

# ECMWF/ESA Workshop: Tropical modelling, observations and assimilation

7-10 November 2016



## Programme

### Monday 7 November

13:00-13:30	Registration and coffee	<i>Weather Room</i>
<b>Session Chairs: Lars Isaksen and Stephen English</b>		
13:30-13:45	Welcome and opening	Erland Källén (ECMWF)
13:45-14:15	Tropical wave dynamics and data assimilation	Erland Källén (ECMWF)
14:15-14:45	Modelling ENSO and the tropical Pacific: the key role of the Equatorial wind stress	Eric Guilyardi (IPSL/LOCEAN, France & NCAS Climate, University of Reading)
14:45-15:15	Tropical waves, latent heating sources, and wave-driving of the tropical Circulation	Joan Alexander (NorthWest Research Associates, Boulder, Colorado, USA)
15:15-15:45	Convective winds	Peter Bechtold (ECMWF)
15:45-16:15	<i>Coffee break</i>	<i>Concourse</i>
16:15-16:45	Tropical observations in NWP: availability, impact and future evolution	John Eyre (MetOffice, UK)
16:45-17:15	The ESA ADM-Aeolus Doppler Wind lidar mission – status and validation strategy	Anne Grete Straume (ESA/ESTEC, The Netherlands)
17:15-17:45	Tropical Convective-Scale NWP In The Deep Tropics - The SINGV Project	Dale Barker (MetOffice, UK)
17:45	<i>Drinks Reception</i>	<i>Weather Room</i>
19:00	<i>Transport to Reading town centre</i>	

### Tuesday 8 November

<b>Session Chairs: Niels Bormann, Richard Forbes and Lars Isaksen</b>		
09:00-09:30	Satellite-Derived Winds in the U.S. Navy's Global NWP System: Usage and Data Impacts in the Tropics	Pat Pauley (Naval Research Laboratory, Monterey, USA)
09:30-10:00	AMVs in the tropics: use in NWP, data quality and impact	James Cotton (MetOffice, UK)
10:00-10:30	Strateole 2 - Long-duration stratospheric balloons providing wind information	Albert Hertzog (LMD, Palaiseau, France)
10:30-11:00	<i>Coffee break</i>	<i>Concourse</i>

11:00-11:30	Using stratospheric wind observations along long-duration balloon flights to validate NWP models	Riwal Plougonven (LMD, Palaiseau, France)
11:30-12:00	EC-Earth modelling in the Tropics	Marston Johnston (University of Gothenburg, Sweden)
12:00-12:30	Evaluating ECMWF's model in the tropics using Data assimilation diagnostics	Mark Rodwell (ECMWF)
12:30-13:00	Model Climate (covariances, teleconnections) and atmosphere/ocean coupling with focus on the tropics	Franco Molteni (ECMWF)
13:00-14:00	<b>Lunch break</b>	<b>ECMWF Restaurant</b>
14:00-15:30	<b>Poster session with tea/coffee/biscuits</b>	<b>Weather Room</b>
15:30-16:00	Airborne Wind Lidar Campaigns for preparation of the Aeolus mission	Oliver Reitebuch (DLR, Oberpfaffenhofen, Germany)
16:00-16:30	The Aeolus Level-2B processor and the Meteorological Processing Facility at ECMWF	Mike Rennie (ECMWF)
16:30-17:00	Expected impact of Aeolus winds for NWP, focus on the tropics	Gert-Jan Marseille (KNMI, The Netherlands)
17:00-17:30	Scatterometer winds, the tropics and the ECMWF model	Ad Stoffelen (KNMI, The Netherlands)
<b>Wednesday 9 November</b>		
<b>Session Chairs: Magdalena Alonso Balmaseda and Massimo Bonavita</b>		
09:00-09:30	Assimilation of satellite ocean surface winds at ECMWF	Giovanna De Chiara (ECMWF)
09:30-10:00	Ocean Data Assimilation in the Tropics	Jennie Waters (MetOffice, UK)
10:00-10:30	A redesigned Observing System in the Tropical Pacific: the TPOS 2020 project	Sophie Cravatte (IRD, LEGOS, Toulouse, France)
10:30-11:00	<b>Coffee break</b>	<b>Concourse</b>
11:00-11:30	Impact of all-sky microwave radiance assimilation on analysis and prediction of tropical cyclone in the JMA's global 4D-Var DA system	Masahiro Kazumori (JMA, Japan)
11:30-12:00	All-sky assimilation in the tropics: improving cloud and precipitation forecasts.	Alan Geer (ECMWF)
12:00-12:30	Performance of the ECMWF 4D-Var Analysis in the Tropics	Elías Hólm (ECMWF)
12:30-13:00	Balance and tropical data assimilation	Nedjeljka Žagar (University of Ljubljana, Slovenia)
13:00-14:00	<b>Lunch break</b>	<b>ECMWF Restaurant</b>
14:00-15:30	<b>Working Groups</b>	<b>Council Room, LCR, MR1</b>
15:30-16:00	<b>Coffee break</b>	<b>Concourse</b>
16:00-17:30	<b>Working Groups</b>	<b>Council Room, LCR, MR1</b>
17:30	<b>Pre-dinner drinks</b>	<b>Lobby</b>
18:30	<b>Workshop dinner</b>	<b>ECMWF Restaurant</b>
20:30	<b>Transport to Reading town centre</b>	
<b>Thursday 10 November</b>		
09:00-10:30	<b>Working groups</b>	<b>Council Room, LCR, MR1</b>

10:30-11:00	<i>Coffee break</i>	<i>Concourse</i>
11:00-13:00	<b>Plenary</b>	<i>Council Room</i>

## Posters

Andreas Vallgren	Ignitia Ltd	Regional operational forecasting system for West Africa
Aneesh Subramanian	University of Oxford	Stochastic Multi-scale Atmospheric Modeling: A route to improve tropical weather prediction
Linus Magnusson, Kristian Mogensen, Jean Bidlot	ECMWF	Tropical cyclone sensitivity to ocean coupling
Mike Bell	UK MetOffice	Ocean data assimilation
Jonas von Bismarck	ESA	ADM-Aeolus - Planned In-Orbit System Calibration, Product Validation and Data Quality Assessment
Tsinampoizina Marie Sophie Randriamahefasoa	University of Bonn	A Regional Reanalysis for Madagascar, Eastern Africa and the surrounding Indian Ocean
Patrick Laloyaux et al.	ECMWF	Extended Climate Reanalysis
Ann Shelly	City Financial	Attributing Predictable Signals at Subseasonal Timescales
Angela Benedetti, Julie Letertre-Danczak and Alessio Bozzo	ECMWF	Aerosol modelling and data assimilation