



7th Workshop on the Impact of Various Observing Systems on NWP Draft Programme

Monday 30 November 2020

12:00-12:10	Welcome and opening remarks (Dr. Wenjian Zhang, Assistant Secretary-General)
12:10-12:25*	Welcome and opening remarks (Sid Boukabara, Seiyong Park)
12:25-12:40	WMO introduction presentation (Lars Peter Riishojgaard)

Session 1: Global forecast impact studies (Co-chairs: Kayo Ide, Ralph Petersen)

12:40-12:50	Kim, Mee-Ja (KMA, RoK)	Satellite data assimilation in global NWP system at KMA
12:50-13:00	Ota, Yukinari (JMA, Japan)	Impact of all-sky radiance data assimilation on tropical cyclone predictions at JMA
13:00-13:10	Ha, Ji-Hyun (KMA, RoK)	Impacts of aircraft and radiosonde descent data on global model at the KMA
13:10-13:20	Prasad, V.S. (NCMRWF, India)	FSO, OSE and other impact studies (tentative)
13:20-13:30	Bormann, Niels (ECMWF)	An overview of global Observing System Experiments for the atmosphere in the ECMWF system
13:30-13:40	Harlow, Chawn (UKMO, UK)	Impact studies with satellite radiance observations at the Met Office
13:40-13:50	BREAK	
13:50-14:00	Mahfouf, J.-F. (Météo-France; France)	Recent global OSEs at Météo-France
14:00-14:10	Cress, Alexander (DWD, Germany)	Global Impact Studies at the German Weather Service (DWD)
14:10-14:20	Lewis, Owen (UKMO, UK)	Impact studies with non-satellite radiance observations at the Met Office
14:20-14:30	Thomas, Catherine (NCEP, US)	Evaluation of the impact of various observing systems on forecast skill in the NCEP Global Forecast System
14:30-15:00	Discussion Session 1 – Part 1 (Co-chairs: Niels Bormann, Sid Boukabara)	

* Central European Time (CET): 1 hour ahead of Coordinated Universal Time (UTC); <https://time.is/CET>

Tuesday 1 December 2020 (Co-chairs: Lidia Cucurull, Alexander Cress)

12:00-12:10	Healy, Sean (ECMWF)	The impact of GNSS radio occultation measurements in global NWP
12:10-12:20	Han, Wei (WISC, US)	Assessment of Geostationary Hyper-spectral Sounders in JEDI
12:20-12:30	Rennie, Michael (ECMWF)	Impact of Aeolus winds in global NWP at ECMWF
12:30-12:40	Petersen, Ralph (WISC, US)	Assessing the Impact of Atmospheric Wind Observations from Satellites and Aircraft at Global and Regional Scales
12:40-12:50	Ide, Kayo (NOAA, US)	Impact Assessment of ADM Aeolus Wind Profiles on NCEP Global Analysis and Forecast
12:50-13:00	Laroche, Stéphane (EC, Canada)	Impact of Terrestrial and Satellite Observations over the Arctic on the ECCO Global Weather Forecasts during the YOPP Special Observing Periods
13:00-13:20	Discussion Session 1 - Part 2 (Co-chairs: Niels Bormann, Sid Boukabara)	
13:20-13:30	BREAK	

Session 2: Regional and high-resolution forecast impact studies (Co-chairs: Roger Randriamampianina, Sean Healy)

13:30-13:40	Kim, Hyun Mee (Yonsei University, RoK)	Forecast Sensitivity Observation Impact in East Asia and Arctic
13:40-13:50	Jiang, Yuan (CMA, China)	Radar data Assimilation in GRAPES Meso 3km
13:50-14:00	Min, Ki-Hong (Kyungpook National University, RoK)	Improving the Prediction of Numerical Model using Radar Data Assimilation
14:00-14:10	Ridal, Martin (SMHI, Sweden)	Impact of RADAR observations in HARMONIE-AROME
14:10-14:20	Sahlaoui, Zahra (NMS, Morocco)	Assimilation of combined radar-gauge precipitation in the convective scale model AROME
14:20-14:40	Discussion Session 2 - Part 1 (Co-chairs: Erik Andersson, Seiyong Park)	

Wednesday 2 December 2020 (Co-chairs: Brett Candy, Jacqueline Sugier)

12:00-12:10	Randriamampianina, Roger (NMI, Norway)	The impact of Arctic observations on a mesoscale model
12:10-12:20	Cisco de Bruijn (KNMI, The Netherlands)	Impact of aircraft-derived observations (MODE-S) in a mesoscale model
12:20-12:30	Hdidou, Fatima Zahra (NMS, Morocco)	Impact of Moroccan ground-based GNSS ZTD data assimilation on precipitation forecast
12:30-12:40	James, Eric (NOAA, US)	Overview of recent observation system experiments (OSEs) with the NOAA regional Rapid Refresh model
12:40-12:50	Dillon, Maria Eugenia (SMN, Argentina)	A Convective Regional Ensemble based Data Assimilation and Forecast System for the National Meteorological Service of Argentina
12:50-13:00	Fahmy, Zeinab (NMS, Egypt)	Capacity Development in Observing of upper air Sounding System in Egypt (<i>withdrawn</i>)
13:00-13:10	Liu, George (Polytechnic University; Hong Kong, China)	An Improved Algorithm for Water Vapor Retrieval from Satellite Near-Infrared Channels Using Ground-based GPS Observations
13:10-13:20	Lindskog, Magnus (SMHI, Sweden)	Impact of GNSS in HARMONIE-AROME
13:20-13:30	Loehnert, Ulrich (Germany, Universität zu Köln)	Potential impact of a network of ground-based microwave radiometers in synergy with geostationary satellite observations on assessment of atmospheric stability, integrated water vapor and cloud liquid water
13:30-13:55	Discussion Session 2 – Part 2 (Co-chairs: Erik Andersson, Seiyong Park)	
13:55-14:00	BREAK	

**Session 3: Methodologies for Observing Systems and Networks Design (including network design)
(Co-chairs: Eric James, Maria Eugenia Dillon)**

14:00-14:10	Tingwell, Cris (BoM, Australia)	ACCESS Forecast Sensitivity to Observations and Observing Network Assessments
14:10-14:20	Okamoto, Kozo (JMA, Japan)	OSSE for hyperspectral IR sounder on the Himawari follow-on program
14:20-14:30	Kim, Hyun Mee (Yonsei University, RoK)	Observation network design for numerical weather prediction and surface CO2 flux estimation
14:30-14:40	Discussion Session 3 - Part 1 (Co-chairs: John Eyre, Jianxia Guo)	

Thursday 3 December 2020 (Co-chairs: Cris Tingwell, Catherine Thomas)

12:00-12:10	Guo, Jianxia (CMA, China)	NWP-based evaluation of radiosonde network and AMDAR data in China
12:10-12:20	Zuo, Hao (ECMWF)	Impact of ocean observations on ocean analysis and coupled forecasts
12:20-12:30	Sugier, Jacqueline (EUMETNET)	Observation Impact Study requirement for EUCOS region
12:30-12:40	Cimini, Domenico (IMMA, Italy)	Introducing PROBE: a COST cooperation initiative for enhancing ground-based atmospheric boundary layer profiling at European scale
12:40-12:50	Candy, Brett (UKMO, UK)	A review of Observation Impacts through Data Denials and FSOI metrics at the Met Office
12:50-13:00	Cucurull, Lidia (NOAA, US)	Ongoing efforts for Observing System Simulation Experiments (OSSEs) under NOAA's Quantitative Observing System Assessment Program (QOSAP)
13:00-13:20	Discussion Session 3 - Part 2 (Co-chairs: John Eyre, Jianxia Guo)	
13:20-13:50	Lars Peter Riishojgaard, Kenneth Holmlund	Treatment of satellite data for NWP in the Manual on WIGOS
13:50-14:00	BREAK	
14:00-14:45	Discussion; Workshop conclusion and recommendations (Co-chairs: Sid Boukabara, Seiyong Park) Closure	