WEATHER CLIMATE WATER
TEMPS CLIMAT EAU

WMO OMM
World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat
7 bis, avenue de la Paix – Case postale 2300
CH 1211 Genève 2 – Suisse
Tél.: +41 (0) 22 730 81 11
Fax: +41 (0) 22 730 81 81
wmo@wmo.int – public.wmo.int

Ref.: 07490/2024-L6 I/WIGOS

Our ref.: 07490-2024/I/WIGOS

29 April 2024

Annex: 1 (available in English only)

Subject: The eighth WMO Workshop on the Impact of Various Observing Systems on Numerical Weather Prediction and Earth System Prediction – possible sponsorship

Action required: To inform if you would be able to provide any sponsorship to the workshop

Dear Sir/Madam,

The World Meteorological Organization (WMO) is organizing the eighth WMO Workshop on the Impact of Various Observing Systems on Numerical Weather Prediction (NWP) and Earth System Prediction (ESP), from 27 to 30 May 2024. The impact workshop will be hosted by the Swedish Meteorological and Hydrological Institute (SMHI), at their headquarters in Norrköping, Sweden, and will be conducted in English.

The impact workshop series is an important quadrennial venue for providing scientific evidence on the impacts of surface and space-based observing systems, on different applications, including NWP and Earth System Applications such as climate. The outcomes of the workshops aim at providing guidance on how to optimize the deployment of the current global observing systems and on how to guide their future design and evolution.

Participation in the impact workshop is open to all experts active in the field of impact studies of the observing systems, either from the NWP centres, or from any other institutes or communities involved in ESP.

The interest for the 8th workshop is already huge. There are around 150 abstracts included in the provisional workshop programme (available in the annex), and more than 250 registrations, for either in-person or online participation.

Unfortunately, our limited budget does not allow to accommodate many of the requests for the financial support and high-standard organization of the workshop, therefore we are exploring other options.

The purpose of this letter is to seek your potential sponsorship to the workshop, such as providing financial support for travel of the participants (either by providing contributions to the WIGOS Trust fund or by providing support directly to the participants), taking an invoice of on-site printing of the posters, cover the costs of the workshop ice breaker or dinner, or simply providing rucksacks/bags with some promotional material.

To: The Coordination Group for Meteorological Satellites, Secretariat
Committee on Earth Observing Satellites, Secretariat
UNESCO/Intergovernmental Oceanographic Commission, Head of Ocean Observations and Services Section
HydroMeteorological and Environmental Industry (HMEI), Secretariat

Ref.: 07490/2024-L6 WIGOS

All the sponsors will be acknowledged in the workshop report, but we may consider displaying their logos in an appropriate way at the workshop website and onsite, in the SMHI conference facilities onsite.

More information about the workshop can be found at the workshop website: 8th WMO Impact Workshop.

Should you be willing to support the workshop organization in any sense, do not hesitate to contact us via email to Mr Krunoslav Premec, kpremec@wmo.int, preferably before 3 May 2024.

I should be grateful if you would make this letter known within your respective members/partners who might have an interest, or beyond, as appropriate.

Yours faithfully,

Mr Nir Stav
Director
Infrastructure Department

Ref.: 07490/2024-L6 WIGOS

Provisional PROGRAMME

(as of 12 April 2024)

Monday, 27 May 2024			
Time	**Title of presentations**	**Author(s)**	**Attendance**
8:00 – 9:00	Registration		
Session 1: High-level Overviews Chairs: Sid Boukabara, Seiyoung Park			
9:00 – 9:15	Welcoming Remarks	SOC, LOC, SMHI, WMO	In-person
9:15 – 9:30	Overview of the Purpose, Status and Plans of the WMO effort to Align the Global Observing System to Meet the Global User's Needs: Importance of the Impact Workshop	Erik Andersson	In-person
9:30 – 9:45	Overview of WIGOS and Role of the Impact Workshop	Albert Fischer	In-person
9:45 – 10:00	SMHI Earth System Prediction and Observing Systems	Magnus Lindskog	In-person
10:00 – 10:15	NOAA's future plans to support Numerical Weather Prediction and Earth system prediction including results from recent observing system experiments	Satya Kalluri	In-person
10:15 – 10:30	A seamless view from satellites to the operations.	Paolo Ruti	In-person
10:30 – 11:00	**Coffee / Tea Break**		
Session 2: Global NWP and Earth System Prediction (ESP) Impact Studies Chairs: Ronald Gelaro, Patricia de Rosnay			
11:00 – 11:20	**Keynote** Testing the impact of assimilating screen-level temperature and relative humidity into the land and/or atmosphere of NOAA's global NWP model	Clara Draper	In-person

Ref.: 07490/2024-L6 WIGOS

11:20 – 11:35	Global and regional scale data denial studies at Bureau of Meteorology	Fiona Smith	Online
11:35 – 11:50	Recent assessment of observation impact through the global data denial experiments at the Met Office	Samrat Nahidul	Online
11:50 – 12:05	Evaluation of the Impact of FY-3E Observations on Numerical Weather Prediction using CMA Global 4D-Var system	Wei Han	In-person
12:05 – 12:20	Impact of Assimilating Surface Sensitive IASI and CrIS Radiance Observations Over Land in the NASA GEOS	Niama Boukachaba	Online
12:20 – 13:05	**Session 2 Poster presentations**		
13:05 – 14:15	**Lunch break / Poster viewing**		
Session 2: Global NWP and Earth System Prediction (ESP) Impact Studies Chairs: Ronald Gelaro, Patricia de Rosnay			
14:15 – 14:35	**Keynote** The potential of Argo data to improve coupled numerical weather prediction	Peter Oke	Please register and confirm
14:35 – 14:50	A proximity- and similarity-based clustering approach for atmospheric motion vector super-observations	Brett Hoover	Online
14:50 – 15:05	Assimilation of Mode-S data in Météo-France NWP models	Vivien Pourret	Online
15:05 – 15:20	Assimilation of ocean surface wind data of HY-2B Satellite in GRAPES: Impacts on the Analyses and Forecasts	Jincheng Wang	In-person
15:20 – 15:35	Impact of land surface and snow observations on ECMWF NWP	Patricia de Rosnay	In-person
15:35 – 16:00	**Coffee / Tea Break**		
16:00 – 16:15	Impact of Assimilating COWVR in the Navy's Global Numerical Model and RFI Detection and Mitigation Strategies	Hui Christophersen	In-person
16:15 – 16:30	Canadian Surface Reanalysis (CaSR): Assessing the Impact of Various Observations on Numerical Weather, Earth System and Hydrological Prediction using GEM Atmospheric Model and Canadian Land Data Assimilation System (CaLDAS)	Milena Dimitrijevic	In-person

Ref.: 07490/2024-L6 WIGOS

16:30 – 16:45	Stratospheric seasonality and its implications for observation requirements	Bruce Ingleby	In-person Please confirm
16:45 – 17:00	Impact of assimilation of surface and ocean in-situ observations on the ECMWF ORAS6 system and coupled forecasts	Hao Zuo	Please confirm
17:00 – 17:45	**Discussion Session 2** Facilitators: Ronald Gelaro, Patricia de Rosnay		

Tuesday, 28 May 2024			
Time	**Title of presentations**	**Author(s)**	**Attendance**
Session 3: Regional and Thematic Impact Studies **- Oceans, Hydrology, Land, Cryosphere, Space Weather –** Chairs: Marilaure Grégoire, Magnus Lindskog			
9:00 – 9:20	**Keynote** Past achievements and ongoing efforts of ocean in situ data evaluation made by the international ocean and S2S prediction community	Yosuke Fujii	In-person
9:20 – 9:35	The New Operational of Indonesian Ocean Forecast System based on High Resolution Couple Atmosphere-Wave-Ocean Model (InaCAWO)	Furqon Alfahmi	In-person
9:35 – 9:50	Use and impact of BGC and physical Argo observations on the Mercator Ocean global prediction system	Elisabeth Remy	In-person
9:50 – 10:05	Synergy of Ocean Observations and Biogeochemical Models	Véronique Garçon on behalf of Fei Chai	In-person
10:05 – 10:20	Marine heatwaves in the Mediterranean Sea: three-dimensional assessment and impacts integrating multi-platform observations	Mélanie Juza	Online
10:20 – 10:35	Developing flood monitoring system to support flood prediction capabilities	Jiawei Hou	Online
10:35 – 11:00	**Coffee / Tea Break**		

Ref.: 07490/2024-L6 WIGOS

11:00 – 11:20	**Keynote** Every 30-second Phased Array Radar Data Assimilation Proven Effective for Short-range Convective Weather Forecast	Takemasa Miyoshi	In-person
11:20 – 11:35	Impact of Aeolus winds in the regional scale Harmonie model	Gert-Jan Marseille	In-person
11:35 – 11:50	Benefits and challenges in assimilating near-surface temperature and humidity observations in complex terrain	Daniel Leuenberger	Please register and confirm
11:50 – 12:05	Assimilation of RAMAN lidar temperature and mixing ratio profiles in a 1-km operational NWP system	Bas Crezee	In-person please confirm
12:05 – 12:20	Assimilation of SMAP soil moisture in the high-resolution NCUM-R Modeling System over India	M. V. S. Ramarao	In-person
12:20 – 13:05	**Session 3 Poster presentations**		
13:05 – 14:15	**Lunch break / Poster viewing / Group photo**		
Session 3: Regional and Thematic Impact Studies **- Oceans, Hydrology, Land, Cryosphere, Space Weather –** Chairs: Marilaure Grégoire, Magnus Lindskog			
14:15 – 14:30	Impacts of ground-based radar observations (reflectivity and radial winds) in the Météo-France convective-scale NWP model AROME-France	Maud Martet	Online
14:30 – 14:45	An OSSEs study for the design of vertical observing network layout of wind, temperature and humidity in megacities	Jiaqi Kang	Please register and confirm
14:45 – 15:00	Insights from Observing System Simulation Experiments on Data Impact Assessment in Ionospheric Space Weather Models	Irfan Azeem	In-person
15:00 – 15:15	Hydrological Meteorological data and services in Nepal	Narayan Prasad Gautam	In-person
15:15 – 15:30	Sensitivity analysis of observation data for numerical weather forecasting in China	Jia Wang	In-person
15:30 – 16:00	**Coffee / Tea Break**		
16:00 – 16:15	Impact of Assimilating Uncrewed Aerial Systems Observations in NOAA National Severe Storm Laboratory's Warn-on-Forecast System by NOAA	Yussouf Nusrat	

Ref.: 07490/2024-L6 WIGOS

16:15 – 16:30	Observations impact in complex mountainous terrain	Mathias Rotach	Please register and confirm
16:30 – 16:45	First impact studies of ground-based remote sensing systems for future operational networks at DWD	Jasmin Vural	In-person
16:45 – 17:00	Data assimilation of New York State Mesonet surface and profiler observations for improved weather predictions in New York State	Tammy M. Weckwerth	In-person
17:00 – 17:45	**Discussion Session 3** Facilitators: Marilaure Grégoire, Magnus Lindskog		

Wednesday, 29 May 2024			
Time	**Title of presentations**	**Author(s)**	**Attendance**
Session 4: Impact Studies of New and Emerging Observing Systems and Data Chairs: Kazuyuki Miyazaki, Sean Healy			
9:00 – 9:20	**Keynote** Future horizons in hyperspectral microwave sounding from space: introducing the NASA Goddard Space Flight Center Hyperspectral Microwave Photonic Instrument (HyMPI)	Antonia Gambacorta	Please register and confirm
9:20 – 9:35	Evaluating the impact of the CMIM satellite constellation on NWP using an OSSE framework	Thomas Carrel-Billiard on behalf of Nadia Fourrie	In-person
9:35 – 9:50	Current and potential future impact from a constellation of microwave sounding instruments	Niels Bormann on behalf of Katie Lean	In-person
9:50 – 10:05	The impact of microwave sounder radiance assimilation in convective-scale limited-area NWP over the Nordic region and in the Arctic	Reima Eresmaa	In-person
10:05 – 10:20	All-sky infrared radiance assimilation in the operational global system	Kozo Okamoto	In-person
10:20 – 10:35	Hyperspectral infrared sounder data impact within RRFS	Haidao Lin	Please register and confirm

Ref.: 07490/2024-L6 WIGOS

10:35 – 11:00	**Coffee / Tea Break**		
11:00 – 11:15	Mode-S EHS wind observation error characteristics and its relation to data assimilation	Siebren de Haan	In-person
11:15 – 11:30	Evaluating Mode-S Aircraft Reports and their impact on NWP	Ralph Petersen	In-person
11:30 – 11:45	Numerical Weather Prediction Impact of GEO and LEO IR Sounders in an OSSE Framework	Erica McGrath-Spangler	In-person
11:45 – 12:00	Optimization of Aircraft observation coverage over Europe using MODE-S and AMDAR observations	Alexander Cress	In-person please confirm
12:00 – 12:15	The Impact of Routine Uncrewed Aircraft System Observations on Regional NWP in the United States: An OSSE Perspective	Kei Shawn Murdzek	In-person
12:15 – 13:00	**Session 4 Poster presentations**		
13:00 – 14:15	**Lunch break / Poster viewing**		
Session 4: Impact Studies of New and Emerging Observing Systems and Data Chairs: Kazuyuki Miyazaki, Sean Healy			
14:15 – 14:35	**Keynote** Impact of SWOT Data in a global high-resolution analysis and forecasting system	Mounir Benkiran	In-person
14:35 – 14:50	Impact of Innovative Observations from Aircraft Reconnaissance and WindBorne Balloons on NCEP Operational GFS Tropical Cyclone Forecasts	Vijay Tallapragada	Online
14:50 – 15:05	The potential impact of assimilating satellite total surface current velocities in the Met Office's global ocean forecasting system	Jennifer Waters or Matthew Martin	Online
15:05 – 15:20	The possible impact of seven wind scatterometers	sGert-Jan Marseille on behalf of Ad Stoffelen	In-person
15:20 – 15:35	Assessing the Impact of Oceansat-3 Surface Winds on Monsoonal Low-Pressure Systems using regional model	Meenakshi Shenoy	In-person please confirm
15:35 – 16:00	**Coffee / Tea Break**		

Ref.: 07490/2024-L6 WIGOS

16:00 – 16:15	Advances in water vapor isotope data assimilation	Kei Yoshimura	In-person please confirm
16:15 – 16:30	Development of an isotope data assimilation system using a non-hydrostatic icosahedral model and the local ensemble transform Kalman filter	Masahiro Tanoue	In-person
16:30 – 16:45	Assimilation of active observations in the NASA GEOS model	Isaac Moradi	In-person
16:45 – 17:00	Evaluations of Snow Data Assimilation Impacts Using an Updated Offline Unified Forecast System Land Data Assimilation Workflow	Yuan Xue	Online
17:00 – 17:45	**Discussion Session 4** Facilitators: Kazuyuki Miyazaki, Sean Healy		

Thursday, 30 May 2024

Time	Title of presentations	Author(s)	Attendance
Session 5: Methodologies, Impact Assessment Approaches and Network Design Chairs: Mariana Barrucand, Yosuke Fujii			
9:00 – 9:20	**Keynote** Assessing emerging sensor impacts using the JEDI SkyLab application	Fabio Diniz	Please register and confirm
9:20 – 9:35	FSOI analysis of the EUCOS radiosonde stations operated by EUMETNET Members	Maria Monteiro	Online please confirm
9:35 – 9:50	ECCC Global Forecast Sensitivity to Observation Impact System	Ping Du	In-person
9:50 – 10:05	Impact of infrared and microwave sounder radiances on the NCEP Global Forecast System	Andrew Collard	In-person
10:05 – 10:20	Quantifying the Impacts of Ground-based Remote Sensing Networks	Ulrich Löhnert	In-person

Ref.: 07490/2024-L6 WIGOS

10:20 – 10:35	Optimal synergy among ground-based profiler instruments for a cost-effective profiler network	Junhong Wang	In-person
10:35 – 11:00	**Coffee / Tea Break**		
11:00 – 11:20	**Keynote** Quantifying Observation Influence in a Convective-Scale Data Assimilation System Using Partial Analysis Increments	Theresa Diefenbach	In-person
11:20 – 11:35	The 2024 WMO UAS Demonstration Campaign and Ongoing UAS Observational Impacts Assessments	Pinto James	In-person
11:35 – 11:50	Expanding the assimilation of humidity observations in JMA's regional and global models	Keiichi KONDO	In-person
11:50 – 12:05	Use of different ground based GNSS products for NWP	Martin Ridal	In-person
12:05 – 12:20	How observation timeliness affects the impact of an observing system on medium-range forecasts	Peter Lean	Online
12:20 – 13:05	**Session 5 Poster presentations**		
13:05 – 14:15	**Lunch break / Poster viewing**		
Session 5: Methodologies, Impact Assessment Approaches and Network Design Chairs: Mariana Barrucand, Yosuke Fujii			
14:15 – 14:30	Analysis Sensitivity and Observation Impacts of Interannual Climate Variability in a 4D-Var Reanalysis of the California Current System	Andrew Moore	In-person
14:30 – 14:45	Impact of Ocean observations in S2S forecasts: results from ECMWF and the wider OSES for S2S initiative	Magdalena Balmaseda	Please register and confirm
14:45 – 15:00	Importance of ocean observations for marine and coupled applications of ECCC ocean systems.	Andrew Peterson	In-person please confirm
15:00 – 15:15	Using ensemble of data assimilation spread as a measure of GNSS-RO forecast impact when assimilating 30,000 radio occultations during ROMEX	Katrin Lonitz	In-person
15:15 – 15:30	Evaluation of commercial and governmental-funded RO sources and expected impact	Lidia Cucurull	In-person

Ref.: 07490/2024-L6 WIGOS

	beyond current numbers in numerical weather prediction		
15:30 – 16:15	**Discussion Session 5** Facilitators: Mariana Barrucand, Yosuke Fujii		
16:15– 16:40	**Coffee / Tea Break**		
16:40 – 17:30	**Session 6: Discussion about Workshop main findings and recommendations** Chairs: Sid Boukabara, Seiyoung Park		
17:30 – 17:45	**Closing of Impact Workshop**		

Ref.: 07490/2024-L6 WIGOS

Poster Presentations

Monday May 27 12:20 – 14:15	Session 2 Poster presentations + Lunch break / Poster viewing	Author(s)	Attendance
P2.1	Evaluation of the Impacts of JEDI Based Snow Data Assimilation on the NCEP Operational Global Forecast System	Jiarui Dong	Please register and confirm
P2.2	Impact of Ocean Observations, Features and Processes on Tropical Cyclone Prediction	Scott Glenn	Please register
P2.3	The impact of assimilating sea-ice thickness on the North Atlantic weather using the Met Office's fully coupled system	Davi Mignac Carneiro	In-person
P2.4	Assessing observation impact in the GEOS Data Assimilation System	Meta Sienkiewicz	Online please confirm
P2.6	Validation, Assimilation and Impact Assessment of GOES-18 Advance Baseline Imager (ABI) radiances in the NCMRWF Global NWP System	SUJATA PATTANAYAK	In-person please confirm
P2.7	Assessing the impact of assimilating satellite infrared data into the ARPEGE global model	Olivier Audouin	In-person please confirm
P2.8	Atmospheric composition: Assessing the effective observing network for studying surface and tropospheric variations	Kazuyuki Miyazaki	Online please confirm
P2.9	Data from afar: The Global Surface Drifter Arra	Marc Lucas	In-person please confirm
P2.10	The impact of sea ice data assimilation on the prediction of East Asian winter climate	Min Chu	In-person
P2.11	The role of Argo data to initialise subseasonal to seasonal prediction	Yin Yonghong	Please register and confirm
P2.12	Improving Earth System Prediction Using Biogeochemical Argo Floats	Joellen Russell	In-person
P2.13	Impact of Microsat-2B Radiances in the NCMRWF's Data Assimilation and Modeling System	B R R Hari Prasad Kottu	In-person
P2.14	Evaluation of the Data Assimilation and Numerical Weather Forecasting System of the Argentinian National Meteorological Service.	Paula Maldonado	In-person
P2.15	Development of a rapid-update big data assimilation and short-range numerical weather prediction system in the context of the PREVENIR project	Maria Eugenia Dillon	In-person
P2.17	Connecting different roles of globally systematic ground-based hydrological observations for Numerical Weather Prediction and Climate Reanalysis	Stephan Dietrich	

Ref.: 07490/2024-L6 WIGOS

P2.18	Nature-Based Ocean Carbon Removal Innovation for Climate Action	Peter Busumprah	In-person
P2.19	NWP Observation Impacts and Observing Network Assessment at the Bureau of Meteorology	Chris Tingwell	Please register
P2.20	Assimilation of Himawari-9 imager radiance data with the Global Forecast System for prediction of the tropical cyclone MOCHA	Durgesh Nandan Piyush	In-person
P2.21	Application of Artificial Intelligence, Machine Learning, and High-Resolution Satellites in the Development of 'Numerical Coupled Climate-Earth System Models' (NCC-ESM) through the Detoxification of Environmental Pollutants to set resilient Planet.	Virendra Goswami	In-person please confirm
P2.22	Impact of assimilating the Indian DBNet radiances at NCMRWF	SRINIVAS DESAMSETTI	In-person
P2.23	Global Impact Studies at the German Weather Service	Alexander Cress	In-person
P2.24	Use of altimeter sea surface height information in a coupled data assimilation system	Sean Healy on behalf of Noureddine Semane	In-person
P2.25	Integrated Earth Observation Systems for observation, Predictions, Projection of Weather and Climate.	Anowar Hossen	In-person

Tuesday May 28 12:20 – 14:15	**Session 3 Poster presentations + Lunch break / Poster viewing**	**Author(s)**	**Attendance**
P3.1	Unraveling Complexities in Simulating Prevailing Fog Types in Delhi's Urban Region	Avinash Parde	In-person
P3.2	Impact of Radiosonde Observations on NWP over Indian region: Study using FSOI method.	Azad Singh Rajpoot Rajpoot	In-person
P3.3	Impact of Radar Observations on Prediction of Extreme Weather Events over Indian region	ASHISH ROUTRAY	In-person
P3.4	Development and Evaluation of NWP and observations-based Objective Consensus Forecast (OCF) for Pakistan's Operational Weather Forecast	Syed Ahsan Ali Bokhari	In-person
P3.5	Impact of airborne data assimilation on the prediction of typhoon over the sea around the Korean peninsula using the WRF-ARW model	Min-Seong Kim	Please register and confirm

Ref.: 07490/2024-L6 WIGOS

P3.6	Assessment of the ocean state, variability and changes in the northwestern Mediterranean Sea in the context of climate change using a decade of Argo data	Carla Chevillard	Online
P3.7	Optimization of radar reflectivity data assimilation in ALARO over Central Europe	Antonín Bučánek	In-person
P3.8	Impact of water vapor channels onboard Meteosat-10 in clear-sky and all-sky conditions in the high-resolution limited area NWP model AROME	Adhithiyan Neduncheran	In-person
P3.9	Enhancing Tropical Cyclone Prediction through Data Assimilation and Bogus Vortex Experimentation in the North Indian Ocean using WRF model	Meenakshi Shenoy	In-person
P3.10	Improving Convective Rainfall Forecasts of pre-monsoon showers over India: Role of Radar Data Assimilation	Amarjyothi Kasimahanthi	Please register and confirm
P3.12	Assimilation of Indian Doppler Weather Radar observations with a regional 3DVAR system: Impact of radar observed parameters on forecasts of cyclone Michaung	ARPITA RASTOGI	Please register and confirm
P3.13	Advancements in Convective Prediction System by Assimilating Radar Data in WRF Based HRRR Model	B R R Hari Prasad Kottu	In-person
P3.14	Thunderstorm Unfolding Studies and Development of Research Test Bed for Improving Forecast (THUNDER - F): A national level initiative multi-institutional numerical modelling experiment	Mukhopadhyay Parthasarathi	Please register and confirm
P3.15	Impact of Assimilating Uncrewed Aerial Systems Observations in NOAA National Severe Storm Laboratory's Warn-on-Forecast System	Nusrat Yussouf	Online
P3.16	The role of assimilating conventional and satellite observations in forecast accuracy of heavy rainfall events over Karnataka, India.	Ajay Bankar	In-person
P3.17	Convergence of North Atlantic deoxygenation trend by combining shipboard and Argo-Oxygen observations using machine learning algorithms	Taka Ito	Online
P3.18	Influence of bending angle from multiple GNSS platforms on simulation of South West Monsoon lows and Tropical Cyclone	S Praveen	Please register and confirm

Ref.: 07490/2024-L6 WIGOS

Wednesday May 29 12:15 – 14:15	Session 4 Poster presentations + Lunch break / Poster viewing	Author(s)	Attendance
P4.1	Impact of all-sky water vapour channel radiance from INSAT-3D/3DR satellite over South Asia region using WRF model	Prashant Kumar	Online
P4.2	Impact of COSMIC Radio Occultation Measurements on Ionospheric TEC Modelling in the African Region using Neural Networks	Daniel Okoh	Online
P4.3	Impact of assimilating additional TAMDAR observations in a regional numerical weather prediction system over the western Maritime Continent	Joshua Lee	In-person
P4.4	Evaluation of airborne observations impact on meteorological forecasts over Indian region during Southwest monsoon	Kumarjit Saha	In-person
P4.5	Benefit of assimilating BGC-Argo observations for investigating the air-sea CO2 flux in the Southern Ocean	Andrea Rochner	Please register and confirm
P4.7	Deep Argo's impact on climate change assessment and ocean reanalyses over the full-ocean depth	Virginie THIERRY	In-person
P4.8	Eastern Indonesia-Storm Surge Coupled Model (EI-SSCM): New advances storm surge modeling in Moluccas	Khafid Rizki Pratama	In-person
P4.9	A Comparative Analysis of Air Quality Changes in India during Lockdown-2020, partial-Lockdown-2021 and post-Lockdown-2022	Midhun K Gopakumar	In-person
P4.10	Projected Temperature and its Effect on Human health in Afar Regional State, Ethiopia.	Birhan Gessese Gobie	In-person
P4.11	Earth observation for biodiversity, hydrology and Integrated Water Resource Management (IWRM) monitoring: A case study of Uganda.	Martha Nakanwagi on behalf of Ritah Nassolo	In-person
P4.12	Intraseasonal Oscillation of Land Surface Moisture and its role in the maintenance of land CTCZ during the active phases of the Indian Summer Monsoon	Pratibha Gautam	In-person
P4.13	Identification of Small Tornado Events in Sragen Regency (Case Study of November 20, 2020)	Faqih Musyaffa	In-person
P4.14	The impact of land cover data on convective rainfall simulated by the Conformal Cubic Atmospheric Model	Patience Tlangelani Mulovhedzi	Online
P4.15	Role of Artificial intelligence in the High-Resolution Satellite (Polar & Sun-Synchronous) Study of Cloud Clusters Over the Monsoon Areas of South-East Asia to Develop Numerical Monsoon Prediction Model (NMPM).	Virendra Goswami	In-person
P4.16	Hourly PM2.5 and PM10 Matter Concentrations Prediction in Pune, India Using AERONET Aerosol Optical Depth (AOD) and Meteorological Data	Ranjitkumar Solanki	In-person

Ref.: 07490/2024-L6 WIGOS

P4.17	Open data kit and satellite-based weather data for early warning and early action: A case of Zimbabwe.	Hillary Mugiyo	In-person
P4.18	A comparison of sensitivity analysis based on data assimilation using haatmospheric research aircraft observational data	Seung-Beom Han	Please register and confirm
P4.20	Utilising Radiosonde Observation, INSAT 3DR Satellite Wind Index Evaluation in Relation to Weather Regimes over the Indian Ocean	SINGH Neeti	In person
P4.21	Impact of BUOY Observations during severe cyclonic storms over the North Indian Ocean	UPAL SAHA	In-person
P4.22	Analyze Heat wave conditions over India using RTMA	SRIDEVI CHOLLANGI	In-person
P4.24	On the Sensitivity of the Daily Maximum and Minimum Air Temperature of Egypt to Soil Moisture Status and Land Surface Parameterization Using the RegCM4	Samy Anwar Rateb	In-person
P4.25	Development of Tibetan Plateau (TP) Climate System Model (TPCSM) supported by TP Observing System (TPOS)	Yingying Chen on behalf of Xin Li	In-person
P4.26	ECMWF use of Mode-S data and the challenge of high-density aircraft observations	Bruce Ingleby	In-person

Thursday May 30 12:20 – 14:15	**Session 5 Poster presentations + Lunch break / Poster viewing**	**Author(s)**	**Attendance**
P5.1	Examining the Impact of UAS Observations Collected Using Different Sampling Strategies on Ensemble Forecasts of Fog in the Ohio Valley	Matthew Wilson	In-person
P5.2	FSOI Analysis of Remote Radiosonde Observations for Global NWP Model Forecasts	Sharon Jewell	In-person
P5.3	Impacts of thinning satellite observations for Australian convective-scale NWP: ACCESS-C	Andrew Smith	Online
P5.4	Comparative assessment of ground-based and space-based GNSS observations in prediction of extreme rainfall events over Victoria state of Australia	Smrati Purwar	In-person
P5.6	Geographic Variations in the Impact of Marine Observations in Global NWP	Sharon Jewell	In-person
P5.8	Interannual variability of land-sea contrast of observation impacts estimated by EFSO	Akira Yamazaki	Please register and confirm

Ref.: 07490/2024-L6 WIGOS

P5.9	An impact study on the aircraft temperature bias correction in the KIM based on a deep learning approach	Hui-nae Kwon	In-person
P5.10	Forecast impact of assimilating 30,000 radio occultations per day during ROMEX	Katrin Lonitz	In-person
P5.11	Demonstrating the benefit of complementary orbits in the ECMWF system: evaluation with the FY-3E early-morning satellite	Niels Bormann on behalf of Liam Steele	In-person
P5.12	A new approach to spectral ocean color satellite data assimilation and its effect on ocean physics, biogeochemistry and optics prediction in the Black Sea	Polina Verezemskaya	In-person
P5.13	Relative impact of different GEO-AMVs over India using 4D-Var Assimilation System	Dineshkumar Kevalji Sankhala	In-person
P5.14	Uncrewed Aircraft Vehicle target observation test in southwest region of China	Jianxia Guo	In-person
P5.15	Assessing the influence of observations on the analysis in ensemble-based data assimilation systems	Guannan Hu	Online
P5.16	Explaining and Predicting Earth System Change - Charting a course for whole atmosphere observation and operational attribution	Scott McManus Osprey	Online
P5.17	The Radio Occultation Modeling Experiment (ROMEX)	Christian Marquardt	In-person
P5.18	Evaluating observation impact in the Met Office 1/12th degree global ocean forecasting system	Jennifer Waters or Matthew Martin	Online
P5.19	The rise and rise of GNSS-RO observations	Owen Lewis	In-person
P5.20	Impact of high-density surface AWS Observations over coarsely-dense Land SYNOP Observations in NWP Data Assimilation over India	UPAL SAHA	In-person
P5.21	Impact of Satellite observations on global and regional ocean prediction systems from OceanPredict	Elisabeth Remy	In-person

_____