ISTITUTO NAZIONALE
DI GEOFISICA E VULCANOLOGIA

Monday-Tuesday, 10-11 November 2025

Session	Speaker	Title
A1 - Modeling and validation	ABUELEZZ Ola Ahmed Mustafa	A Preliminary comparison between autoscaled and estimated hmF2 values over Malindi
	CORTES-ROJAS Esteban	Sq Current System at the Fuquene Geomagnetic Observatory and Its Relationship with the DIFI-7 Model.
	NORBERG Lauri Jouko Johannes	Enhancing the Kalman filter approach to ionospheric imaging with measurement-based background models
	RAMLA Osama	Use of GNSS Data for Ionospheric Monitoring and Modelling
	SEEMALA Gopi Krishna	Quantifying Polar Ionospheric TEC Response to Geomagnetic Storms
	ARSHAD Muhammad Haseeb	Real-Time Monitoring and Modelling of Ionospheric TEC Variations Using GNSS Data for Enhanced Space Weather Resilience
	ATHER Fatima	Validation and Enhancement of IRI and NeQuick Models for TEC Estimation Across Latitudinal Regions Using Machine Learning
	PERRONE Loredana	The state of the Ionosphere-Thermosphere during the May 2024 storm
	SABBAGH Dario	Investigating Thermosphere-Ionosphere Response to Geomagnetic Storms by Multi-Instrumental and Modeling approach
	SILVA Joao Lucas	Availability and Performance Evaluation of Multi-GNSS Radio Occultation Data
	YASSEN Ahmed Mahmoud Hassan	Assessment of IRI-2020 Electron Density Profiles Using COSMIC-2 toF2 Data and Ionosonde measurements over African Equatorial region
	CREED Rufus Samuel	Evaluation of new LEO GNSS beacon transmitter opportunities for ionospheric tomography and data assimilation
	RAMÍREZ Nicolás	Comparison of High resolution VTEC maps over Chile during the October 22, 2022 geomagnetic storm.
A2 - Theory, Modeling and Measurements of Ionospheric Scintillations and Irregularities	GOZUTOK Arif	Wavelet Spectral Analysis of Tromsø Dynasonde between Years 2022-2025
	LAWAL Lasisi Salami	DFMC SBAS Prototype for Africa via NIGCOMSAT-1R Navigation Overlay Service
	MADEIRA Roberto	Relations Between the Irregularity Drift Velocities Calculated Using Stand Alone and Spaced Receivers in Southeast Brazil
	MARLIA Dessi	World-Wide Real-Time Scintillation Monitoring Based on NTRIP
	NYKIEL Grzegorz	Characterization of spatial ionospheric perturbations based on the Gradient Ionospheric indeX
	PASUMARTHI Babu Sree Harsha	Assessment of Ionospheric Scintillations from Equatorial GNSS Stations for GBAS Applications
	RODRIGUEZ MARTINEZ Mario	Dynamic spectra analysis of spectral caustics observed over Mexico during 2024

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A2 - Theory, Modeling and Measurements of Ionospheric Scintillations and Irregularities	SEIF Aramesh	Monitoring Equatorial F- and E-Region Scintillation with COSMIC-RO and Ground-Based SCINDA GNSS Observations
	ZAKHARENKOVA Irina	COSMIC-2 Multi-instrument Measurements of Equatorial Ionospheric Irregularities and Scintillations
	ZAUPA Joao Pedro Voltare	A Moving Window Method for High-Resolution S4 Index Estimation Using GNSS IQ Data
	AGYEI-YEBOAH Ebenezer	Occurrence of ionospheric irregularities during successive geomagnetic storms in November 2023
	AIMOUCHE Nihad Kheira	the response to solar events of the ionospheric VTEC at high latitudes using GNSS data
	AMARAL FERREIRA Arthur	Investigation on the seeding mechanisms of Equatorial Plasma Bubbles
	DE PAULA Eurico	Spectral Characterization of Ionospheric Scintillation Effects on SBAS L1 Signals Using a Fading-Dependent Analysis
	TABTI Lahouaria	Evaluation of Broadcast Ionospheric Models on Single-Frequency GPS Positioning Accuracy
	BARROS SILVA Diego	Asymmetrical Development of Equatorial Plasma Bubbles at Geomagnetic Conjugate Sites over Brazil
	RAJANA Siva Sai Kumar	Super Equatorial Plasma Bubbles during the 10–11 October 2024 Geomagnetic Storm: First Multi-Instrumental Results from Europe–Africa Longitude sector
	YOUNAS Waqar	Spatio-Temporal Evolution of Mid-Latitude GPS Scintillation and Position Errors During the May 2024 Solar Storm
A3 - Space and Ground-based Ionospheric Techniques and Measurements	AKINSOLA Timothy	Probing Ionospheric Disturbances In The Near Equatorial Region: Insights From Solar And Tropospheric Drivers
	DURGONICS Tibor	Advancing Global and Regional Ionospheric Scintillation Mapping Using Ground-Based and LEO GNSS Observations
	JONAH Olusegun	Establishing the Continuous Network of GNSS Receivers over Africa (CONGA)
	JORGENSEN Anders M.	The New Mexico Tech Space Weather Explorer
	KOLOSKOV Oleksandr	An Improved Algorithm for Measuring Plasma Drift Velocity Using Ionosondes
	PACHECO JOSAN Edgardo Enrique	Scintillation Monitoring in the Peruvian Sector Using a Low-Cost Ground-Based Receiver System
	PADOKHIN Artem	Galileo and BeiDou AltBOC signals in ionospheric TEC studies
	S Iswariya	Global Validation of Ionospheric Bottomside Profile Thickness and Shape Parameters (BO & B1) from COSMIC- 2 RO and Digisonde Observations for Plausible Improvements in IRI-2020 Model
	TAHIR Afnan	Longitudinal Differences in Ionospheric Irregularities during the March 2023 Geomagnetic Storm: A Multi- Instrument Study of Driving Mechanisms

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A3 - Space and Ground-based Ionospheric Techniques and Measurements	LOMOTEY Solomon Otoo	Variability of the equatorial ionization anomaly over the South American sector: Effects of electric field and effective meridional wind
	MINI Rajput	Evaluating the Performance of the IRI-2020 and IRI-2016 model using GPS-TEC for Equatorial to high-latitude stations during a solar cycle period from 2004 to 2014
	MUKA Peter Taiwo	Nocturnal Occurrence of Slant Sporadic E-layer at Low latitude
	TAHIR Afnan	Longitudinal Differences in Ionospheric Irregularities during the March 2023 Geomagnetic Storm: A Multi-Instrument Study of Driving Mechanisms
	SCOTTO Carlo	Towards Robust Spread-F Monitoring for Space Weather: Multi-Station Validation of an Ionogram-Based Detection Method
	AYEBARE Daphine	Characterization of the equatorial electrojet and its magnetic signatures deduced from Swarm observations
	AYORINDE Toyese Tunde	Role of mesospheric gravity waves breaking in the occurrence of sporadic-E over South America: Mesosphere-Lower thermosphere interactions.
	BHATTACHARYYA Sandip	Quiet time enhancements and decrements in the day-to-day TEC variations over the Indian equatorial and low latitudes
	CANALES RIQUELME Marayen Renata	Geomagnetic and climatological effects on long-term ionosphere trends over the Southern Hemisphere
	DA SILVA PICANCO Giorgio Arlan	Development of a GNSS-TEC Calibration Module for the OASIS Python Toolbox
	LAFFITAU Ulysse Leon	On the use of dual-frequency smartphones to infer the TEC
	LOUTFI Amal	Storm-Time Dynamics of Electron Density over the African Sector: A Case Study of the 10–12 May 2024 Geomagnetic Storm
	VALLIS Atis	IONOSPHERIC ACTIVITY STUDIES IN THE TERRITORY OF LATVIA USING RINEX BASE STATION DATA