

# List of Posters

**Tuesday, 2 August, 16:00-18:30**

Poster Chairs: Teddy Surco (BC, USA), Yenca Migoye Orue (ICTP, Italy)

## Irregularities and Scintillation Measurements and Effects

1	Feasibility Analysis of a CubeSat Constellation for Low-Latitude Ionospheric Monitoring <i>Lucas Salles, Alison Moraes and Nilton Renno</i>
2	February 2022 Magnetic Storms Effects on Ionospheric Scintillation <i>Ivan Kantor, André Martinon, Vinicius Stuani Pereira, Joao Francisco Galera and Eurico de Paula</i>
3	Spectral Analysis of Phase Scintillation at Low Latitudes <i>Eurico de Paula and Alison Moraes</i>
4	Ionospheric Irregularities Over South America During Intense Geomagnetic Storms <i>Gilda Gonzalez and Jorgelina López</i>
5	Multifrequency Observation of Ionospheric Scintillation in the Polar Regions <i>Kaili Song</i>
6	Ionospheric Scintillation Climatology over Ethiopia During the Raising Phase of Solar Cycle 24 <i>Tesfay Tesfu, Gizaw Tsidu, Luca Spogli and Nat Gopalswamy</i>
7	Large-scale Ionospheric Irregularities Pattern During Solar Cycle 24 at Ilorin, Nigeria <i>Olushola A. Oladipo, Jacob O. Adeniyi, Isaac A. Adimula, Adeniji O. Olawepo and Patricia H. Doherty</i>
8	Study of Ionospheric Scintillations During Ascending Phase of 25th Solar Cycle Over Low Latitude Station Varanasi <i>Abhay Kumar Singh, Mukulika Mondal and Sanjay Kumar</i>
9	Multi-station and Multi-instrument Observations of F-Region Irregularities in the Taiwan-Philippines Sector <i>Lung-Chi Tsai, Shin-Yi Su and Chao-Han Liu</i>
10	Analysis of Equatorial and Low-Latitude Ionospheric TEC Responses to Plasma Bubbles Over the Brazilian Region Using a Disturbance Ionosphere Index <i>Giorgio Picanço, Clezio M. Denardini, Paulo A. Bronzato Nogueira, Laysa C. Araujo Resende, Carolina Sousa do Carmo, Sony Su Chen, Paulo F. Barbosa-Neto and Esmeralda Romero-Hernandez</i>
11	Unusual low-latitude ionospheric irregularities in the dawn on the South American sector <i>Carolina Sousa do Carmo, Xiaoqing Pi, Clezio Marcos Denardini, Cosme A. Figueiredo, Olga Verkhoglyadova and Ludger Scherliess</i>
12	Impact of ionization density depletions on transionospheric satellite links as observed around the northern crest of Equatorial Ionization Anomaly <i>Tanmay Das and Ashik Paul</i>

## Theory and Modeling of Ionospheric Scintillation and Irregularities

13	Validating Drift Estimation Models
	<i>Marcin Grzesiak</i>
14	Turbulence Signatures in High-Latitude Ionospheric Scintillation
	<i>Abdelhaq M. Hamza, Karim Meziane and P. Thayyil Jayachandran</i>

## Data Assimilation Modeling

15	Assimilating GNSS Measurements Into Regional Parametric Ionosphere Model
	<i>Nina Servan-Schreiber and Dima Paznukhov</i>

## Modeling and Validation

16	Modeling of TIDs Generated by Lower Atmospheric Disturbances, Plasma Irregularity Formation, and Radio Effects
	<i>Matthew Zettergren, Jonathan Snively, Kshitija B. Deshpande, Pavel Inchin, Pralay Vaggu and Leslie Lamarche</i>

## Data Science Analysis Applied to Ionospheric Specification, Forecast and Effects on Radio Propagation

17	Ionospheric TEC Modeling over Brazilian Region Using Neural Networks
	<i>André Luiz Almeida Silva, Moises Freitas, Marcos Maximo, Bruno Vani, Jonas Sousasantos and Alison Moraes</i>

## Space and Ground-based TEC Techniques and Measurements

18	Ionosphere Response Over the Iberian Peninsula of the 27 February 2014 moderate geomagnetic storm using different data sources
	<i>Saioa A. Campuzano, Fernando Delgado-Gómez, Sandro M. Radicella, Yenca Migoya-Orue, Miguel Herraiz-Sarachaga and Gracia Rodríguez-Caderot</i>
19	The Impact of Temporal Resolution on the Behavior of Global Ionospheric Maps
	<i>Manuel Hernández-Pajares, Qi Liu, Zishen Li and Ningbo Wang</i>
20	Plasmasphere Effects for Middle and Low Latitude GPS Sites
	<i>Andrew Mazzella</i>
21	Simultaneous Response of the Ionosphere to Solar Events Along African Equatorial Sector
	<i>Bola Abdulrahim, Babatunde Rabiun and Daniel Okoh</i>
22	Automated System for High Rate GNSS Data Processing with Swarm Conjunctions
	<i>Gytis Blinstrubas</i>
23	Performance of a Locally Adapted NeQuick-2 Model During High Solar Activity Over the Brazilian Equatorial and Low-latitude Region Using GNSS Derived Data
	<i>Osanyin Taiwo, Claudia Candido, Fabio Becker and Yenca Migoya-Orue</i>
24	Performance of the IRI Model Over EIA Region Varanasi During Two Recent Solar Minimum Periods 2016-2018 and 2007-2009
	<i>Abhay Kumar Singh, Mukulika Mondal and Sanjay Kumar</i>
25	Ionospheric Response to an Intense Geomagnetic Storm (26 August 2018) over Low latitudes and Southern Hemisphere
	<i>Uma Pandey and Javed N. Malik</i>

## Polar (High-latitude) Effects on GNSS

26	IGS ROTI Maps: Current Status and Its Extension Towards Low Latitudes and Southern Hemisphere
	<i>Kacper Kotulak, Andrzej Krankowski, Iurii Cherniak and Irina Zakharenkova</i>
27	Statistical and Event Analysis of Phase and Amplitude Scintillations Associated with Polar Cap Patches
	<i>Alanah Cardenas-O'Toole, Jiaen Ren, Shasha Zou, P. Thayyil Jayachandran</i>
28	Degradation of NRTK at High Latitudes During a Space Weather Event
	<i>Arnlaug Høgås Skjæveland and Knut Stanley Jacobsen</i>

## Space Weather Effects

29	Ionospheric Response to a G4 and G1-Class Geomagnetic Storm from an Anomaly Crest Location Using GPS/GNSS Based Computerized Ionospheric Tomography
	<i>Samiddha Goswami, Sripada Haldar and Ashik Paul</i>
30	Effect of the Heliospheric State on CME Evolution
	<i>Fithanegest Dagneu, Nat Gopalswamy, Sachiko Akiyama, Solomon Tessema and Seiji Yashiro</i>
31	Ionospheric Response to CIR induced Geomagnetic Storms in Declining Phase of Solar Cycle 24
	<i>Sarbani Ray, Anamika Das and Ashik Paul</i>
32	Influence of Moderate Geomagnetic Storm on the Post-Sunset Ionosphere Over South America During Solar Minimum of Solar Cycle 25
	<i>Frank Chimgarandi, Fabio Becker, Claudia Candido, Osanyin Taiwo and Olusegun Jonah</i>
33	Hemispherical Asymmetry between Mid-Latitude Ionospheric Electron Density and Magnetospheric Quasi-Static Poynting Flux
	<i>Brenna Royersmith, Delores Knipp, Lei, Liu, Sebastijan Mrak, Greg Starr and Jade Morton</i>
34	Conquering Space Weather Using Superconductivity Principle
	<i>Duncan Koech</i>
35	Manifestation of Seasonal Coupling between Geomagnetic and Ionospheric Storms Supporting Space Weather Services
	<i>Tamara Gulyeva and Iwona Stanislawska</i>
36	On the Brazilian low latitude vertical total electron content during high-speed solar wind streams and corotating interaction regions-driven storms
	<i>Stella Pires de Moraes Santos, Claudia Candido, Fabio Becker, Bruno Nava, Virginia Klausner and Claudia Borries</i>

## Ionospheric Effects on GNSS Augmentation Systems

37	Satellite Augmentation Systems for Airnavigation and the Influence of the Ionosphere/SW
	<i>Jorge Garcia Villalobos</i>
38	Performance Analysis of GBAS MFMC Under Ionospheric Scintillation in Presidente Prudente – Brazil
	<i>Weverton Silva, Joao Francisco Galera Monico, Crislaine Menezes da Silva and Vinicius Stuani Pereira</i>

## Monitoring National Hazards: Signatures of Earth-Ocean Coupling to the Ionosphere

39	ULF and VLF Activity in the Ionosphere: Signal Processing and Modeling Wave Propagation <i>Kacper Kotulak, Yuriy Rapoport, Asen Grytsai, Volodymyr Reshetnyk, Masashi Hayakawa, Volodymyr Grimalsky, Alexander Liashchuk, Alla Fedorenko, Sergei Petrishchevskii, Andrzej Krankowski and Leszek Błazkiewicz</i>
40	Ionospheric and Atmospheric Observations of Hunga Tonga–Hunga Ha’apai Eruption-Generated Acoustic-Gravity Waves over the Continental United States <i>Pavel Inchin, Steven Cummer, Asti Bhatt and Jonathan Snively</i>

## Recent Advances in Radio Science Techniques, Measurements & Capabilities for Geospace Remote Sensing

41	Dense Radio Imaging Network Enabled by Next-Generation Beacon Sensors <i>Romina Nikoukar, Hyosub Kil, Matthew Zettergren, Meghan Burleigh and Kristina Lynch</i>
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