

European Space Weather Week 2025 - cloned July 3

Monday, 3 November 2025

SWR4 –Interactions in the Earth’s Magnetosphere-Ionosphere-Thermosphere System and their Space Weather Impact:
Orals - Part 1 (16:00 - 17:00)

-Conveners: Alan George Wood; Lucilla Alfonsi; Daria Kotova; Guram Kervalishvili

time	[id] title	presenter
16:00	[27] Exploring The Response of The Magnetosphere to Terrestrial Weather using MAGE/TIEGCM	Dr GASPERINI, Federico
16:15	[30] First observation of the auroral sporadic E layer (Esa) induced by anomalous ionization during the May 10–12, 2024 geomagnetic storm over equatorial Brazilian region	Dr RESENDE CHAGAS, Laysa C. A.
16:30	[81] Ionospheric response to geomagnetic storms of different intensity in the Eastern North Atlantic mid-latitudinal zone: comparison between Lisbon, Azores and Madeira	Mr CHIAHA OBUMNEME, Shedrach
16:45	[216] Effects of geomagnetic storms on the high-latitude ionosphere-thermosphere, comparison between a moderate storm and the May 2024 superstorm	AIKIO, Anita

Tuesday, 4 November 2025

SWR4 –Interactions in the Earth’s Magnetosphere-Ionosphere-Thermosphere System and their Space Weather Impact:

Orals - Part 2 (10:45 - 12:15)

-Conveners: Alan George Wood; Lucilla Alfonsi; Daria Kotova; Guram Kervalishvili

time	[id] title	presenter
10:45	[288] A mirror mode event index	Dr SHNEIDER, Carl
11:05	[113] Statistical Observations in Support of Bow Shock Current Closure to Earth’s High-Latitude Ionosphere during Non-Zero IMF By	NORDIN, Gabriella
11:20	[61] Assessing the Impact of ICMEs and HSSs on Global dBH/dt Spikes During Geomagnetic Storms	MARCHEZI, Jose
11:35	[198] Joule heating and thermospheric density enhancements during geomagnetic storms driven by solar wind high-speed streams and coronal mass ejections	PEDERSEN, Marcus
11:55	[328] New dawn: Realizing the vision of a holistic ITM observatory in the modern era	KEPKO, Larry

SWR4 –Interactions in the Earth’s Magnetosphere-Ionosphere-Thermosphere System and their Space Weather Impact:

Orals - Part 3 (14:45 - 16:00)

-Conveners: Alan George Wood; Lucilla Alfonsi; Daria Kotova; Guram Kervalishvili

time	[id] title	presenter
14:45	[90] A Data-Driven, Physics-Constrained Neural Network for Global Ionospheric Parameter Prediction	Dr SEBA, Ephrem
15:00	[39] Using Machine Learning to develop statistical models of high latitude Sporadic-E climatology: A Sporadic-E module for E-CHAIM	THEMENS, David
15:15	[350] Characteristics of Slant Sporadic-E Layers Observed at Low-Latitudes	Mr MUKA, Peter
15:30	[28] Modeling Diurnal HF Signal Absorption in the Ionosphere: D, E, and F-Layer Effects from Citizen Science-Based GRAPE Receiver Observations	ZAYED, Gamal
15:45	[185] Understanding and Modelling the Geomagnetically Induced Currents caused by Sudden Commencements	SMITH, Andrew

Wednesday, 5 November 2025

SWR4 –Interactions in the Earth’s Magnetosphere-Ionosphere-Thermosphere System and their Space Weather Impact:

Orals - part 4 (08:30 - 09:30)

-Conveners: Alan George Wood; Guram Kervalishvili; Lucilla Alfonsi; Daria Kotova

time	[id] title	presenter
08:30	[272] Measuring ionospheric absorption based on received ionosonde amplitudes using sounding frequencies above 10 MHz – preliminary results	BARTA, Veronika
08:45	[321] Comparative analysis of ground- and space-based ionospheric indices for monitoring the perturbation degree of the ionosphere	Dr CAHUASQUÍ, J. Andrés
09:00	[49] A Statistical Study of Possible Drivers for Substorm dB/dt Spikiness	HAMRIN, Maria
09:15	[109] Sources of the winter nighttime ionospheric response in Tromsø caused by the variations of solar wind	IOCHEM, Pelin