	J Biström	CubeMAG – A miniaturised magnetometer payload for small satellites
12:30	O Kärhä	Multimethod IMS measurements
12:45		DISCUSSION
13:00		End of Session

IMPORTANT NOTE:

Sessions will start at **10:00** and **11:45**.

All other times have no meaning, except setting the **time limit for the presenter**.

Talks will start in sequence, in case of no-show, we will move on to the next talk immediately!



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Tuesday, 12th January, 10-13 EET / 08-11 UTC

10:00	Th Ulich	Welcome & Practicalities
		Session 3 (Chair: P Verronen)
10:00	A Kozlovsky	Polar mesosphere summer echoes and possible signatures of pulsating aurora detected by the meteor radar
10:15	J Vierinen	Observations of the 2020 Pajala Fireball
10:30	E Sarkar	Solving the long-standing problem of the biasing effect in meteor radar temperature.
10:45	K Nilsen	Sensitivity of middle atmospheric ozone to solar proton events: comparing the WACCM-D climate model to satellite datasets
11:00	O Lednyts'kyy	Consistent retrievals of atomic oxygen based on multiple emissions, reduction to the O ₂ (0-0) A band emission and outlook to ion chemistry
11:15		DISCUSSION
11:30		BREAK
		Session 4 (Chair: P Verronen)
11:45	I Usoskin	Major revision of GLE (Ground-Level Enhancement) database and solar energetic particle spectra reconstructions
12:00	A Mishev	QUASARE project – aims, current status and perspectives
12:15	S Poluianov	Dome C neutron monitors after the upgrade
12:30	K Mursula	A century of geomagnetic storms
12:45		DISCUSSION
13:00		End of Session

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Wednesday, 13th January, 10-13 EET / 08-11 UTC

10:00	Th Ulich	Welcome & Practicalities
		Session 5 (Chair: J Manninen)
10:00	K Blix	ALOMAR 2020 – remotely operated and controlled LiDAR measurements from summer 2020.
10:15	I Usoskin	Report and plans of the cosmic-ray group
10:30	E Tanskanen	New infrastructures enable top-tier science and upgrading of monitoring capability
10:45	J Vierinen	Automatic ionogram scaling using convolutional neural networks
11:00		DISCUSSION
11:30		BREAK
		Session 6 (Chair: J Manninen)
11:45	Th Ulich	Status Update on SGO Measurements
12:00	J Envall	SGO Drone Program – New Opportunities for Science and Industry
12:15	A Binios	LappiSat Satellite Centre & Program – LappiSat-1
12:30	S Kirchner	Harvesting Icebergs and Space Rocks
12:45		DISCUSSION
13:00		End of Session

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Thursday, 14th January, 10-13 EET / 08-11 UTC

10:00 Th Ulich **Welcome & Practicalities**

Session 7 (Chair: A Aikio)

10:00 C Heinselman EISCAT in the coming years (solicited)

10:30 I Virtanen BAFIM - a Bayesian Filtering Module for GUIDAP

10:45 H W Tesfaw ISR Electron precipitation Observation with High Time Resolution

11:00 M Hyötylä Inversion Method for Finding the Signal-to-Noise Ratio of Spectrometer

11:15 **DISCUSSION**

11:30 **BREAK**

Session 8 (Chair: A Aikio)

11:45 A Workayehu Seasonal and IMF effect on hemispheric asymmetry in ionospheric horizontal and field-aligned currents

12:00 M N Pedersen The effect of HSS/SIR geomagnetic storms on the ionospheric and field-aligned current systems

12:15 S Käki Spatio-temporal development of large scale auroral electrojet currents relative to substorm onsets

12:30 **DISCUSSION & CLOSING**

13:00 End of Session

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Friday, 14th January, 10-13 EET / 08-11 UTC

10:00 National EISCAT Co-ordination Committee Meeting

(Chair: Anita Aikio)

Everyone is welcome to participate.

Agenda

1. EISCAT committees
 - 1.1.EISCAT Council meetings in 2020 (Anita Aikio)
 - 1.2.EISCAT SAC meetings in 2020 (Thomas Ulich)
 - 1.3.EISCAT Council and SAC members
 - 1.4.Finnish EISCAT Coordination Group members
2. EISCAT measurement campaigns and activities in 2021
 - 2.1.Satellite coordination, e.g. ARASE, SWARM
 - 2.2.Finnish SP campaigns
3. EISCAT-related meetings
 - 3.1.EISCAT_3D User Meetings in 2021
 - 3.2.EISCAT_3D Technical Review Meeting (27-28 Jan 2021)
 - 3.3.EISCAT Symposium jointly with LMPR Workshop (spring 2022)
 - 3.4.2nd Finnish EISCAT_3D User Meeting
 - 3.5.Other meetings
4. EISCAT_3D Finland status and plans (Thomas Ulich & Jyrki Manninen)
5. Any Other Business

12:00 End of Meeting