

National Space Science Symposium-2026, Umiam, Meghalaya

PS-2 (Middle Atmosphere, Atmospheric Coupling, Dynamics, Aeronomy, and Sun-Earth Connection)

Details and type of presentation for the accepted abstracts

SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
1	NSSS2026ABS011	NSSS2026REG0146	Precision of Total Electron Content Estimated Using GPS Observables	Jayachandran P T, Matheus Maica, and Anthony McCaffrey	Oral
2	NSSS2026ABS033	NSSS2026REG0133	Atmospheric Electric Field as a Potential Indicator of Air Quality Index during Severe Winter Pollution	Rakhijul Alam Faruque, S.Pal, G.Amin, S.K. Mondal	Poster
3	NSSS2026ABS041	NSSS2026REG0475	Wavenumber-4 Longitudinal Structure in ICON-MIGHTI Thermospheric Meridional Wind	Meenakshi S and S Sridharan	Oral
4	NSSS2026ABS042	NSSS2026REG0302	Low-Cost Radiometric Monitoring of Ionospheric and Auroral Variability in the Arctic	Harsha Avinash Tanti, Bhuvnesh Brawar, Abhirup Datta, Anismita Biswas, Saurabh Das	Poster
5	NSSS2026ABS044	NSSS2026REG0366	Ionospheric Perturbations at Mid and High Latitudes During the May 2024 Geomagnetic Superstorm from VLF and Satellite Observations	Jitiprova Ghosh, Gahul Amin, and Sujay Pal	Oral
6	NSSS2026ABS045	NSSS2026REG0513	Proton Flux Forecasting in Astrophysics A Deep Learning Approach Using Long Short-Term Memory Networks	Mabel Dannee S, Jefnishya Jr	Poster
7	NSSS2026ABS047	NSSS2026REG0249	Dynamics of the Geophysical Plasma Events and Their Interplanetary Consequences	Subhas h Chandra Kaushik	Poster
8	NSSS2026ABS048	NSSS2026REG0562	Solar Transient Plasma Flows and Space Weather during Recent Solar Cycles	Sonia Kaushik	Poster

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9	NSSS2026ABS071	NSSS2026REG0703	10-11 May 2024 geomagnetic superstorm impact on the d-region ionosphere over the Indian low-latitude region	Debarchan Kar, Rajesh Singh, and A. P. Dimiri	Poster
10	NSSS2026ABS072	NSSS2026REG0239	Tropical cyclones induced atmospheric gravity waves- results from the Indian subcontinent	Omkar M. Patil, Rajesh Singh, A. P. Dimri	Oral
11	NSSS2026ABS081	NSSS2026REG0785	NARL-Gadanki Airglow Imager Observation of Latitude vs. Time Dependence of Getting Pinched Off of Field-aligned Equatorial-Ionospheric Plasma-Irregularities	T. K. Ramkumar , M. G. Keerthana , G. K. Prashant , Suparba Goswami , Keerthana Ramesh and Shravani Ahire	Oral
12	NSSS2026ABS111	NSSS2026REG0810	Validation of JAGUAR-DAS Whole Neutral Atmosphere Reanalysis JAWARA Zonal Winds with Independent Rocket Soundings from a tropical site	N. Koushik and K. Kishore Kumar	Oral
13	NSSS2026ABS112	NSSS2026REG0667	On the Realistic Reconstruction of the Topside Ionosphere over Equatorial Regions: A Study using ISR, Ionosonde, and Satellite Observations	K Siba Kiran Guru, S Sripathi, Ram Singh, Rajesh Kumar Barad, Danny Scipion, A P Dimri	Oral
14	NSSS2026ABS116	NSSS2026REG0460	Ionospheric and Atmospheric Disturbances as Precursors to the 2025 Myanmar Earthquake	Gahul Amin , Jitiprova Ghosh, Rakhijul Alam Faruque and Sujay Pal	Poster
15	NSSS2026ABS123	NSSS2026REG0835	An experiment-specific payload orientation platform for balloon-borne experiments	Ashish A. Rodi, D. B. Trivedi, T. V. Rao, D. K. Ojha	Oral

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16	NSSS2026ABS127	NSSS2026REG0947	Long Term Variability of Ionospheric Electron Density and Temperature: Insights from Swarm Satellites and IRI 2020 During Solar Cycle 24 to 25	Aaditya Sarda	Oral
17	NSSS2026ABS128	NSSS2026REG0875	Solar cycle dependence of quasi two wave in the low latitude mesosphere and lower thermosphere region	S. Sathishkumar, Swagata Saha and Rupesh Ghodpage	Poster
18	NSSS2026ABS136	NSSS2026REG0986	Effects of storm-time electric fields at low latitudes near the dawn terminator	Sneha Vengurlekar and Geeta Vichare	Poster
19	NSSS2026ABS140	NSSS2026REG1008	Dynamics of Ionospheric Plasma Bubbles with stand alone NavIC receiver	Bhuvnesh Brawar, Abhirup Datta, Sudipta Sasmal	Oral
20	NSSS2026ABS143	NSSS2026REG0304	Simultaneous Modeling of Multi-Path Sub-Ionospheric VLF Signal Responses to the Total Solar Eclipse 2024	Taraknath Bera, Sayak Chakraborty, Tamal Basak	Oral
21	NSSS2026ABS144	NSSS2026REG0168	An Integrated Framework for Modeling Daytime and Seasonal Variability in VLF Signal Propagation	Sayak Chakraborty, Tamal Basak, Taraknath Bera, Sourav Palit, Sandip K. Chakrabarti	Poster
22	NSSS2026ABS145	NSSS2026REG0884	Modulation in Galactic Cosmic Rays during a Period of Anomalously low Solar Activity	B.K.Tiwari	Poster
23	NSSS2026ABS146	NSSS2026REG1026	NARL All Sky CCD Imager Observations of Sodium Gravity Wave Activity, OH Filamentary Structures and Depletion Dominated Signatures	Suparba Goswami, T. K. Ramkumar and M. G. Keerthana	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
24	NSSS2026ABS149	NSSS2026REG1029	Study of the characteristics of Mesospheric Bores at the Indian Equatorial Station, Tirunelveli	Jennifer A , Sukanta Sau	Poster
25	NSSS2026ABS152	NSSS2026REG0258	Evidence of association of lower atmospheric gravity waves with the equatorial plasma bubbles	R. N. Ghodpage, A. P. Mane, O. B. Gurav, M. K. Patil, V. Kale, A. Taori, S. Sripathi	Poster
26	NSSS2026ABS155	NSSS2026REG0466	Low-Latitude mesospheric dynamics during 2009-10 and 2018-19 major stratospheric warmings	G.J. Bhagavathiammal and Lynn Salome Daniel	Oral
27	NSSS2026ABS165	NSSS2026REG1075	Signature of intraseasonal oscillations during Hunga Tonga volcanic eruption.	A. Chaurasia, A. Guharay	Poster
28	NSSS2026ABS167	NSSS2026REG1047	Towards High-Resolution 3D Lightning Flash Mapping: Development of Short-Baseline Array and Field Experiments	Jayant Chouragade, Jeerla Thippeswamy and T. V. Chandrasekhar Sarma	Poster
29	NSSS2026ABS187	NSSS2026REG1144	Overestimation of the bottom-side ionospheric TEC in the IRI model over low latitude regions	K. Venkatesh, H. Kava and D. Pallamraju	Oral
30	NSSS2026ABS194	NSSS2026REG1155	A Multi-Parameter Analysis of Heliophysical and Geomagnetic Activity during SC-25 from 2019 to 2025	Omkar Prasad Tripathi, Swapnil Garg, Rashmi Sharma, and Saket Kumar	Poster
31	NSSS2026ABS196	NSSS2026REG0930	Effect of the Bottom side thickness parameter on the estimation of Bottom side TEC in the IRI model over the low latitudes	H. Kava, K. Venkatesh and D. Pallamraju	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
32	NSSS2026ABS198	NSSS2026REG0149	Quiet time enhancements and decrements in the day-to-day TEC variations over the Indian equatorial and low latitudes	Sandip Bhattacharyya, K. Venkatesh, D. Pallamraju, D. Chakrabarty	Oral
33	NSSS2026ABS211	NSSS2026REG1187	Study of solar activities associated with Cosmic Ray intensity Variation	B.K.Tiwari	Poster
34	NSSS2026ABS214	NSSS2026REG1128	Investigating Solar-Interplanetary Drivers of Three Extreme Geomagnetic Storms of Solar Cycles 23, 24, and 25	Swapnil Garg, Palak Singh Thakur, Rashmi Sharma, Saket Kumar, O. P. Tripathi	Oral
35	NSSS2026ABS215	NSSS2026REG1199	EMIC wave-driven energetic particle precipitation during the recovery phase of a geomagnetic storm.	S. Deepak, B. Remya, D. Wang, S.V. Singh, A.P. Dimiri	Oral
36	NSSS2026ABS228	NSSS2026REG0889	Global Characterization of AO, SAO, and ISOs Amplitudes as observed using PAIRS and SABER temperatures	Kiran and R. P. Singh	Oral
37	NSSS2026ABS230	NSSS2026REG1227	Banded Electron Cyclotron Waves at Earth's Magnetopause	Shubhangi Lagad, Amar Kakad, Bharati Kakad, Peter H Yoon	Poster
38	NSSS2026ABS244	NSSS2026REG1064	Impact of the May 2024 Super Geomagnetic Storm on the DC and AC Global Electric Circuit Across Mid- and Low-Latitude Regions	S. Pal, R. A. Faruque, G. Amin, S. K. Mondal, Y. Hobara	Oral
39	NSSS2026ABS251	NSSS2026REG1252	Low Latitude Ionospheric Response to Severe Cyclonic Storm PHETHAI from Coordinated Ionosonde and GPS-TEC Observations	K. Muthu Vishali and G J Bhagavathiammal	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
40	NSSS2026ABS264	NSSS2026REG1282	Modelling the Magnetic Local Time asymmetry in the ring current	Deeksha Rai, S. Tulasi Ram, Nilam Bhosale	Oral
41	NSSS2026ABS266	NSSS2026REG1272	Role of Coupled Electrodynamics of E- and F-Regions on the Rapid Poleward Extension of EMSTID Fronts	Dipjyoti Patgiri, Satyam Nirwal, Rahul Rathi, Virendra Yadav, M.V. Sunil Krishna, Sumanta Sarkhel	Poster
42	NSSS2026ABS270	NSSS2026REG1285	Imprint of a quasi-16-day period in boreal summer through modulation of quasi-2-day wave: A signature of interhemispheric coupling	A. Guharay and G. Mitra	Oral
43	NSSS2026ABS272	NSSS2026REG0668	3D Tomographic Investigation of the Ionosphere During the May 2024 Geomagnetic Storm	Saurabh Jha, Abhirup Datta, Bhuvnesh Brawar	Poster
44	NSSS2026ABS285	NSSS2026REG1034	Anomalous redistribution of plasma during the recovery phase of the 11 May 2024 superstorm	K. Shimna, R. K. Archana, C. Vineeth, Gang Lu, T. K. Pant, and M.S.M. Vijayan	Oral
45	NSSS2026ABS287	NSSS2026REG1320	ANNIM-3D v2.0: A Significant Update of the Neural Network-Based 3D Global Ionospheric Model ANNIM-3D for End-User Applications	S. Mondal, M. Ankita, R. Dubey, V. Sai Gowtam, S. Tulasi Ram	Oral
46	NSSS2026ABS294	NSSS2026REG0292	Observational and Modelling Analysis of Thermospheric Nitric Oxide Emission During July 2004 Series of Geomagnetic Storms using TIMED-SABER and TIE-GCM	Shrivansh Panwar, Alok Kumar Ranjan, Gaurav Bharti, Neha Kanaujiya, Shalini Kushwaha	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
47	NSSS2026ABS297	NSSS2026REG0754	Unusual Propagation of MSTIDs Observed on 31 January 2017: Evidence of Complex Electrodynamical Modulation over Low-Latitude Ionosphere	O. B. Gurav, R. N. Ghodpage , S. Sripathi, T. K. Ramkumar, A. Taori, R. K. Barad, V. B. Mamlayya, A. P. Mane and A. P. Dimri	Poster
48	NSSS2026ABS299	NSSS2026REG0323	Gravity Wave Observations in the Mesosphere and Lower Thermosphere Using Medium Frequency Radar Over Kolhapur, India	H. P. Gaikwad, R. N. Ghodpage, O. B. Gurav, P. T. Patil	Oral
49	NSSS2026ABS310	NSSS2026REG1347	Long term variations in Brewer Dobson Circulation using ERA5 Reanalysis Data	R Lakshana,, M Pramitha	Oral
50	NSSS2026ABS317	NSSS2026REG0769	An investigation of the response of the thermal field of the MLT region to the 'Severe' geomagnetic storm of 10-11 October 2024	Govind Narayanan K, Navin Parihar, Chinmaya Nayak, Anand Kumar Singh, Shailendra Saini, Ashok Priyadarshan Dimri	Poster
51	NSSS2026ABS325	NSSS2026REG1362	Trans-Atmospheric Coupling of a Greenland Megatsunami: Fjord-Seiche Forcing, Acoustic-Gravity Wave Excitation, and Multi-Day Ionospheric Imprints from the 16 September 2023 Rock-Ice Avalanche	Tamanna Singh, Saurabh Das	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
52	NSSS2026ABS334	NSSS2026REG1344	Ionospheric Response to the May 2024 Geomagnetic Superstorm: Insights from Mid-Latitude Observations	Tiju Joseph Mathew, Aneeta Susan Saji, Gopika S. Vijayan, Vinoy Thomas	Poster
53	NSSS2026ABS348	NSSS2026REG1400	Effect of inhomogeneous electric and magnetic fields in kinetic Alfven wave in presence of ion and electron beam	D K Jaisawal and A K Dwivedi	Poster
54	NSSS2026ABS355	NSSS2026REG1406	Using an in-house developed VLF receiver to probe D region dynamics over dip equatorial region	Reuben Samson Yaqub, Mridula N., Mohammed Nazeer M., Manju G., Tarun Kumar Pant	Oral
55	NSSS2026ABS357	NSSS2026REG1156	Parameterisation of the Inertial Gravity Waves in the Upper Troposphere and Lower Stratosphere region over the Monsoon Core Zone	Aditya Jaiswal, Subrata K. Das, U. V. Murali Krishna, Sunil Sonbawne, Yang Lian	Poster
56	NSSS2026ABS367	NSSS2026REG0224	Impacts of short term Stratospheric Ozone Variability on migrating diurnal tides in the Mesosphere Lower Thermosphere	Oindrila Nath, Karanam Kishore Kumar	Oral
57	NSSS2026ABS369	NSSS2026REG1419	Preliminary Results from the Advanced Digital Ionosonde System ADIS at Prayagraj: Insights from Manual Scaling and Ionograms analysis	P. T. Patil, Prabhakar Tiwari and S. Sripathi	Oral

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58	NSSS2026ABS386	NSSS2026REG1466	Role of background meteorological and thermo-dynamical parameters on the Lightning activity over two contrasting rural and urban locations	Ghanashyam Sharma, M. Venkat Ratnam and Alok Taori	Poster
59	NSSS2026ABS407	NSSS2026REG0869	Global TEC response to x class flares of solar cycle 24 the role of solar zenith angle and central meridian distance	Sreeraj M S, Sumod S G	Oral
60	NSSS2026ABS410	NSSS2026REG1009	Evaluation of EOS 07 millimetre Wave Humidity Sounder MHS retrieved specific humidity using insitu and satellite observations	V. Varaprasad, Ghouse Basha and M. Venkat Ratnam	Poster
61	NSSS2026ABS413	NSSS2026REG1506	Conjugate hemispheric response of ionosphere due to 2019 Antarctic minor SSW and 2013 Arctic major SSW	Jinee Gogoi, Kalyan Bhuyan, Bitap Raj Kalita	Oral
62	NSSS2026ABS417	NSSS2026REG0935	A comparative study of the data analysis of the Total Electron Content from the GNSS Receiver of a program led by the ESA and from a SeptentrioPolaRxS Receiver	Anamika Das, Kalyani Bhattacharjee, Dr. Bruno Nava, Prof. Ashik Paul	Poster
63	NSSS2026ABS423	NSSS2026REG1080	Quantifying Global Ionospheric TEC Response to Geomagnetic Storms: Seasonal, Latitudinal, and Local Time Perspectives	Shubham Mehta, Gopi Seemala	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
64	NSSS2026ABS432	NSSS2026REG0896	Modeling Storm-Time Response of the Equatorial Ionosphere: Coupled Roles of Electric Fields and Meridional Winds	Arya Ashok, K. M. Ambili, and R. K. Choudhary	Poster
65	NSSS2026ABS435	NSSS2026REG0889	Effect of solar forcing and tropospheric convection in OH intensity and temperature variabilities over Ahmedabad.	Kiran and Ravindra P. Singh	Poster
66	NSSS2026ABS442	NSSS2026REG1587	Scales of perturbations in long time series of GPS scintillations over multiple stations in the Indian sector	Ram Kumar Vankadara, Nirvikar Dashora	Poster
67	NSSS2026ABS444	NSSS2026REG1598	Bridging Atmospheric-Ionospheric Science and LEO Satellite System Design: A Regional Study over the Indian Subcontinent	Deepthi Ayyagari, Shyam S Kundu, Arup Borgohain, Aniket Chakravorty, Rosly Boy Lyngdoh, Abhay Srivastava	Oral
68	NSSS2026ABS447	NSSS2026REG1604	Unusually strong equatorial ionization anomaly across three local time sectors during the intense 10-11 May 2024 Geomagnetic Storm	Diptiranjana Rout	Oral
69	NSSS2026ABS465	NSSS2026REG0819	Equatorial Variation of Nitric Oxide Emission during Mother's Day Superstorm May 2024	Gaurav Bharti, Shrivansh Panwar, Neha Kanaujiya, Shalini Kushwaha, Rajendra Kumar	Oral

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70	NSSS2026ABS466	NSSS2026REG1410	Multi-technique observations of changes in the upper atmospheric phenomena during the two severe geomagnetic storms of May and October 2024	Duggirala Pallamraju, Alok Ranjan, Kshitiz Upadhyay, Komal, K. Venkatesh, and Pradip Suryawanshi	Oral
71	NSSS2026ABS474	NSSS2026REG1658	Response of Equatorial and Low Latitude Thermosphere-Ionosphere to the Geomagnetic Storm of 01 January 2025	Manu T, Vineeth C, Raj Kumar Choudhary, Tarun Kumar Pant	Oral
72	NSSS2026ABS475	NSSS2026REG1555	Risk Assessment of Geomagnetically Induced Currents Over the Indian Sector in Comparison With American and African Sectors	Vishnupriya K S, Manju G	Oral
73	NSSS2026ABS476	NSSS2026REG1034	Statistical Investigation of Intense Geomagnetic Storms with SYMH between -150 nT and -100 nT Using GOLD Observations During Solar Cycle 25	Shimna Kannothe, Archana RK, Viswanathan Lakshmi Narayanan	Oral
74	NSSS2026ABS482	NSSS2026REG0928	First Insights into Unveiling Altitude-Specific Dynamics of Ionosphere-Thermosphere using Dual-Peak Green Line Dayglow Emissions	Komal, Duggirala Pallamraju	Poster
75	NSSS2026ABS483	NSSS2026REG0928	A Quantitative Analysis of the response of Green and Red Line dayglow Emissions to Solar Flares of varying magnitudes	Komal, Duggirala Pallamraju	Poster

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76	NSSS2026ABS488	NSSS2026REG0810	Short-term Variability of the Migrating Semidiurnal Tide in the Mesosphere Lower Thermosphere region as observed by the JAGUAR-DAS Whole Neutral Atmosphere Reanalysis	N. Koushik, K. Kishore Kumar	Poster
77	NSSS2026ABS492	NSSS2026REG0975	Intensification of the tropospheric warming and weakening of the lower stratospheric cooling: Insights from long-term (1980-2024) multi data sets	A. Kalyan Teja, M. Venkat Ratnam and S. Vijaya Bhaskara Rao	Poster
78	NSSS2026ABS493	NSSS2026REG0975	Meteor Echo Characteristics, Mean Winds, and Tides Observed Using Long-Term (11-years) SVU Meteor Radar Observations	A. Kalyan Teja, M. Venkat Ratnam and S. Vijaya Bhaskara Rao	Oral
79	NSSS2026ABS495	NSSS2026REG1016	A Multi-Definition Approach to the Tropopause: Implications for TTL Thickness and Tracer Transport	k. Siva Kumar, Ghouse Basha and M.Venkat Ratnam	Oral
80	NSSS2026ABS499	NSSS2026REG1666	Long-term characteristics of vertical air motion over the gateway of Indian summer monsoon using 205 MHz Stratopshere-Troposphere Radar	Nabarun Poddar, Siddarth Shankar Das, Abhilash S, Rakesh V	Poster
81	NSSS2026ABS507	NSSS2026REG0869	On the non-linear dependence of flare radiation enhancements and ionospheric TEC for the x-class flares of solar cycle 24: an investigation using the IGS network	Sreeraj M S, Sumod S G	Poster

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82	NSSS2026ABS510	NSSS2026REG0869	Altitudinal distribution of flare-induced TEC during an x5.3 flare of 14 July 2000	Sumod S G, Sreeraj M S	Poster
83	NSSS2026ABS527	NSSS2026REG0359	Impact of Hunga-Tonga Hunga-Ha'apai volcanic eruption in increasing stratospheric water vapour and its impact of global ozone and surface temperature	Siddarth Shankar Das, Veenus Venugopal,	Oral
84	NSSS2026ABS540	NSSS2026REG0858	Evaluation of Multi-Model Lightning Density Against Observed Lightning Data at the District Scale in India	Trisanu Banik, Naveen M, Rohit Chakraborty , D.R. Pattanaik	Oral
85	NSSS2026ABS542	NSSS2026REG1689	Detection of Large-Scale Gravity Waves in Mid-Latitude foF2 and hmF2 Observations During Geomagnetically Quiet Periods	Ankitha N	Poster
86	NSSS2026ABS558	NSSS2026REG1582	Impact of Hunga-Tonga Hunga-Ha'apai volcanic eruption in increasing stratospheric water vapour and its impact of global ozone and surface temperature	Siddarth Shankar Das and Veenus Venugopal	Poster
87	NSSS2026ABS561	NSSS2026REG1144	Distinct impacts of the extreme space weather events of 2024 on the low latitude ionospheric dynamics in the Indian sector as captured by combined space and ground based plasma measurements	K. Venkatesh, D. Pallamraju, D. Chakrabarty	Poster

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88	NSSS2026ABS565	NSSS2026REG1411	Solar Wind Density Pulse Effects on FAC Under Variable IMF Orientations.	Sirsha Nandy, Bhargav Vaidya, Arghyadeep Paul, Diptiranjana Rout, Dibyendu Chakrabarty, Antoine Strugarek	Oral
89	NSSS2026ABS567	NSSS2026REG1744	Proton Precipitation Driven Enhancements in Field-Aligned Currents During Solar Proton Events	Nishant Tiwari, MV Sunil Krishna	Oral
90	NSSS2026ABS568	NSSS2026REG1744	Machine Learning Insights into Seasonal and Solar Cycle Variations of CO ₂ Cooling in the Upper Atmosphere	Dayakrishna Nailwal, MV Sunil Krishna	Oral
91	NSSS2026ABS569	NSSS2026REG1478	Characterization of the Rayleigh Surface Waves from Ionospheric Observations during the Mw 9.1 Tohoku-Oki Earthquake	Sunil Saini, Mala S. Bagiya, Prathmesh Tari, Satish Maurya, Subrata Kundu, A.P. Dimri	Oral
92	NSSS2026ABS571	NSSS2026REG1743	New results on Midnight Temperature Maximum (MTM) obtained using Fabry-Perot Interferometer (FPI) from Thumba, a low latitude Indian station	Md Mosarraf Hossain, Tarun Kumar Pant and C. Vineeth	Oral
93	NSSS2026ABS572	NSSS2026REG0768	Morphology of Quiet time Equatorial Ionization Anomaly over the Indian Region during Solar Cycle 24–25	Ayushi Srivastava , Rajesh Barad , S. Sripathi	Poster
94	NSSS2026ABS573	NSSS2026REG1740	Compressional ULF Waves and Oxygen Ion Energization in Magnetospheric Boundary Layers During the May 2024 Storm	Indu Venugopal, Ankush Bhaskar, Smitha V. Thampi	Oral

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95	NSSS2026ABS577	NSSS2026REG1748	Latitudinal Ionospheric Response to the Expansion of High-Latitude Convection During Geomagnetic Disturbances	Kshitiz Upadhyay and Duggirala Pallamraju	Poster
96	NSSS2026ABS579	NSSS2026REG1748	Geomagnetic Control of Gravity Wave Dynamics in the Mid-Latitude Upper Atmosphere Under Daytime Conditions	Kshitiz Upadhyay and Duggirala Pallamraju	Oral
97	NSSS2026ABS581	NSSS2026REG1744	Longitudinal Variability in Ionospheric Response to the 2009 Sudden Stratospheric Warming Event	Akash Kumar, MV Sunil Krishna, Alok K Ranjan	Oral
98	NSSS2026ABS582	NSSS2026REG1691	Study of seasonal variation of refractivity turbulence structure constant (Cn2) over Guwahati region using ST Radar data	Nilotpall Nath, Pankaj Mili, Dr. Manoj Saikia	Oral
99	NSSS2026ABS590	NSSS2026REG0476	Evolution of Turbulence Parameter(Cn2) During Severe Convective situation: few case studies through ST Radar observation	Pankaj Mili Nilotpall and Nath Manoj Saikia	Poster
100	NSSS2026ABS604	NSSS2026REG1086	Background removal of satellite measurements for gravity wave analysis using a new python-based toolbox - GLOFI	Arun Jo Mathew, Sebastian Rhode, Manfred Ern, Pramitha Maniyatt, Peter Preusse	Oral
101	NSSS2026ABS616	NSSS2026REG1786	Ionospheric irregularities during low solar June solstice	Soujan Ghosh, A.K. Patra, P. Pavan Chaitanya	Oral

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PS-2 (Middle Atmosphere, Atmospheric Coupling, Dynamics, Aeronomy, and Sun-Earth Connection)

Details and type of presentation for the accepted abstracts

SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
102	NSSS2026ABS623	NSSS2026REG1780	Equatorial plasma bubble rise velocities in the Indian sector determined from multi-station ionosonde observations	B Gayathri, S Sripathi	Poster
103	NSSS2026ABS624	NSSS2026REG1089	Mesospheric dynamics using spectroscopic and imaging ground-based observations of OH(3-1) nightglow emission in the SWIR region	Ravindra. P. Singh, Mohit K Soni, Kiran, Dheerajkumar Khonde, and Pradip Suryawanshi	Poster
104	NSSS2026ABS625	NSSS2026REG0359	Meteor radar observations of the quasi 16-day waves in the mesosphere lower thermosphere over north and south polar latitudes	Archa P Chandran,, V. Deepa	Poster
105	NSSS2026ABS629	NSSS2026REG1321	Hydroxyl airglow imaging using a low cost instrument (HAIL) – Instrument description and first results	Viswanathan Lakshmi Narayanan, Jesu Anten Edilbert, Aarav Akali	Poster
106	NSSS2026ABS631	NSSS2026REG0952	MIGHTI observations of thermospheric O(1D) dayglow emission and its comparison with the GLOW model over Ahmedabad, India	Dheerajkumar Khonde Ravindra P. Singh	Oral
107	NSSS2026ABS634	NSSS2026REG1698	New Insights into the Quasi 16-day Wave Dynamics in the Mesosphere Lower Thermosphere over North and South Polar Latitudes using Meteor Radar Observations	Archa P Chandran, Deepa.V, and K. Kishore Kumar	Oral

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Details and type of presentation for the accepted abstracts

SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
108	NSSS2026ABS643	NSSS2026REG0807	Determination of Electron Energy Distribution Function (EEDF) and Magnetic Confinement in Low-Temperature Plasmas using Single Langmuir probe	Pallab Gogoi	Poster
109	NSSS2026ABS650	NSSS2026REG1688	Quantitative Analysis of Arctic Polar Vortex Evolution during 2023/2024 winter: Intensity, Areal Extent and Persistence	Riya Raju K and Pramitha M	Oral
110	NSSS2026ABS671	NSSS2026REG1595	Experimenting with ground chain of GNSS and NavIC receivers in the Indian Sector: Salient features and research highlights	Nirvikar Dashora and Himanshu Sekhar Sethi	Oral
111	NSSS2026ABS673	NSSS2026REG1810	Deep Learning Approach to GNSS-TEC Anomaly Detection Using LSTM-AE: Evidence from the 2010 Mw 7.2 El Mayor-Cucapah Earthquake	Suryanshu Paul . Gopal Sharma	Poster
112	NSSS2026ABS691	NSSS2026REG0870	A comprehensive study of pre-seismic ionospheric response to large earthquakes - A multi parametric statistical approach using ground and space based observations	Sreeba Sreekumar, G. Manju, Mala. S. Bagiya, Ankush Bhaskar, Tarun. K. Pant	Oral
113	NSSS2026ABS693	NSSS2026REG1270	Development of new data analysis tool for DPS-4D digisonde observations for low-latitude ionospheric research	G. Janardana Reddy, A. K. Patra	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
114	NSSS2026ABS695	NSSS2026REG1605	Development of AI/ML based ionospheric vertical ExB drift model and study on its longitudinal variation	P. Pavan Chaitanya, A. K. Patra, Y. Otsuka, T. Yokoyama, and M. Yamamoto	Poster
115	NSSS2026ABS698	NSSS2026REG1605	Development of AI/ML based electron density model for Indian low latitudes	P. Pavan Chaitanya and A. K. Patra	Oral
116	NSSS2026ABS701	NSSS2026REG1605	First multi-beam radar studies of F region irregularities beyond the equatorial ionization crest using the Haringhata radar in India	A. K. Patra, P. PavanChaitanya, A. Paul, K. K. Ajith and T. Yokoyama	Oral
117	NSSS2026ABS702	NSSS2026REG1830	Geomagnetic Storms and their influence on Earth's upper and lower atmosphere over equatorial anomaly station	Bornali Chetia and Santanu Kalita	Oral
118	NSSS2026ABS707	NSSS2026REG1838	Impact of sudden stratospheric warming events on ionospheric F2 region at low mid latitude Indian station, New Delhi.	Qadeer Ahmed, Anshul Singh, Ankit Gupta, Arti Bhardwaj, N. Phani Chandrasekhar, Kusumita Arora, A.K Upadhayaya	Poster
119	NSSS2026ABS712	NSSS2026REG0267	Pre-earthquake anomalous ionospheric signatures observed at low-mid latitude Indian station (Delhi and Pantnagar) during the August-September 2025 Earthquakes	Aastha Rawat, Anshul Singh, Ankit Gupta, Qadeer Ahmed, Puja Goel, Arun Kumar Upadhayaya	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
120	NSSS2026ABS715	NSSS2026REG1840	Global and Indian Region Ionospheric Response to the Extreme Geomagnetic Storm of 10–11 May 2024	Anshul Singh a,b, Aastha Rawat a,b, Qadeer Ahmed a,b, Ankit Gupta a,b, Arti Bhardwaj a, Puja Goel c, Arun Kumar Upadhayaya a,b	Poster
121	NSSS2026ABS718	NSSS2026REG1597	Unveiling Polar Ionospheric Dynamics During the May 2024 Superstorm: Insights from High-Latitude GNSS Observations (with an addendum on the 10–11 October 2024 geomagnetic storm)	Tamanna Singh,Vishal Sarkar, Saurabh Das	Poster
122	NSSS2026ABS723	NSSS2026REG1766	Impact of lower atmospheric disturbances to the geomagnetically quiet time variability of the ionosphere-thermosphere-mesosphere (ITM) system	S Sridharan, S. Meenakshi and Reetambhara Dutta	Poster
123	NSSS2026ABS726	NSSS2026REG1847	Impact of the May 2024 Geomagnetic Storm on Atmospheric Electric Field Variations in the Arctic	Kavita Meena, Saurabh Das , and Nuncio Murukesh	Poster
124	NSSS2026ABS727	NSSS2026REG1843	Analysis of Tropical Stratospheric Ozone Layer Recovery Using Adaptive Trend Methods and inflection year detection.	Chhabeel Kumar, Abhinav Dhiman, Ankit Tandon	Oral
125	NSSS2026ABS737	NSSS2026REG1623	Prediction of Total Electron Content by using Machine Learning Approach over Low Latitude Regions during Low Solar Activity Period	Barsha Dutta, Adrika Kakoty, Lipika Soni, S. Aruna	Oral

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
126	NSSS2026ABS741	NSSS2026REG1344	Evening Vertical Plasma Drift at Midlatitudes: Comparative Study from Nicosia and Eglin	Dr. Tiju Joseph Mathew, Dr. Vinoy Thomas, Ankitha N., Blessy Varghese	Oral
127	NSSS2026ABS757	NSSS2026REG1496	Statistical study of the characteristics of Equatorial Electrojet and Counter Electrojet in the Indian Sector – A Comparative study between Satellite and ground based magnetic observations	Archana R.K , C.Vineeth, T.K Pant	Poster
128	NSSS2026ABS759	NSSS2026REG1496	Quantification of the Variability of Thermospheric O/N2 Density during Recent Geomagnetic Storms – Inferences from GOLD and GUVI Observations	Archana R.K , K.Shmna, C.Vineeth, T.K Pant	Poster
129	NSSS2026ABS761	NSSS2026REG1861	Afternoon Westward Enhancement in the Equatorial Ionosphere: New Evidence from Boa Vista	Blessy Varghese, Dr. Tiju Joseph Mathew, Dr. Abraham A., Dr. Vinoy Thomas, Basil Roy Idiculla	Poster
130	NSSS2026ABS781	NSSS2026REG1899	Black Carbon Dynamics and Middle-Atmosphere Coupling over the Indo-Gangetic Basin: Implications for Regional Climate Change	Vaishnav Bartaria, Auroop Ratan Ganguly, Ashok Jangid, Ranjit Kumar	Poster
131	NSSS2026ABS794	NSSS2026REG1947	Transient Jets in the Mesosphere Lower Thermosphere over the Southern Polar Latitudes Triggered by Geomagnetic Storms	Karanam Kishore Kumar and N Koushik	Poster

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SN	Abstract ID	Registration ID	Abstract Title	Authors	Type of Presentation
132	NSSS2026ABS806	NSSS2026REG1835	DL-Based Approach for Eliminating Space Object-Induced Noise in Radar Data for Atmospheric and Ionospheric Studies.	R Ashrit	Oral
133	NSSS2026ABS808	NSSS2026REG1895	Statistical Evaluation of Precise Point Positioning Accuracy under Geomagnetic Disturbances: Insights from ROTI and Solar Wind Data over Indian Antarctica Stations	Ipsita Katual, Gopi K. Seemala, Krushna Chandra Barik, Chinmaya Nayak, Dhruti Ranjan Gaan, Sudhanshu Sekhar Rayaguru	Poster
134	NSSS2026ABS811	NSSS2026REG1744	Thermospheric response to magnetospheric energy input during extreme space weather input	MV Sunil Krishna, Alok K Ranjan, Dayakrishna Nailwal, Akash Kumar	Oral
135	NSSS2026ABS868	NSSS2026REG2007	Dynamics of ozone across the tropopause: A regional study over Costa Rica during 2016	Salauddin Mohammad, P. Vinay Kumar, M V Ratnam, Syu-Ruei Jhang and Gopa Dutta	Poster

- All lead authors have been communicated about the decision as per the table above. In case the acceptance letter is not received, please inform us.
- The authors of the abstracts that were rejected, has already been communicated about the decision.
- The poster presentations that will be given the opportunity for Lightning Oral Talk shall be communicated separately.
- **Discrepancies, if any may be brought to our notice for correction.**