

Session 3 – PRESTO Pillar 2: Space Weather and Earth's Atmosphere  
 Conveners: Loren Chang, Duggirala Pallamraju, Nick Pedatella

**Day 1: February 21, 2022**

Day 1-Time Slot 3 (D1-TS3): February 21, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b><i>Session Chair(s): D. Pallamraju and Loren Chang</i></b>		
GMT	IST	Title of the Abstract
1100 – 1120	1630 – 1650	Abstract Id: STP15-ABS-057 Title: Understanding the prompt electric field disturbances over low-equatorial latitude ionosphere – A paradigm shift <i>Presenting Author: Dibyendu Chakrabarty (invited)</i>
1120 – 1135	1650 – 1705	Abstract Id: STP15-ABS-134 Title: Extremely large and rapid decrease of equatorial geomagnetic field due to sudden decrease in the solar wind density <i>Presenting Author: Nilam Bhosale</i>
1135 – 1150	1705 – 1720	Abstract Id: STP15-ABS-284 Title: Counter Electrojet Current in West and South of Southeast Asian Sector <i>Presenting Author: Nur Izzati Mohd Rosli</i>
1150 – 1200	1720 – 1730	Abstract Id: STP15-ABS-144 Title: Solar, geomagnetic and ionospheric activity during spotless Sun <i>Presenting Author: Tamara Gulyaeva</i>
1200 – 1210	1730 – 1740	Abstract Id: STP15-ABS-138 Title: Assessment of accuracy of IRI-2016 model at equatorial-, low-, mid-, and high latitudes' ionosphere along 30-45°E meridian during minimum (2009) and maximum (2013) phases of solar cycle 24 <i>Presenting Author: Jacob Amao</i>
1210 – 1220	1740 – 1750	Abstract Id: STP15-ABS-133 Title: Geomagnetically induced currents related to impulsive Space Weather events at low latitudes <i>Presenting Author: Nguessan Kouassi</i>
1220 – 1250	1750 – 1820	Breakout Session

Day1-Time Slot 5 (D1-TS5): February 21, 2022 – GMT 1440 – 1630 IST 2010 – 2200		
<b><i>Session Chair(s): S. Gurubaran and Janet Machol</i></b>		
GMT	IST	Title of the Abstract
1440 – 1455	2010 – 2025	Abstract Id: STP15-ABS-137 Title: Storm-time hourly morphologies of the Equatorial Ionization Anomaly (EIA) crests and their extended features along 110-125°E meridian <i>Presenting Author: John Ayangbemi</i>

1455 – 1510	2025 – 2040	Abstract Id: STP15-ABS-228 Title: Preliminary Exospheric Neutral Hydrogen Density Retrievals from GOES EUV Measurements <i>Presenting Author: Janet Machol</i>
1510 – 1520	2040 – 2050	Abstract Id: STP15-ABS-111 Title: Ionospheric irregularities during disturbed geomagnetic conditions over Argentinian EIA region <i>Presenting Author: Gilda Gonzalez</i>
1520 – 1530	2050– 2100	Abstract Id: STP15-ABS-114 Title: The effect of prompt penetration electric fields on plasma bubble occurrence <i>Presenting Author: Anastasia Newheart</i>
1530 – 1540	2100 – 2110	Abstract Id: STP15-ABS-124 Title: Statistical Analysis and Predictability of Large Scale Travelling Ionospheric Disturbances over Europe <i>Presenting Author: Claudia Borries</i>
1540 – 1550	2110 – 2120	Abstract Id: STP15-ABS-293 Title: Study of the Low Latitude Plasma Bubbles Irregularities Climatology using SWARM Satellite <i>Presenting Author: Abdalla Shaker Abdalla</i>
1550 – 1600	2120– 2130	Abstract Id: STP15-ABS-334 Title: Investigating the October effect in VLF signals <i>Presenting Author: Daniela Banyś</i>
1600 – 1630	2130 – 2200	Breakout Session

## **Day 2: February 22, 2022**

Day 2-Time Slot 1 (D2-TS1): February 22, 2022 – GMT 0300 – 0450 IST 0830 – 1020		
<b><i>Session Chairs: Nick Pedatella and P. K. Rajesh</i></b>		
GMT	IST	Title of the Abstract
0300 – 0315	0830 – 0845	Abstract Id: STP15-ABS-079 Title: Simultaneous observation of nighttime medium-scale traveling ionospheric disturbances using airglow imagers and the Arase satellite over 4 years <i>Presenting Author: Kouki Kawai</i>
0315 – 0330	0845 – 0900	Abstract Id: STP15-ABS-251 Title: Investigation of ionospheric response to minor geomagnetic storms in deep solar minimum conditions by using FORMOSAT-7/COSMIC-2 and GNSS observations <i>Presenting Author: Rajesh P.K.</i>
0330 – 0340	0900 – 0910	Abstract Id: STP15-ABS-100 Title: A study of plasmaspheric electron content variations during a magnetic storm on March 2013 by using the GPS total electron content data <i>Presenting Author: Zhiyu Chen</i>

0340 – 0350	0910– 0920	Abstract Id: STP15-ABS-053 Title: Multi-event study of simultaneous observation of isolated proton auroras and Pc1 pulsations at subauroral latitudes using all-sky cameras and Van Allen Probes <i>Presenting Author: Kohki Nakamura</i>
0350 – 0400	0920 – 0930	Abstract Id: STP15-ABS-058 Title: Study of longitudinal development of cosmic noise absorption and its correlation with ELF/VLF waves based on multipoint observations at subauroral latitudes during storm-time substorms on August 26-28, 2018 <i>Presenting Author: Yuto Kato</i>
0400– 0410	0930– 0940	Abstract Id: STP15-ABS-333 Title: Ionosphere Behavior during the Geomagnetic Storms over the different latitude Regions <i>Presenting Author: Bhupendra Malvi</i>
0410 – 0420	0940– 0950	Abstract Id: STP15-ABS-322 Title: Effects of geomagnetic storms on the mid-latitude D-region Ionosphere <i>Presenting Author: Elista Bayramova</i>
0420- 0450	0950 – 1020	Breakout Session

Day 2-Time Slot 2 (D2-TS2): February 22, 2022 – GMT 0450 – 0640 IST 1020 – 1210		
<b>Session Chair(s): S. Tulasiram and Jude Salinas</b>		
GMT	IST	Title of the Abstract
0450 – 0505	1020 – 1035	Abstract Id: STP15-ABS-034 Title: Variability of the semidiurnal tide in the polar lower thermosphere using EISCAT radar data over 33 years <i>Presenting Author: Hirotaka Koyama</i>
0505 – 0520	1035– 1050	Abstract Id: STP15-ABS-072 Title: Seasonality of the Migrating Semidiurnal Tide in the Tropical E-region Ionosphere <i>Presenting Author: Cornelius Csar Jude Salinas</i>
0520 – 0530	1050 – 1100	Abstract Id: STP15-ABS-049 Title: Occurrence probabilities of atmospheric instabilities in the polar upper mesosphere above Tromsø, Norway <i>Presenting Author: Satonori Nozawa</i>
0530 – 0540	1100– 1110	Abstract Id: STP15-ABS-078 Title: Formation of a mesospheric inversion layer and the subsequent elevated stratopause associated with the major stratospheric sudden warming in 2018/19 <i>Presenting Author: Haruka Okui</i>
0540 – 0550	1110 – 1120	Abstract Id: STP15-ABS-186 Title: Gravity wave activity during the 2019 Antarctic stratospheric sudden warming <i>Presenting Author: Masaru Kogure</i>

0550– 0600	1120– 1130	Abstract Id: STP15-ABS-061 Title: On the variabilities of the terdiurnal tide of the mesopause winds in the low latitude during recent major sudden stratospheric warming events of January 2019 and January 2021 <i>Presenting Author: S. Sathish Kumar</i>
0600 – 0610	1130– 1140	Abstract Id: STP15-ABS-063 Title: Variability of low latitude planetary wave dynamics during September 2019 minor sudden stratospheric warming <i>Presenting Author: Gourav Mitra</i>
0610- 0640	1140 – 1210	Breakout Session

Day 2-Time Slot 3 (D2-TS3): February 22, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b><i>Session Chairs: Laxmi Narayanan Viswanathan and Cornelius Csar Jude Salinas.</i></b>		
GMT	IST	Title of the Abstract
1100 – 1110	1630 – 1640	Abstract Id: STP15-ABS-084 Title: All-sky Airglow Imaging Observations of Terrestrial Upper Atmosphere from Hanle, Leh Ladakh, India <i>Presenting Author: Sumanta Sarkhel</i>
1110 – 1125	1640– 1655	Abstract Id: STP15-ABS-173 Title: Investigation of sources of Gravity Waves observed over Indian low-latitude region. <i>Presenting Author: Nilesh Chauhan</i>
1125 – 1135	1655 – 1705	Abstract Id: STP15-ABS-304 Title: Investigation of sharp reductions in the bottomside sodium densities associated with the passage of dark mesospheric fronts observed in OH airglow <i>Presenting Author: Lakshmi Narayanan Viswanathan</i>
1135 – 1145	1705– 1715	Abstract Id: STP15-ABS-332 Title: Polar mesospheric response to the sudden stratospheric warming 2019 over Rothera <i>Presenting Author: Lynn Daniel</i>
1145 – 1155	1715 – 1725	Abstract Id: STP15-ABS-318 Title: Climatology of normal mode Planetary Waves in the MLT region using ground and space based observations <i>Presenting Author: Koushik Neelakantan</i>
1155 – 1205	1725 – 1735	Abstract Id: STP15-ABS-297 Title: Influence of Geomagnetic storm on the mesosphere and lower thermosphere structure at low latitude <i>Presenting Author: Siddarth Das</i>
1205 – 1215	1735 – 1745	Abstract Id: STP15-ABS-217 Title: A study on mesospheric temperature at 90 km altitude using meteor radars at conjugate high latitudes <i>Presenting Author: Chenna Reddy Kammadhanam</i>
1220- 1250	1750 – 1820	Breakout Session

Day 2-Time Slot 4 (D2-TS4): February 22, 2022 – GMT 1250 – 1440 IST 1820 – 2010		
<b>Session Chair(s): Loren Chang and Satyavir Singh</b>		
GMT	IST	Title of the Abstract
1350 – 1410	1920 – 1940	Abstract Id: STP15-ABS-180 ( <i>Pre-recorded?</i> ) Title: DW1 Tidal Enhancements in the Equatorial MLT During 2015 El Niño: The Relative Role of Tidal Heating and Propagation <i>Presenting Author: Huixin Liu (Invited)</i>
1410 – 1440	1940 – 2010	Breakout Session

Day 2-Time Slot 5 (D2-TS5): February 22, 2022 – GMT 1440 – 1630 IST 2010 – 2200		
<b>Session Chair(s): M. Venkat Ratnam and Marianna Shepherd.</b>		
GMT	IST	Title of the Abstract
1440 – 1455	2010 – 2025	Abstract Id: STP15-ABS-115 Title: Investigation on the thermosphere-ionosphere dynamics by using a Whole Atmosphere Data Assimilation System <i>Presenting Author: Fazlul Laskar</i>
1455 – 1510	2025 – 2040	Abstract Id: STP15-ABS-104 Title: High-energy electron precipitation into the atmosphere: an assessment based on balloon and satellite observations and model calculation <i>Presenting Author: Miriam Sinnhuber</i>
1510 – 1520	2040 – 2050	Abstract Id: STP15-ABS-242 ( <i>Withdrawn</i> ) Title: Long term change in temperature, geopotential height, and thickness in the upper mesosphere and lower thermosphere <i>Presenting Author: Martin Mlynyczak</i>
1520 – 1530	2050– 2100	Abstract Id: STP15-ABS-110 Title: Numerical Investigation of the mechanisms driving the day-to-day diurnal tidal variability in the mesosphere and lower thermosphere <i>Presenting Author: Jack Wang</i>
1530 – 1540	2100 – 2110	Abstract Id: STP15-ABS-018 Title: Study on Atmospheric gravity wave propagations from the Troposphere to Mesosphere using GNSS Satellite Radio Occultation measurements <i>Presenting Author: Toyese Ayorinde</i>
1540 – 1550	2110 – 2120	Abstract Id: STP15-ABS-324 Title: Comparison of rotational temperatures derived from multi-filter photometer operated at Tirunelveli and overhead SABER measurements <i>Presenting Author: Sukanta Sau</i>
1550 – 1600	2120– 2130	Abstract Id: STP15-ABS-164 Title: SuperDARN, WINDII and WACCM-X neutral and ion winds observed at high latitudes during geomagnetic disturbances <i>Presenting Author: Marianna Shepherd</i>
1600 – 1630	2130 – 2200	Breakout Session

**Day 3: February 23, 2022**

Day 3-Time Slot 1 (D3-TS1): February 23, 2022 – GMT 0300 – 0450 IST 0830 – 1020		
<b>Session Chair(s): Fazlul Laskar and A. K. Singh.</b>		
GMT	IST	Title of the Abstract
0300 – 0315	0830 – 0845	Abstract Id: STP15-ABS-052 Title: Spectral analysis of the phase velocity distribution of AGWs and MSTIDs in airglow images at Darwin <i>Presenting Author: Takuma Tsuboi</i>
0315 – 0330	0845 – 0900	Abstract Id: STP15-ABS-286 Title: The seek of the irregularity-free region by modern satellite missions <i>Presenting Author: Shih-Ping Chen</i>
0330 – 0340	0900 – 0910	Abstract Id: STP15-ABS-272 Title: Quasi-2-Day Wave Coupling of Atmosphere-Ionosphere System at low to mid-latitudes <i>Presenting Author: Ashish Jadhav</i>
0340 – 0350	0910– 0920	Abstract Id: STP15-ABS-089 Title: Solar wind dynamic pressure dependence of the latitudinal extension of plasma bubbles during geomagnetic storms <i>Presenting Author: Takuya Sori</i>
0350 – 0400	0920 – 0930	Abstract Id: STP15-ABS-080 Title: Multi-event analysis of polar-type medium-scale travelling ionospheric disturbances observed by a 630-nm airglow imager at Nyrola, Finland <i>Presenting Author: Masaki Sato</i>
0400– 0410	0930– 0940	Abstract Id: STP15-ABS-028 Title: A case study on the interaction between two MSTIDs and their dissipation over geomagnetic low-mid latitude transition region <i>Presenting Author: Rahul Rathi</i>
0410 – 0420	0940– 0950	Abstract Id: STP15-ABS-017 Title: Forcing from below: the lower ionosphere perturbation associated with strong hurricane events observed using VLF waves <i>Presenting Author: Ajeet Maurya</i>
0420- 0450	0950 – 1020	Breakout Session

Day 3-Time Slot 2 (D3-TS2): February 23, 2022 – GMT 0450 – 0640 IST 1020 – 1210		
<b>Session Chair(s): Yuichi Otsuka and T. K. Pant.</b>		
GMT	IST	Title of the Abstract

0450 – 0505	1020 – 1035	Abstract Id: STP15-ABS-249 Title: Effect of equatorial electrodynamic processes and meridional winds on the OI 630.0 nm dayglow emission variability over low latitudes. <i>Presenting Author: Sunil Kumar</i>
0505 – 0520	1035– 1050	Abstract Id: STP15-ABS-112 Title: Equinoctial asymmetry of plasma bubble occurrence and drift velocities at equatorial region: GPS and ionosonde measurements in Southeast Asia <i>Presenting Author: Yuichi Otsuka</i>
0520 – 0530	1050 – 1100	Abstract Id: STP15-ABS-033 Title: On the relation between FORMOSAT-7/COSMIC-2 radio occultation scintillation S4 index and co-located electron density profiles in 2020 <i>Presenting Author: Yi Duann</i>
0530 – 0540	1100– 1110	Abstract Id: STP15-ABS-050 Title: Statistical behavior of global electron density variations in the ionosphere during geomagnetic storms using 20-year GNSS-TEC data <i>Presenting Author: Atsuki Shinbori</i>
0540 – 0550	1110 – 1120	Abstract Id: STP15-ABS-275 Title: Implication of Tidal Forcing Effects on the Zonal Variation of Solstice Equatorial Plasma Bubbles <i>Presenting Author: Loren Chang</i>
0550– 0600	1120– 1130	Abstract Id: STP15-ABS-262 Title: The Relation Between Large-scale Wave Structure And Equatorial Plasma Bubble <i>Presenting Author: Yu Yi Liow</i>
0600 – 0610	1130– 1140	Abstract Id: STP15-ABS-329 Title: Zonal tidal structure in ionosphere <i>Presenting Author: Tarun Pant</i>
0610- 0640	1140 – 1210	Breakout Session

Day 3-Time Slot 3 (D3-TS3): February 23, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b>Session Chair(s): Ashik Paul and Claudia Stolle.</b>		
GMT	IST	Title of the Abstract
1100 – 1115	1630 – 1645	Abstract Id: STP15-ABS-198 Title: Nonlinear Evolution of Equatorial Plasma Bubbles <i>Presenting Author: Jyoti Atul</i>
1115 – 1130	1645– 1700	Abstract Id: STP15-ABS-037 Title: On the Assessment of Day-To-Day Occurrence of Equatorial Plasma Bubble <i>Presenting Author: Suman Das</i>
1130 – 1140	1700 – 1710	Abstract Id: STP15-ABS-158 Title: The plasma density enhancements in association with equatorial plasma bubbles over Kolhapur, India <i>Presenting Author: Dada Nade</i>

1140 – 1150	1710– 1720	Abstract Id: STP15-ABS-174 Title: Characteristics of plasma irregularities at equator and anomaly crest region under varied space weather conditions and their causative mechanisms <i>Presenting Author: Sripathi Samireddipalle</i>
1150 – 1200	1720 – 1730	Abstract Id: STP15-ABS-178 Title: Equatorial Plasm Bubble and Ionospheric Scintillations Signatures from Latitudinally-Aligned GNSS and Magnetometer Recordings across the Indian Longitudes during the Space Weather events in early September 2017 <i>Presenting Author: Sampad Kumar Panda</i>
1200– 1210	1730– 1740	Abstract Id: STP15-ABS-209 Title: Dynamics and Structure of Plasma bubble observed in the OI 630 nm nightglow emissions over low and off-equatorial latitudes <i>Presenting Author: Sovan Saha</i>
1210 – 1220	1740– 1750	Abstract Id: STP15-ABS-221 Title: Latitude dependence of multiple stratifications of F layer as investigated using a chain of ionosondes over Indian sector and their source mechanisms <i>Presenting Author: Rajesh Barad</i>
1220- 1250	1750 – 1820	Breakout Session

Day 3-Time Slot 4 (D3-TS4): February 23, 2022 – GMT 1250 – 1440 IST 1820 – 2010		
<b><i>Session Chair(s): D. Pallamraju and Nick Pedatella</i></b>		
GMT	IST	Title of the Abstract
1350 – 1410	1920 - 1940	Abstract Id: STP15-ABS-172 Title: Observations of the high latitude ionosphere by Swarm and other LEO-satellite missions <i>Presenting Author: Claudia Stolle (Invited)</i>
1410 – 1440	1940 – 2010	Breakout Session

Day 3-Time Slot 5 (D3-TS5): February 23, 2022 – GMT 1440 – 1630 IST 2010 – 2200		
<b><i>Session Chair(s): Nick Pedatella and Kalyan Bhuyan.</i></b>		
GMT	IST	Title of the Abstract
1440 – 1455	2010 – 2025	Abstract Id: STP15-ABS-059 Title: A case study on anomalous electric field variations in the F region equatorial ionosphere during post-sunset hours: insights <i>Presenting Author: Ankit Kumar</i>
1455 – 1510	2025 – 2040	Abstract Id: STP15-ABS-153 Title: Investigation of Daytime Thermospheric Wave Dynamics using Radio technique <i>Presenting Author: Subir Mandal</i>
1510 – 1520	2040 – 2050	Abstract Id: STP15-ABS-317 Title: Studies on ionization depletions of Equatorial plasma structures on transionospheric satellite signals using GPS <i>Presenting Author: Tanmay Das</i>



1520 – 1530	2050– 2100	Abstract Id: STP15-ABS-303 Title: Investigation on the variability of ionospheric currents within and just outside the EEJ region during the solar eclipse <i>Presenting Author: Sachin Prabhakar</i>
1530 – 1540	2100 – 2110	Abstract Id: STP15-ABS-292 Title: Low latitude Ionospheric response to super cyclonic storm “AMPHAN” observed over North Indian Ocean <i>Presenting Author: Gajalakshmi M</i>
1540 – 1550	2110 – 2120	Abstract Id: Title: <i>Presenting Author:</i>
1550 – 1600	2120– 2130	Abstract Id: Title: <i>Presenting Author:</i>
1600 - 1630	2130 – 2200	Breakout Session

### **Day 4: February 24, 2022**

Day 4-Time Slot 1 (D4-TS1): February 24, 2022 – GMT 0300 – 0450 IST 0830 – 1020		
<b><i>Session Chair(s): D. Chakrabarty and Nick Pedatella</i></b>		
GMT	IST	Title of the Abstract
0300 – 0315	0830 – 0845	Abstract Id: STP15-ABS-300 Title: Obscured growth of an equatorial spread-F associated airglow depletion under the influence of ionization anomaly <i>Presenting Author: Saranya P</i>
0315 – 0330	0845 – 0900	Abstract Id: STP15-ABS-070 Title: Investigation of interactions between MSTIDs and mid-latitude field aligned plasma depletions over geomagnetic low-mid latitude transition region <i>Presenting Author: Virendra Yadav</i>
0330 – 0340	0900 – 0910	Abstract Id: STP15-ABS-196 Title: Variation of ionospheric parameters during geomagnetic storms over the low latitude Indian region as measured using ROCSAT-1 satellite <i>Presenting Author: Dinesh Sharma</i>
0340 – 0350	0910– 0920	Abstract Id: STP15-ABS-189 Title: Study of Gravity Waves in Atmosphere-Ionosphere coupling <i>Presenting Author: Rajesh Singh</i>
0350 – 0400	0920 – 0930	Abstract Id: STP15-ABS-120 Title: Short periodic gravity waves and tidal influences using OH(3-1) brightness and its rotational temperatures measured by PRL Airglow InfraRed Spectrograph (PAIRS) <i>Presenting Author: Ravindra Singh</i>

0400– 0410	0930– 0940	Abstract Id: STP15-ABS-283 Title: Evaluation of the role of gravity wave seed perturbations in modulating Equatorial Spread F day to day variability during geomagnetically disturbed periods <i>Presenting Author: Sruthi T V</i>
0410 – 0420	0940– 0950	Abstract Id: STP15-ABS-299 Title: Evidence of Interaction of Equatorial Plasma Bubbles with Medium Scale Travelling Ionospheric Disturbances during post mid-night sector over Indian region <i>Presenting Author: Onkar Gurav</i>
0420- 0450	0950 – 1020	Breakout Session

Day 4-Time Slot 2 (D4-TS2): February 24, 2022 – GMT 0450 – 0640 IST 1020 – 1210		
<b><i>Session Chair(s): Sumanta Sarkhel and Loren Chang.</i></b>		
GMT	IST	Title of the Abstract
0450 – 0505	1020 – 1035	Abstract Id: STP15-ABS-210 Title: Latitudinal movement of the EIA crest as seen in OI 630 nm nightglow emissions over low-latitudinal region of Indian longitude <i>Presenting Author: Sovan Saha</i>
0505 – 0520	1035– 1050	Abstract Id: STP15-ABS-119 Title: Energetic Particle Chain -Effects on the middle/lower atmosphere from energetic particle precipitations <i>Presenting Author: Tac Nakajima</i>
0520 – 0530	1050 – 1100	Abstract Id: STP15-ABS-075 Title: A study on quiet time - storm time responses of Japanese midlatitude sector using wavelet analysis <i>Presenting Author: Soumya M S</i>
0530 – 0540	1100– 1110	Abstract Id: STP15-ABS-011 Title: Low ionosphere response to the solar flares occurred during the peak of solar cycle 24 <i>Presenting Author: Suniti Saharan</i>
0540 – 0555	1110 – 1125	Abstract Id: STP15-ABS-026 Title: Ground-based all-sky airglow imaging observation of a thermally ducted undular mesospheric bore over the Himalayan region <i>Presenting Author: Subarna Mondal</i>
0555– 0605	1125– 1135	Abstract Id: STP15-ABS-288 Title: Delayed Response of Thermosphere O1D 630.0 nm Dayglow over the Dip Equator during an X-class Flare <i>Presenting Author: C Vineeth</i>
0605 – 0615	1135– 1145	Abstract Id: STP15-ABS-349 Title: The O(1 D) 630.0 nm dayglow emission variability over Mid-latitudes <i>Presenting Author: Kshitiz Upadhyay</i>
0615- 0640	1145 – 1210	Breakout Session

Day 4-Time Slot 3 (D4-TS3): February 24, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b>Session Chair(s): Satyavir Singh and D. Pallamraju</b>		
GMT	IST	Title of the Abstract
1100 – 1115	1630 – 1645	Abstract Id: STP15-ABS-290 Title: Do background winds in the middle atmosphere modulate low latitude MLT signatures of SSW events? <i>Presenting Author: Koushik Neelakantan</i>
1115 – 1130	1645– 1700	Abstract Id: STP15-ABS-223 Title: Sudden Stratospheric Warming (SSW) episodes and their impacts on upper atmosphere during last two decades <i>Presenting Author: Jinee Gogoi</i>
1130 – 1140	1700 – 1710	Abstract Id: STP15-ABS-271 Title: Three components of Wind and Lower Atmospheric Turbulence measurements Using VHF Doppler Radar of University of Calcutta to characterize lower atmospheric dynamics <i>Presenting Author: Debyendu Jana</i>
1140 – 1150	1710– 1720	Abstract Id: STP15-ABS-188 Title: Signature of a mesospheric bore in 557.7 nm airglow emission at a Himalayan location <i>Presenting Author: Amitava Guharay</i>
1150 – 1200	1720 – 1730	Abstract Id: STP15-ABS-073 Title: Signatures of 23-day slow Kelvin waves in equatorial MLT during QBO disruption <i>Presenting Author: Bhagavathiammal G J</i>
1200– 1210	1730– 1740	Abstract Id: STP15-ABS-109 Title: Characteristics of the Intraseasonal Oscillation in the equatorial MLT region revealed by satellite observations and global analysis data made by a data assimilation system <i>Presenting Author: Dai Koshin</i>
1210 – 1220	1740– 1750	Abstract Id: STP15-ABS-157 Title: A deeper insight into the dynamics of the Hiccup of the fall transition <i>Presenting Author: Vivien Matthias</i>
1220- 1250	1750 – 1820	Breakout Session

Day 4-Time Slot 4 (D4-TS4): February 24, 2022 – GMT 1250 – 1440 IST 1820 – 2010		
<b>Session Chair(s): Loren Chang</b>		
GMT	IST	Title of the Abstract
1350 – 1410	1920 - 1940	Abstract Id: STP15-ABS-155 Title: The role of the polar vortex in Sun-Earth coupling <i>Presenting Author: V. Lynn Harvey (Invited)</i>
1410 – 1440	1940 – 2010	Breakout Session

Day 4-Time Slot 5 (D4-TS5): February 24, 2022 – GMT 1440 – 1630 IST 2010 – 2200		
<b>Session Chair(s): Ashik Paul and V. Lynn Harvey</b>		
GMT	IST	Title of the Abstract
1440 – 1455	2010 – 2025	Abstract Id: STP15-ABS-206 Title: Distinct Ionospheric response to different geomagnetic storms during 2016 using GPS-TEC observations over the Indian equatorial and low latitude sectors <i>Presenting Author: Duvvu Lissa</i>
1455 – 1510	2025 – 2040	Abstract Id: STP15-ABS-232 Title: Low latitude geomagnetic H-component variations during impulse induced storm time substorms <i>Presenting Author: Shipra Sinha</i>
1510 – 1520	2040 – 2050	Abstract Id: STP15-ABS-280 Title: An investigation of the Equatorial Electrojet at 8.3 m scale size and its day-to-day variability in context of changing space weather <i>Presenting Author: Lalitha G Krishnan</i>
1520 – 1530	2050– 2100	Abstract Id: STP15-ABS-225 Title: Role of relative dynamics of satellite and irregularity structure on GPS signal perturbations <i>Presenting Author: Trisani Biswas</i>
1530 – 1540	2100 – 2110	Abstract Id: STP15-ABS-136 Title: Storm-time responses of the Equatorial Ionization Anomaly (EIA) crests and their extended features along 65-80°W meridian lines <i>Presenting Author: Samuel Akintunde</i>
1540 – 1550	2110 – 2120	Abstract Id: STP15-ABS-002 Title: Estimation of ionosphere vTEC using multivariate quadratic modeling over Bahir Dar, Ethiopia in the year 2010-2014 <i>Presenting Author: Tsegaye Gogie</i>
1550 – 1600	2120– 2130	Abstract Id: STP15-ABS-247 Title: Study of Geomagnetic Induced Currents in the Mexican Power Grid <i>Presenting Author: Ramón Caraballo</i>
1600 – 1630	2130 – 2200	Breakout Session

### **Day 5: February 25, 2022**

Day 5-Time Slot 3 (D5-TS3): February 25, 2022 – GMT 1100 – 1250 IST 1630 – 1820		
<b>Session Chair(s): D. Pallamraju and Irina Mironova.</b>		
GMT	IST	Title of the Abstract
1100 – 1115	1630 – 1645	Abstract Id: STP15-ABS-301 Title: Atmospheric response to extreme energetic particle precipitation events <i>Presenting Author: Irina Mironova</i>

1115 – 1130	1645– 1700	Abstract Id: STP15-ABS-139 Title: Effects of geomagnetic storm on equatorial geomagnetic field intensity and ionospheric total electron content at two stations in East Africa <i>Presenting Author: George Omondi</i>
1130 – 1140	1700 – 1710	Abstract Id: STP15-ABS-338 Title: Modulation of cosmic ray and the effect on the earth's ionosphere during the disturbed solar atmosphere of August 2018 - A case study. <i>Presenting Author: Arup Patari</i>
1140 – 1150	1710– 1720	Abstract Id: STP15-ABS-263 Title: The response of D and E regions of the equatorial ionosphere to solar flare events <i>Presenting Author: Ambili Kailasam Madathil</i>
1150 – 1200	1720 – 1730	Abstract Id: STP15-ABS-168 Title: Studies on the modulations of EIA over the Indian region during varying space weather conditions by using GAGAN derived ionospheric delay maps <i>Presenting Author: Mala Bagiya</i>
1200– 1210	1730– 1740	Abstract ID: STP15-ABS-143 Title: Study of variation in the Quiet Day Curve (QDC) pattern by Cosmic Noise technique <i>Presenting Author: Suraj Nikte</i>
1210 – 1220	1740– 1750	Abstract ID: STP15-ABS-150 Title: Longitudinal Dependence of Inner Boundary of Ring Current and Radiation Belt Particles <i>Presenting Author: Pankaj Soni</i>
1220- 1250	1750 – 1820	Breakout Session