



Using ECMWF's Forecasts (UEF2023)

Programme

Monday Agenda

The time displays according to the selected time zone.

The selected timezone is Europe/London

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| 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) | |

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

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) |

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| 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) |

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| 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 (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) | |

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| 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 Pillosu (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) |