



Workshop: Observational campaigns for better weather forecasts

10-13 June 2019



Draft programme

Monday 10 June		
12:30-13:00	<i>Registration and coffee</i>	Weather Room
13:00-13:15	Opening and welcome	Florian Pappenberger (ECMWF)
13:15-13:30	How ECMWF supports field campaigns?	Emma Pidduck (ECMWF)
Session 1	From models to observations and back	Chair: TBC
13:30-14:00	From models to data	Bjorn Stevens (Max-Planck-Institute)
14:00-14:30	Airborne active remote-sensing observations of the extratropical troposphere and lower stratosphere with a special focus on the NAWDEX field experiment	Andreas Schäfler (DLR)
14:30-15:00	Experiences from Arctic field campaigns: Weather forecasting and evaluations, and model comparisons	Michael Tjernström (Stockholm University)
15:00-15:30	Application of ensemble-based sensitivity to ECMWF Ensemble Forecasts in field campaigns	Ryan Torn (University of Albany)
15:30-16:00	<i>Coffee break</i>	
16:00-16:30	Synergetic use of field campaign observations and detailed simulations to improve NWP models at Météo-France	Véronique Ducrocq (Météo-France)
16:30-17:00	Observations to operations in the Met Office Unified Model	Paul Field (UK Met Office)
17:00-17:30	Observations to operations in the ECMWF IFS	Irina Sandu (ECMWF)
17:30-19:30	<i>Drinks reception and poster session</i>	
Tuesday 11 June		
Session 2	Diagnostics or making use of the data	Chair: TBC
09:00-09:30	Is it time for interactivity and 3D? New approaches to analysing NWP data for observational campaigns using 3D and ensemble visualization	Marc Rautenhaus (University of Hamburg)
09:30-10:00	Diagnosing forecast sensitivity for field campaigns using adjoints	James Doyle (Naval Research Laboratory)

10:00-10:30	Impact assessment approaches for field campaign data	Mohamed Dahoui (ECMWF)
10:30-11:00	<i>Coffee break</i>	
Session 3	Clouds	Chair: TBC
11:00-11:30	Learning about clouds and circulation during EUREC4A	Sandrine Bony (CNRS)
11:30-12:00	Cloudy boundary layers over the Northeast Pacific and Southern Ocean: Field observations and ERA5	Chris Bretherton (University of Washington)
12:00-12:20	Field Experiment on sub-mesoscale spatio-temporal variability in Lindenberg	Daniel Klocke (DWD)
12:20-12:40	Field experiments for NWP: The LITFASS experience	Frank Beyrich (DWD)
12:40-13:00	RALI: the French radar-lidar airborne platform for cloud dynamics and microphysics studies	Julien Delanoë (University de Versailles Saint Quentin)
13:00-14:00	<i>Lunch break</i>	
14:00-15:30	Working groups	
15:30-16:00	<i>Coffee break</i>	
Session 4	Tropical Cyclones	Chair: TBC
16:00-16:30	Examples of targeted high-altitude airborne dropsonde	Peter Black (I.M. Systems Group)
16:30-17:00	Upper Ocean Data Collection during Operational Hurricane Reconnaissance Missions	Elisabeth Sanabia (U.S. Naval Academy)
17:00-17:30	New observational strategies for operational global and hurricane model improvements using airborne tropical cyclone and winter storm surveillance flights	Vijay Tallapragada (NOAA)
17:30-18:00	Analysis and forecast using dropsonde data from inner-core region of tropical cyclones obtained during the aircraft missions of T-PARCII	Kosuke Ito (University of the Ryukyus)
Wednesday 12 June		
Session 5	Tropical and extra-tropical dynamics	Chair: TBC
09:00-09:30	The impact of dropsonde and extra radiosonde observations from the field campaigns NAWDEX and SHOUT in 2016	Martin Weissman (DWD/LMU)
09:30-10:00	Forecast products for flight planning from a researchers' perspective	Julian Quinting (Karlsruhe Institute of Technology)
10:00-10:30	Atmospheric river reconnaissance to improve forecasts: Needs, approach and underlying science	Martin Ralph (Scripps Institution of Oceanography, University of California, San Diego)
10:30-11:00	<i>Coffee break</i>	
11:00-11:30	The gauging and modelling of rivers in the sky	David Lavers (ECMWF)
11:30-11:50	Comparison between airborne remote sensing observations of an extratropical cyclone and short-term forecasts using a hierarchy of models	Gwendal Riviere (LMD/IPSL)
11:50-12:10	AKOS-WIND: A contribution to the Aeolus CAL/VAL campaign in Cape Verde in June-July 2020	Peter Knippertz (Karlsruhe Institute of Technology)
12:15-13:00	Poster session	Weather Room

13:00-14:00	Lunch break	
	Session 6	Polar processes
		Chair: TBC
14:00-14:30	What will happen during YOPP SOP3?	Gunilla Svensson (Stockholm University)
14:30-15:00	Improving NWP models with observations from the Iceland Greenland Seas Project	Ian Renfrew (University of East Anglia)
15:00-15:30	Arctic Clouds - Evaluating modelled cloud with field observation	Ian Brooks (University of Leeds)
15:30-16:00	YOPP supports the Japanese Arctic research cruise in 2018	Jun Inoue (National Institute of Polar Research)
16:00-16:30	Coffee break	
16:30-18:00	Working groups	
19:30	Workshop dinner in Reading town centre	
Thursday 13 June		
	Session 7	Stratosphere, mountains and wind
		Chair: TBC
09:00-09:30	TEAMx: A coordinated effort to investigate transport and exchange processes in the atmosphere over mountains	Vanda Grubišić (UCAR)
09:30-09:50	Global forecasts of atmospheric gravity waves for observational campaigns	Sonja Gisinger (DLR)
09:50-10:10	The Strateole-2 long-duration balloon project in the deep tropics: benefiting from and improving weather forecasts?	Albert Hertzog (LMD/IPSL)
10:10-10:40	Coffee break	
	Session 8	New observational capabilities
		Chair: TBC
10:40-11:00	The CNES stratospheric balloon activities: capabilities, mission and operations	André Vargas (CNES)
11:00-11:20	Saildrone: A global class Unmanned Surface Sailing Vehicle for air-sea interaction observation and its potential as a reliable data source for NWP models	Dongxiao Zhang (NOAA)
11:30-13:00	User voice corner - Can ECMWF better support field campaigns?	
13:00-14:00	Lunch break	
14:00-16:00	Working groups summary and discussion	Lecture Theatre