



# **Using ECMWF's Forecasts (UEF2023)**

## **Programme**

# Monday Agenda

The time displays according to the selected time zone.

**The selected timezone is Europe/London**

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

16:10 to 16:50	<b>Ensemble forecasting with limited-area models: the challenge of the high-resolution</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Chiara Marsigli (Deutscher Wetterdienst and Arpa-SIMC)
----------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------

---

	<b>Poster session</b>	
--	-----------------------	--

16:50 to 18:00	<b>Poster session and drinks reception in the Weather Room</b>	
----------------	----------------------------------------------------------------	--

---

# Tuesday

## Agenda

The time displays according to the selected time zone.

**The selected timezone is Europe/London**

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

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

# Wednesday

## Agenda

The time displays according to the selected time zone.

**The selected timezone is Europe/London**

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

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

# Thursday

## Agenda

The time displays according to the selected time zone.

**The selected timezone is Europe/London**

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



11:10 to 11:30	<b>Analog Ensemble Forecasting System for Low-Visibility Conditions over the Main Airports of Morocco</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Badreddine Alaoui (DGM (Morocco))
11:30 to 11:50	<b>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</b> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	Fatima Pillosu (ECMWF)
11:50 to 12:50	<b>Speakers' Corner</b> <ul style="list-style-type: none"> <li>• Meteograms with changing resolution and visibility meteograms - Cihan Sahin</li> <li>• ECMWF's convection-related products - Ivan Tsonevsky</li> <li>• Precipitation Type including the new freezing drizzle type - Tim Hewson</li> <li>• Extended range - Fernando Prates</li> <li>• New snow scheme - Gabriele Arduini</li> </ul> <a href="#">Presentation slides</a> <a href="#">Video recording</a>	
12:50 to 13:00	<b>Concluding remarks</b> <a href="#">Video recording</a>	Florian Pappenberger (ECMWF)