10.-14. January 2022

Sodankylä Geophysical Observatory

Programme

Monday, 10th January, 10:00-13:30 EET / 08:00-11:00 UTC

10:00	Th Ulich	Welcome & Practicalities
		Session 1 (Chair: Eija Tanskanen)
10:05	E Tanskanen	The unique role of observatories and infrastructures in safe space exploration
10:20	S Kirchner	Where does Space begin?
10:35	J Paakkari	Enlarging the University of Oulu Space Research within Finland and EU
10:50	V Sergeev	Substorm injections as major driver of Energetic Electron Precipitation events
11:05		DISCUSSION Thematic network on Arctic Space Hub
11:30		BREAK
		Session 2 (Chair: Eija Tanskanen)
12:00	A Aikio	EISCAT_3D and its current status
12:15	A Kero	Energetic particle precipitation flux spectrum as a standard high-level data product for the upcoming EISCAT_3D?
12:30	S-I Oyama	SDI-3D and collaborations with ground-based instruments in Fennoscandia
12:45	A Binios	Current status of the LappiSat-1 – The first satellite of SGO's LappiSat Space Programme
13:00	S Poluianov	Cosmic ray measurements by SGO: status report
13:15		DISCUSSION
13:30		End of Session

IMPORTANT NOTE:

Sessions will start at 10:00 and 12:00.

There are **posters**, too. See last page of this Programme!

The time limit for the presenter is 15 min per talk incl discussion.

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

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10.-14. January 2022

Sodankylä Geophysical Observatory

Programme

Tuesday, 11th January, 10:00-13:30 EET / 08:00-11:30 UTC

Session 3 (Chair: Antti Kero)

		Condition (Champing Here)
10:00	P T Verronen	Ozone response to high-energy electron precipitation related to pulsating aurorae
10:15	K Nilsen	The impact of the Solar Proton Event of November 2001 on the middle atmospheric ozone chemistry
10:30	M Grandin	Auroral electron precipitating fluxes generated with eVlasiator as an input to WACCM-D runs: Method and preliminary results
10:45	N Larsen	Development of a new magnetospheric computation tool
11:00	E Marshalko	Real-time simulation of the geoelectric field due to space weather events
11:15		DISCUSSION
11:30		BREAK
		Session 4 (Chair: Ilya Usoskin)
		Session 4 (Chair: Ilya Usoskin)
12:00	A Mishev	Session 4 (Chair: Ilya Usoskin) The first Ground Level Enhancement of solar cycle 25: study using neutron monitor data
12:00 12:15	A Mishev S Vainio	The first Ground Level Enhancement of solar cycle 25: study
		The first Ground Level Enhancement of solar cycle 25: study using neutron monitor data Cosmic Shower and Speculative Links Between the Macro- and
12:15	S Vainio	The first Ground Level Enhancement of solar cycle 25: study using neutron monitor data Cosmic Shower and Speculative Links Between the Macro- and MicroCosmic BioInformation Cycles A connection between solar photosphere magnetic field
12:15 12:30	S Vainio J Kallunki	The first Ground Level Enhancement of solar cycle 25: study using neutron monitor data Cosmic Shower and Speculative Links Between the Macro- and MicroCosmic BioInformation Cycles A connection between solar photosphere magnetic field strength and millimetre solar radio emission Variability of D region ionisation during the solar minimum of
12:15 12:30 12:45	S Vainio J Kallunki	The first Ground Level Enhancement of solar cycle 25: study using neutron monitor data Cosmic Shower and Speculative Links Between the Macro- and MicroCosmic BioInformation Cycles A connection between solar photosphere magnetic field strength and millimetre solar radio emission Variability of D region ionisation during the solar minimum of cycles 24/25

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10.-14. January 2022

Sodankylä Geophysical Observatory

Programme

Wednesday, 12th January, 10:00-13:30 EET / 08:00-11:30 UTC

Session 5 (Chair: Anita Aikio)

	Coston o (Onan. 7 una 7 uno)
M Lehtinen E Hirvonen	Radar methods and equipment development 1980-2021 Software-Defined Radio implementation for Metsähovi
	Compact Array 1
H Tesfaw	Precipitating electron energy spectra and auroral power estimation by incoherent scatter radar with high temporal resolution
L Cai	Upper and lower thermospheric winds during substorms DISCUSSION
	BREAK
	Session 6 (Chair: Jyrki Manninen)
N Thomas	Statistical survey of Arase satellite data sets in conjunction with the Finnish Riometer Network
	the Finition fiorheter network
D Rogov	Isolated substorms from two-frequency riometer observations in Sodankylä: frequency coefficient variations during a
D Rogov P Kirves	Isolated substorms from two-frequency riometer observations
Ç	Isolated substorms from two-frequency riometer observations in Sodankylä: frequency coefficient variations during a substorm Reborn 30 GHz experimental radiometer for atmospheric tau
P Kirves	Isolated substorms from two-frequency riometer observations in Sodankylä: frequency coefficient variations during a substorm Reborn 30 GHz experimental radiometer for atmospheric tau evaluation The fall-effect in ionospheric and mesospheric parameters Ground-response of geomagnetic ULF waves to solar wind
P Kirves L Macotela	Isolated substorms from two-frequency riometer observations in Sodankylä: frequency coefficient variations during a substorm Reborn 30 GHz experimental radiometer for atmospheric tau evaluation The fall-effect in ionospheric and mesospheric parameters
	E Hirvonen H Tesfaw L Cai

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10.-14. January 2022

Sodankylä Geophysical Observatory

Programme

Thursday, 13th January, 10:00-13:30 EET / 08:00-11:30 UTC

		Session 7 (Chair: Lauri Holappa)
10:00	G Carnevale	Sudden depletion of Alfvénic turbulence in the rarefaction region of corotating solar wind HSS at 1 AU: possible solar origin?
10:15	M Yamauchi	Two-step determination of auroral breakup seen in all-sky jpeg images
10:30	A Kozlovsky	On the orientation of auroral arcs
10:45	N Partamies	MLT dependence of auroral peak emission heights
11:00		DISCUSSION
11:30		BREAK
		Session 8 (Chair: Noora Partamies)
12:00	L Holappa	Session 8 (Chair: Noora Partamies) The sign and magnitude of IMF By-component modulate substorm dynamics
12:00 12:15	L Holappa M N Pedersen	The sign and magnitude of IMF By-component modulate
	• •	The sign and magnitude of IMF By-component modulate substorm dynamics Field-Aligned and Ionospheric Equivalent Currents from AMPERE and SuperMAG During ICME Driven Geomagnetic
12:15	M N Pedersen	The sign and magnitude of IMF By-component modulate substorm dynamics Field-Aligned and Ionospheric Equivalent Currents from AMPERE and SuperMAG During ICME Driven Geomagnetic Storms Joule heating and its influence on thermospheric density during

IMPORTANT NOTE:

13:30

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End of Session

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10.-14. January 2022 Sodankylä Geophysical Observatory

Programme

Friday, 14th January, 10:00-13:00 EET / 08:00-11:00 UTC

10:00 National EISCAT Co-ordination Committee Meeting (Chair: Anita Aikio)

The meeting is cancelled due to sudden timetable changes. We apologise for any inconvenience.

POSTERS

Ilya Usoskin Study of cosmic-ray modulation by AMS-02 spectrometer

onboard ISS

Carl-Fredrik Enell EISCAT 3D user access

Thomas Ulich EISCAT_3D Finland – Status Update

Sergey Koldobskiy New reconstruction of event-integrated spectra (spectral

fluences) for major solar energetic particle events

Posters are viewable throughout the meeting.

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