

List of accepted abstracts for Oral Presentation in NSSS-2024

Abstract ID	Authors	Affiliation(s)	Topic	Email Address
PS1-O-01	Vibin Jose, Anantharaman Chandrasekar	Indian Institute of Space Science and Technology	To investigate the relationship between extreme soil moisture and extreme precipitation events over India using Event Coincidence Analysis method.	vibinjose20@gmail.com
PS1-O-02	D. Bala Subrahmanyam	Space Physics Laboratory, Vikram Sarabhai Space Centre, Department of Space, Government of India, Indian Space Research Organisation, Thiruvananthapuram - 695022	Unveiling Diurnal Metamorphosis in the Atmospheric Boundary Layer during an Annular Solar Eclipse through Large Eddy Simulations	subrahmanyam@gmail.com
PS1-O-03	Govindan Kutty and Babitha George	Indian Institute of Space Science and Technology	Optimal Locations for Satellite Observations for Forecast Error Reduction Estimated Using Ensemble Sensitivity Analysis	govind@iist.ac.in
PS1-O-04	Devajyoti Dutta, Ashish Routray, V.S. Prasad	National Centre for Medium Range Weather Forecasting	Assessing the Potential Impacts of Assimilating Himawari-9 and Meteosat-9 Satellite Radiance with the 4DVAR Method in NCUM-R DA system over the Indian region	devankaster@gmail.com
PS1-O-05	A. Sabarinath, T. Kesavavarthini, Meera M. Nair, A. Naga Rajesh	(1) Department of Physics and Nanotechnology, Faculty of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu-603203, India. (2) Centre for Atmospheric Sciences and Climate Studies (TROPIC), Faculty of Engineering and Technology, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu 603203, India.	Bias correction of CMIP6 GCMs' Simulations of Surface Air Temperature and Precipitation over monsoon core region of India using Deep Learning Algorithms	nagaraja@srmist.edu.in
PS1-O-06	Vaibhav Tyagi(1), Saurabh Das(1), Bipasha Paul Shukla(2) and Sukanta Kumar Das(2)	(1) Department of Astronomy, Astrophysics and Space Engineering, Indian Institute of Technology Indore and (2) Atmospheric Sciences Division, Space Applications Centre (SAC), ISRO	Single or double monsoon onset in 2023? - An investigation using OSCAT3	phd2201121012@iiti.ac.in
PS1-O-07	Nithya K , Aneesh S , S Sijikumar	1. Space Physics Laboratory, Vikram Sarabhai Space Centre, India. 2. Centre for Climate Physics, Institute for Basic Science, Busan, South Korea	Future projections of interannual variability of monsoon circulation over South Asia using CESM2 large ensemble simulations	nithyanarayanan15@gmail.com
PS1-O-08	Alok Taori, Venkatesh Degala, Mallikarjun and Arun Suryavanshi	National Remote Sensing Center, ISRO, Hyderabad.	Quantitative Assessment of Lightning Detection Precision: A Comparative Analysis of Space-Borne (LIS) and Ground-Based (LDS) Sensors in India	alok.taori@gmail.com
PS1-O-09	Ritabrata Mukhopadhyay, Manisha Vithalpur, Smitha Ratheesh	Indus University, SAC-ISRO	Understanding the coupled bio-physical interaction in the Bay of Bengal using OCM-3 and OSCAT datasets onboard Oceansat-3	ritmukh10@gmail.com

PS1-O-10	Gowtham Krishna, Usman N, Anju Kumari, Ibrahim Shaik, P.V. Nagamani, Padma Kumari	National Remote Sensing Centre (NRSC), Hyderabad	Assessment of Satellite derived Global Surface Ocean Total Alkalinity (TA) fields	haridasharitha1996@gmail.com
PS1-O-11	Alvarinho J. Luis and K. Gurumoorthi	National Centre for Polar and Ocean Research, MoES, Headland Sada, Goa-403 804,	Marine Heat Waves in the Southern Ocean and their role in modulating sea ice and air-sea interaction	alvluis1@gmail.com
PS1-O-12	Venugopal Thandlam1, Venkatramana Kagitha2,5, Anna Rutgersson1, Hasibur Rahaman3, Mounika Yabaku4 Venkatramana Reddy Sakirevupalli5	Department of Physics, Sri Venkateshwara University, Tirupati, India.	Imputation of Global Tropical Oceanic Radiative Observations with CERES Satellite Data using Dense BiLSTM Fusion Model	k.venkatramana007@gmail.com
PS1-O-13	Smitha Ratheesh, Jishad M, Vivek V Rajiv, Neerja Sharma, Neeraj Agarwal, and Rashmi Sharma	Space Applications Centre, Ahmedabad	Noise induced errors in Space based sea surface salinity measurement: An Observing System Simulation Experiments	simikg83@gmail.com
PS1-O-14	Adith V.B, V.P. Akhil, Gautham. S, V. Sanil Kumar	CSIR-NIO, Dona Paula, Goa; SEOAS, Goa University, Taleigao-Plateau, Goa, India	Role of Atmospheric Heat-Flux in Modulating the Northern Arabian Sea Spring Bloom	adithvb000@gmail.com
PS1-O-15	U Anjana, K Kishore Kumar	Space Physics Laboratory, VSSC Trivandrum	Impact of Hadley Circulation Expansion on the Distribution of Marine Stratocumulus Clouds over its Descending Limbs	anjanasplvssc@gmail.com
PS1-O-16	Maya Raghunath Suryawanshi1*, Amin Shakya2, Sharad Chander3, Bhaskar R. Nikam4, Nagesh Kumar Dasika5, and Bramha Dutt Vishwakarma1,6	1Interdisciplinary Centre for Water Research, Indian Institute of Science, India, 2Faculty of Geo-Information Science and Earth Observation, University of Twente, the Netherlands, 3Land Hydrology Division, Space Applications Centre, Indian Space Research Organisation, India, 4Indian Institute of Remote Sensing, Indian Space Research Organisation, India, 5Department of Civil Engineering, Indian Institute of Science, India, 6Centre for Earth Sciences, Indian Institute of Science, India	Statistical downscaling of GRACE total water storage changes over India	maya2509.surya@gmail.com
PS1-O-17	Basivi Radhakrishna, Thota Narayana Rao, and Gubbala Sai Venkata Chandrakanth	National Atmospheric Research Laboratory, Department of Space, Govt. of India, Gadanki - 517112, India	Total Column Water Vapor from INSAT-3D: Assessments with Ground-Based GNSS receivers and GMI Datasets at Different Temporal Scales	raki@narl.gov.in
PS1-O-18	Ahana Mukhopadhyay, Charu Singh	Indian Institute Of Remote Sensing, ISRO, Dehradun	Identification of essential climate variables as precursors of extreme rainfall event over uttarakhand from high-resolution & multi-temporal geostationary satellite data	amukhopadhyay22@gmail.com
PS1-O-19	Kaustav Chakravarty, Rohit Patil, Gargi Rakshit and G.Pandithurai	IITM Pune (For KC, RP, GP) and IMD, New Delhi (GR)	Testbeds for Rainfall Microphysics: Unravelling the features of thunderstorm rainfall for 10 contrasting regions of India	kaustav@tropmet.res.in

PS1-O-20	V. Yesubabu, J. R. Rajeswari, C. V. Srinivas, B. Venkatraman	National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh, India; Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamilnadu, India	Impact of land surface changes and urbanization on simulation of extreme rainfall events over the southeast coast of India	yesubabu@narl.gov.in
PS1-O-21	Nitig Singh(1*), Vaibhav Tyagi(1), Lekhraj Saini(1), Saurabh Das(1) Sachin M. Deshpande(2) and U.V. Murali Krishna(2)	Indian Institute of Technology Indore (1), Madhya Pradesh Indian Institute of Tropical Meteorology, ART-Bhopal, Madhya Pradesh, India (2)	An Investigation of an exceptionally heavy rainfall event over Indore, India from 15th-17th September 2023	ms2104121003@iiti.ac.in
PS1-O-22	Som Sharma, Dharmendra Kamat, P. Kumar, Aniket and S. Saha	Physical Research Laboratory, Ahmedabad, India; Space Applications Centre, Ahmedabad, India; Scripps Institutions of Oceanography, California, USA	Investigations of Atmospheric Clouds and Boundary Layer over India using Ground-based Lidars	somkumar@prl.res.in
PS1-O-23	M. Suresh Kumar, V. Keerthi, T. Radhika, M. Manju Sarma	National Remote Sensing Centre, Hyderabad	Exploring the Impact of Stubble Burning on Land Surface Albedo (LSA) in India and its Climate Ramifications	suresh.nrsc.1857@gmail.com
PS1-O-24	Manoj K Mishra, Pradyuman S Rathore, Raj Kumar	Space Applications Centre, ISRO, Ahmedabad, Gujarat, 380015.	Advancing Aerosol Monitoring Indigenously: Oceansat-3 OCM Aerosol Product for High Resolution Air Quality Assessment over Indian Landmass.	manoj.qit@gmail.com
PS1-O-25	Aakash Kumar, P. R. Sinha, Vijayakumar S. Nair	1. Indian Institute of Space Science and Technology Thiruvananthapuram, 2. Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram	Contrasting Aerosol-Cloud Interaction for Non-precipitating Warm Clouds over the Eastern and Western Indo-Gangetic Plains	tiwari45ak@gmail.com
PS1-O-26	Shani Tiwari, Harshbardhan Kumar	1Aerosol & Cloud Research Lab, CSIR- National Institute of Oceanography Dona Paula, Goa, India 2Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, 201002, India	Space-borne measurement of aerosol, cloud and their interaction over Northern Indian Ocean	stiwari@nio.org
PS1-O-27	Mukunda M. Ggogoi (1), S. Suresh Babu (1), R. Imasu (2) and M. Hashimoto (3)	(1) Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, India; (2) Atmosphere and Ocean Research Institute, The University of Tokyo, Japan; (3) Earth Observation Research Center, Japan Aerospace Exploration Agency, Japan	Measurements and Remote Sensing of Aerosol Black Carbon over India: Regional Characteristics	mukunda.mmg@gmail.com
PS1-O-28	Sobhan Kumar Kompalli, Nithin Babu, Mukunda M Gogoi, Vijayakumar S Nair, S. Suresh Babu	1Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India	Light-absorption enhancement of black carbon aerosols due to alterations to the mixing state in the South Asian outflow	sobhanspl@gmail.com
PS1-O-29	Vijayakumar S Nair and S Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala	Effects of Aerosols on the Elevation Dependent Warming over the Himalayan-Tibetan region	vijayakumarsnair@gmail.com
PS1-O-30	Atiba A. Shaikh and Harilal B. Menon	Remote Sensing Laboratory, School of Earth, Ocean and Atmospheric Sciences, Goa University.	Spatial distribution of aerosols over the Tropical Indian Ocean: A study from IInd International Indian Ocean Expedition-II (IIOE-II)	atibashaikh123@gmail.com
PS1-O-31	Renju Nandan and M Venkat Ratnam	National Atmospheric Research Laboratory	Investigation on Aerosol-Cloud Interaction In Water Clouds Using Ground-Based, In-Situ, And Satellite-Based Observations	renjurahul1@gmail.com
PS1-O-32	V. Ravi Kiran and M. Venkat Ratnam	National Atmospheric Research Laboratory (NARL)	Balloon-borne aerosol-cloud interaction studies (BACIS): field campaigns to understand and quantify aerosol effects on clouds	varaharavi@gmail.com

PS1-O-33	Arup Borgohain ¹ , Manasi Gogoi ² , Arundhati Kundu ^{1,3} , Shyam S. Kundu ¹ , Arban S Youroi ⁴ , Rohit Goutam ² , Pradip K. Bhuyan ² , Binita Pathak ² , Kalyan Bhuyan ² , Abhishek Charri ⁴ , Aniket Chakravorty ¹ , S P Aggarwal ¹	1North Eastern Space Applications Centre, Dept. of Space, Govt. of India, Umiam, Meghalaya - 793103, India 2Centre for Atmospheric Studies, Dibrugarh University, Dibrugarh, Assam-786004, India 3Department of Physics, Cotton University, Guwahati, Assam-781001, India 4Department of Physics, Gauhati University, Assam 4Space Applications Centre, Jodhpur Tekra, AmbawadiVistar P.O., Ahmedabad - 380015	Vertical Distribution of Black Carbon and its interaction with the Atmospheric Boundary Layer along the Brahmaputra Valley of Assam	arupborgohain@nesac.gov.in
PS1-O-34	Ashwini Kumar*, Garima Shukla, Ravindra Prasad Sharma	CSIR-National Institute of Oceanography, Dona Paula, Goa, India	Macro-Nutrients associated with organic fraction of aerosols over the over the northeast Arabian Sea	ashwinik@nio.org
PS1-O-35	Dr. Priyanka Srivastava ^{1,2} , Dr. Manish Naja ¹ , Dr Hema Joshi ³ , Prof T.R. Seshadri ² , Dr. Mukunda M Gogoi ⁴ , Dr S. Suresh Babu ⁴ , Dr P. Bhardwaj ⁵ , Dr R Kumar ⁶	1Aryabhata Research Institute of Observational Sciences (ARIES), Nainital, India Uttarakhand, India. 2National Institute of Environmental Studies, Tsukuba, Japan. 3Indian Institute of Technology, Kanpur, Uttar Pradesh, India. 4Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala, India. 5Center for Study of Science, Technology and Policy (CSTEP), Bengaluru, India 6National Center for Atmospheric Research (NCAR), Boulder, USA	Carbonaceous aerosols over the Central Himalayas: results from 17 years of ground-based measurements.	manish@aries.res.in, srivastava.priyanka@nies.jp.jp
PS1-O-36	L. K. Sahu ^{1*} , Mansi Gupta ^{1,2} , Nidhi Tripathi ³ , Ravi Yadav ⁴ , T.G. Malik ¹	1Physical Research Laboratory (PRL), Navrangpura, Ahmedabad - 380009, India 2Indian Institute of Technology Gandhinagar Palaj, Gandhinagar - 382055, Gujarat, India 3Max Planck Institute for Chemistry, Hahn-Meitner-Weg 1, 55128 Mainz, Germany 4Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, Beijing, 100084, China	Understanding of emission and atmospheric processes of reactive trace gases over the Indian subcontinent and surrounding oceanic regions: A synthesis of comprehensive field measurements	lokesh@prl.res.in
PS1-O-37	Imran A. Girach ^(1,2*) , N. Ojha ⁽³⁾ , P.R. Nair ^(4,2) , K.V. Subrahmanyam ^(5,2) , N. Koushik ⁽⁶⁾ , M.M. Nazeer ⁽⁶⁾ , N.V.P. Kiran Kumar ⁽⁶⁾ , S.S. Babu ⁽⁶⁾ , J. Lelieveld ⁽⁷⁾ , and A. Pozzer ^(7,8)	(1) Space Applications Centre, Indian Space Research Organisation, Ahmedabad, India (2) Formerly at Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram 695022, India (3) Space and Atmospheric Sciences Division, Physical Research Laboratory, Ahmedabad, India (4)TC 95/1185, Aiswarya Gardens, Kumarapuram, Thiruvananthapuram, India (5)National Remote Sensing Centre, Indian Space Research Organisation, Hyderabad, India (6) Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India (7) Department of Atmospheric Chemistry, Max Planck Institute for Chemistry, Mainz, Germany (8) Climate and Atmosphere Research Center, The Cyprus Institute, Nicosia, Cyprus	Atmospheric processes governing the surface ozone variability over East Antarctica during austral summer	imran.girach@gmail.com

PS1-O-38	Chandrima Shaw, Siddhartha Sarkar, Sanjeev Kumar, and Neeraj Rastogi	Geosciences Division, Physical Research Laboratory, Ahmedabad-380009, India	Photo-degradation of Plastics Present in the Environment can be a Significant Source of CO ₂ and CH ₄ : A Pilot Laboratory Study	nrastogi@prl.res.in
PS1-O-39	Mahendar Chand Rajwar	Aryabhata Research Institute of observational sciences (ARIES), Nainital	Studies of Non-Methane Hydrocarbons (NMHCs) in Ambient Air over the Central Himalayan and Associated Regions	mahendar@aries.res.in
PS1-O-40	N. Ojha, S. Harithasree, M. Soni, I. Girach, N. Singh, L. K. Sahu	Physical Research Laboratory, Ahmedabad; Indian Institute of Technology, Gandhinagar, Gujarat; Space Applications Centre, Indian Space Research Organisation, Ahmedabad; Aryabhata Research Institute of Observational Sciences, Nainital	Impact of natural and anthropogenic processes on atmospheric composition over South Asia: Regional modeling perspective	ojha@prl.res.in
PS1-O-41	P Yasodha, T Narayana Rao, A K Patra	National Atmospheric Research Laboratory, Dept of Space, Govt of India, Gadanki	Design, Development and Validation of 445 MHz wind profiling radar at NARL	pyasoda@narl.gov.in
PS1-O-42	S.Anoop, Rabindra K. Nayak, M.V. Ramana	National Remote Sensing Centre, ISRO	Unveiling the Dependency of Vegetation Optical Depth at Different Microwave Frequencies over Indian region	raosanoop@gmail.com
PS1-O-43	Puja Kakkar, Devang Mankad, Abhisek Chakraborty, Qamer Saquib, Mayur Dahyabhai Chopda, Krishna Murari Agrawal, V Manavala Ramanujam	Space Applications Centre, ISRO, Ahmedabad, India	EOS-06 Scatterometer Data Products: Contributions into the Global Synoptic Weather Observations	pujasuri@sac.isro.gov.in
PS1-O-44	Kirankumar N.V.P(1) and Lavanya S(2)	1)Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala-695022; 2)House number A17,NSS Lane, Valiyavila, Thirumala PO, Thiruvananthapuram, Kerala-695006	Altitudinal variation of raindrop size distribution during stratiform rain over a tropical coastal station	kirannvp@gmail.com
PS1-O-45	A. Araravindhavel, P. Murugavel, Mahen Konwar, Soumya Samanta and Thara Prabakaran1	Indian Institute of Tropical Meteorology, Pune	A Comparative study of Quantitative Precipitation Estimation using Polarimetric C-Band Radar and Rain Gauge Network over the Rain Shadow Region of Western Ghats	aravindhavel@tropmet.res.in
PS1-O-46	Aryan Bhardwaj, G Devendhar, and Rakesh Sharma	National Institute of Technology Hamirpur, Himachal Pradesh, India	Urban Change Detection in Polarimetric SAR Images using Geodesic Distance with PCA and K-means Clustering Approach	22mec103@nith.ac.in
PS1-O-47	Soma Satya Praveen Mutyala*; Suraj Reddy Rodda; Rajashekar G	National Remote Sensing Centre, ISRO, India	GROSS PRIMARY PRODUCTIVITY IN INDIAN TROPICAL DRY-DECIDUOUS FORESTS ESTIMATED BY DIFFERENT REMOTE SENSING MODELS	mutyala45@gmail.com
PS1-O-48	Hasmukh K. Varchand*, Mehul R. Pandya, Jalpesh A. Dave, Parthkumar N. Parmar, Dhiraj B. Shah, Vishal N. Pathak, Dhruv D. Desai, Manoj Singh, Himanshu J. Trivedi	N. V. Patel College of Pure and Applied Sciences, CVM University, Vallabh Vidyanagar, 388120, Gujarat, India; Space Applications Centre (SAC), Indian Space Research Organisation (ISRO), Ahmedabad 380015, Gujarat, India; Sir P. T. Sarvajani College of Science, Veer Narmad South Gujarat University, Surat 395001, Gujarat, India.	Hyperspectral Satellite-based Detection of Carbon Dioxide Emissions Over Indian Thermal Power Plants Using Radiative Transfer Modelling	hasmukhahir782@gmail.com

PS1-O-49	S. S. Prijith, A. K. Athul and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre Indian Space Research Organisation	Retrieval of aerosol optical depth from EOS-06 Ocean Color Monitor 3 over the oceanic regions around Indian subcontinent	prijithss@gmail.com
PS1-O-50	Amit P Kesarkar, Jyoti N Bhate, Subhrajit Rath, Debojit Sarkar, and Kavita Patnaik	National Atmospheric Research Laboratory, Gadanki, Tirupati District, Andhra Pradesh 517112, India	Monte-Carlo-Line by Line Radiative transfer over polyhedron geodetic grids: simulations of heating and cooling rates.	amit@narl.gov.in
PS1-O-51	Aswathy R S and K Rajeev	Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, Kerala and Department of Physics, University of Kerala	Direct Observations of the Global Distribution, Sources and Properties of Tropical Clouds Occurring Above the Tropopause	aswathyrsspl@gmail.com
PS1-O-52	A Hemanth Kumar, M. Venkat Ratnam, Venkat Subrahmanyam K, Prasad P	National Atmospheric Research Laboratory, Dept. of Space, Gadanki, India, Centre for Atmospheric Sciences and Climate Studies, SRMIST, Chennai, National Remote Sensing Centre (NRSC), Hyderabad, Indian Institute of Tropical Meteorology (IITM), Pune.	Role of deep convection on the spatial asymmetry of the UTLS aerosols in the Asian summer monsoon anticyclone region	hemantha1@srmist.edu.in
PS1-O-53	B. L. Madhavan and M. Venkat Ratnam	National Atmospheric Research Laboratory (NARL), Gadanki	Characteristics of Stratospheric Aerosols during the Volcanic Eruptions using the SAGE III/ISS Observations	madhavanbomidi@gmail.com
PS1-O-54	P. R. Satheesh Chandran, S. V. Sunilkumar	Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum-695022, India	Tracer Distribution in the Upper Troposphere and Lower Stratosphere Region during Active and Break Phases of the Asian Summer Monsoon: Role of Deep Convection and Dynamics	mesatheeshchandranpr@gmail.com
PS1-O-55	P. P. Musaid ¹ , Sanjay Kumar Mehta ¹ , Susann Tegtmeier ² , Masatomo Fujiwara ³ , Someshwar Das ⁴	¹ Atmospheric Observations and Modelling Laboratory (AOML), Dept. of Physics, SRM Institute of Science and Technology, Kattankulathur, 603203, India ² Institute of Space and Atmospheric Studies, University of Saskatchewan, Saskatoon, SK, Canada ³ Faculty of Environmental Earth Science, Hokkaido University, Sapporo 060-0810, Japan ⁴ South Asian Meteorological Association (SAMA), New Delhi, India	Transport processes associated with the Asian Summer Monsoon Anticyclone: Relative Role of Convection and Advection	musaidpp@gmail.com

List of accepted abstracts for Poster Presentation in NSSS-2024

PS1-P-01	Jayant chouragade, T.V.Chandrasekhar Sarma	National Atmospheric Research Laboratory, Dept. of Space, Govt. of India	A High-Resolution Two-Dimensional Lightning-Flash Mapping System	jayant@narl.gov.in
PS1-P-02	Abhinav B Roy; Pramitha M	IISER Thiruvananthapuram	Estimation of Boundary Layer Height and Cloud Base Height over a Western Ghat region	abhinavbroy19@iisertvm.ac.in
PS1-P-03	Adarsh Dube, Rajesh Singh	India Meteorological Department	Probing a post monsoon Mesoscale Convective System and upward electric discharges over Indian Low Latitude Region	adarshdube92@gmail.com
PS1-P-04	Sandeep Wagh, Anriya Byju, P. Pradeep Kumar and Sachin D. Ghude	Indian Institute of Tropical Meteorology, Pune	Observational Study of the Dispersion of Warm Fog Droplet Spectrum	sdwagh31@gmail.com

PS1-P-05	Deveerappa Jagadheesha	Science Programme Office, ISRO Headquarters, Antariksh Bhavan, New BEL Road, Bangalore 560094,	Retrieval of water vapor information from Radio Refractivity profiles without any external information: Some Observations	jagadish@isro.gov.in
PS1-P-06	Jiteshwar Dadich, Amit P. Kesarkar, Jyoti Bhate, A. Chandrasekar	1.National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh, 517112. 2. Indian Institute of Space Science and Technology, Valiamala P.O., Thiruvananthapuram, 695547, Kerala.	SOIL-AIR INTERFACE SOLVER FOR ESTIMATION OF EVAPORATION LOSSES FROM DIFFERENT TYPES OF SOIL	jiteshnarl@gmail.com
PS1-P-07	T.V.ChandrasekharSarma, G. Naga Sai Madhavi, P. Sharath Kumar	National Atmospheric Research Laboratory	Soil Moisture measurement at high temporal resolution with Multi-constellation GNSS Interferometric Reflectometry	gnmadhavi@narl.gov.in
PS1-P-08	G. S. V. Chandrakanth, T. Narayana Rao, B. Radhakrishna	National Atmospheric Research Laboratory	Analysis of optimal number of GNSS Receivers and Field Type for Tomographic Inversion of Water Vapor Profiles	chandrakanth8995@gmail.com
PS1-P-09	Jaya Thakur, Rabindrakumar Nayak, Ramana MV, Prakash Chauhan	National Remote Sensing Centre	Satellite Observations of Enhanced Snow Accumulation from Moisture Deposition over Himalayas	shivali_v@nrsr.gov.in
PS1-P-10	Ranjan Kumar Deka, Rekha Bharali Gogoi, Abhishek Chhari, Puyam S Singh, Praveen Kumar, Rahul Kumar, Dibyajyoti Chutia, K. K. Sarma, S. P. Aggarwal	North Eastern Space Applications Centre	Probability of Thunderstorm Nowcasting through Deep Learning Technique using INSAT-3D Satellite Images	rkdekanielit@gmail.com
PS1-P-11	Kartheek Mamidi1*, Nithya K2, Vincent Mathew1, and Sijikumar S2	1Department of Physics, Central University of Kerala, India. 2Space Physics Laboratory, Vikram Sarabhai Space Centre, Indian Space Research Organisation, India.	Influence of mixed Rossby-gravity waves on the north-east monsoon rainfall over south India.	kartheek@cukerala.ac.in
PS1-P-12	Charu Singh, Anjana VS, Ahana Mukhopadhyay, Ashish Navale, Debangshu Banerjee, Vidhi Bharti	IIRS, ISRO, Dehradun	Observations and numerical model based study to unravel intricacies of monsoon rainfall characteristics over the North-West Himalayan region	charu@iirs.gov.in
PS1-P-13	M Santosh, V Sathiyamoorthy, Asish Kumar Ghosh	Space Physics Laboratory, Vikram Sarabhai Space Centre, Indian Space Research Organisation, Thiruvananthapuram, India	Effect of onshore winds on the coastal boundary layer over a semi-urban site in eastern India	santosh.spl.isro@gmail.com
PS1-P-14	Arup Borgohaina, Manasi Gogoi, Shyam S. Kundu, Arban Youroi, Rohit Gautamb, Arundhati Kundu, S.P. Aggarwala	North Eastern Space Applications Centre	ABL characteristics and climatology over NER using measurement and reanalysis data (1980-2020)	arup.borgohain@nesac.gov.in
PS1-P-15	V. Sathiyamoorthy, Swathi B and Sisma Samuel	Space Physics Laboratory, VSSC, ISRO	Climatological Characteristics of the Strong Boundary Layer Winds of the Palghat Gap	swathivssc@gmail.com

PS1-P-16	Sai Krishna V. S. Sakuru ¹ , K. Mallikarjun ^{1,*} , N.V.P. Kiran Kumar ² , and M.V. Ramana ¹	¹ Earth and Climate Sciences Area, National Remote Sensing Centre, Hyderabad ² Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram	Surface Roughness Parameters over a Semi-Arid Site near Hyderabad	mallikarjun_k@npsc.gov.in
PS1-P-17	Shravan Kumar Muppa and M. Mohapatra	India Meteorological Department	An Investigation on the Atmospheric Boundary Layer Structure, Height and Variation all over India: It's implication on the development of Numerical Weather Prediction Models	shravankumar.imd@gmail.com
PS1-P-18	KiranKumar NVP, Shirin Fathima PT, Sathiyamoorthy V and Sunil Kumar SV	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala, 695022	Diurnal evolution of atmospheric boundary layer structure over Mahendragiri	kirannvp@gmail.com
PS1-P-19	C M Pranav, Aditi R Unakal, Nanditha Subhash, Mrudula G	M S RAMAIAH UNIVERSITY OF APPLIED SCIENCE , CSIR- NATIONAL AEROSPACE LABORATORY	Weather over HAL and BIAL Airports: Analysis using Python and Shell Scripting	chikka.pranav@gmail.com
PS1-P-20	Aditi R Unakal, C M Pranav ,Nanditha Subhash,Mrudula G	M S RAMAIAH UNIVERSITY OF APPLIED SCIENCE , CSIR - NATIONAL AEROSPACE LABORATORY	Retrieval and Analysis of Meteorological Data at HAL Airport, Bangalore.	aditiunakal@gmail.com
PS1-P-21	Triparna Sett, Bhaskar R. Nikam	Indian Institute of Remote Sensing, ISRO	Evaluating Disruptions in the Hydrological Cycle in Indian Forest Ecosystems: Analysis of Drought Patterns, Water Use Efficiency, and Ecological Resilience	triparna35@gmail.com
PS1-P-22	Kandula V Subrahmanyam ¹ , Karanam Kishore Kumar ² , Manoj Kumar Mishra ³ , Pradeep Kumar Thapliyal ³ , Rabindrakumar Nayak ¹ , M.V. Ramana ¹ , Rajashree V Bothale ⁴ and Prakash Chauhan ¹	¹ National Remote Sensing Centre (NRSC), ISRO, Hyderabad, India ² Space Physics Laboratory, Vikram Sarabahi Space Centre, ISRO, Trivandrum, India ³ Space Application Centre (SAC), ISRO, Ahmedabad, India ⁴ Retd. Deputy Director, National Remote Sensing Centre (NRSC), ISRO, Hyderabad, India	Evaluation of Millimeter-wave Humidity Sounder onboard EOS-07 with global radiosonde measurements: preliminary results	kvs2k@gmail.com
PS1-P-23	1. Visuzoto Valeo, 2. Pramila Vinayak Koparkar	1. Department of Physics, Kohima Science College (Autonomous), Jotsoma-797002, Nagaland, India 2. Department of Basic Science and Social Sciences, North-Eastern Hill University, Shillong, 793022, Meghalaya, India	Analysis of potential gradient and point discharge current along with meteorological observations in Shillong, North Eastern India	visvaleo@gmail.com
PS1-P-24	Dhiraj B Shah	Assistant Professor	Optimal Land Surface Temperature Validation Site In Western Rajasthan For GISAT Sensor	dbs@ptscience.ac.in
PS1-P-25	Harvir Singh*, Anumeha Dube, Sakshi Sharma, Raghavendra Ashrit , Saji Mohandas, VS Prashad and Prashant Kumar Srivastava	National Centre for Medium Range Weather Forecasting (NCMRWF), MoES , Noida	Bias Correction in Ensemble Forecasting: A Machine Learning Perspective for Climate Prediction	harvir.ncmrwf@gmail.com

PS1-P-26	Chirag Wadhwa, Praveen K Gupta, Kamlesh Patel and Shard Chander	Space Applications Centre, Ahmedabad and Junagadh Agricultural University, Junagadh	Identification of Submarine Groundwater Discharge in the western coast of Gujarat using Remote Sensing Thermal analysis and Geo-electrical method	chirag1221@sac.isro.gov.in
PS1-P-27	Jalpesh A. Dave, Mehul R. Pandya, Dhiraj B. Shah, Hasmukh K. Varchand, Parthkumar N. Parmar, Dhruv Desai, Disha B. Kardani, Manoj Singh, Vishal N. Pathak, Ashwin Gujrati, Himanshu J. Trivedi	N.V. Patel College of Pure and Applied Sciences, CVM University, Vallabh Vidyanagar, Gujarat.; Space Applications Centre, Indian Space Research Organisation, Ahmedabad, Gujarat.; Sir. P. T. Sarvajani Science College, Veer Narmad South Gujarat University, Surat, Gujarat.	Agricultural Drought Monitoring in Western India using MODIS Observations	davejalpesh1996@gmail.com
PS1-P-28	B Sudarsan Patro1, Prashant P. Bartakke2	COEP TECHNOLOGICAL UNIVERISTY PUNE	Optimizing Extreme Weather Event Classification: Weather Data Preprocessing and Cluster-Based Techniques	sudarsan.imd@gmail.com
PS1-P-29	Aayushi Kochar, Bramha Dutt Vishwakarma	Centre for Earth Sciences, Indian Institute of Science, India, Interdisciplinary Centre for Water Research, Indian Institute of Science, India	Developing a data-driven Linear Time-invariant model for estimating soil moisture and irrigation water volume from precipitation	aayushik@iisc.ac.in
PS1-P-30	Pramit Kumar Deb Burman, Pinaki Das	Centre for Climate Change Research, Indian Institute of Tropical Meteorology, Ministry of Earth Sciences, Pune, India; Department of Atmospheric and Space Sciences, Savitribai Phule Pune University, Pune, India; Department of Geography, Savitribai Phule Pune University, Pune, India	Surface-atmosphere water exchange in a warmer environment over India	pramit.cat@tropmet.res.in
PS1-P-31	V.S.L Bhargavi, Dr. V. Brahmananda Rao, Dr. C.V Naidu	Andhra University	ANTARCTICA WARMING INDUCES ALARMING NEGATIVE IMPACT ON INDIAN SUMMER MONSOON RAINFALL	bhargavi.veesam@gmail.com
PS1-P-32	Edwin Borrison , A Chandrasekar	Indian Institute of Space Science and Technology, Thiruvananthapuram	Using Event Coincidence Analysis on ERA5 Reanalysis Data to Investigate the Impact of Soil moisture on Surface air temperature, Precipitation and Radiation across the Indian Region	edwinborrison@gmail.com
PS1-P-33	Arpita Muni. Amit Kesarkar, Jyoti Bhate, Abhishek Panchal	Research Associate	Rapidly intensified, long duration North Indian Ocean tropical cyclones: Mesoscale downscaling, validation, and important dynamical-thermodynamical features.	muni.arpita@gmail.com
PS1-P-34	Nithya K, S Sijikumar, Aneesh S	1. Space Physics Laboratory, Vikram Sarabhai Space Centre, INDIA 2. Centre for Climate Physics, Institute for Basic Science, Busan, South Korea	Rainfall Trend over South India during different seasons: An assessment of present and distinct future scenarios	nithyanarayanan15@gmail.com
PS1-P-35	Sakshi Sharma1, Arun Chakraborty1 Anumeha Dube2, Harvir Singh2, Abhishek Kumar1, and Raghavendra Ashrit2	1 Centre for Ocean, River, Atmosphere and Land Sciences (CORAL) Indian Institute of Technology, Kharagpur, West Bengal, India-721302 2 National Centre for Medium Range Weather Forecasting, Ministry of Earth Sciences, A-50, Sector-62, Institutional Area Phase-II, NOIDA 201309, Uttar Pradesh, India	Heat Wave Intensification Linked to Mocha Cyclone: Implications for Climate Change	sakshi.sharma@kgpian.iitkgp.ac.in

PS1-P-36	Anriya Byju, Dr Sandeep Wagh	Savitribai Phule Pune University, Department of Atmospheric Sciences	Understanding and Unravelling the Role of PBL in Urban Fog: A Case of WifEX at New Delhi.	byjuanriya@gmail.com
PS1-P-37	Binita Pathak, Partha J Sahu, Tamanna Subba, Papori Dahutia, Anindita Borah, Ajay P., Mukunda Madhab Gogoi, Som Kumar Sharma, S Suresh Babu, Kalyan Bhuyan, Pradip Kumar Bhuyan	Centre for Atmospheric Studies, Dibrugarh University, Dibrugarh, 786004, India, Department of Physics, Dibrugarh University, Dibrugarh, 786004, India, Environmental and Climate Sciences Department, Brookhaven National Laboratory, Upton, 11972, United States, National Center for Atmospheric Research (NCAR), Colorado, 80307, USA, Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, 695022, India, Physical Research Laboratory, Ahmedabad, 380054, India	Characterization of Atmospheric Boundary Layer over Dibrugarh using ground based remote sensing techniques	partha71998@gmail.com
PS1-P-38	Sonali Maurya, A. Chandrasekar, Sambhu KV Namboodiri	IIST and VSSC, ISRO	Partitioning the Atmospheric Boundary Layer Flow using Wavelets	smauryavssc@gmail.com
PS1-P-39	Rahul Sheoran and U.C. Dumka	1 Aryabhata Research Institute of Observational Sciences (ARIES)	A New Prewhitening Method for Trend Detection in the atmospheric Time Series	sheoranrahul532@gmail.com
PS1-P-40	Sarvesh Chandra 1, C.P. Anil Kumar 1, C. Panneerselvam 1, C. Selvaraj 1, J. Arul Asir 2 and M.K. Sheriff 3	1) Equatorial Geophysical Research Laboratory, Indian Institute of Geomagnetism, Krishnapuram, Tirunelveli, Tamil Nadu, India - 627011, 2) Dept. of Physics, Popes College, M. S. University, Tirunelveli, Tamil Nadu, India - 628251, 3) Dept. of Physics, Central University of Kerala, Kasargod, Kerala, India - 671320	Analysis of thunderstorms associated with ASANI cyclone observed from Tirunelveli (8.7 N, 77.8 E)	Indian Institute of Geomagnetism, Krishnapuram, Tirunelveli-627012, Tamil Nadu, India
PS1-P-41	Mari Riba, A Chandrasekar	Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram	To Evaluate the Impact of Assimilating SMAP Soil Moisture over the Indian Domain Using Noah 3.6 Land Surface Model (LSM) within the Land Information System Framework (LISF)	maririba14@gmail.com
PS1-P-42	Swetha S, K.V. Ramesh	1. Earth and Engineering Sciences division, Council of Scientific and Industrial Research-Fourth Paradigm Institute (CSIR-4PI), Bengaluru-560037, Karnataka, India. 2. Academy of Scientific and Innovative Research (AcSIR), Ghaziabad - 201002, India	Assessing Post-Cyclone Devastation Along the East Coast of India During the North-East Monsoon Season: A MODIS Data Analysis	swetha.s2060@gmail.com
PS1-P-43	Aniket Chakraborty, Binita Pathak, Pradip Kumar Bhuyan	1) Centre for Atmospheric Studies, Dibrugarh University, Dibrugarh, Assam; 2) Department of Physics, Dibrugarh University, Dibrugarh, Assam	Cloud-based Spatial Evaluation of the Relation between the Soil Moisture and Land Surface Temperature from Landsat using the Google Earth Engine for the North-Eastern States of India	rs_aniketchakraborty@dibru.ac.in
PS1-P-44	Anindita Borah, Binita Pathak, Pradip Kumar Bhuyan	Dibrugarh University	Trends of actual evapotranspiration as a response of climate variability and vegetation cover change over the North East India	borahanindita97@gmail.com
PS1-P-45	Soumen Mondal, Ramkrishna Das, Tapas Baug, Soumita Chakraborty	S. N. Bose National Centre for Basic Sciences, Kolkata, India	Investigation of Meteorological Parameters on S.N. Bose Astronomical Observatory at Panchet Hilltop, Purulia	soumitach25@gmail.com

PS1-P-46	Niki Gogoi, Kalyan Bhuyan, Binita Pathak, Pradip Kumar Bhuyan	Department of Physics, Dibrugarh University, Dibrugarh, 786004, Assam, India ;Centre for Atmospheric Studies, Dibrugarh University, Dibrugarh, 786004, Assam, India	Exploring the Interplay: Climate Variability and Kharif Rice Yield in Northeastern India	rs_nikigogoi@dibru.ac.in
PS1-P-47	Arun Jangra, Anuhya Kumari, Thejas K. V., Sam P. Raj, Shivali Verma, Sai Krishna V. S. Sakuru, M. V. Ramana, and P. R. Sinha	Indian Institute of Space Science and Technology, thiruvananthapuram and National Remote Sensing Centre, hyderabad	Thunderstorm linkage with cloud top temperature, upper tropospheric humidity, and precipitation rate at multiple IMD locations during 2018 over Kerala	jangirarun2001@gmail.com
PS1-P-48	Pratibha Gautam ^{1, 2} , Rajib Chattopadhyay ^{1, 3} , Gill Martin ⁴ , Susmitha Joseph ¹ , A.K. Sahai ¹	1. Indian Institute of Tropical Meteorology, Pune 2. Savitribai Phule Pune University 3. India Meteorological Department Pune, Maharashtra 411005 4. Met Office, Exeter, UK	Importance of Land Surface feedback during the active phases of the Indian Summer Monsoon	pratibha.erpas@gmail.com
PS1-P-49	Fathima Shirin PT, Prabhakar Sachin, KiranKumar NVP, Sathiyamoorthy V and Sunil Kumar SV	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala, 695022	Diurnal and Seasonal Variation of Surface Radiation Balance Parameters Over Mahendragiri	kirannvp@gmail.com
PS1-P-50	Aniket, Dharmendra Kamat, Som Sharma, Virendra Padhya, R.D. Deshpande	Physical Research Laboratory, Ahmedabad, India	Study of Seasonal Dynamics and Interdependencies of Cloud Base Height, Precipitation, Humidity, and Temperature over the Ahmedabad region	aniket@prl.res.in
PS1-P-51	Nanditha Subhash and Mrudula G	CSIR- National Aerospace Laboratories	Effects of meteorological parameters on UAV's	nandithasubhash2@gmail.com
PS1-P-52	Md Kaif, Sabin T P, R Krishnan, Naveen Gandhi	Indian Institute of Tropical Meteorology, Pune	Dynamics of the Atlantic Multi-decadal Oscillation and Its impact on the Indian Summer Monsoon: Insights from Holocene climate records and modeling	md.kaif@tropmet.res.in
PS1-P-53	1 Visuzoto Valeo, 2 Pramila Vinayak Koparkar	1.Department of Physics, Kohima Science College (Autonomous), Jotsoma-797002, Nagaland, India 2. Department of Basic Science and Social Sciences, North-Eastern Hill University, Shillong, 793022, Meghalaya, India.	Analysis of potential gradient and point discharge current along with meteorological observations in Shillong, North Eastern India	visvaleo@gmail.com
PS1-P-54	Neethu C S and Abish B	Department of Climate Variability and Aquatic Ecosystems, Faculty of Ocean Science and Technology, Kerala University of Fisheries and Ocean Studies (KUFOS), Kochi, Kerala.	Understanding the Dynamics of Heat Waves over India: Causes and Trends	csneethu@gmail.com
PS1-P-55	ATHIRA P RATNAKARAN AND ABISH B	KERALA UNIVERSITY OF FISHERIES AND OCEAN STUDIES, DEPARTMENT OF CLIMATE VARIABILITY AND AQUATIC ECOSYSTEM, FACULTY OF OCEAN SCIENCE AND TECHNOLOGY	A Comprehensive Analysis of Oceanic and Atmospheric Factors Influencing the Formation and Rapid Intensification of Tropical Cyclone Ockhi	athiathi26nov@gmail.com
PS1-P-56	Reema Mathew, Mohammed Suhail, P.V. Nagamani	National Remote Sensing Centre	Sediment Plume following ocean current pattern as observed by EOS-06	reemacm17@gmail.com

PS1-P-57	Ch Venkateswarlu1 *, Surisetty V V Arun Kumar2, M Ramesh3, B Gireesh1, C V Naidu1 Rashmi Sharma2	Andhra University Visakhapatnam	A Smartphone camera is used in Morpho dynamic Beach state and Rip current risk estimation	venkych002@gmail.com
PS1-P-58	P Tarakeshwar, K. Muni Krishna	Dept of Meteorology and Oceanography, Andhra University, Visakhapatnam, India	Physical and dynamical changes of Arabian Sea due to Marine Heatwaves	722211428011@andhrauniversity.edu.in
PS1-P-59	Shashank Kumar Mishra, Rajesh Sikhakoli	National Remote Sensing Centre	Assessing Wind Energy Potential Using Scatterometers: A Two-Decade Analysis	shashankmishra_kr@nrsc.gov.in
PS1-P-60	Nishi Srivastava	Birla Institute of Technology, Mesra, Ranchi	Interannual Variations in the Mean Kinetic Energy over Global scale during an El-Nino Year vs Neutral year	nishi.bhu@gmail.com
PS1-P-61	Om Joshi 1 , Prashant Chauhan 1 , Manisha Vithalpur 1 , Debajyoti Ganguly 2 , and Smitha Ratheesh 3	1 Department of Physics, IISHLS, Indus University, Ahmedabad. 3 Oceanic Sciences Division, Space Applications Centre, Ahmedabad.	Understanding the impact of Marine Heat events on Arabian Sea primary productivity through satellite data analysis.	prashantchauhan.22.mphy@ishls.indusuni.ac.in
PS1-P-62	Avinash A Arondekar1, Aftab A Can2	1Ph.D Student, SEOAS, Goa University, Taleigao- Goa. 2Assistant Professor (Rtd.), SEOAS, Goa University, Taleigao- Goa.	Chlorophyll-a concentration and its relation with Sea Surface Temperature, Ekman Mass Transport and Precipitation along West Coast of India using Remote Sensing data.	arondekaravinash@yahoo.in
PS1-P-63	Harshbardhan Kumar, Shani Tiwari	Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, India	Multi-sensors observation of low level clouds and their inter-comparison over Indian Ocean	harshbardhansingh535@gmail.com
PS1-P-64	Devansh Desai, Mahi Patel	Silver Oak Institute of Science, Silver Oak University	Utilizing Satellite Remote Sensing for Agricultural Water Budget Analysis: A Comprehensive Study	devanshdesai.sci@silveroakuni.ac.in
PS1-P-65	Riya Mol P and M Venkat Ratnam	National Atmospheric Research Laboratory	25 year climatology of cirrus cloud properties over a tropical station obtained using ground and space-based lidar observations	riyamol@narl.gov.in
PS1-P-66	Chanabasanagouda S Patil1,2, Shaik Darga Saheb2 and Kamsali Nagaraja1	1Department of Physics, Bangalore University, Bengaluru, India; 2India Meteorological department, KIAL, Bengaluru	Analysis of cloud top brightness temperature from INSAT-3D for nowcast	csgoudapatil@gmail.com
PS1-P-67	Shaik Darga Saheb1*, Chanabasanagouda S Patil1,2 and Kamsali Nagaraja2	1 India Meteorological department, KIAL, Bengaluru 2 Department of Physics, Bangalore University, Bengaluru, India	Study of thunderstorm and rainfall over Bengaluru using cloud top temperature of INSAT 3D satellite imaging	sk.darga@gmail.com
PS1-P-68	Sreyasi Biswas, and Charu Singh	Indian Institute of Remote Sensing	Analysis of extreme rainfall events in Dharampur, Himachal Pradesh using satellite observations and simulation.	sreyasi.iirs@gmail.com
PS1-P-69	T. Lokeswara Reddy, K. Rajaobul Reddy, G. Balakrishnaiah, K. Rama Gopal	Aerosol & Atmospheric Research Laboratory, Department of Physics, Sri Krishnadevaraya University, Anantapur 515 003, Andhra Pradesh, India	Assessing Indian Ocean Dipole Impact on Southern Peninsular Indian Rainfall Trends and Drought Characteristics by Remote Sensing	loku5658@gmail.com
PS1-P-70	Sarthi More, Saurabh Choubey.	The Maharaja Sayajirao University of Baroda, Central University of Gujarat, Space Applications Centre	Estimating Water Level and Discharge using satellite altimetry techniques in Narmada River Basin	sarthi.art@gmail.com

PS1-P-71	Sneha Susan Mathew, Karanam Kishore Kumar	Henry Baker College, Melukavu; Space Physics Laboratory, VSSC	Monsoon Hadley Circulation in a changing climate : Impact on precipitation patternsclimate:	snehamavila@yahoo.com
PS1-P-72	Nizy Mathew (1), Sisma Samuel (2) and Sathiyamoorthy V. (1)	(1) Space Physics Laboratory, VSSC; (2) Royal Netherlands Meteorological Institute	Estimation Radiative Effects of Deep Convective Clouds using Megha-Tropiques Satellite Observations	work.nizy@gmail.com
PS1-P-73	Tukaram Zore, Kiranmayi Landu	Indian Institute of Technology Bhubaneswar	Temporal Analysis of Southwest and Northeast Monsoon Rainfall Trends in the State of Goa	ztc10@gmail.com
PS1-P-74	Anirban Guha, Trisanu Banik and Dipanjana De	Department of Physics, Tripura University, India, India Meteorological Department, New Delhi, India	Lightning and climate: A comparative study from Indian Lightning Detection Network (ILDN)	anirbanguha@tripurauniv.ac.in
PS1-P-75	Lekhraj Saini, Saurabh Das, Nuncio Murukesh	1.Department of Astronomy, Astrophysics and Space Engineering, Indian Institute of Technology Indore, Simrol, Indore, 453552, MP, India. 2National Centre for Polar and Ocean Research (NCPOR), Headland Sada, Goa, 403804, Goa, India	In-situ Observation of Vertical Evolution of Precipitation in an Arctic Location	phd2101121007@iiti.ac.in
PS1-P-76	Amit P Kesarkar(1), Jyoti Bhate (1), Pavani Goriparthi (1) and Anantharaman Chandrasekar (2)	1. National Atmospheric Research Laboratory, 2. Indian Institute of Space Science and Technology	Appraisal of collision-coalescence efficiencies during cloud burst over Sauni Binsar, Uttarakhand	debojitsarkar306@gmail.com
PS1-P-77	Kavita Patnaik 1,2, Amit P. Kesarkar 1*, Subhrajit Rath 1,2, Jyoti N. Bhate 1, and Anantharaman Chandrasekar 2	1.National Atmospheric Research Laboratory, Gadanki, Tirupati, Andhra Pradesh-517112, India. 2.Indian Institute of Space Science & Technology, Valiamala, Kerala-695547, India.	A 1-D model to retrieve the vertical profiles of minor atmospheric constituents for cloud microphysical modelling	kavita.patnaik18@gmail.com
PS1-P-78	M.Naveen Reddy, Dr. Prमित K Deb Burman	SPPU and IITM Pune	Impact of weather disturbances on the ecosystem-atmosphere mass and energy exchanges at a subtropical forest in India	mnaveenreddy04@gmail.com
PS1-P-79	Anup Kumar Mandal, A.D. Rao and Pawan Tiwari	Oceanic Sciences Division, Space Applications Centre, Ahmedabad; Centre for Atmospheric Sciences, IIT Delhi, New Delhi	Impact assessment of satellite derived winds and high resolution LULC on the simulations of total water elevations and associated inundation due to cyclones along the east coast of India	anupmandal92@gmail.com
PS1-P-80	Subhrajit Rath, Amit Kesarkar, Kavita Patnaik,Jyoti Bhate, and Govindan Kutty	National Atmospheric Research Laboratory and Indian Institute of Space Technology	Impact of Infrared heating/cooling-induced turbulence on vertical velocity inside stratiform cloud	subhrajitrath17@gmail.com
PS1-P-81	Nirmal Govindaraj, Venkatavihan Devaki, Yash Bhisikar	Birla Institute of Technology And Science, Pilani, Pilani Campus; Birla Institute of Technology And Science, Pilani, Goa Campus	Assessing the Performance of Convolutional Neural Networks with Gradient Descent and Genetic Algorithm Optimizers for Predicting Rainfall	venkatavihan@gmail.com
PS1-P-82	Shanay Mehta, Ayush Ghatalia, Aditya Kulkarni	BITS PILANI KK BIRLA GOA CAMPUS	Predicting Rainfall using Multiple Deep Learning Models: A Case Study over North East India	shanaymehta78@gmail.com
PS1-P-83	Aswathy R S and K Rajeev	Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, Kerala and Department of physics, University of Kerala	Meridional Structure and Genesis of Double ITCZ over Tropical Oceans: Insight from a Decade of CloudSat and CALIPSO Observations	aswathyrs.spl@gmail.com

PS1-P-84	Dharmendra Kumar Kamat, Som Kumar Sharma, Aniket, Prashant Kumar, Aditya Vaishya, Kondapalli Niranjan Kumar, Sourita Saha	Physical Research Laboratory, Ahmedabad, India; Indian Institute of Technology Gandhinagar, Gandhinagar, India; Space Applications Centre, Ahmedabad, India; Ahmedabad University, Ahmedabad, India; National Centre for Medium Range Weather Forecasting, Noida, India; Scripps Institutions of Oceanography, California, USA	Investigation of the Genesis of Water Vapor, AOT, and Clouds over the Western-Indian Region	dharmendrakamat@prl.res.in; dharmendra.kumar2781@gmail.com
PS1-P-85	Kavita(1,*),Saurabh Das(1)and Nuncio Murukesh(2)	(1)Department of Astronomy, Astrophysics and Space Engineering, Indian Institute of Technology Indore, Simrol, Indore, 453552, MP, India. (2)National Centre for Polar and Ocean Research (NCPOR), Headland Sada, Goa, 403804,	Investigating the Variation of Atmospheric Electric Field Over the Arctic Region	Saurabh.das@iiti.ac.in
PS1-P-86	Ruchita Shah, Som Sharma and Rohit Srivastava	Pandit Deendayal Energy University and Physical Research Laboratory	Role of rising temperature on cloud characteristics over the Arabian Sea	ruchitapshah05@gmail.com
PS1-P-87	R. N. Ghodpagea*, A. Taorib, R. P. Patilc, M.K. Patild, O. B. Gurave, S. Sripathif, A.P. Dimrif	M. F. Radar, Indian Institute of Geomagnetism, Shivaji University Campus, Kolhapur - 416004, India. bEarth & Climate Science Area, National Remote Sensing Centre, Hyderabad-500037, India. cIndian Institute of Tropical Meteorology, Pune - 411008, India dSchool of Physical Sciences, Swami Ramanand Teerth Marathwada University, Nanded - 431606, India. eDepartment of Physics, Bharati Vidyapeeth (Deemed to Be University), Yashwantrao Mohite College of Arts, Science and Commerce, Pune - 411030, India. fIndian Institute of Geomagnetism, Navi Mumbai-410218	Using a ground-based airglow imager to observed cloud parameters	rupeshghodpage@gmail.com
PS1-P-88	Muhsin M., and M K Ravi Varma	National Institute of Technology Calicut	Climatology and trend of tropical high altitude clouds using Gridded Satellite (GridSat) data	aspmuhsin@gmail.com
PS1-P-89	Athulya R and Nuncio Murukesh	National Centre for Polar and Ocean Research, Goa	Clausius-Clapeyron scaling during heavy precipitation in Ny Ålesund, Arctic with Case studies.	athulyarkrishna@gmail.com
PS1-P-90	R. P. Patil, K. Chakravarty, R. R. Gaikwad and G. Pandithurai	Indian Institute of Tropical Meteorology, Pune	The decadal time scale observation of rainfall microphysical characteristics over the orographic region	rohitp@tropmet.res.in
PS1-P-91	ROHIT GAUTAM, ARUP BORGOHAIN, BINITA PATHAK, SS KUNDU, SP AGGARWAL	Dibrugarh University	Investigation of precipitation, minimum and maximum temperature trends over North-East India and its contiguous areas	rohitgm62@gmail.com
PS1-P-92	Rohit Srivastava and Niyati Mevada	Pandit Deendayal Energy University, Gandhinagar	A Comparative Analysis of Variations in Cloud Properties and Precipitation over Western India using Machine Learning Algorithms	rohit.prl@gmail.com

PS1-P-93	KRISHNANKA JYOTI BAISHYA, BINITA PATHAK, SOM KUMAR SHARMA, PARTHA JYOTI SAHU, BARLIN DAS, KASHMIRI DEVI, KALYAN BHUYAN, BARSHA DUTTA, P. K. BHUYAN	Centre for Atmospheric Studies, Dibrugarh University, Dibrugarh, 786004, India. Department of Physics, Dibrugarh University, Dibrugarh, 786004, India. Physical Research Laboratory, Ahmedabad, 380054, India. Dibrugarh University Institute of Engineering and Technology, Dibrugarh University, Dibrugarh, 786004, India	Investigating cloud interaction with aerosol, radiation and rainfall over an easternmost location of North-East India	krishnanka01@gmail.com
PS1-P-94	Shiva Shankar Manche, Rajesh S, Nagamani P V and Prakash Chauhan	National Remote Sensing Centre, Balanagar, Hyderabad, Telangana-500037	Observed mesoscale eddy dynamics in the Arabian Sea using 3-decades of satellite measurements	mancheshivashankar@gmail.com
PS1-P-95	M.Chandra	Poornima Institute of Engineering and Technology	The Effect of Ions in Clouds and Precipitation Particles to the Electrical Conductivity and the Relaxation Time of the Air	mksh.rpt@gmail.com0.
PS1-P-96	Dr. Mukesh Chandra	Poornima Institute of Engineering and Technology	The important role of ions in clouds formation and precipitation particles in relation to the electrical conductivity and electrification of clouds	mksh.rpt@gmail.com
PS1-P-97	Swastika Chakraborty, Swapan Dolui, Sumon Kumar Mondal	Narula Institute of Technology, Kolkata, India	Deciphering Coupling of Soil-Rain Using Remote Sensing-A new State of Art	swastika1971@gmail.com
PS1-P-98	C. B. Lima, S. S. Prijith and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram	Characterization of Dust Aerosol Distribution over the Indian Region Using Infrared Observations from INSAT-3D Imager	limabalan05@gmail.com
PS1-P-99	Chakradhar Rao Tandule, Mukunda M. Gogoi and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram, 695022, India	Investigating the role of mineral dust on net primary productivity over the Arabian Sea using satellite remote sensing	crtchakri@datamail.in
PS1-P-100	Shameela S F (1,2); Manoj K Mishra (1)	(1) ATDD, AMHTDG, Space Applications Centre, Indian Space Research Organization (ISRO), Ahmedabad, Gujarat, India (2) Department of Earth and Space Science, Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala, India	An assessment of Aerosol Optical Depth (AOD) for air quality monitoring in India and adjoining regions during post-monsoon season	shameelasf1996@gmail.com
PS1-P-101	Sijo Joseph and Subin Jose	Newman College Thodupuzha, Kerala	Impact of Aerosol Loading on Microphysical Processes in Warm Clouds over south Asia using Multi-satellite Observations	sijojosephvattappalam@gmail.com
PS1-P-102	IMRAN KHAN AND VENKTA RATNAM	Department of Electronics and Communications Engineering, Koneru Lakshmaiah Education Foundation, Guntur 522502, India	Indian Summer monsoon influence on aerosol over India Indian Summer monsoon influence on aerosol over India	Pathan.pogala@gmail.com
PS1-P-103	Akanksha Arora, Harish Gadhavi, S Ramachandran	Physical Research Laboratory	Constraining Biomass burning emission estimates using satellite data and lagrangian dispersion modeling	ugc1994.aka@gmail.com
PS1-P-104	Thejas K V1, Vijayakumar S Nair2 and P R Sinha1*	1Department of Earth and Space Sciences, Indian Institute of Space Science and Technology, Valiamala, Thiruvananthapuram, India 2Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India	Role of meteorology in aerosol-warm cloud interaction (ACI) over eastern IGP during winter season	prs@iist.ac.in

PS1-P-105	Gowtham Krishna2, Haritha M1, Usman N2, Ibrahim Shaik1, P.V. Nagamani1, Padma Kumari2	National Remote Sensing Centre/ISRO, Hyderabad	Estimation of Satellite-based Air-Sea CO2 fluxes over the global ocean waters	arachiyata@gmail.com
PS1-P-106	Meenu G., * & Siddarth Shankar Das & Veenus V.	University Of Kerala and Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram	High-resolution two dimensional mapping of temperature, humidity and ozone over Indian region by geostationary satellite 'INSAT-3DR'	meenug1999@gmail.com
PS1-P-107	K. Niranjan, A. Neelima, V. Syamala, S. Srinivasa Rao and B. Spandana	ANDHRA UNIVERSITY, VISAKHAPATNAM	Long term regional variability of MODIS Aerosol Optical Depth over India and Adjoining Oceanic Regions	syamaladaddy@gmail.com
PS1-P-108	Dhananjay Kumar, Prashant Hegde, B.S. Arun, Mukunda M. Gogoi, S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram 695022, Kerala	How crucial is the role of liquid water content in the formation of secondary organic aerosols in the eastern Himalayas?	deshmukhkdhananjay@gmail.com
PS1-P-109	Jyotishree Nath	Aerosol and trace gas laboratory, Environment and sustainability department, CSIR-IMMT,BBSR	Seasonal variation of bioaerosols in ambient air and identification of pathogenic species	Jyotishreenath95@gmail.com
PS1-P-110	Vaishnavi,Vikas Singh,Vikas	National Atmospheric Research Laboratory,Gadanki-517112	Performance evaluation of satellite derived and MERRA-2 reanalysis fine particulate matter (PM2.5) concentration over India	vaishnavi.vaishnavi16@gmail.com
PS1-P-111	Archana Bawari, Jagdish Chandra Kuniyal, Bimal Pande	GBPNIHE Kosi-Katarmal	Aerosol-Radiation Interaction over the North-western Himalayan region: Black Carbon, Shortwave Radiative Forcing and Heating Rate	archanabawari123@gmail.com
PS1-P-112	Soumyajyoti Jana, Mukunda M Gogoi, and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram-695022, India	Anthropogenic Control on the Change in Precipitation Scenario Over India During Pre-Monsoon	mantu.abc@gmail.com
PS1-P-113	(1,2)Priyadatta Satpathy, (1)R.Boopathy, (1)Trupti Das	(1)CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, (2)Academy of Scientific and Innovative Research (AcSIR), Ghaziabad	Declining Black Carbon Concentration over an Indian coastal city, Bhubaneswar: A long-term analysis	priyadatta.satpathy@gmail.com
PS1-P-114	C.B. Ramya, A.R. Aswini, P.Hegde, S.K.R. Boreddy and S.S. Babu	INSPIRE Faculty	Sources Based Formation Pathways of Water-Soluble Organic Aerosols over South Asia	remyacbalan@gmail.com
PS1-P-115	Anas Ibnu Basheer, Vijayakumar S. Nair, S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India	Influence of LULC on aerosol-induced surface cooling over Indian region	ibnubasheerppm@gmail.com
PS1-P-116	Arya V. B., Vijayakumar S. Nair, S. Suresh Babu	Space Physics Laboratory, VSSC ,ISRO	Effects of aerosol-induced surface cooling and atmospheric warming during the Indian summer monsoon	aryavb1990@gmail.com
PS1-P-117	Sidfa C., Pramitha M., Ravi Varma M. K.	NIT Calicut, IISER Thiruvananthapuram	A Comparative Analysis of Aerosol Optical Depth between Observations and CMIP6 Models across Diverse Indian Regions	sidfa_p210114ph@nitc.ac.in
PS1-P-118	Prashant Kumar Chauhan, Dileep Kumar Gupta, Abhay Kumar Singh	Department of Physics, Institute of Science, Banaras Hindu University	Black Carbon mass concentration and their correlation with meteorological parameters over Varanasi	chauhanpk@bhu.ac.in

PS1-P-119	Vikas Singh, Abhishek Panchal, Amit Kesarkar, Akash Biswal	National Atmospheric Research Laboratory	Administrative analysis of the agriculture and forest fires over India: A real-time fire monitoring system for air quality management	abhishek@narl.gov.in
PS1-P-120	Vikas, Vikas Singh, Vaishnavi	National Atmospheric Research Laboratory, Gadanki	Spatio-temporal analysis of the impact of ventilation coefficient on fine particle pollution in India.	vikasrf@narl.gov.in
PS1-P-121	S Satheesh Kumar and T Narayana Rao	National Atmospheric Research Laboratory (NARL), Gadanki 517112, India	The impact of improved air-quality due to COVID-19 lockdown on surface meteorological parameters and planetary boundary layer over a tropical rural site in India	satheesh2021@gmail.com
PS1-P-122	M. Devaprasad, N. Rastogi, R. Satish, A. Patel, A. Dabhi, A. Shivam, R. Bhushan, and R. Meena	Geosciences Division, Physical Research Laboratory, Ahmedabad-380009, India. Indian Institute of Technology, Gandhinagar, Gujarat 382355, India	Relatively Enhanced Absorption by Biomass Burning-Dominated Methanol-Soluble Brown Carbon Over the Northeastern Himalayas: A Dual Carbon Isotopic Study	devaprasad.m99@gmail.com
PS1-P-123	V. N. Santhosh, B.L. Madhavan, and M. Venkat Ratnam	National Atmospheric Research Laboratory (NARL), Indian Institute of Space Science and Technology (IIST)	Radiative Impacts of Elevated Aerosol Layers (EALs) using a synergy of balloon-borne, ground-based, and space-borne instruments	santhoshvne16@gmail.com
PS1-P-124	B. Das; B. Pathak; K. J. Baishya; P. J. Sahu; P. K. Bhuyan; J. Biswas; R. Hazarika; S. Bora; M. Borah; R. Borgohain; J. Bhuyan; P. Mahanta	Dibrugarh University, Pandu College, Jengraimukh College, Sadiya College, B. N. College, Birjhora Mahavidyalaya, NERIST, Gauhati University	Compositional analysis of atmospheric aerosols over Brahmaputra valley: A campaign mode study	barlin.das2255@gmail.com
PS1-P-125	Dr. Bharati Paul and Dr. Umesh Chandra Dumka	Aryabhata Research Institute of Observational Sciences	Impact of land use land cover change on PM2.5 concentration and meteorological environment over the Delhi Metropolitan	borshapaul01@gmail.com
PS1-P-126	Suresh K.R. Boreddy, Vijayakumar S. Nair and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India	Aerosol liquid water and its impact on optical properties of submicron aerosols over northern and equatorial Indian Ocean during ICARB-2018	boreddysuresh@gmail.com
PS1-P-127	Shantikumar S. Ningombam (1); B. L. Madhavan (2); E. J. L. Larson (3); A. K. Srivastava (4); Swagata Mukhopadhyay (1)	Indian Institute of Astrophysics, Bangalore 560034, India (1); National Atmospheric Research Laboratory, Gadanki 517112, India (2); University of Colorado, Boulder, CO 80309, USA (3); Indian Institute of Tropical Meteorology, (Delhi Branch) Ministry of Earth Sciences, New Delhi 110060, India (4)	Classification of aerosols over the climate-sensitive Hindu Kush Himalayan region using Ground-based aerosol measurement	swagata.mukhopadhyay@iiap.res.in
PS1-P-128	(1) Shantikumar S. Ningombam, (2) B. L. Madhavan, (3) A. K. Srivastava, (1) Swagata Mukhopadhyay	(1) Indian Institute of Astrophysics, Bangalore 560034, India, (2) National Atmospheric Research Laboratory, Gadanki 517112, India, (3) Indian Institute of Tropical Meteorology, (Delhi Branch) Ministry of Earth Sciences, New Delhi- 110060, India	Validation of aerosol optical depth derived from reanalysis data with ground based observation over the climate sensitive Hindu Kush Himalayan region	swagata.mukhopadhyay@iiap.res.in
PS1-P-129	Tamada Jayasri, V. Ravi Kiran, M. Venkat Ratnam	National Atmospheric Research Laboratory	Cloud nucleating properties of atmospheric aerosols	tamadajayasri@gmail.com
PS1-P-130	P R Sinha	Indian Institute of Space Science and Technology, Thiruvananthapuram, India	Ponmudi Climate Observatory: A High Altitude Site for Aerosol-Cloud Interaction Study	prs@iist.ac.in

PS1-P-131	Kamran Ansari, S. Ramachandran	Physical Research Laboratory, Ahmedabad, 380009, India; Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar, 382055, India.	Aerosol Optical Characteristics over Asia: AERONET Observations and MERRA-2 and CAMS Simulations	kamranansari@prl.res.in
PS1-P-132	Bharat Ji Mehrotra ¹ , Amit Kumar ^{1,2} , RS Singh ³ , AK Srivastava ² , MK Srivastava ¹	1.Department of Geophysics, Institute of Science, Banaras Hindu University, Varanasi 2.Indian Institute of Tropical Meteorology, New Delhi 3.Indian institute of Technology (BHU), Varanasi	Long-term variations in black carbon mass concentration and aerosol optical depth during the pre-monsoon period in Varanasi: Are these changes of natural origin or influenced by government policies?	bharatjimehrotra@gmail.com
PS1-P-133	Vaishnav Bartaria, Ashok Jangid, Ranjit Kumar	Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra	Long-Term Variability of Aerosol Optical Depth at ARFI Station, Agra: Insights for Advancing Space-Based Meteorology and Climate Change Analysis	vbartariya00@gmail.com
PS1-P-134	Jeni N Victor, Swapnil S. Podar, Gokul T, Devendraa Siingh, and G Pandithurai	Indian Institute of Tropical Meteorology, (Ministry of Earth Sciences), Pune, India	Variations in dust-induced radiative forcing during a strong dust storm over the Indian subcontinent	jenivictor@gmail.com
PS1-P-135	Vaishnav Bartaria, Ashok Jangid, Ranjit Kumar	Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra,	Long-Term Variability of Aerosol Optical Depth at ARFI Station, Agra: Insights for Advancing Space-Based Meteorology and Climate Change Analysis	vbartariya00@gmail.com
PS1-P-136	Vikas Singh 1, Akash Biswal 1, Amit P. Kesarkar 1, Khaiwal Ravindra ² , Sumar Mor ³ Gufuran. Beig ⁴ and Ranjeet S. Sokhi ⁵	1 National Atmospheric Research Laboratory, Gadanki, India 2 Post Graduate Institute of Medical Education and Research, Chandigarh, India 3 Panjab University, Chandigarh, India 4 National Institute of Advanced Studies, Bengaluru, India 5 University of Hertfordshire, Hatfield, UK	Assessment of spatial heterogeneity of Fine Particulate Matter in Delhi	vikas@narl.gov.in
PS1-P-137	Chandrima Shaw 1,2, Neeraj Rastogi 1, Sanjeev Kumar 1, Ajayeta Rathi 1,2, and Rohit Meena 1	1 Geosciences Division, Physical Research Laboratory, Ahmedabad-380009, India 2 Department of Earth Science, Indian Institute of Technology Gandhinagar, Gandhinagar-382355, India	Identification of NH ₃ -slip as a major source of NH ₃ emission over an agricultural dominated site in the Indo Gangetic Plain	chandrimashaw@gmail.com
PS1-P-138	Rohit Meena, Devaprasad M, Puneet Kumar Verma and Neeraj Rastogi	Physical Research Laboratory, Ahmedabad	Post-monsoon Characteristics of NR-PM _{2.5} Over Ahmedabad: Insight from Aerosol Mass Spectrometry	meena.rohit1994@gmail.com

PS1-P-139	Mohit Singh ¹ , Yutaka Kondo ² , Sho Ohata ^{3,4} , Tatsuhiro Mori ⁵ , Naga Oshima ⁶ , Antti Hyvärinen ⁷ , John Backman ⁷ , Eija Asmi ⁷ , Henri Servomaa ⁷ , Franz Martin Schnaiter ^{8,9} , Elisabeth Andrews ^{10,11} , Sangeeta Sharma ¹² , Kostas Eleftheriadis ¹³ , Stergios Vratolis ¹³ , Yongjing Zhao ¹⁴ , Makoto Koike ¹⁵ , Nobuhiro Moteki ¹⁵⁺ , P. R. Sinha ^{1*}	1Department of Earth and Space Sciences, Indian Institute of Space Science and Technology, Thiruvananthapuram, India 2 National Institute of Polar Research, Tachikawa, Tokyo, Japan 3Institute for Space–Earth Environmental Research, Nagoya University, Nagoya, Aichi, Japan 4Institute for Advanced Research, Nagoya University, Nagoya, Aichi, Japan 5Department of Applied Chemistry, Faculty of Science and Technology, Keio University, Yokohama, Kanagawa, Japan 6Department of Atmosphere, Ocean and Earth System Modeling Research, Meteorological Research Institute, Tsukuba, Ibaraki, Japan 7Atmospheric Composition Research Unit, Finnish Meteorological Institute, Helsinki, Finland 8Institute of Meteorology and Climate Research, Karlsruhe Institute of Technology, Kaiserstraße 12, 76021 Karlsruhe, Germany 9schnaiTEC GmbH, Werner-von-Siemens-Str. 2–6, 76646 Bruchsal, Germany 10CIRES, University of Colorado, Boulder, Colorado, USA 11NOAA Global Monitoring Laboratory, Boulder, Colorado, USA 12Climate Chemistry Measurements Research, Climate Research Division, Environment and Climate Change Canada, 4905 Dufferin Street, Toronto, Canada 13Environmental Radioactivity Laboratory (ERL), Institute of Nuclear and Radiological Science & Technology, Energy & Safety, National Centre for Scientific Research “Demokritos”, 15310 Attiki, Greece 14Air Quality Research Center, University of California-Davis, One Shields Ave., Davis, CA 95616 USA 15Department of Earth and Planetary Science, Graduate School of Science, The University of Tokyo, Tokyo, Japan +Now at Tokyo Metropolitan University,1-1 Minami-Osawa, Hachioji, Tokyo 192-0397, Japan	Mass absorption cross section of black carbon for Aethalometer in the Arctic	prs@iist.ac.in
PS1-P-140	Thejas K V ¹ , Vijayakumar S Nair ² and P R Sinha ^{1*}	1Department of Earth and Space Sciences, Indian Institute of Space Science and Technology, Valiamala, Thiruvananthapuram, India 2Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India	Effect of aerosol hygroscopic growth on haze amplification and radiative forcing over Indo Gangetic Plains (IGP) during winter season	prs@iist.ac.in
PS1-P-141	Mittal Parmar ¹ , Aditya Vaishya ¹ , Narendra Ojha ² , Mehul R. Pandya ³ , Imran A. Girach ³	1 School of Arts and Sciences, Ahmedabad University, Ahmedabad - 380009, India; 2 Physical Research Laboratory, Ahmedabad, India - 380009, India; 3 Space Applications Centre, ISRO, Ahmedabad - 380015, India	Application of machine learning to reduce observational gaps in aerosol parameters: method and implications	aditya.vaishya@ahduni.edu.in

PS1-P-142	Sam P. Raj1, P. R. Sinha1*, Rohit Srivastava2, Srinivas Bikkina3, D. Bala Subrahmanyam4	1Department of Earth and Space Sciences, Indian Institute of Space Science and Technology Thiruvananthapuram, Kerala, 695547, India 2 National Centre for Polar and Ocean Research, Ministry of Earth Sciences, Govt. of India, Vasco-da-Gama, Goa, 403804, India 3 CSIR-National Institute of Oceanography, Dona Paula, Goa, 403004, India 4 Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala, 695021, India	AeroMix: a Python package for modeling aerosol optical properties and mixing states	prs@iist.ac.in
PS1-P-143	Midhun K Gopakumar	Central University of Rajasthan	A Comparative Analysis of Air Quality Changes in India during Lockdown-2020, partial-Lockdown-2021 and post-Lockdown-2022	cosmosreality54@gmail.com
PS1-P-144	J. Arul Asir 1 ,H. Johnson Jeyakumar 1 , and C. P. Anil Kumar 2	1) P.G and Research Department of Physics, Pope's College, Sawyerpuram, Tuticorin- 628251, Tamil Nadu, India. 2) Equatorial Geophysical Research Laboratory, Indian Institute of Geomagnetism, Krishnapuram, Tirunelveli-627012, Tamil Nadu, India	Wavelet based semblance study of air resistivity during pre-COVID and COVID-19 lockdown time zones –Tamil Nadu	arulasir1997@gmail.com
PS1-P-145	Avirup Sen, Atiba A. Shaikh, Harilal B. Menon	Remote Sensing Laboratory, School of Earth, Ocean and Atmospheric Sciences, Goa University	Seasonal variability in the aerosol distribution, associated Direct Aerosol Radiative Forcing and Atmospheric Heating Rates over Goa	avirup87@gmail.com
PS1-P-146	Prayagraj Singh (1), Aditya Vaishya (2), Shantanu Rastogi (1))	(1) Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur. (2) Ahmedabad University, Ahmedabad.	Depletion of aerosols in the atmospheric column due to cessation of emissions over the Indo-Gangetic Plain	prayag_singh@hotmail.com
PS1-P-147	Bakhtawar H. Abdullah (1); Prayagraj Singh (1); Aditya Vaishya (2,3); Prabhunath Prasad (1) and Shantanu Rastogi (1)	(1) Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur – 273 009, India. (2) School of Arts and Sciences, Ahmedabad University, Ahmedabad – 380 009, India. (3) Global Centre for Environment and Energy, Ahmedabad University, Ahmedabad – 380 009, India.	Study of Annual and Seasonal trend of Black Carbon over the central IGP	abdullah1102k@gmail.com
PS1-P-148	Usha Kajjer Virupakshappa a, Balakrishnaiah Gugamsettya, Penchal Reddy Matlia, Rama Gopal Kotaloa*, Narasimhulu Kunchamb	a Aerosol and Atmospheric Research Laboratory, Department of Physics, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh 515 003, India b SSA Govt. First Grade College (Autonomous), Ballari, Karnataka, India	Chemical characterization and source identification of particulate matter at Ballari, in southern peninsular India	gbkroyal@gmail.com
PS1-P-149	Mamatha Chutta, Suryanarayana Vadde, Rama Gopal Kotalo*, Siva Sankara Reddy Lingala	Aerosol and Atmospheric Research Laboratory, Department of Physics, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh 515 003, India	The effect of dust on near surface aerosol properties over a semi-arid station	mamathachutta123@gmail.com
PS1-P-150	Mark J. Pinto, Arjun Adhikari and Harilal B. Menon	Remote Sensing Laboratory, School of Earth, Ocean and Atmospheric Sciences, Goa University - 403206, Goa, India	Breakdown of Land-Sea Breeze circulation and associated black carbon variability over a coastal station, Goa, India	markjohn29898@gmail.com
PS1-P-151	Sumit Kumar, Dr. Gaurav Govardhan, Dr. Shivsai A. Dixit, Dr. Sachin D. Ghude	Indian Institute of Tropical Meteorology, Pune-411008	A positive bias in surface-reaching solar radiation in WRF-Chem model: role played by aerosol-radiation interactions	ksumit@tropmet.res.in

PS1-P-152	Vasundhara Sharma, Shishir Kumar Singh, Radhakrishnan S.R.	CSIR-National Physical Laboratory, Dr. K.S. Krishnan Marg, New Delhi-110012, India; Academy of Scientific and Innovative Research (AcSIR), Ghaziabad-201002, India	Comparative Aerosol Optical Depth Analysis Between Indo-Gangetic and Western Himalayan Region	vasundhara.npl22a@acsir.res.in
PS1-P-153	Vaishali, Rupesh M. Das	1. Environmental Sciences & Biomedical Metrology Division, CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi-110012, India. 2. Academy of Scientific and Innovative Research (AcSIR), CSIR-HRDC Campus, Postal Staff College Area, Sector 19, Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh 201002.	Study of transport of PM2.5 pollution in diurnal variability and role of meteorology over different locations of Delhi	vaishalisagar67@gmail.com
PS1-P-154	Ms. Betsy K B, Dr. Sanjay Kumar Mehta	SRM Institute of Science and Technology	Influence of aerosol on heatwave	betsykaraikkattu@gmail.com
PS1-P-155	Midhun K Gopakumar	Central University of Rajasthan	A Comparative Analysis of Air Quality Changes in India during Lockdown-2020, partial-Lockdown-2021 and post-Lockdown-2022	cosmosreality54@gmail.com
PS1-P-156	Ritesh Kumar and Rohit Srivastava	National Centre for Polar and Ocean Research, Ministry of Earth Sciences Govt. of India, Vasco-da-Gama, Goa	Seasonal variation of black carbon over the Arctic	riteshkumar1636@gmail.com
PS1-P-157	Ranjit Kumar, Vaishnav Bartaria, Ashok Jangid	Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra,	Soot Particle Black Carbon - Concentration, Emission, Deposition, and Morphological Mastery through FESEM	rkschem@rediffmail.com
PS1-P-158	SHALENDRA PRATAP SINGH, RANJIT KUMAR, ASHOK JANGID	1Department of Physics and Computer Science, Faculty of Science, Dayalbagh Educational Institute (Deemed University)	A novel hybrid model based on soft computing and OPAC for estimation of aerosol's optical properties	ashjangid@gmail.com
PS1-P-159	N.Sangeetha, Y. Bhavani Kumar	Vellore Institute of Technology, Vellore -632014, National Atmospheric Research Lab, Department of Space, Government of India.	A proposal for development of a space borne LIDAR payload for profiling the atmospheric aerosol and clouds	nsangeeetha73@gmail.com
PS1-P-160	Venkatesh Degala, Alok Taori, Gaurav Gupta and Mallikarjun	National Remote Sensing Center, ISRO, Hyderabad	Investigating the Relationship between Upper Atmosphere NOx Dynamics and Lightning Events using WRF-Elec Chemistry	venkatesh_d@npsc.gov.in
PS1-P-161	Rounaq Goenka, Jaya Thakur, Alok Taori	National Remote Sensing Centre, ISRO	Long term changes in pollution levels over New Delhi during post-monsoon season	rounaq.goenka@gmail.com
PS1-P-162	Nishanth T1*; Keerthi Lakshmi KA1; Sunil Kumar MK2; Akhil RK3; Fei Ye4; Dipesh Rupakheti4; Satheesh Kumar MK5	1Department of Physics, Sree Krishna College Guruvayur, Thrissur, Kerala, India; 2Department of Information Technology, Kannur University, Kannur, India; 3Department of Physics, Malabar Christian College Kozhikode, Kerala, India; 4Jiangsu Key Laboratory of Atmospheric Environment Monitoring and Pollution Control, Nanjing University of Information Science & Technology, Nanjing, 210044, China; 5Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Karnataka, India	CMAQ and IPR retrieval of changes in surface ozone and particulate matter during the COVID-19 outbreak in Kannur, Kerala	nisthu.t@gmail.com
PS1-P-163	Rounaq Goenka, Jaya Thakur, Alok Taori	National Remote Sensing Centre, ISRO	Long Term Impacts of LU/LC changes on methane trends in India	rounaq.goenka@gmail.com

PS1-P-164	Harish Gadhavi, Akanksha Arora, Chaithanya Jain, Mahesh Kumar Sha, Frank Hase, Matthias Frey, S. Ramachandran, A. Jayaraman	(1.) Physical Research Laboratory, Ahmedabad, India; (2) Indian Institute of Technology, Gandhinagar, India; (3) National Atmospheric Research Laboratory, Gadanki, India (4) Karlsruhe Institute of Technology, Karlsruhe, Germany; (5) Royal Belgian Institute for Space Aeronomy, Brussels, Belgium	Comparison of CO2 and methane estimates from GOSAT and OCO-2 satellites with ground based FTIR observations over India	hgadhavi@prl.res.in
PS1-P-165	Binita Pathak ^{1,2} , P. K. Bhuyan ^{1,2} , Tamanna Subba ³ , Arshini Saikia ⁴ , Papori Dahutia ² , Ajay P ⁵ , Chandrakala Bharali ²	¹ Centre for Atmospheric Studies, Dibrugarh University, Dibrugarh, 786004, India ² Department of Physics, Dibrugarh University, Dibrugarh, 786004, India ³ Environmental and Climate Sciences Department, Brookhaven National Laboratory, Upton, 11972, United States ⁴ International Centre for Integrated Mountain Development (ICIMOD), Khumaltar, G.P.O. Box 3226, Lalitpur, Kathmandu, Nepal ⁵ National Center for Atmospheric Research (NCAR), Colorado, 80307, USA	Chemistry - Climate Interaction over Eastern Himalayan Foothills	Pathak.binita8@gmail.com
PS1-P-166	Seetha C.J; Dr. Sanjay Kumar Mehta	SRM Institute of Science and Technology, Chennai, India – 603203	Comparison of Diurnal Variabilities in the ABL Ozone Concentration over different regimes in India : Role of ABL-FT Exchange	seethacj1@gmail.com
PS1-P-167	S Sindhu	National Atmospheric Research Laboratory	Measurements of VOCs at a rural site in India: variability, sources and their impact on OFP and SOAP	sindhunar12023@gmail.com
PS1-P-168	Monalin Mishra (1, 2), Ramasamy Boopathy (1, 2) Chinmay Mallik (3), Trupti Das (1, 2)	(1) Aerosol & Trace gases Laboratory, Environment & Sustainability Department, CSIR-Institute of Minerals & Materials Technology (CSIR-IMMT), Bhubaneswar-751013, Odisha, India. (2) Academy of Scientific and Innovative Research (AcSIR), Ghaziabad-201002, India, (3) Department of Atmospheric Science, Central University of Rajasthan, Kishangarh, Rajasthan 305817, India	"Particulate/Gaseous Pollutants and solar radiation fluctuations over Bhubaneswar amidst two special events: Diwali and solar eclipse"	monalin.22@immt.res.in
PS1-P-169	Mansi Gupta (1,2)*, Nidhi Tripathi (1,3), Arvind Singh (1), L. K. Sahu (1)	Physical Research Laboratory, Ahmedabad	Dimethyl sulphide and isoprene over the northern Indian Ocean: Sources and Atmospheric processes	gmansi6853@gmail.com
PS1-P-170	S. Harithasree, Kiran Sharma, Imran A. Girach, Lokesh K. Sahu, Prabha R. Nair, Narendra Singh, Johannes Flmming, S. Suresh Babu, N. Ojha	Physical Research Laboratory, Indian Institute of Technology Gandhinagar, Graphic Era (Deemed to be University), Space Applications Centre, Formerly at Space Physics Laboratory, Aryabhata Research Institute of Observational Sciences, European Centre for Medium-Range Weather Forecasts, Space Physics Laboratory	Ozone air quality in rapidly urbanizing Doon valley of the Indian Himalaya: Observational and modeling perspectives	harithasree@prl.res.in
PS1-P-171	Rahul Nigam 1 ; Vivek Rakshit 2 and Bimal K Bhattacharya 1	1 Space Applications Centre (ISRO), Ahmedabad, 3800 15, Gujarat, India. 2 Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala, India	Estimation of Methane Fluxes in Rice Agro-ecosystem using Ground Based-Fluxes and Space Sensing over Semi-Arid Region of Gujarat	rahulnigam@sac.isro.gov.in
PS1-P-172	Dipanjana De, Trisanu Banik, Anirban Guha	Tripura University, India Meteorological Department	Methane Hotspots and Cloud Optical Properties over the Indian Subcontinent	dipanjana.physics@tripurauniv.ac.in

PS1-P-173	Aniket Tomar 1, Saurabh Choubey 2, and Shard Chander	Water Quality Analysis of River Sabarmati using in-situ and Remote Sensing Dataset	1 The Maharaja Sayajirao University of Baroda, Vadodara, 2 Central University of Gujarat, Gandhinagar, 3 Space Applications Centre, ISRO, Ahmedabad	anikettomar07@gmail.com
PS1-P-174	Meghna Soni, Narendra Ojha, Imran Girach, Lokesh K. Sahu	Physical Research Laboratory, Ahmedabad, 380009, India; Indian Institute of Technology, Gandhinagar, 382355, India; Space Applications Centre, Indian Space Research Organization, Ahmedabad, 380015, India	Influence of land-atmosphere interactions on trace constituents over the Indian subcontinent: Combining measurements with regional modeling	soni.meghna95@gmail.com
PS1-P-175	Abhinav Sharma, Shuchita Srivastava, D. Mitra	Indian Institute of Remote Sensing	Source attribution of carbon monoxide over Northern India during crop residue burning period over Punjab	abhiinav.18@gmail.com
PS1-P-176	Bhartendra Kumar, Shuchita Srivastava	Indian Institute of Remote Sensing Dehradun	Carbon Monoxide and Nitrogen Oxide Over Delhi: Investigation of Source Region	bhartendrais@gmail.com
PS1-P-177	Raja Obul Reddy Kalluria, Balakrishnaiah Gugamsettya, Rama Gopal Kotaloa*, Lingarajub	aAerosol and Atmospheric Research Laboratory, Department of Physics, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh 515 003, India bGovt. First Grade College, Tumkur 572102, Karnataka, India	Diurnal and seasonal variation of near surface carbon monoxide concentrations and their potential sources at Anantapur in the southern peninsular India	kalluri78@gmail.com
PS1-P-178	Manoj Kumar P K, Ebin Antony, R K Sunil Kumar	Department of Information Technology, Kannur University	MULTIVARIATE ANALYSIS OF GROUND LEVELS OZONE IN KANNUR, INDIA	mkumarpk25@gmail.com
PS1-P-179	Shailendra Kumar, Kiran Kumar	Space Physics Laboratory, VSSC, ISRO Trivandrum	Cloud characteristics at different depth, intensity and horizontal scale over India using Cloud radar	shailendrak89@gmail.com
PS1-P-180	Ketham Manideep, Raghuram PR, Sujith S	Vikram Sarabhai Space Centre (VSSC), ISRO	RF Characterisation of Bright band signature observations from C-Band Polarimetric Doppler Weather Radar	ketham.manideep3@gmail.com
PS1-P-181	Jagdish Jena(1) , K. N. Uma(2) , Bhukya Sama(2) and N. Chilukoti (1)	(1)National Institute of Technology, Rourkela . (2)Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Trivandrum	Investigation of the Premonsoon Convective Storms over the Western Ghats using ISRO's C-band Doppler Weather Radar	pikuljena2002@gmail.com
PS1-P-182	Nabarun Poddar (1,2) , Siddarth Shankar Das (1), K. N. Uma (1), M. Venkat Ratnam (3), M. Durga Rao (3)	(1)Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram-695022; (2) Department of Physics, University of Kerala, Thiruvananthapuram-695581; (3)National Atmospheric Research Laboratory, Gadanki-517112	Characteristics of atmospheric turbulence parameters during the passage of tropical cyclone: Results inferred from Advanced Indian MST Radar, radiosonde and COSMIC observations	nabarunpoddar1998@gmail.com
PS1-P-183	Bukya Sama and K. N. Uma	Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Trivandrum	Dynamics of Monsoon Mesoscale Convective Systems over Thumba: Insights from ISRO's C-Band Polarimetric Doppler Weather Radar	samanayak@yahoo.com
PS1-P-184	Shreyasi Upadhyay1, Parvathy Thankachy1, Saurabh Das1*, Sachin M. Deshpande2 and U.V. Murali Krishna2	(1)Department of Astronomy, Astrophysics and Space Engineering, Indian Institute of Technology Indore, Simrol, Indore, (2) India Indian Institute of Tropical Meteorology, ART-Bhopal, Madhya Pradesh, India	Characterization of Heavy Precipitation Event through Classification of Reflectivity Echoes	saurabh.das@iiti.ac.in
PS1-P-185	Jaya Thakur, RK Nayak, MV Ramana	NRSC, ISRO	Quantifying Himalayan Snow Cover Dynamics with ISRO's SCAT3/EOS06 and SCATSAT1 using Ku-band Scatterometers	jaya_t@nrsc.gov.in

PS1-P-186	Kaustubh Manoj Mujumdar	Indian Institute of Space Science and Technology	Paddy Crop Area Estimation and Transplanting dates retrieval using sentinel 1 for Thiruvavur district, Tamilnadu using Google Earth Engine	kaustubhmujumdar1998@gmail.com
PS1-P-187	Dhruv Dipakbhai Desai	N. V. Patel college of Pure and Applied Sciences (NVPAS), CVM University, Vallabh Vidyanagar, Anand 388120, Gujarat, India	Multicollinearity Effect of Fitting Coefficients on Water Vapor Retrieval Using Band Ratio Method	dhruvdesai640@gmail.com
PS1-P-188	Parthkumar N. Parmar, Mehul R. Pandya, Jalpesh A. Dave, Hasmukh K. Varchand, Dhiraj B. Shah, Vishal N. Pathak, Manoj Singh, Dhruv D. Desai, Himanshu J. Trivedi	1) N. V. Patel college of Pure and Applied Sciences (NVPAS), CVM University 2)Space Applications Centre (SAC), Indian Space Research Organisation (ISRO), Ahmedabad 380015, Gujarat, India 3) Sir P.T. Sarvajani College of Science, Veer Narmad South Gujarat University, Surat 395001, Gujarat, India	Advancing Fire Detection Capabilities of INSAT-3D: An in-Depth analysis of algorithm and limitations	parthparmar1481@gmail.com
PS1-P-189	Partha A. Patil, Arjun Adhikari, Harilal B. Menon	Remote Sensing Laboratory, School of Earth, Ocean and Atmospheric Sciences, Goa University, India	An improved algorithm for the space-based estimation of chromophoric dissolved organic matter in turbid estuaries and coastal waters	marine.partha@unigoa.ac.in
PS1-P-190	RP Naraiah ,Naveen Kumar P,D.Narsing Rao	Phd Scholar, Professor,3Former Surveying Engineer,Survey of India	A Steepest descent algorithm-based approach for NavIC/GNSS signals multipath mitigation	nara.413@gmail.com
PS1-P-191	Joydeb Saha, Colin Price, Tair Plotnik, Anirban Gaha	Department of Physics, Tripura University, India Porter School of the Environment and Earth Sciences, Tel Aviv University, Israel Institute of Earth Sciences, The Hebrew University of Jerusalem, Israel	Revisiting the study of Thunderstorms modulating the Upper Tropospheric Water Vapor	joydebphysics@gmail.com
PS1-P-192	K.P Aathira, M. Pramitha	IISER Thiruvananthapuram	Characteristics and long-term trend in tropopause parameters obtained from US high-resolution Radiosonde data	aathirakp23@iisertvm.ac.in
PS1-P-193	Ghouse Basha and M.Venkat Ratnam	National Atmospheric Research Laboratory, Department of Space, Gadanki 517112, India	Disturbing the Stratospheric Balance of water vapor, Ozone, temperature: The Enduring Impact of Hunga Tonga-Hunga Ha'apai volcanic eruption	mdbasha@gmail.com
PS1-P-194	Pooja Purushotham, Sanjay Kumar Mehta	1Atmospheric Observations and Modelling Laboratory, Department of Physics, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India	Thermal characteristics of the extreme tropopauses over the tropics	poojapurushotham5@gmail.com