



Using ECMWF's Forecasts (UEF2023)

Programme

Monday Agenda

The time displays according to the selected time zone.

The selected timezone is Europe/London

13:00 to 14:15	Opening	
13:00 to 14:00	Registration and coffee	
14:00 to 14:10	Welcome Video recording	Florence Rabier (ECMWF)
14:10 to 14:15	Housekeeping	Becky Hemingway (ECMWF)
14:15 to 16:10	Themed session: ECMWF Updates Chair: Becky Hemingway (ECMWF)	
14:15 to 14:40	What does the future hold? Presentation slides Video recording	Florian Pappenberger (ECMWF)
14:40 to 15:05	ECMWF research progress and plan Presentation slides Video recording	Stephen English (ECMWF)
15:05 to 15:35	Coffee break	
15:35 to 15:45	Ensemble forecasting: Introducing the theme Presentation slides Video recording	Becky Hemingway (ECMWF)
15:45 to 16:10	ECMWF's ensemble forecasts Presentation slides Video recording	Simon Lang (ECMWF)
16:10 to 16:50	Invited Speaker Chair: Becky Hemingway (ECMWF)	

16:10 to 16:50	Ensemble forecasting with limited-area models: the challenge of the high-resolution Presentation slides Video recording	Chiara Marsigli (DWD)
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16:50 to 18:30	Poster session	
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16:50 to 18:00	Poster session and drinks reception in the Weather Room	
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Tuesday

Agenda

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09:00 to 09:40	Invited speaker Chair: Sarah-Jane Lock (ECMWF)	
09:00 to 09:40	Exploiting Ensemble NWP Forecasts Presentation slides Video recording	Ken Mylne (Met Office)
09:40 to 10:50	Themed session: Using ensemble models and data Chair: Sarah-Jane Lock (ECMWF)	
09:40 to 10:00	Processing ECMWF Ensemble Data for use in Met Office Systems Presentation slides Video recording	Simon Boardman (Met Office)
10:00 to 10:20	Can understanding why ensembles are under-dispersive help when forecasting? Presentation slides	Isla Finney (Lake Street Consulting Ltd)
10:20 to 10:40	Using expired weather forecasts to supply up to 10 000 years of weather data for renewable modelling Presentation slides Video recording	Petr Dolezal (University of Cambridge)
10:40 to 10:50	Group photo	
10:50 to 11:30	Coffee break	
11:30 to 14:00	Themed session: Ensemble forecast applications and products Chair: Milana Vuckovic (ECMWF)	
11:30 to 11:50	Clustering technique considering temporal coherence of ensemble members Presentation slides Video recording	Kosuke Ono (Meteorological research institute, Japan Meteorological Agency)

11:50 to 12:20	The use of ECMWF ensembles within a new seamless blended multi-model version of the Met Office's probabilistic weather pattern forecasting tool Presentation slides Video recording	Robert Neal (Met Office)
12:20 to 12:40	Using ensemble models to provide a deterministic forecast in an operational context Presentation slides Video recording	Alexandre Trajan (Météo-France)
12:40 to 13:00	Evaluation of convective storm predictors in mainland Portugal based on ECMWF ensemble and deterministic forecasts Presentation slides Video recording	Margarida Belo-Pereira (Portuguese Institute of Sea and Atmosphere (IPMA))
13:00 to 14:00	Lunch break	
14:00 to 15:20	Themed session (continued): ECMWF Updates Chair: Becky Hemingway (ECMWF)	
14:00 to 14:25	ECMWF product development Presentation slides Video recording	Matthieu Chevallier (ECMWF)
14:25 to 14:50	ECMWF forecast performance Presentation slides Video recording	Thomas Haiden (ECMWF)
14:50 to 15:20	Coffee break	
15:20 to 17:00	Interactive session	
15:20 to 17:00	User Voice Corner Presentation by Tim Hewson followed by discussions led by ECMWF staff Presentation slides Video recording	Tim Hewson (ECMWF)
18:30 to 20:30	UEF Dinner	
18:30 to 20:30	Côte Brasserie (Reading Town Centre) For pre-registered participants only	

Wednesday

Agenda

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09:00 to 11:10	Themed session: Ensemble based decision making and impact forecasting Chair: Matthieu Chevallier (ECMWF)	
09:00 to 09:40	Invited speaker: Probabilistic Hazard Information and Related Proposed Advancements in US Severe Weather Warnings Presentation slides Video recording	Patrick Campbell (University of Oklahoma / CIWRO / NSSL)
09:40 to 10:00	Approaches for making ensemble forecasting based services more suitable to end-users' needs Presentation slides Video recording	Matteo Ponzano (Météo-France, Meteorological Services)
10:00 to 10:20	Development of heat wave impact-based forecast guidance using multi-model ensemble system Presentation slides Video recording	Hyun-Cheol Shin (Korea Meteorological Administration)
10:20 to 10:40	Assessing the impact of weather forecast uncertainties in crop water stress model predictions Presentation slides Video recording	Bachar Tarraf (CNRM, Météo France)
10:40 to 11:20	Coffee break	
11:10 to 14:00	Themed session: Re-forecasting Chair: Chris Roberts (ECMWF)	
11:20 to 11:40	Upgrades to medium/extended range reforecasts and the SEAS6 configuration: an update Presentation slides Video recording	Magdalena Alonso Balmaseda (ECMWF)

11:40 to 11:50	User presentation: Verifying ECMWF's extended-range (re)forecasts: from large-scale weather to local extremes Presentation slides Video recording	Dominik Büeler (ETH Zurich)
11:50 to 13:00	Re-forecasting plenary discussion Magdalena Alonso Balmaseda (ECMWF) Frederic Vitart (ECMWF) Tim Hewson (ECMWF) Dominik Büeler (ETH Zurich)	
13:00 to 14:00	Lunch break	
14:00 to 16:00	Themed session: Sub-Seasonal to Seasonal to Climate Chair: Stijn Vermoote (ECMWF)	
14:00 to 14:20	Seasonal forecasts from the Copernicus Climate Change Service (C3S) Presentation slides Video recording	Anca Brookshaw (ECMWF)
14:20 to 14:40	Post-processing of seasonal meteorological forecasts using fuzzy logic; application to the Jucar River Basin District Presentation slides Video recording	Dariana Isamel Avila Velasquez (Universitat Politècnica de València, Institute of Water and Environmental Engineering (IIAMA))
14:40 to 15:00	Assessment of ECMWF SEAS5 Skill for monthly rainfall prediction over Indonesia Presentation slides Video recording	Robi Muharsyah (Indonesia Agency for Meteorology, Climatology, and Geophysics)
15:00 to 15:20	Subs-seasonal to seasonal forecasts for agriculture in Bangladesh Presentation slides Video recording	Bob Ammerlaan (Weather Impact BV)
15:20 to 15:25	Introduction to the Ensemble discussions	Becky Hemingway (ECMWF)
15:25 to 16:00	Coffee break	
16:00 to 17:00	Ensemble discussions	
16:00 to 17:00	Group discussions on the use of ensembles	

Thursday Agenda

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09:00 to 11:10	Themed session: Ensembles and Machine Learning Chair: Umberto Modigliani (ECMWF)	
09:00 to 09:20	Creating skillful and reliable probabilistic forecasts using machine learning Presentation slides Video recording	Mariana Clare (ECMWF)
09:20 to 09:40	Post-processing high-resolution weather forecasts with deep learning to create operational ensembles Presentation slides Video recording	Forest Cannon (Tomorrow.io)
09:40 to 10:00	Boosting forecast of precipitation extremes with machine learning Presentation slides Video recording	Federico Grazzini (LMU Muenchen/ARPAE-SIMC)
10:00 to 10:20	Evaluation of machine-learning models for medium-range forecasts at ECMWF Presentation slides Video recording	Linus Magnusson (ECMWF)
10:20 to 10:40	CLINT - An AI-enhanced operational demonstrator of sub-seasonal and seasonal forecasting of detection and attribution of heat waves and warm nights Presentation slides Video recording	Harilaos Loukos (The Climate Data Factory)
10:40 to 11:00	Coffee break	
11:10 to 13:00	Themed session: Ensemble forecast applications and products Chair: Umberto Modigliani (ECMWF)	

11:10 to 11:30	Analog Ensemble Forecasting System for Low-Visibility Conditions over the Main Airports of Morocco Presentation slides Video recording	Badreddine Alaoui (DGM (Morocco))
11:30 to 11:50	Is it possible to identify areas at flash flood risk with global rainfall forecasts? A comparative study between ECMWF ensemble and point-scale post-processed rainfall forecasts Presentation slides Video recording	Fatima Pilloso (ECMWF)
11:50 to 12:50	Speakers' Corner <ul style="list-style-type: none"> • Meteograms with changing resolution and visibility meteograms - Cihan Sahin • ECMWF's convection-related products - Ivan Tsonevsky • Precipitation Type including the new freezing drizzle type - Tim Hewson • Extended range - Fernando Prates • New snow scheme - Gabriele Arduini Presentation slides Video recording	
12:50 to 13:00	Concluding remarks Video recording	Florian Pappenberger (ECMWF)