

PS-01 [SESSION - 1, POSTER PRESENTATIONS]

26 Feb 2024 | Monday | 15:30 - 18: 00 hrs

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-185	Quantifying Himalayan Snow Cover Dynamics with ISRO's SCAT3/EOS06 and SCATSAT1 using Ku-band Scatterometers	Jaya Thakur, RK Nayak, MV Ramana	NRSC, ISRO
	PS1-P-186	Paddy Crop Area Estimation and Transplanting dates retrieval using sentinel 1 for Thiruvarur district, Tamilnadu using Google Earth Engine	Kaustubh Manoj Mujumdar	Indian Institute of Space Science and Technology
	PS1-P-187	Multicollinearity Effect of Fitting Coefficients on Water Vapor Retrieval Using Band Ratio Method	Dhruv Dipakbhai Desai	N. V. Patel college of Pure and Applied Sciences (NVPAS), CVM University, Vallabh Vidyanagar, Anand 388120, Gujarat, India
	PS1-P-188	Advancing Fire Detection Capabilities of INSAT-3D: An in-Depth analysis of algorithm and limitations	Parthkumar N. Parmar, Mehul R. Pandya, Jalpesh A. Dave, Hasmmukh K. Varchand, Dhiraj B. Shah, Vishal N. Pathak, Manoj Singh, Dhruv D. Desai, Himanshu J. Trivedi	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; Sir P.T. Sarvajanic College of Science, Veer Narmad South Gujarat University, Surat 395001, Gujarat, India
	PS1-P-189	An improved algorithm for the space-based estimation of chromophoric dissolved organic matter in turbid estuaries and coastal waters	Partha A. Patil, Arjun Adhikari, Harilal B. Menon	Remote Sensing Laboratory, School of Earth, Ocean and Atmospheric Sciences, Goa University, India
	PS1-P-190	A Steepest descent algorithm-based approach for NavIC/GNSS signals multipath mitigation	RP Naraiah, Naveen Kumar P,D.Narsing Rao	Advanced GNSS Research Laboratory, Hyderabad

PS-01 [SESSION - 2, POSTER PRESENTATIONS]

26 Feb 2024 | Monday | 15:30 - 18: 00 hrs

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-98	Characterization of Dust Aerosol Distribution over the Indian Region Using Infrared Observations from INSAT-3D Imager	C. B. Lima, S. S. Prijith and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram
	PS1-P-99	Investigating the role of mineral dust on net primary productivity over the Arabian Sea using satellite remote sensing	Chakradhar Rao Tandule, Mukunda M. Gogoi and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram, 695022, India
	PS1-P-100	An assessment of Aerosol Optical Depth (AOD) for air quality monitoring in India and adjoining regions during post-monsoon season	Shameela S F; Manoj K Mishra	Space Applications Centre, Ahmedabad; Indian Institute of Space Science and Technology, Thiruvananthapuram
	PS1-P-101	Impact of Aerosol Loading on Microphysical Processes in Warm Clouds over south Asia using Multi-satellite Observations	Sijo Joseph and Subin Jose	Newman College Thodupuzha, Kerala
	PS1-P-102	Indian Summer monsoon influence on aerosol over India Indian Summer monsoon influence on aerosol over India	IMRAN KHAN AND VENKTA RATNAM	Department of Electronics and Communications Engineering, Koneru Lakshmaiah Education Foundation, Guntur
	PS1-P-103	Constraining Biomass burning emission estimates using satellite data and lagrangian dispersion modeling	Akanksha Arora, Harish Gadhavi, S Ramachandran	Physical Research Laboratory
	PS1-P-104	Role of meteorology in aerosol-warm cloud interaction (ACI) over eastern IGP during winter season	Thejas K V, Vijayakumar S Nair and P R Sinha	Indian Institute of Space Science and Technology, Thiruvananthapuram, India; Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram
	PS1-P-105	Estimation of Satellite-based Air-Sea CO2 fluxes over the global ocean waters	Gowtham Krishna, Haritha M, Usman N, Ibrahim Shaik, P.V. Nagamani, Padma Kumari	National Remote Sensing Centre/ISRO, Hyderabad
	PS1-P-106	High-resolution two dimensional mapping of temperature, humidity and ozone over Indian region by geostationary satellite 'INSAT-3DR'	Meenu G., Siddarth Shankar Das & Veenus V.	University Of Kerala and Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram
	PS1-P-107	Long term regional variability of MODIS Aerosol Optical Depth over India and Adjoining Oceanic Regions	K. Niranjana, A. Neelima, V. Syamala, S. Srinivasa Rao and B. Spandana	ANDHRA UNIVERSITY, VISAKHAPATNAM

PS-01 [SESSION - 3, POSTER PRESENTATIONS]

27 Feb 2024 | Tuesday | 15:30 - 18: 00 hrs

Venue:

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-179	Cloud characteristics at different depth, intensity and horizontal scale over India using Cloud radar	Shailendra Kumar, Kiran Kumar	Space Physics Laboratory, VSSC, ISRO Trivandrum
	PS1-P-180	RF Characterisation of Bright band signature observations from C-Band Polarimetric Doppler Weather Radar	Ketham Manideep, Raghuram PR, Sujith S	Vikram Sarabhai Space Centre (VSSC), ISRO
	PS1-P-181	Investigation of the Premonsoon Convective Storms over the Western Ghats using ISRO's C-band Doppler Weather Radar	Jagdish Jena, K. N. Uma, Bhukya Sama and N. Chilukoti	National Institute of Technology, Rourkela; Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Trivandrum
	PS1-P-182	Characteristics of atmospheric turbulence parameters during the passage of tropical cyclone: Results inferred from Advanced Indian MST Radar, radiosonde and COSMIC observations	Nabarun Poddar, Siddarth Shankar Das, K. N. Uma, M. Venkat Ratnam, M. Durga Rao	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram-695022; Department of Physics, University of Kerala, Thiruvananthapuram-695581; National Atmospheric Research Laboratory, Gadanki-517112
	PS1-P-183	Dynamics of Monsoon Mesoscale Convective Systems over Thumba: Insights from ISRO's C-Band Polarimetric Doppler Weather Radar	Bukya Sama and K. N. Uma	Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Trivandrum
	PS1-P-184	Characterization of Heavy Precipitation Event through Classification of Reflectivity Echoes	Shreyasi Upadhyay, Parvathy Thankachy, Saurabh Das, Sachin M. Deshpande and U.V. Murali Krishna	Department of Astronomy, Astrophysics and Space Engineering, Indian Institute of Technology Indore, Simrol, Indore; India Indian Institute of Tropical Meteorology, ART-Bhopal, Madhya Pradesh, India

PS-01 [SESSION - 4, POSTER PRESENTATIONS]

27 Feb 2024 | Tuesday | 15:30 - 18: 00 hrs

Venue:

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-63	Multi-sensors observation of low level clouds and their inter-comparison over Indian Ocean	Harshbardhan Kumar, Shani Tiwari	Academy of Scientific and Innovative Research (AcSIR), Ghaziabad, India
	PS1-P-64	Utilizing Satellite Remote Sensing for Agricultural Water Budget Analysis: A Comprehensive Study	Devansh Desai, Mahi Patel	Silver Oak Institute of Science, Silver Oak University
	PS1-P-65	25 year climatology of cirrus cloud properties over a tropical station obtained using ground and space-based lidar observations	Riya Mol P and M Venkat Ratnam	National Atmospheric Research Laboratory
	PS1-P-66	Analysis of cloud top brightness temperature from INSAT-3D for nowcast	Chanabasanagouda S Patil, Shaik Darga Saheb and Kamsali Nagaraja	Department of Physics, Bangalore University, Bengaluru, India; India Meteorological department, KIAL, Bengaluru
	PS1-P-67	Study of thunderstorm and rainfall over Bengaluru using cloud top temperature of INSAT 3D satellite imaging	Shaik Darga Saheb, Chanabasanagouda S Patil and Kamsali Nagaraja	India Meteorological department, KIAL, Bengaluru; Department of Physics, Bangalore University, Bengaluru, India
	PS1-P-68	Analysis of extreme rainfall events in Dharampur, Himachal Pradesh using satellite observations and simulation.	Sreyasi Biswas, and Charu Singh	Indian Institute of Remote Sensing
	PS1-P-69	Assessing Indian Ocean Dipole Impact on Southern Peninsular Indian Rainfall Trends and Drought Characteristics by Remote Sensing	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
	PS1-P-70	Estimating Water Level and Discharge using satellite altimetry techniques in Narmada River Basin	Sarathi More, Saurabh Choubey. Space Applications Centre	The Maharaja Sayajirao University of Baroda, Central University of Gujarat, Space Applications Centre
	PS1-P-71	Monsoon Hadley Circulation in a changing climate : Impact on precipitation patternsclimate:	Sneha Susan Mathew, Karanam Kishore Kumar	Henry Baker College, Melukavu; Space Physics Laboratory, VSSC
	PS1-P-72	Estimation Radiative Effects of Deep Convective Clouds using Megha-Tropiques Satellite Observations	Nizy Mathew, Sisma Samuel and Sathiyamoorthy V	Space Physics Laboratory, VSSC; Royal Netherlands Meteorological Institute
	PS1-P-73	Temporal Analysis of Southwest and Northeast Monsoon Rainfall Trends in the State of Goa	Tukaram Zore, Kiranmayi Landu	Indian Institute of Technology Bhubaneswar
	PS1-P-74	Lightning and climate: A comparative study from Indian Lightning Detection Network (ILDN)	Anirban Guha, Trisanu Banik and Dipanjana De	Department of Physics, Tripura University, India, India Meteorological Department, New Delhi, India

PS1-P-75	In-situ Observation of Vertical Evolution of Precipitation in an Arctic Location	Lekhraj Saini, Saurabh Das, Nuncio Murukesh	Department of Astronomy, Astrophysics and Space Engineering, Indian Institute of Technology Indore, Simrol, Indore, 453552, MP, India. National Centre for Polar and Ocean Research (NCPOR), Headland Sada, Goa, 403804, Goa, India
PS1-P-76	Appraisal of collision-coalescence efficiencies during cloud burst over Sauni Binsar, Uttarakhand	Amit P Kesarkar, Jyoti Bhate, Pavani Goriparthi and Anantharaman Chandrasekar	National Atmospheric Research Laboratory, Indian Institute of Space Science and Technology
PS1-P-77	A 1-D model to retrieve the vertical profiles of minor atmospheric constituents for cloud microphysical modelling	Kavita Patnaik, Amit P. Kesarkar, Subhrajit Rath, Jyoti N. Bhate, and Anantharaman Chandrasekar	National Atmospheric Research Laboratory, Gadanki, Tirupati, Andhra Pradesh-517112, India. Indian Institute of Space Science & Technology, Valiamala, Kerala-695547, India.
PS1-P-78	Impact of weather disturbances on the ecosystem-atmosphere mass and energy exchanges at a subtropical forest in India	M.Naveen Reddy, Prमित K Deb Burman	Savitribai Phule Pune University, Pune, India; Indian Institute of Tropical Meteorology, Pune, India
PS1-P-79	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	Anup Kumar Mandal, A.D. Rao and Pawan Tiwari	Oceanic Sciences Division, Space Applications Centre, Ahmedabad; Centre for Atmospheric Sciences, IIT Delhi, New Delhi
PS1-P-80	Impact of Infrared heating/cooling-induced turbulence on vertical velocity inside stratiform cloud	Subhrajit Rath, Amit Kesarkar, Kavita Patnaik, Jyoti Bhate, and Govindan Kutty	National Atmospheric Research Laboratory and Indian Institute of Space Technology
PS1-P-81	Assessing the Performance of Convolutional Neural Networks with Gradient Descent and Genetic Algorithm Optimizers for Predicting Rainfall	Nirmal Govindaraj, Venkatavihan Devaki, Yash Bhisikar	Birla Institute of Technology And Science, Pilani, Pilani Campus; Birla Institute of Technology And Science, Pilani, Goa Campus
PS1-P-82	Predicting Rainfall using Multiple Deep Learning Models: A Case Study over North East India	Shanay Mehta, Ayush Ghatalia, Aditya Kulkarni	BITS PILANI KK BIRLA GOA CAMPUS
PS1-P-83	Meridional Structure and Genesis of Double ITCZ over Tropical Oceans: Insight from a Decade of CloudSat and CALIPSO Observations	Aswathy R S and K Rajeev	Space Physics Laboratory, Vikram Sarabhai Space Centre, Trivandrum, Kerala and Department of physics, University of Kerala

PS1-P-84	Investigation of the Genesis of Water Vapor, AOT, and Clouds over the Western-Indian Region	Dharmendra Kumar Kamat, Som Kumar Sharma, Aniket, Prashant Kumar, Aditya Vaishya, Kondapalli Niranjana 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
PS1-P-85	Investigating the Variation of Atmospheric Electric Field Over the Arctic Region	Kavita, Saurabh Das and Nuncio Murukesh	Department of Astronomy, Astrophysics and Space Engineering, Indian Institute of Technology Indore, Simrol, Indore, 453552, MP, India. National Centre for Polar and Ocean Research (NCPOR), Headland Sada, Goa, 403804
PS1-P-86	Role of rising temperature on cloud characteristics over the Arabian Sea	Ruchita Shah, Som Sharma and Rohit Srivastava	Pandit Deendayal Energy University and Physical Research Laboratory
PS1-P-87	Using a ground-based airglow imager to observed cloud parameters	R. N. Ghodpagea, A. Taorib, R. P. Patil, M.K. Patil, 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
PS1-P-88	Climatology and trend of tropical high altitude clouds using Gridded Satellite (GridSat) data	Muhsin M., and M K Ravi Varma	National Institute of Technology Calicut
PS1-P-89	Clausius-Clapeyron scaling during heavy precipitation in Ny Ålesund, Arctic with Case studies.	Athulya R and Nuncio Murukesh	National Centre for Polar and Ocean Research, Goa

PS1-P-90	The decadal time scale observation of rainfall microphysical characteristics over the orographic region	R. P. Patil, K. Chakravarty, R. R. Gaikwad and G. Pandithurai	Indian Institute of Tropical Meteorology, Pune
PS1-P-91	Investigation of precipitation, minimum and maximum temperature trends over North-East India and its contiguous areas	ROHIT GAUTAM, ARUP BORGOHAIN, BINITA PATHAK, SS KUNDU, SP AGGARWAL	Dibrugarh University
PS1-P-92	A Comparative Analysis of Variations in Cloud Properties and Precipitation over Western India using Machine Learning Algorithms	Rohit Srivastava and Niyati Mevada	Pandit Deendayal Energy University, Gandhinagar
PS1-P-93	Investigating cloud interaction with aerosol, radiation and rainfall over an easternmost location of North-East India	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
PS1-P-94	Observed mesoscale eddy dynamics in the Arabian Sea using 3-decades of satellite measurements	Shiva Shankar Manche, Rajesh S, Nagamani P V and Prakash Chauhan	National Remote Sensing Centre, Balanagar, Hyderabad, Telangana-500037
PS1-P-95	The Effect of Ions in Clouds and Precipitation Particles to the Electrical Conductivity and the Relaxation Time of the Air	M.Chandra	Poornima Institute of Engineering and Technology
PS1-P-96	The important role of ions in clouds formation and precipitation particles in relation to the electrical conductivity and electrification of clouds	Mukesh Chandra	Poornima Institute of Engineering and Technology
PS1-P-97	Deciphering Coupling of Soil-Rain Using Remote Sensing- A new State of Art	Swastika Chakraborty, Swapan Dolui, Sumon Kumar Mondal	Narula Institute of Technology, Kolkata, India

PS-01 [SESSION - 5, POSTER PRESENTATIONS]

28 Feb 2024 | Wednesday | 15:30 - 18: 00 hrs

Venue: Poster Hall-XYZ

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-191	Revisiting the study of Thunderstorms modulating the Upper Tropospheric Water Vapor	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
	PS1-P-192	Characteristics and long-term trend in tropopause parameters obtained from US high-resolution Radiosonde data	K.P Aathira, M. Pramitha	IISER Thiruvananthapuram
	PS1-P-193	Disturbing the Stratospheric Balance of water vapor, Ozone, temperature: The Enduring Impact of Hunga Tonga-Hunga Ha'apai volcanic eruption	Ghouse Basha and M.Venkat Ratnam	National Atmospheric Research Laboratory, Department of Space, Gadanki 517112, India
	PS1-P-194	Thermal characteristics of the extreme tropopauses over the tropics	Pooja Purushotham, Sanjay Kumar Mehta	Atmospheric Observations and Modelling Laboratory, Department of Physics, SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu, India

PS-01 [SESSION - 6, POSTER PRESENTATIONS]

28 Feb 2024 | Wednesday | 15:30 - 18: 00 hrs

Venue: Poster Hall-XYZ

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-108	How crucial is the role of liquid water content in the formation of secondary organic aerosols in the eastern Himalayas?	Dhananjay Kumar, Prashant Hegde, B.S. Arun, Mukunda M. Gogoi, S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram 695022, Kerala
	PS1-P-109	Seasonal variation of bioaerosols in ambient air and identification of pathogenic species	Jyotishree Nath	Aerosol and trace gas laboratory, Environment and sustainability department, CSIR-IMMT,BBSR
	PS1-P-110	Performance evaluation of satellite derived and MERRA-2 reanalysis fine particulate matter (PM2.5) concentration over India	Vaishnavi,Vikas Singh,Vikas	National Atmospheric Research Laboratory,Gadanki-517112
	PS1-P-111	Aerosol-Radiation Interaction over the North-western Himalayan region: Black Carbon, Shortwave Radiative Forcing and Heating Rate	Archana Bawari, Jagdish Chandra Kuniyal, Bimal Pande	GBPNiHE Kosi-Katarmal
	PS1-P-112	Anthropogenic Control on the Change in Precipitation Scenario Over India During Pre-Monsoon	Soumyajyoti Jana, Mukunda M Gogoi, and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram-695022, India
	PS1-P-113	Declining Black Carbon Concentration over an Indian coastal city, Bhubaneswar: A long-term analysis	Priyadatta Satpathy, R.Boopathy, Trupti Das	CSIR-Institute of Minerals and Materials Technology, Bhubaneswar, Academy of Scientific and Innovative Research (AcSIR), Ghaziabad
	PS1-P-114	Sources Based Formation Pathways of Water-Soluble Organic Aerosols over South Asia	C.B. Ramya, A.R. Aswini, P.Hegde, S.K.R. Boreddy and S.S. Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, ISRO, Thiruvananthapuram-695022, India
	PS1-P-115	Influence of LULC on aerosol-induced surface cooling over Indian region	Anas Ibnu Basheer, Vijayakumar S. Nair, S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India
	PS1-P-116	Effects of aerosol-induced surface cooling and atmospheric warming during the Indian summer monsoon	Arya V. B., Vijayakumar S. Nair, S. Suresh Babu	Space Physics Laboratory, VSSC ,ISRO
	PS1-P-117	A Comparative Analysis of Aerosol Optical Depth between Observations and CMIP6 Models across Diverse Indian Regions	Sidfa C., Pramitha M., Ravi Varma M. K.	NIT Calicut, IISER Thiruvananthapuram
	PS1-P-118	Black Carbon mass concentration and their correlation with meteorological parameters over Varanasi	Prashant Kumar Chauhan, Dileep Kumar Gupta, Abhay Kumar Singh	Department of Physics, Institute of Science, Banaras Hindu University

PS1-P-119	Administrative analysis of the agriculture and forest fires over India: A real-time fire monitoring system for air quality management	Vikas Singh, Abhishek Panchal, Amit Kesarkar, Akash Biswal	National Atmospheric Research Laboratory
PS1-P-120	Spatio-temporal analysis of the impact of ventilation coefficient on fine particle pollution in India.	Vikas, Vikas Singh, Vaishnavi	National Atmospheric Research Laboratory, Gadanki
PS1-P-121	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	S Satheesh Kumar and T Narayana Rao	National Atmospheric Research Laboratory (NARL), Gadanki 517112, India
PS1-P-122	Relatively Enhanced Absorption by Biomass Burning-Dominated Methanol-Soluble Brown Carbon Over the Northeastern Himalayas: A Dual Carbon Isotopic Study	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
PS1-P-123	Radiative Impacts of Elevated Aerosol Layers (EALs) using a synergy of balloon-borne, ground-based, and space-borne instruments	V. N. Santhosh, B.L. Madhavan, and M. Venkat Ratnam	National Atmospheric Research Laboratory (NARL), Indian Institute of Space Science and Technology (IIST)
PS1-P-124	Compositional analysis of atmospheric aerosols over Brahmaputra valley: A campaign mode study	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
PS1-P-125	Impact of land use land cover change on PM2.5 concentration and meteorological environment over the Delhi Metropolitan	Dr. Bharati Paul and Dr. Umesh Chandra Dumka	Aryabhata Research Institute of Observational Sciences
PS1-P-126	Aerosol liquid water and its impact on optical properties of submicron aerosols over northern and equatorial Indian Ocean during ICARB-2018	Suresh K.R. Boreddy, Vijayakumar S. Nair and S. Suresh Babu	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India
PS1-P-127	Classification of aerosols over the climate-sensitive Hindu Kush Himalayan region using Ground-based aerosol measurement	Shantikumar S. Ningombam; B. L. Madhavan; E. J. L. Larson; A. K. Srivastava; Swagata Mukhopadhyay	Indian Institute of Astrophysics, Bangalore; National Atmospheric Research Laboratory, Gadanki; University of Colorado, Boulder, CO 80309, USA ; Indian Institute of Tropical Meteorology, (Delhi Branch) Ministry of Earth Sciences, New Delhi

PS1-P-128	Validation of aerosol optical depth derived from reanalysis data with ground based observation over the climate sensitive Hindu Kush Himalayan region	Shantikumar S. Ningombam, B. L. Madhavan, A. K. Srivastava, Swagata Mukhopadhyay	Indian Institute of Astrophysics, Bangalore 560034, India, National Atmospheric Research Laboratory, Gadanki 517112, India , Indian Institute of Tropical Meteorology, (Delhi Branch) Ministry of Earth Sciences, New Delhi-110060, India
PS1-P-129	Cloud nucleating properties of atmospheric aerosols	Tamada Jayasri, V. Ravi Kiran, M. Venkat Ratnam	National Atmospheric Research Laboratory
PS1-P-130	Ponmudi Climate Observatory: A High Altitude Site for Aerosol-Cloud Interaction Study	P R Sinha	Indian Institute of Space Science and Technology, Thiruvananthapuram, India
PS1-P-131	Aerosol Optical Characteristics over Asia: AERONET Observations and MERRA-2 and CAMS Simulations	Kamran Ansari, S. Ramachandran	Physical Research Laboratory, Ahmedabad, 380009, India; Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar, 382055, India.
PS1-P-132	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?	Bharat Ji Mehrotra, Amit Kumar, RS Singh, AK Srivastava, MK Srivastava	Department of Geophysics, Institute of Science, Banaras Hindu University, Varanasi. Indian Institute of Tropical Meteorology, New Delhi. Indian institute of Technology (BHU), Varanasi
PS1-P-133	Long-Term Variability of Aerosol Optical Depth at ARFI Station, Agra: Insights for Advancing Space-Based Meteorology and Climate Change Analysis	Vaishnav Bartaria, Ashok Jangid, Ranjit Kumar	Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra
PS1-P-134	Variations in dust-induced radiative forcing during a strong dust storm over the Indian subcontinent	Jeni N Victor, Swapnil S. Podar, Gokul T, Devendraa Siingh, and G Pandithurai	Indian Institute of Tropical Meteorology, (Ministry of Earth Sciences), Pune, India
PS1-P-135	Long-Term Variability of Aerosol Optical Depth at ARFI Station, Agra: Insights for Advancing Space-Based Meteorology and Climate Change Analysis	Vaishnav Bartaria, Ashok Jangid, Ranjit Kumar	Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra.
PS1-P-136	Assessment of spatial heterogeneity of Fine Particulate Matter in Delhi	Vikas Singh, Akash Biswal, Amit P. Kesarkar, Khaiwal Ravindra, Sumar Mor, Gufran. Beig and Ranjeet S. Sokhi	National Atmospheric Research Laboratory, Gadanki, India; Post Graduate Institute of Medical Education and Research, Chandigarh, India; Panjab University, Chandigarh, India; National Institute of Advanced Studies
PS1-P-137	Identification of NH ₃ -slip as a major source of NH ₃ emission over an agricultural dominated site in the Indo Gangetic Plain	Chandrima Shaw, Neeraj Rastogi, Sanjeev Kumar, Ajayeta Rathi, and Rohit Meena	Geosciences Division, Physical Research Laboratory, Ahmedabad-380009, India. Department of Earth Science, Indian Institute of Technology Gandhinagar, Gandhinagar-382355, India

PS1-P-138	Post-monsoon Characteristics of NR-PM _{2.5} Over Ahmedabad: Insight from Aerosol Mass Spectrometry	Rohit Meena, Devaprasad M, Puneet Kumar Verma and Neeraj Rastogi	Physical Research Laboratory, Ahmedabad
PS1-P-139	Mass absorption cross section of black carbon for Aethalometer in the Arctic	Mohit Singh, Yutaka Kondo, Sho Ohata, Tatsuhiro Mori, Naga Oshima, Antti Hyvärinen, John Backman, Eija Asmi, Henri Servomaa, Franz Martin Schnaiter, Elisabeth Andrews, Sangeeta Sharma, Kostas Eleftheriadis, Stergios Vratolis, Yongjing Zhao, Makoto Koike, Nobuhiro Moteki, P. R. Sinha	Indian Institute of Space Science and Technology, Thiruvananthapuram; National Institute of Polar Research, Japan; Institute for Space–Earth Environmental Research, Nagoya University, Nagoya, Japan; Institute for Advanced Research, Nagoya University, Japan; Keio University, Japan; Department of Atmosphere, Ocean and Earth System Modeling Research, Meteorological Research Institute, Tsukuba, Ibaraki, Japan; Atmospheric Composition Research Unit, Finnish Meteorological Institute, Helsinki, Finland; Institute of Meteorology and Climate Research, Karlsruhe Institute of Technology, Germany; schnaiTEC GmbH, Werner-von-Siemens-Str. 2–6, 76646 Bruchsal, Germany; CIRES, University of Colorado, Boulder, Colorado, USA; NOAA Global Monitoring Laboratory, Boulder, Colorado, USA; Climate Research Division, Environment and Climate Change Canada; Environmental Radioactivity Laboratory (ERL), Institute of Nuclear and Radiological Science & Technology, Energy & Safety, National Centre for Scientific Research “Demokritos”, Greece; Air Quality Research Center, University of California-Davis, One Shields Ave., USA; Department of Earth and Planetary Science, Graduate School of Science, The University of Tokyo, Japan +Now at Tokyo Metropolitan University, Japan

PS1-P-140	Effect of aerosol hygroscopic growth on haze amplification and radiative forcing over Indo Gangetic Plains (IGP) during winter season	Thejas K V, Vijayakumar S Nair and P R Sinha	Department of Earth and Space Sciences, Indian Institute of Space Science and Technology, Valiamala, Thiruvananthapuram, India; Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, India
PS1-P-141	Application of machine learning to reduce observational gaps in aerosol parameters: method and implications	Mittal Parmar 1, Aditya Vaishya 1, Narendra Ojha 2, Mehul R. Pandya 3, Imran A. Girach 3	School of Arts and Sciences, Ahmedabad University, Ahmedabad - 380009, India; Physical Research Laboratory, Ahmedabad, India - 380009, India; Space Applications Centre, ISRO, Ahmedabad - 380015, India
PS1-P-142	AeroMix: a Python package for modeling aerosol optical properties and mixing states	Sam P. Raj, P. R. Sinha, Rohit Srivastava, Srinivas Bikkina, D. Bala Subrahmanyam	Department of Earth and Space Sciences, Indian Institute of Space Science and Technology Thiruvananthapuram, Kerala, 695547, India; National Centre for Polar and Ocean Research, Ministry of Earth Sciences, Govt. of India, Vasco-da-Gama, Goa, 403804, India; CSIR-National Institute of Oceanography, Dona Paula, Goa, 403004, India Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala, 695021, India
PS1-P-143	A Comparative Analysis of Air Quality Changes in India during Lockdown-2020, partial-Lockdown-2021 and post-Lockdown-2022	Midhun K Gopakumar	Central University of Rajasthan
PS1-P-144	Wavelet based semblance study of air resistivity during pre- COVID and COVID-19 lockdown time zones –Tamil Nadu	J. Arul Asir ,H. Johnson Jeyakumar , and C. P. Anil Kumar	P.G and Research Department of Physics, Pope's College, Sawyerpuram, Tuticorin-628251, Tamil Nadu, India. Equatorial Geophysical Research Laboratory, Indian Institute of Geomagnetism, Krishnapuram, Tirunelveli-627012, Tamil Nadu, India
PS1-P-145	Seasonal variability in the aerosol distribution, associated Direct Aerosol Radiative Forcing and Atmospheric Heating Rates over Goa	Avirup Sen, Atiba A. Shaikh, Harilal B. Menon	Remote Sensing Laboratory, School of Earth, Ocean and Atmospheric Sciences, Goa University
PS1-P-146	Depletion of aerosols in the atmospheric column due to cessation of emissions over the Indo-Gangetic Plain	Prayagraj Singh, Aditya Vaishya, Shantanu Rastogi	Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur. Ahmedabad University, Ahmedabad.

PS1-P-147	Study of Annual and Seasonal trend of Black Carbon over the central IGP	Bakhtawar H. Abdullah; Prayagraj Singh; Aditya Vaishya; Prabhunath Prasad and Shantanu Rastogi	Department of Physics, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur – 273 009, India. School of Arts and Sciences, Ahmedabad University, Ahmedabad – 380 009, India. Global Centre for Environment and Energy, Ahmedabad University, Ahmedabad – 380 009, India.
PS1-P-148	Chemical characterization and source identification of particulate matter at Ballari, in southern peninsular India	Usha Kajjer Virupakshappa a, Balakrishnaiah Gugamsettya, Penchal Reddy Matlia, Rama Gopal Kotaloa, Narasimhulu Kunchamb	Aerosol and Atmospheric Research Laboratory, Department of Physics, Sri Krishnadevaraya University, Anantapur, Andhra Pradesh 515 003, India; SSA Govt. First Grade College (Autonomous), Ballari, Karnataka, India
PS1-P-149	The effect of dust on near surface aerosol properties over a semi-arid station	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
PS1-P-150	Breakdown of Land-Sea Breeze circulation and associated black carbon variability over a coastal station, Goa, India	Mark J. Pinto, Arjun Adhikari and Harilal B. Menon	Remote Sensing Laboratory, School of Earth, Ocean and Atmospheric Sciences, Goa University - 403206. Goa, India
PS1-P-151	A positive bias in surface-reaching solar radiation in WRF-Chem model: role played by aerosol-radiation interactions	Sumit Kumar, Gaurav Govardhan, Shivsai A. Dixit, Sachin D. Ghude	Indian Institute of Tropical Meteorology, Pune-411008
PS1-P-152	Comparative Aerosol Optical Depth Analysis Between Indo-Gangetic and Western Himalayan Region	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
PS1-P-153	Study of transport of PM2.5 pollution in diurnal variability and role of meteorology over different locations of Delhi	Vaishali, Rupesh M. Das	Environmental Sciences & Biomedical Metrology Division, CSIR-National Physical Laboratory, Dr. K. S. Krishnan Marg, New Delhi-110012, India. Academy of Scientific and Innovative Research (AcSIR), CSIR-HRDC Campus, Postal Staff College Area, Sector 19, Kamla Nehru Nagar, Ghaziabad, Uttar Pradesh 201002
PS1-P-154	Influence of aerosol on heatwave	Ms. Betsy K B, Dr. Sanjay Kumar Mehta	SRM Institute of Science and Technology

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PS1-P-155	A Comparative Analysis of Air Quality Changes in India during Lockdown-2020, partial-Lockdown-2021 and post-Lockdown-2022	Midhun K Gopakumar	Central University of Rajasthan
PS1-P-156	Seasonal variation of black carbon over the Arctic	Ritesh Kumar and Rohit Srivastava	National Centre for Polar and Ocean Research, Ministry of Earth Sciences Govt. of India, Vasco-da-Gama, Goa
PS1-P-157	Soot Particle Black Carbon - Concentration, Emission, Deposition, and Morphological Mastery through FESEM	Ranjit Kumar, Vaishnav Bartaria, Ashok Jangid	Department of Chemistry, Faculty of Science, Dayalbagh Educational Institute, Dayalbagh, Agra.
PS1-P-158	A novel hybrid model based on soft computing and OPAC for estimation of aerosol's optical properties	SHALENDRA PRATAP SINGH, RANJIT KUMAR, ASHOK JANGID	Department of Physics and Computer Science, Faculty of Science, Dayalbagh Educational Institute (Deemed University)
PS1-P-159	A proposal for development of a space borne LIDAR payload for profiling the atmospheric aerosol and clouds	N.Sangeetha, Y. Bhavani Kumar	Vellore Institute of Technology, Vellore - 632014, National Atmospheric Research Lab, Department of Space, Government of India.

PS-01 [SESSION - 7, POSTER PRESENTATIONS]

29 Feb 2024 | Thursday | 15:30 - 18: 00 hrs

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-160	Investigating the Relationship between Upper Atmosphere NOx Dynamics and Lightning Events using WRF-Elec Chemistry	Venkatesh Degala, Alok Taori, Gaurav Gupta and Mallikarjun	National Remote Sensing Center, ISRO, Hyderabad
	PS1-P-161	Long term changes in pollution levels over New Delhi during post-monsoon season	Rounaq Goenka, Jaya Thakur, Alok Taori	National Remote Sensing Centre, ISRO
	PS1-P-162	CMAQ and IPR retrieval of changes in surface ozone and particulate matter during the COVID-19 outbreak in Kannur, Kerala	Nishanth T; Keerthi Lakshmi KA; Sunil Kumar MK; Akhil RK; Fei Ye; Dipesh Rupakheti; Satheesh Kumar MK	Department of Physics, Sree Krishna College Guruvayur, Thrissur, Kerala, India; Department of Information Technology, Kannur University, Kannur, India; Department of Physics, Malabar Christian College Kozhikode, Kerala, India; Jiangsu Key Laboratory of Atmospheric Environment Monitoring and Pollution Control, Nanjing University of Information Science & Technology, Nanjing, 210044, China; Department of Atomic and Molecular Physics, Manipal Academy of Higher Education, Karnataka, India
	PS1-P-163	Long Term Impacts of LU/LC changes on methane trends in India	Rounaq Goenka, Jaya Thakur, Alok Taori	National Remote Sensing Centre, ISRO
	PS1-P-164	Comparison of CO2 and methane estimates from GOSAT and OCO-2 satellites with ground based FTIR observations over India	Harish Gadhavi, Akanksha Arora, Chaithanya Jain, Mahesh Kumar Sha, Frank Hase, Matthias Frey, S. Ramachandran, A. Jayaraman	Physical Research Laboratory, Ahmedabad, India; Indian Institute of Technology, Gandhinagar, India; National Atmospheric Research Laboratory, Gadanki, India; Karlsruhe Institute of Technology, Karlsruhe, Germany; Royal Belgian Institute for Space Aeronomy, Brussels, Belgium

PS1-P-165	Chemistry - Climate Interaction over Eastern Himalayan Foothills	Binita Pathak, P. K. Bhuyan, Tamanna Subba, Arshini Saikia, Papori Dahutia, Ajay P, Chandrakala Bharali	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. International Centre for Integrated Mountain Development (ICIMOD), Kathmandu, Nepal. National Center for Atmospheric Research (NCAR), Colorado, 80307, USA
PS1-P-166	Comparison of Diurnal Variabilities in the ABL Ozone Concentration over different regimes in India : Role of ABL-FT Exchange	Seetha C.J; Dr. Sanjay Kumar Mehta	SRM Institute of Science and Technology, Chennai, India – 603203
PS1-P-167	Measurements of VOCs at a rural site in India: variability, sources and their impact on OFP and SOAP	S Sindhu	National Atmospheric Research Laboratory
PS1-P-168	"Particulate/Gaseous Pollutants and solar radiation fluctuations over Bhubaneswar amidst two special events: Diwali and solar eclipse"	Monalin Mishra, Ramasamy Boopathy, Chinmay Mallik, Trupti Das	Aerosol & Trace gases Laboratory, Environment & Sustainability Department, CSIR-Institute of Minerals & Materials Technology (CSIR-IMMT), Bhubaneswar-751013, Odisha, India. Academy of Scientific and Innovative Research (AcSIR), Ghaziabad-201002, India. Department of Atmospheric Science, Central University of Rajasthan, Kishangarh, Rajasthan 305817, India
PS1-P-169	Dimethyl sulphide and isoprene over the northern Indian Ocean: Sources and Atmospheric processes	Mansi Gupta, Nidhi Tripathi, Arvind Singh, L. K. Sahu	Physical Research Laboratory, Ahmedabad

PS1-P-170	Ozone air quality in rapidly urbanizing Doon valley of the Indian Himalaya: Observational and modeling perspectives	S. Harithasree, Kiran Sharma, Imran A. Girach, Lokesh K. Sahu, Prabha R. Nair, Narendra Singh, Johannes Flimming, 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
PS1-P-171	Estimation of Methane Fluxes in Rice Agro-ecosystem using Ground Based-Fluxes and Space Sensing over Semi-Arid Region of Gujarat	Rahul Nigam ; Vivek Rakshit and Bimal K Bhattacharya	Space Applications Centre (ISRO), Ahmedabad, 3800 15, Gujarat, India. Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala, India
PS1-P-172	Methane Hotspots and Cloud Optical Properties over the Indian Subcontinent	Dipanjana De, Trisanu Banik, Anirban Guha	Tripura University, India Meteorological Department
PS1-P-173	Water Quality Analysis of River Sabarmati using in-situ and Remote Sensing Dataset	Aniket Tomar, Saurabh Choubey, and Shard Chander	The Maharaja Sayajirao University of Baroda, Vadodara, Central University of Gujarat, Gandhinagar, Space Applications Centre, ISRO, Ahmedabad
PS1-P-174	Influence of land-atmosphere interactions on trace constituents over the Indian subcontinent: Combining measurements with regional modeling	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
PS1-P-175	Source attribution of carbon monoxide over Northern India during crop residue burning period over Punjab	Abhinav Sharma, Shuchita Srivastava, D. Mitra	Indian Institute of Remote Sensing
PS1-P-176	Carbon Monoxide and Nitrogen Oxide Over Delhi: Investigation of Source Region	Bhartendra Kumar, Shuchita Srivastava	Indian Institute of Remote Sensing Dehradun
PS1-P-177	Diurnal and seasonal variation of near surface carbon monoxide concentrations and their potential sources at Anantapur in the southern peninsular India	Raja Obul Reddy Kalluri, Balakrishnaiah Gugamsetty, Rama Gopal Kotalo, Lingaraju	Aerosol and Atmospheric Research Laboratory, Department of Physics, Sri Krishnadevaraya University, Anantapur; Govt. First Grade College, Tumkur 572102, Karnataka, India
PS1-P-178	MULTIVARIATE ANALYSIS OF GROUND LEVELS OZONE IN KANNUR, INDIA	Manoj Kumar P K, Ebin Antony, R K Sunil Kumar	Department of Information Technology, Kannur University

PS-01 [SESSION - 8, POSTER PRESENTATIONS]

29 Feb 2024 | Thursday | 15:30 - 18: 00 hrs

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-01	A High-Resolution Two-Dimensional Lightning-Flash Mapping System	Jayant chouragade, T.V.Chandrasekhar Sarma	National Atmospheric Research Laboratory, Dept. of Space, Govt. of India
	PS1-P-02	Estimation of Boundary Layer Height and Cloud Base Height over a Western Ghat region	Abhinav B Roy; Pramitha M	IISER Thiruvananthapuram
	PS1-P-03	Probing a post monsoon Mesoscale Convective System and upward electric discharges over Indian Low Latitude Region	Adarsh Dube, Rajesh Singh	India Meteorological Department
	PS1-P-04	Observational Study of the Dispersion of Warm Fog Droplet Spectrum	Sandeep Wagh, Anriya Byju, P. Pradeep Kumar and Sachin D. Ghude	Indian Institute of Tropical Meteorology, Pune
	PS1-P-05	Retrieval of water vapor information from Radio Refractivity profiles without any external information: Some Observations	Deveerappa Jagadheesha	Science Programme Office, ISRO Headquarters, Antariksh Bhavan, New BEL Road, Bangalore 560094.
	PS1-P-06	SOIL-AIR INTERFACE SOLVER FOR ESTIMATION OF EVAPORATION LOSSES FROM DIFFERENT TYPES OF SOIL	Jiteshwar Dadich, Amit P. Kesarkar, Jyoti Bhate, A. Chandrasekar	National Atmospheric Research Laboratory, Gadanki, Andhra Pradesh, 517112. Indian Institute of Space Science and Technology, Valiamala P.O., Thiruvananthapuram, 695547, Kerala
	PS1-P-07	Soil Moisture measurement at high temporal resolution with Multi-constellation GNSS Interferometric Reflectometry	T.V.ChandrasekharSarma, G. Naga Sai Madhavi, P. Sharath Kumar	National Atmospheric Research Laboratory
	PS1-P-08	Analysis of optimal number of GNSS Receivers and Field Type for Tomographic Inversion of Water Vapor Profiles	G. S. V. Chandrakanth, T. Narayana Rao, B. Radhakrishna	National Atmospheric Research Laboratory
	PS1-P-09	Quantifying Himalayan snow cover dynamics with ISRO's SCAT3/EOS06 and SCATSAT1 using Ku-band scatterometers	Jaya Thakur, Rabindrakumar Nayak, Ramana MV, Prakash Chauhan	National Remote Sensing Centre
	PS1-P-10	Probability of Thunderstorm Nowcasting through Deep Learning Technique using INSAT-3D Satellite Images	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

PS1-P-11	Influence of mixed Rossby-gravity waves on the north-east monsoon rainfall over south India.	Kartheek Mamidi, Nithya K, Vincent Mathew, and Sijikumar S	Department of Physics, Central University of Kerala, India. Space Physics Laboratory, Vikram Sarabhai Space Centre, Indian Space Research Organisation, India.
PS1-P-12	Observations and numerical model based study to unravel intricacies of monsoon rainfall characteristics over the North-West Himalayan region	Charu Singh, Anjana VS, Ahana Mukhopadhyay, Ashish Navale, Debangshu Banerjee, Vidhi Bharti	IIRS, ISRO, Dehradun
PS1-P-13	Effect of onshore winds on the coastal boundary layer over a semi-urban site in eastern India	M Santosh, V Sathiyamoorthy, Asish Kumar Ghosh	Space Physics Laboratory, Vikram Sarabhai Space Centre, Indian Space Research Organisation, Thiruvananthapuram, India
PS1-P-14	ABL characteristics and climatology over NER using measurement and reanalysis data (1980-2020)	Arup Borgohaina, Manasi Gogoi, Shyam S. Kundu, Arban Youroi, Rohit Gautamb, Arundhati Kundu, S.P. Aggarwala	North Eastern Space Applications Centre
PS1-P-15	Climatological Characteristics of the Strong Boundary Layer Winds of the Palghat Gap	V. Sathiyamoorthy, Swathi B and Sisma Samuel	Space Physics Laboratory, VSSC, ISRO
PS1-P-16	Surface Roughness Parameters over a Semi-Arid Site near Hyderabad	Sai Krishna V. S. Sakuru, K. Mallikarjun, N.V.P. Kiran Kumar, and M.V. Ramana	Earth and Climate Sciences Area, National Remote Sensing Centre, Hyderabad, Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram
PS1-P-17	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	Shravan Kumar Muppa and M. Mohapatra	India Meteorological Department
PS1-P-18	Diurnal evolution of atmospheric boundary layer structure over Mahendragiri	KiranKumar NVP, Shirin Fathima PT, Sathiyamoorthy V and Sunil Kumar SV	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala, 695022
PS1-P-19	Weather over HAL and BIAL Airports: Analysis using Python and Shell Scripting	C M Pranav, Aditi R Unakal, Nanditha Subhash, Mrudula G	M S RAMAIAH UNIVERSITY OF APPLIED SCIENCE , CSIR- NATIONAL AEROSPACE LABORATORY
PS1-P-20	Retrieval and Analysis of Meteorological Data at HAL Airport, Bangalore.	Aditi R Unakal, C M Pranav, Nanditha Subhash, Mrudula G	M S RAMAIAH UNIVERSITY OF APPLIED SCIENCE , CSIR - NATIONAL AEROSPACE LABORATORY
PS1-P-21	Evaluating Disruptions in the Hydrological Cycle in Indian Forest Ecosystems: Analysis of Drought Patterns, Water Use Efficiency, and Ecological Resilience	Triparna Sett, Bhaskar R. Nikam	Indian Institute of Remote Sensing, ISRO

PS1-P-22	Evaluation of Millimeter-wave Humidity Sounder onboard EOS-07 with global radiosonde measurements: preliminary results	Kandula V Subrahmanyam, Karanam Kishore Kumar, Manoj Kumar Mishra, Pradeep Kumar Thapliyal, Rabindrakumar Nayak, M.V. Ramana, Rajashree V Bothale and Prakash Chauhan	National Remote Sensing Centre (NRSC), ISRO, Hyderabad, India, Space Physics Laboratory, Vikram Sarabahi Space Centre, ISRO, Trivandrum, India, Space Application Centre (SAC), ISRO, Ahmedabad, India.
PS1-P-23	Analysis of potential gradient and point discharge current along with meteorological observations in Shillong, North Eastern India	Visuzoto Valeo, Pramila Vinayak Koparkar	Department of Physics, Kohima Science College (Autonomous), Jotsoma-797002, Nagaland, India, Department of Basic Science and Social Sciences, North-Eastern Hill University, Shillong, 793022, Meghalaya, India
PS1-P-24	Optimal Land Surface Temperature Validation Site In Western Rajasthan For GISAT Sensor	Dhiraj B Shah	Sir P.T. Sarvajani College of Science, Veer Narmad South Gujrat University
PS1-P-25	Bias Correction in Ensemble Forecasting: A Machine Learning Perspective for Climate Prediction	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
PS1-P-26	Identification of Submarine Groundwater Discharge in the western coast of Gujarat using Remote Sensing Thermal analysis and Geo-electrical method	Chirag Wadhwa, Praveen K Gupta, Kamlesh Patel and Shard Chander	Space Applications Centre, Ahmedabad and Junagadh Agricultural University, Junagadh
PS1-P-27	Agricultural Drought Monitoring in Western India using MODIS Observations	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.
PS1-P-28	Optimizing Extreme Weather Event Classification: Weather Data Preprocessing and Cluster-Based Techniques	B Sudarsan Patro, Prashant P. Bartakke	COEP TECHNOLOGICAL UNIVERISTY PUNE
PS1-P-29	Developing a data-driven Linear Time-invariant model for estimating soil moisture and irrigation water volume from precipitation	Aayushi Kochar, Bramha Dutt Vishwakarma	Centre for Earth Sciences, Indian Institute of Science, India, Interdisciplinary Centre for Water Research, Indian Institute of Science, India

PS1-P-30	Surface-atmosphere water exchange in a warmer environment over India	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
PS1-P-31	ANTARCTICA WARMING INDUCES ALARMING NEGATIVE IMPACT ON INDIAN SUMMER MONSOON RAINFALL	V.S.L Bhargavi, Dr. V. Brahmananda Rao, Dr. C.V Naidu	Andhra University
PS1-P-32	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	Edwin Borrison , A Chandrasekar	Indian Institute of Space Science and Technology, Thiruvananthapuram
PS1-P-33	Rapidly intensified, long duration North Indian Ocean tropical cyclones: Mesoscale downscaling, validation, and important dynamical-thermodynamical features.	Arpita Muni. Amit Kesarkar, Jyoti Bhate, Abhishek Panchal	National Atmospheric Research Laboratory, Tirupati
PS1-P-34	Rainfall Trend over South India during different seasons: An assessment of present and distinct future scenarios	Nithya K, S Sijikumar, Aneesh S	Space Physics Laboratory, Vikram Sarabhai Space Centre, INDIA , Centre for Climate Physics, Institute for Basic Science, Busan, South Korea
PS1-P-35	Heat Wave Intensification Linked to Mocha Cyclone: Implications for Climate Change	Sakshi Sharma, Arun Chakraborty Anumeha Dube, Harvir Singh, Abhishek Kumar, and Raghavendra Ashrit	Centre for Ocean, River, Atmosphere and Land Sciences (CORAL) Indian Institute of Technology, Kharagpur, West Bengal, India-721302, National Centre for Medium Range Weather Forecasting, Ministry of Earth Sciences, A-50, Sector-62, Institutional Area Phase-II, NOIDA 201309, Uttar Pradesh, India
PS1-P-36	Understanding And Unravelling the Role of PBL in Urban Fog: A Case of WIFEX at New Delhi.	Anriya Byju, Dr Sandeep Wagh	Savitribai phule pune University, Department of Atmospheric sciences

PS1-P-37	Characterization of Atmospheric Boundary layer over Dibrugarh using ground based remote sensing techniques	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
PS1-P-38	Partitioning the Atmospheric Boundary Layer Flow using Wavelets	Sonali Maurya, A.Chandrasekar, Sambhu KV Namboodiri	IIST and VSSC, ISRO
PS1-P-39	A New Prewhitening Method for Trend Detection in the atmospheric Time Series	Rahul Sheoran and U.C. Dumka	Aryabhata Research Institute of Observational Sciences (ARIES)
PS1-P-40	Analysis of thunderstorms associated with ASANI cyclone observed from Tirunelveli (8.7 N, 77.8 E)	Sarvesh Chandra, C.P. Anil Kumar, C. Panneerselvam, C.Selvaraj ,J Arul Asir and M.K.Sheriff	Equatorial Geophysical Research Laboratory, Indian Institute of Geomagnetism, Krishnapuram, Tirunelveli, Tamil Nadu, India - 627011, Dept. of Physics, Popes College, M. S. University, Tirunelveli, Tamil Nadu, India - 628251, Dept. of Physics, Central University of Kerala, Kasargod, Kerala, India – 671320
PS1-P-41	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 (LISE)	Mari Riba, A Chandrasekar	Indian Institute of Space Science and Technology (IIST), Thiruvananthapuram
PS1-P-42	Assessing Post-Cyclone Devastation Along the East Coast of India During the North-East Monsoon Season: A MODIS Data Analysis	Swetha S, K.V. Ramesh	Earth and Engineering Sciences division, Council of Scientific and Industrial Research-Fourth Paradigm Institute (CSIR-4PI), Bengaluru-560037, Karnataka, India. Academy of Scientific and Innovative Research (AcSIR), Ghaziabad - 201002, India

PS1-P-43	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	Aniket Chakraborty, Binita Pathak, Pradip Kumar Bhuyan	Centre for Atmospheric Studies, Dibrugarh University, Dibrugarh, Assam; Department of Physics, Dibrugarh University, Dibrugarh, Assam
PS1-P-44	Trends of actual evapotranspiration as a response of climate variability and vegetation cover change over the North East India	Anindita Borah, Binita Pathak, Pradip Kumar Bhuyan	Dibrugarh University
PS1-P-45	Investigation of Meteorological Parameters on S.N. Bose Astronomical Observatory at Panchet Hilltop, Purulia	Soumen Mondal, Ramkrishna Das, Tapas Baug, Soumita Chakraborty	S. N. Bose National Centre for Basic Sciences, Kolkata, India
PS1-P-46	Exploring the Interplay: Climate Variability and Kharif Rice Yield in Northeastern India	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
PS1-P-47	Thunderstorm linkage with cloud top temperature, upper tropospheric humidity, and precipitation rate at multiple IMD locations during 2018 over Kerala	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
PS1-P-48	Importance of Land Surface feedback during the active phases of the Indian Summer Monsoon	Pratibha Gautam, Rajib Chattopadhyay, Gill Martin, Susmitha Joseph, A.K. Sahai	Indian Institute of Tropical Meteorology, Pune, Savitribai Phule Pune University, India Meteorological Department Pune, Maharashtra 411005 4. Met Office, Exeter, UK
PS1-P-49	Diurnal and Seasonal Variation of Surface Radiation Balance Parameters Over Mahendragiri	Fathima Shirin PT, Prabhakar Sachin, KiranKumar NVP, Sathiyamoorthy V and Sunil Kumar SV	Space Physics Laboratory, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala, 695022
PS1-P-50	Study of Seasonal Dynamics and Interdependencies of Cloud Base Height, Precipitation, Humidity, and Temperature over the Ahmedabad region	Aniket, Dharmendra Kamat, Som Sharma, Virendra Padhya, R.D. Deshpande	Physical Research Laboratory, Ahmedabad, India
PS1-P-51	Effects of meteorological parameters on UAV's	Nanditha Subhash and Mrudula G	CSIR- National Aerospace Laboratories
PS1-P-52	Dynamics of the Atlantic Multi-decadal Oscillation and Its impact on the Indian Summer Monsoon: Insights from Holocene climate records and modeling	Md Kaif, Sabin T P, R Krishnan, Naveen Gandhi	Indian Institute of Tropical Meteorology, Pune

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PS1-P-53	Analysis of potential gradient and point discharge current along with meteorological observations in Shillong, North Eastern India	Visuzoto Valeo, Pramila Vinayak Koparkar	Department of Physics, Kohima Science College (Autonomous), Jotsoma-797002, Nagaland, India Department of Basic Science and Social Sciences, North-Eastern Hill University, Shillong, 793022, Meghalaya, India.
PS1-P-54	Understanding the Dynamics of Heat Waves over India: Causes and Trends	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.

PS-01 [SESSION - 9, POSTER PRESENTATIONS]

29 Feb 2024 | Thursday | 15:30 - 18: 00 hrs

Time	Abstract ID	Topic (Poster Presentations)	Author	Affiliation
	PS1-P-55	A Comprehensive Analysis of Oceanic and Atmospheric Factors Influencing the Formation and Rapid Intensification of Tropical Cyclone Ockhi	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
	PS1-P-56	Sediment Plume following ocean current pattern as observed by EOS-06	Reema Mathew, Mohammed Suhail, P.V. Nagamani	National Remote Sensing Centre
	PS1-P-57	A Smartphone camera is used in Morpho dynamic Beach state and Rip current risk estimation	Ch Venkateswarlu, Surisetty V V Arun Kumar, M Ramesh, B Gireesh, C V Naidu1 Rashmi Sharma	Andhra University Visakhapatnam
	PS1-P-58	Physical and dynamical changes of Arabian Sea due to Marine Heatwaves	P Tarakeshwar, K. Muni Krishna	Dept of Meteorology and Oceanography, Andhra University, Visakhapatnam, India
	PS1-P-59	Assessing Wind Energy Potential Using Scatterometers: A Two-Decade Analysis	Shashank Kumar Mishra, Rajesh Sikhakoli	National Remote Sensing Centre
	PS1-P-60	Interannual Variations in the Mean Kinetic Energy over Global scale during an El-Nino Year vs Neutral year	Nishi Srivastava	Birla Institute of Technology, Mesra, Ranchi
	PS1-P-61	Understanding the impact of Marine Heat events on Arabian Sea primary productivity through satellite data analysis.	Om Joshi , Prashant Chauhan, Manisha Vithalpura, Debajyoti Ganguly , and Smitha Ratheesh	Department of Physics, IISHLS, Indus University, Ahmedabad. Oceanic Sciences Division, Space Applications Centre, Ahmedabad.
	PS1-P-62	Chlorophyll-a concentration and its relation with Sea Surface Temperature, Ekman Mass Transport and Precipitation along West Coast of India using Remote Sensing data.	Avinash A Arondekar, Aftab A Can	SEOAS, Goa University, Taleigao- Goa.