

National Space Science Symposium

2026

PS-2

Middle Atmosphere, Atmospheric coupling, Dynamics, Aeronomy, and Sun-Earth connection

Daily Schedule

Chairperson: **Dr. Tarun Pant**, SPL, VSSC, Trivandrum;

Convener: **Dr. Shyam S Kundu**, NESAC, Shillong

Co-convener: **Dr. Nirvikar Dashora**, NARL, Gadanki

Rapporteur: **Dr. Diptiranjan Rout**, NARL, Gadanki

Day-1 (23.02.2026)

Technical Session-1 (1415 - 1600 Hrs)

Chair: Dr Tarun Pant

Co-Chair: Dr N Dashora

Oral Presentation

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS701 (Lead Talk)	First multi-beam radar studies of F region irregularities beyond the equatorial ionization crest using the Haringhata radar in India	A. K. Patra
2	NSSS2026ABS737	Transient Jets in the Mesosphere Lower Thermosphere over the Southern Polar Latitudes Triggered by Geomagnetic Storms	Karanam Kishore Kumar
3	NSSS2026ABS214	Investigating Solar-Interplanetary Drivers of Three Extreme Geomagnetic Storms of Solar Cycles 23, 24, and 25	Swapnil Garg
4	NSSS2026ABS567	Proton Precipitation Driven Enhancements in Field-Aligned Currents During Solar Proton Events	Nishant Tiwari
5	NSSS2026ABS702	Geomagnetic Storms and their influence on Earth's upper and lower atmosphere over equatorial anomaly station	Bornali Chetia
6	NSSS2026ABS871	Ionospheric TEC Response to X-Class Solar Flares and Severe Geomagnetic Activity over India Using National CORS GNSS Data	Rani T.E
7	NSSS2026ABS475	Risk Assessment of Geomagnetically Induced Currents Over the Indian Sector in Comparison With American and African Sectors	Vishnupriya K S
8	NSSS2026ABS044	Ionospheric Perturbations at Mid and High Latitudes During the May 2024 Geomagnetic Superstorm from VLF and Satellite Observations	Jitiprova Ghosh
9	NSSS2026ABS579	Geomagnetic Control of Gravity Wave Dynamics in the Mid-Latitude Upper Atmosphere Under Daytime Conditions	Kshitiz Upadhyay

Short oral presentations

Note: Abstracts with short oral presentation will have to make poster presentation as well either on same day or on a different day. Please see the poster session details on all days to find your poster presentation timing.

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS726	Impact of the May 2024 Geomagnetic Storm on Atmospheric Electric Field Variations in the Arctic	Kavita Meena
2	NSSS2026ABS572	Morphology of Quiet time Equatorial Ionization Anomaly over the Indian Region during Solar	Ayushi Srivastava

Cycle 24–25			
3	NSSS2026ABS737	Prediction of Total Electron Content by using Machine Learning Approach over Low Latitude Regions during Low Solar Activity Period	Barsha Dutta
4	NSSS2026ABS334	Ionospheric Response to the May 2024 Geomagnetic Superstorm: Insights from Mid-Latitude Observations	Dr. Tiju Joseph Mathew
5	NSSS2026ABS712	Pre-earthquake anomalous ionospheric signatures observed at low-mid latitude Indian station (Delhi and Pantnagar) during the August-September 2025 Earthquakes	Aastha Rawat

Poster presentations

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS272	3D Tomographic Investigation of the Ionosphere During the May 2024 Geomagnetic Storm	Saurabh Jha
2	NSSS2026ABS152	Evidence of association of lower atmospheric gravity waves with the equatorial plasma bubbles	R. N. Ghodpage
3	NSSS2026ABS712	Pre-earthquake anomalous ionospheric signatures observed at low-mid latitude Indian station (Delhi and Pantnagar) during the August-September 2025 Earthquakes	Aastha Rawat
4	NSSS2026ABS297	Unusual Propagation of MSTIDs Observed on 31 January 2017: Evidence of Complex Electrodynamical Modulation over Low-Latitude Ionosphere	O. B. Gurav
5	NSSS2026ABS128	Solar cycle dependence of quasi two wave in the low latitude mesosphere and lower thermosphere region	S. Sathishkumar
6	NSSS2026ABS726	Impact of the May 2024 Geomagnetic Storm on Atmospheric Electric Field Variations in the Arctic	Kavita Meena
7	NSSS2026ABS572	Morphology of Quiet time Equatorial Ionization Anomaly over the Indian Region during Solar Cycle 24–25	Ayushi Srivastava
8	NSSS2026ABS737	Prediction of Total Electron Content by using Machine Learning Approach over Low Latitude Regions during Low Solar Activity Period	Barsha Dutta
9	NSSS2026ABS334	Ionospheric Response to the May 2024 Geomagnetic Superstorm: Insights from Mid-Latitude Observations	Dr. Tiju Joseph Mathew

Day-2 (24.02.2026)

Technical Session-2 (1145 - 1315 Hrs)

Chair: Dr. Jayachandran P T

Co-Chair: Dr. T.K. Ramkumar

Oral Presentation

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS011 (Lead Talk)	Precision of Total Electron Content Estimated Using GPS Observables	Jayachandran P T
2	NSSS2026ABS081	NARL-Gadanki Airglow Imager Observation of Latitude vs. Time Dependence of Getting Pinched Off of Field-aligned Equatorial-Ionospheric Plasma-Irregularities	T. K. Ramkumar
3	NSSS2026ABS565	Solar Wind Density Pulse Effects on FAC Under Variable IMF Orientations.	Sirsha Nandy
4	NSSS2026ABS264	Modelling the Magnetic Local Time asymmetry in the ring current	Deeksha Rai
5	NSSS2026ABS423	Quantifying Global Ionospheric TEC Response to Geomagnetic Storms: Seasonal, Latitudinal, and Local Time Perspectives	Shubham Mehta
6	NSSS2026ABS476	Statistical Investigation of Intense Geomagnetic Storms with SYMH between -150 nT and -100 nT Using GOLD Observations During Solar Cycle 25	Shimna Kannoth
7	NSSS2026ABS187	Overestimation of the bottom-side ionospheric TEC in the IRI model over low latitude regions	K. Venkatesh
8	NSSS2026ABS325	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
9	NSSS2026ABS631	MIGHTI observations of thermospheric O(1D) dayglow emission and its comparison with the GLOW model over Ahmedabad, India	Dheerajkumar Khonde

Short oral presentations

Note: Abstracts with short oral presentation will have to make poster presentation as well either on same day or on a different day. Please see the poster session details on all days to find your poster presentation timing.

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS432	Modeling Storm-Time Response of the Equatorial Ionosphere: Coupled Roles of Electric Fields and Meridional Winds	Arya Ashok
2	NSSS2026ABS759	Quantification of the Variability of Thermospheric O/N ₂ Density during Recent Geomagnetic Storms - Inferences from GOLD and GUVI	Archana R.K

		Observations	
3	NSSS2026ABS435	Effect of solar forcing and tropospheric convection in OH intensity and temperature variabilities over Ahmedabad.	Kiran
4	NSSS2026ABS442	Scales of perturbations in long time series of GPS scintillations over multiple stations in the Indian sector	Ram Kumar Vankadara
5	NSSS2026ABS561	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

Technical Session-3 (1415 - 1600 Hrs)

Chair: Dr. P K Bhuyan

Co-Chair: Dr. Arup Borgohain

Oral Presentation

SN	Abstract ID	Title of Abstract	First Author
1	(Lead Talk)	Storm induced F layer uplift at midlatitudes during an intense geomagnetic disturbance	Dr. P K Bhuyan
2	NSSS2026ABS741	Evening Vertical Plasma Drift at Midlatitudes: Comparative Study from Nicosia and Eglin	Dr. Tiju Joseph Mathew
3	NSSS2026ABS465	Equatorial Variation of Nitric Oxide Emission during Mother's Day Superstorm May 2024	Gaurav Bharti
4	NSSS2026ABS146	NARL All Sky CCD Imager Observations of Sodium Gravity Wave Activity, OH Filamentary Structures and Depletion Dominated Signatures	Suparba Goswami
5	NSSS2026ABS569	Characterization of the Rayleigh Surface Waves from Ionospheric Observations during the Mw 9.1 Tohoku-Oki Earthquake	Sunil Saini
6	NSSS2026ABS198	Quiet time enhancements and decrements in the day-to-day TEC variations over the Indian equatorial and low latitudes	Sandip Bhattacharyya
7	NSSS2026ABS140	Dynamics of Ionospheric Plasma Bubbles with stand alone NavIC receiver	Bhuvnesh Brawar
8	NSSS2026ABS215	EMIC wave-driven energetic particle precipitation during the recovery phase of a geomagnetic storm.	S. Deepak

Short oral presentations

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SN	Abstract ID	Title of Abstract	First Author
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1	NSSS2026ABS386	Role of background meteorological and thermo-dynamical parameters on the Lightning activity over two contrasting rural and urban locations	Ghanashyam Sharma
2	NSSS2026ABS033	Atmospheric Electric Field as a Potential Indicator of Air Quality Index during Severe Winter Pollution	Rakhijul Alam Faruque
3	NSSS2026ABS048	Solar Transient Plasma Flows and Space Weather during Recent Solar Cycles	Sonia Kaushik
4	NSSS2026ABS071	10-11 May 2024 geomagnetic superstorm impact on the d-region ionosphere over the Indian low-latitude region	Debarchan Kar
5	NSSS2026ABS718	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
6	NSSS2026ABS047	Dynamics of the Geophysical Plasma Events and Their Interplanetary Consequences	Subhash Chandra Kaushik

Poster presentations

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS144	An Integrated Framework for Modeling Daytime and Seasonal Variability in VLF Signal Propagation	Sayak Chakraborty
2	NSSS2026ABS116	Ionospheric and Atmospheric Disturbances as Precursors to the 2025 Myanmar Earthquake	Gahul Amin
3	NSSS2026ABS251	Low Latitude Ionospheric Response to Severe Cyclonic Storm PHETHAI from Coordinated Ionosonde and GPS-TEC Observations	K. Muthu Vishali
4	NSSS2026ABS047	Dynamics of the Geophysical Plasma Events and Their Interplanetary Consequences	Subhash Chandra Kaushik
5	NSSS2026ABS386	Role of background meteorological and thermo-dynamical parameters on the Lightning activity over two contrasting rural and urban locations	Ghanashyam Sharma
6	NSSS2026ABS033	Atmospheric Electric Field as a Potential Indicator of Air Quality Index during Severe Winter Pollution	Rakhijul Alam Faruque
7	NSSS2026ABS048	Solar Transient Plasma Flows and Space Weather during Recent Solar Cycles	Sonia Kaushik
8	NSSS2026ABS071	10-11 May 2024 geomagnetic superstorm impact on the d-region ionosphere over the Indian low-latitude region	Debarchan Kar
9	NSSS2026ABS718	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

10	NSSS2026ABS432	Modeling Storm-Time Response of the Equatorial Ionosphere: Coupled Roles of Electric Fields and Meridional Winds	Arya Ashok
11	NSSS2026ABS759	Quantification of the Variability of Thermospheric O/N ₂ Density during Recent Geomagnetic Storms - Inferences from GOLD and GUVI Observations	Archana R.K
12	NSSS2026ABS435	Effect of solar forcing and tropospheric convection in OH intensity and temperature variabilities over Ahmedabad.	Kiran
13	NSSS2026ABS442	Scales of perturbations in long time series of GPS scintillations over multiple stations in the Indian sector.	Ram Kumar Vankadara .
14	NSSS2026ABS561	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

Day-3 (25.02.2026)

Technical Session-4 (1145 - 1315 Hrs)

Chair: Dr. M V Ramana

Co-Chair: Dr. Siddarth Shankar Das

Oral Presentation

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS806	DL-Based Approach for Eliminating Space Object-Induced Noise in Radar Data for Atmospheric and Ionospheric Studies.	R Ashrit
2	NSSS2026ABS123	An experiment-specific payload orientation platform for balloon-borne experiments	Ashish A. Rodi
3	NSSS2026ABS573	Compressional ULF Waves and Oxygen Ion Energization in Magnetospheric Boundary Layers During the May 2024 Storm	Indu Venugopal
4	NSSS2026ABS285	Anomalous redistribution of plasma during the recovery phase of the 11 May 2024 superstorm	K. Shimna
5	NSSS2026ABS228	Global Characterization of AO, SAO, and ISOs Amplitudes as observed using PAIRS and SABER temperatures	Kiran and R. P. Singh
6	NSSS2026ABS143	Simultaneous Modeling of Multi-Path Sub-Ionospheric VLF Signal Responses to the Total Solar Eclipse 2024	Taraknath Bera
7	NSSS2026ABS444	Bridging Atmospheric-Ionospheric Science and LEO Satellite System Design: A Regional Study over the Indian Subcontinent	Naga Vijaya Deepthi Ayyagari

Short oral presentations

Note: Abstracts with short oral presentation will have to make poster presentation as well either on same day or on a different day. Please see the poster session details on all days to find your poster presentation timing.

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS761	Afternoon Westward Enhancement in the Equatorial Ionosphere: New Evidence from Boa Vista	Blessy Varghese
2	NSSS2026ABS483	A Quantitative Analysis of the response of Green and Red Line dayglow Emissions to Solar Flares of varying magnitudes	Komal
3	NSSS2026ABS417	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
4	NSSS2026ABS348	Effect of inhomogeneous electric and magnetic fields in kinetic Alfvén wave in presence of ion and electron beam	D K Jaisawal
5	NSSS2026ABS757	Statistical study of the characteristics of	Archana R.K

		Equatorial Electrojet and Counter Electrojet in the Indian Sector – A Comparative study between Satellite and ground based magnetic observations	
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Technical Session-5 (1415 - 1600 Hrs)

Chair: Dr Tarun Pant

Co-Chair: Dr. Ankit Tandon

Oral Presentations

SN	Abstract ID	Title of Abstract	First Author
1	(Lead Talk)	TBD	Dr Tarun Pant
2	NSSS2026ABS127	Long Term Variability of Ionospheric Electron Density and Temperature: Insights from Swarm Satellites and IRI 2020 During Solar Cycle 24 to 25	Aaditya Sarda
3	NSSS2026ABS650	Quantitative Analysis of Arctic Polar Vortex Evolution during 2023/2024 winter: Intensity, Areal Extent and Persistence	Riya Raju K
4	NSSS2026ABS112	On the Realistic Reconstruction of the Topside Ionosphere over Equatorial Regions: A Study using ISR, Ionosonde, and Satellite Observations	K Siba Kiran Guru
5	NSSS2026ABS540	Evaluation of Multi-Model Lightning Density Against Observed Lightning Data at the District Scale in India	Trisanu Banik
6	NSSS2026ABS244	Impact of the May 2024 Super Geomagnetic Storm on the DC and AC Global Electric Circuit Across Mid- and Low-Latitude Regions	S. Pal
7	NSSS2026ABS495	A Multi-Definition Approach to the Tropopause: Implications for TTL Thickness and Tracer Transport	k. Siva Kumar
8	NSSS2026ABS072	Tropical cyclones induced atmospheric gravity waves- results from the Indian subcontinent	Omkar M. Patil
9	NSSS2026ABS041	Wavenumber-4 Longitudinal Structure in ICON-MIGHTI Thermospheric Meridional Wind	Meenakshi S

Short oral presentations

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SN	Abstract ID	Title of Abstract	First Author
1			
2	NSSS2026ABS194	A Multi-Parameter Analysis of Heliophysical and Geomagnetic Activity during SC-25 from 2019 to 2025	Omkar Prasad Tripathi
3	NSSS2026ABS590	Evolution of Turbulence Parameter(Cn2)	Pankaj Mili

		During Severe Convective situation: few case studies through ST Radar observation	Nilotpal Nath Manoj Saikia
4	NSSS2026ABS317	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
5	NSSS2026ABS136	Effects of storm-time electric fields at low latitudes near the dawn terminator	Sneha Vengurlekar
6	NSSS2026ABS695	Development of AI/ML based ionospheric vertical ExB drift model and study on its longitudinal variation	P. Pavan Chaitanya

Poster presentations

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS542	Detection of Large-Scale Gravity Waves in Mid-Latitude foF2 and hmF2 Observations During Geomagnetically Quiet Periods	Ankitha N
2	NSSS2026ABS145	Modulation in Galactic Cosmic Rays during a Period of Anomalously low Solar Activity	B. K. Tiwari
3	NSSS2026ABS196	Effect of the Bottom side thickness parameter on the estimation of Bottom side TEC in the IRI model over the low latitudes	H. Kava
4	NSSS2026ABS211	Study of solar activities associated with Cosmic Ray intensity Variation	B.K.Tiwari
5	NSSS2026ABS042	Low-Cost Radiometric Monitoring of Ionospheric and Auroral Variability in the Arctic	Harsha Avinash Tanti
6			
7	NSSS2026ABS695	Development of AI/ML based ionospheric vertical ExB drift model and study on its longitudinal variation	P. PavanChaitanya
8	NSSS2026ABS194	A Multi-Parameter Analysis of Heliophysical and Geomagnetic Activity during SC-25 from 2019 to 2025	Omkar Prasad Tripathi
9	NSSS2026ABS590	Evolution of Turbulence Parameter(Cn2) During Severe Convective situation: few case studies through ST Radar observation	Pankaj Mili
10	NSSS2026ABS761	Afternoon Westward Enhancement in the Equatorial Ionosphere: New Evidence from Boa Vista	Blessy Varghese
11	NSSS2026ABS483	A Quantitative Analysis of the response of Green and Red Line dayglow Emissions to Solar Flares of varying magnitudes	Komal
12	NSSS2026ABS417) 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
13	NSSS2026ABS348	Effect of inhomogeneous electric and magnetic fields in kinetic Alfvén wave in presence of ion and electron beam	D K Jaisawal

14	NSSS2026ABS757	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
15	NSSS2026ABS317	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
16	NSSS2026ABS136	Effects of storm-time electric fields at low latitudes near the dawn terminator	Sneha Vengurlekar
17	NSSS2026ABS695	Development of AI/ML based ionospheric vertical ExB drift model and study on its longitudinal variation	P. Pavan Chaitanya

Day-4 (26.02.2026)

Technical Session-6 (1145 - 1315 Hrs)

Chair: Dr. M V Sunil Krishna

Co-Chair: Dr Shyam S Kundu

Oral Presentations

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS811 (Lead Talk)	Thermospheric response to magnetospheric energy input during extreme space weather input	M V Sunil Krishna
2	NSSS2026ABS355	Using an in-house developed VLF receiver to probe D region dynamics over dip equatorial region	Reuben Samson Yaqub
3			
4	NSSS2026ABS582	Study of seasonal variation of refractivity turbulence structure constant (C_n^2) over Guwahati region using ST Radar data	Nilotpal Nath1
5	NSSS2026ABS527	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
6	NSSS2026ABS367	Impacts of short term Stratospheric Ozone Variability on migrating diurnal tides in the Mesosphere Lower Thermosphere	Oindrila Nath
7	NSSS2026ABS270	Imprint of a quasi-16-day period in boreal summer through modulation of quasi-2-day wave: A signature of interhemispheric coupling	A. Guharay
8	NSSS2026ABS493	Intensification of the tropospheric warming and weakening of the lower stratospheric cooling: Insights from long-term (1980-2024) multi data sets	A. Kalyan Teja
9	NSSS2026ABS698	Development of AI/ML based electron density model for Indian low latitudes	P. Pavan Chaitanya

Short oral presentations

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SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS488	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
2	NSSS2026ABS294	Observational and Modelling Analysis of Thermospheric Nitric Oxide Emission During July 2004 Series of Geomagnetic Storms using	Shrivansh Panwar

		TIMED-SABER and TIE-GCM	
3	NSSS2026ABS266	Role of Coupled Electrodynamics of E- and F- Regions on the Rapid Poleward Extension of EMSTID Fronts	Dipjyoti Patgiri
4	NSSS2026ABS357	Parameterisation of the Inertial Gravity Waves in the Upper Troposphere and Lower Stratosphere region over the Monsoon Core Zone	Aditya Jaiswal
5	NSSS2026ABS693	Development of new data analysis tool for DPS-4D digisonde observations for low-latitude ionospheric research	G. Janardana Reddy

Technical Session-7 (1415 - 1600 Hrs)

Chair: Dr. Nirvikar Dashora

Co-Chair: Dr. R. N. Ghodpage

Oral Presentations

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS671	Experimenting with ground chain of GNSS and NavIC receivers in the Indian Sector: Salient features and research highlights	Nirvikar Dashora
2	NSSS2026ABS111	Validation of JAGUAR-DAS Whole Neutral Atmosphere Reanalysis JAWARA Zonal Winds with Independent Rocket Soundings from a tropical site	N. Koushik
3	NSSS2026ABS604	Background removal of satellite measurements for gravity wave analysis using a new python-based toolbox – GLOFI	Arun Jo Mathew
4	NSSS2026ABS474	Response of Equatorial and Low Latitude Thermosphere-Ionosphere to the Geomagnetic Storm of 01 January 2025	Manu T
5	NSSS2026ABS299	Gravity Wave Observations in the Mesosphere and Lower Thermosphere Using Medium Frequency Radar Over Kolhapur, India	H. P. Gaikwad
6	NSSS2026ABS571	New results on Midnight Temperature Maximum (MTM) obtained using Fabry-Perot Interferometer (FPI) from Thumba, a low latitude Indian station	Md Mosarraf Hossain
7	NSSS2026ABS616	Ionospheric irregularities during low solar June solstice	Soujan Ghosh

Short oral presentations

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SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS167	Towards High-Resolution 3D Lightning Flash	Jayant

		Mapping: Development of Short-Baseline Array and Field Experiments	Chouragade
2			
3	NSSS2026ABS624	Mesospheric dynamics using spectroscopic and imaging ground-based observations of OH(3-1) nightglow emission in the SWIR region	Ravindra. P. Singh
4	NSSS2026ABS165	Signature of intraseasonal oscillations during Hunga Tonga volcanic eruption.	A. Chaurasia
5	NSSS2026ABS499	Long-term characteristics of vertical air motion over the gateway of Indian summer monsoon using 205 MHz Stratopshere-Troposphere Radar	Nabarun Poddar
6	NSSS2026ABS577	Latitudinal Ionospheric Response to the Expansion of High-Latitude Convection During Geomagnetic Disturbances	Kshitiz Upadhyay
7	NSSS2026ABS707	Impact of sudden stratospheric warming events on ionospheric F2 region at low mid latitude Indian station, New Delhi.	Qadeer Ahmed

Poster presentations

SN	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS149	Study of the characteristics of Mesospheric Bores at the Indian Equatorial Station, Tirunelveli	Jennifer A
2	NSSS2026ABS167	Towards High-Resolution 3D Lightning Flash Mapping: Development of Short-Baseline Array and Field Experiments	Jayant Chouragade
3	NSSS2026ABS165	Signature of intraseasonal oscillations during Hunga Tonga volcanic eruption.	A. Chaurasia
4	NSSS2026ABS499	Long-term characteristics of vertical air motion over the gateway of Indian summer monsoon using 205 MHz Stratopshere-Troposphere Radar	Nabarun Poddar
5	NSSS2026ABS643	Determination of Electron Energy Distribution Function (EEDF) and Magnetic Confinement in Low-Temperature Plasmas using Single Langmuir probe	Pallab Gogoi
6	NSSS2026ABS693	Development of new data analysis tool for DPS-4D digisonde observations for low-latitude ionospheric research	G. Janardana Reddy
7	NSSS2026ABS568	Machine Learning Insights into Seasonal and Solar Cycle Variations of CO ₂ Cooling in the Upper Atmosphere	Dayakrishna Nailwal
8	NSSS2026ABS624	Mesospheric dynamics using spectroscopic and imaging ground-based observations of OH(3-1) nightglow emission in the SWIR region	Ravindra. P. Singh
9	NSSS2026ABS488	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

10	NSSS2026ABS294	Observational and Modelling Analysis of Thermospheric Nitric Oxide Emission During July 2004 Series of Geomagnetic Storms using TIMED-SABER and TIE-GCM	Shrivansh Panwar
11	NSSS2026ABS707	Impact of sudden stratospheric warming events on ionospheric F2 region at low mid latitude Indian station, New Delhi.	Qadeer Ahmed
12	NSSS2026ABS266	Role of Coupled Electrodynamics of E- and F- Regions on the Rapid Poleward Extension of EMSTID Fronts	Dipjyoti Patgiri
13	NSSS2026ABS357	Parameterisation of the Inertial Gravity Waves in the Upper Troposphere and Lower Stratosphere region over the Monsoon Core Zone	Aditya Jaiswal
14	NSSS2026ABS577	Latitudinal Ionospheric Response to the Expansion of High-Latitude Convection During Geomagnetic Disturbances	Kshitiz Upadhyay

Day-5 (27.02.2026)

Technical Session-8 (1145 - 1315 Hrs)

Chair: Dr. Duggirala Pallamraju

Co-Chair: Dr. Vikas Dubey

Oral Presentations

S N	Abstract ID	Title of Abstract	First Author
1	NSSS2026ABS466 (Lead talk)	Multi-technique observations of changes in the upper atmospheric phenomena during the two severe geomagnetic storms of May and October 2024	Duggirala Pallamraju
2	NSSS2026ABS808	Statistical Evaluation of Precise Point Positioning Accuracy under Geomagnetic Disturbances: Insights from ROTI and Solar Wind Data over Indian Antarctica Stations	Ipsita Katual
3	NSSS2026ABS634	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
4	NSSS2026ABS492	Meteor Echo Characteristics, Mean Winds, and Tides Observed Using Long-Term (11-years) SVU Meteor Radar Observations	A. Kalyan Teja
5	NSSS2026ABS310	Long term variations in Brewer Dobson Circulation using ERA5 Reanalysis Data	R Lakshana
6	NSSS2026ABS482	First Insights into Unveiling Altitude-Specific Dynamics of Ionosphere-Thermosphere using Dual-Peak Green Line Dayglow Emissions	Komal
7	NSSS2026ABS727	Analysis of Tropical Stratospheric Ozone Layer Recovery Using Adaptive Trend Methods and inflection year detection.	Chhabeel Kumar