

# 4th workshop on assimilating satellite cloud and precipitation observations for NWP



## Poster presentations

Monday 3 February 2020

18:30

Fast Radiative Transfer Algorithms applied in 3-D for multi-spectral visible wavelengths and in 1-D for visible and IR for use in NWP evaluation and Data Assimilation	Steve Albers, Spire Global
Application of EnVAR using the mixed-lognormal PDF of and a new displacement correction method for precipitation to all-sky MWI TB assimilation	Kazumasa Aonashi, MRI/JMA
Assimilating solar reflectances in ICON-D2	Liselotte Bach, Deutscher Wetterdienst (DWD)
Assimilation of microwave observations of cloud and precipitation through a bayesian framework : sensitivities studies	Marylly Barreyat, Météo-France
Satellite and lightning assimilation within SINFONY, the seamless combination of Nowcasting and NWP ensembles for storm-scale convective forecasting	Ulrich Blahak, Deutscher Wetterdienst (DWD)
Initial Implementation of All-Sky Microwave Radiance Assimilation in NAVGEM	William Campbell, U.S. Naval Research Laboratory
New precipitation and cloud ice observations with polarimetric GNSS RO aboard the PAZ satellite	Estel Cardellach, Institute of Space Studies (ICE, CSIC), Institute for Space Studies of Catalonia (IEEC)
Preparation for the assimilation of the upcoming Meteosat Third Generation Lightning Imager data in AROME	Olivier Caumont, CNRM, Université de Toulouse, Météo-France, CNRS
Impact of Hydrometeor Initialization on Short-Term Convective-Scale Numerical Weather Prediction	Mayeul Destouches, CNRM (Météo-France/CNRS)
Towards activation of all-sky AMSU-A at ECMWF	David Duncan, ECMWF
Comparing airborne sub-millimetre observations of ice clouds with model simulations	Stuart Fox, Met Office
All-sky microwave radiances assimilated with an ensemble Kalman filter	Alan Geer, ECMWF

Assimilating all-sky Himawari-8 radiances in the heavy rainfall event on 23 August 2018 in Taiwan	Takumi Honda, RIKEN
Cloud and Solar Power Prediction within the Helmholtz Analytics Framework	Dorit Jerger, Institut für Energie- und Klimaforschung: Troposphäre (IEK-8), Forschungszentrum Jülich
Assimilating TRMM Microwave Imager Radiance Data in Future GEOS Reanalyses	Jianjun Jin, GMAO, NASA
Ensemble-Based Data Assimilation of GPM/DPR Reflectivity into the Nonhydrostatic Icosahedral Atmospheric Model NICAM	Shunji Kotsuki, Center for Environmental Remote Sensing, Chiba University
Assimilation of Precipitation-Affected Microwave Radiances in NCEP FV3DA and Its Transition to JEDI	Emily Liu, JCSDA/UCAR/NOAA
Updates on the all-sky assimilation at ECMWF	Katrin Lonitz, ECMWF
Development of an active sensor module for the RTTOV-SCATT radiative transfer simulator	Rohit Mangla, Indian Institute of Technology Bombay
Local Particle Filter Implemented with Minor Modifications to the LETKF Code	Takemasa Miyoshi, RIKEN
Assimilating All-Sky Infrared Brightness Temperatures in an Ensemble Data Assimilation System using a Nonlinear Bias Correction Method	Jason Otkin, University of Wisconsin
Cloud Process Nonlinearity and Model Uncertainty in Data Assimilation and Remote Sensing	Derek Posselt, Jet Propulsion Laboratory
Evaluation of the fast visible RT model RTTOV-MFASIS and use for model cloud validation of ICON	Christina Stumpf, Deutscher Wetterdienst (DWD)
Multiple Hydrometeors All-sky Microwave Radiance Assimilation in FV3GFS	Mingjing Tong, SAIC @ NOAA/GFDL
Ensemble-Based All-Sky Infrared and Microwave Radiance Assimilation for the Analysis and Prediction of Tropical Cyclones and Severe Thunderstorms	Yunji Zhang, The Pennsylvania State University