



Annual Seminar 2025

Programme

Monday Agenda

Agenda time displays according to the selected time zone.

The selected timezone is Europe/London

11:30 to 12:15	Arrival and registration	
	Plenary: Setting the scene	
12:15 to 12:30	Practicalities	Magdalena Alonso Balmaseda (ECMWF)
12:30 to 12:40	Opening	Florence Rabier (ECMWF)
12:40 to 13:10	On the need to constrain Earth System models using observations	Detlef Stammer
13:10 to 13:30	ECMWF strategy and research directions	Andy Brown (ECMWF)
13:30 to 14:00	Forecasting tools for enhanced Decision making in Eastern Africa	Masilin Gudoshava (IGAD Climate Prediction and Applications Centre)
14:00 to 14:20	Coffee break	
14:20 to 14:50	Advancing Weather and Climate Forecasting for Our Changing World	Gilbert Brunet (Former employee of ECCO/BoM and Met Office)
14:50 to 15:20	Sub-seasonal Prediction: Advances, Challenges and Opportunities	Frederic Vitart (ECMWF)
15:20 to 15:50	Title TBC	Magdalena Alonso Balmaseda (ECMWF)
15:50 to 16:20	Machine learning as game changer in forecasting: an overview of approaches and applications	Matthew Chantry (ECMWF)
16:30 to 18:30	Drinks reception	

Tuesday

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	Theme 1: Evolving models and data assimilation capabilities	
09:00 to 09:30	The future of Earth system modelling	Peter Dueben (ECMWF)
09:30 to 10:00	Advancing km-scale models underpinning the Destination Earth Digital Twins	Benoît Vannière (ECMWF)
10:00 to 10:30	AI for Climate Modeling: Present and Future	Christopher Bretherton (Allen Institute for Artificial Intelligence (AI2))
10:30 to 11:00	Coffee break	
11:00 to 11:30	Title TBC	Alistair Adcroft (NOAA)
11:30 to 12:00	Improving the monitoring of vegetation and drought by land surface models through the assimilation of satellite data	Jean-Christophe Calvet (Meteo-France)
12:00 to 12:30	Towards Regional High-Resolution Weather Forecasting with Machine Learning	Ivar Seierstad (MET Norway)
12:30 to 14:00	Lunch and posters	
14:00 to 14:30	Data Assimilation Methodology for Numerical Weather Prediction: A review of significant advancements and prospects for the future	Daryl Kleist (NOAA/NWS/NCEP/Environmental Modeling Center)

14:30 to 15:00	Progress and prospects on coupled data assimilation, for exploitation of interface observations and in support of climate monitoring and weather prediction	Patricia de Rosnay (ECMWF)
15:00 to 15:30	The ERA6 Reanalysis	Bill Bell (ECMWF)
15:30 to 16:00	Coffee break	
16:00 to 16:30	Title TBC	Hao Zuo (ECMWF)
16:30 to 17:00	Title TBC	Tony McNally (ECMWF)

Wednesday

Agenda

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	Theme 2: Serving a future society	
09:00 to 09:30	Title TBC	Matthieu Chevallier (ECMWF)
09:30 to 10:00	Services across time scales and components at MeteoSwiss	Christian M. Grams (Federal Office of Meteorology and Climatology, MeteoSwiss)
10:00 to 10:30	Challenges in transforming traditional weather services to the changing needs of society	Renate Hagedorn (DWD)
10:30 to 11:00	Coffee break	
11:00 to 11:30	Great potential for S2S applications and services: examples from Europe and Africa	Erik Kolstad (NORCE Norwegian Research Centre)
11:30 to 12:00	Understanding, predicting and communicating high impact weather events across Africa	Linda Hirons (National Centre for Atmospheric Science (NCAS), Department of Meteorology, University of Reading)
12:00 to 12:30	The Destination Earth Digital Twin for Climate Change Adaptation	Sebastian Milinski (ECMWF) Sebastian Milinsky (ECMWF)
12:30 to 14:00	Lunch and posters	
14:00 to 14:30	TBC	
14:30 to 15:00	The evolution of climate services and future challenges	Chris Hewitt (World Meteorological Organization)
15:00 to 15:30	TBC	
15:30 to 16:00	Coffee break	

16:00 to 16:30

TBC

16:30 to 17:00

TBC

17:00 to 17:30

TBC

17:30 to 18:00

TBC

Thursday Agenda

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	Theme 3: Changing sources of predictability across time scales	
09:00 to 09:30	Perspectives on medium-range predictability - Why does a forecast go wrong?	Linus Magnusson (ECMWF)
09:30 to 10:00	Tropical-extratropical teleconnections: the role of midlatitude synoptic systems	Julian Quinting (Karlsruhe Institute of Technology)
10:00 to 10:30	The role of the stratosphere in extended-range prediction	Daniela Domeisen (University of Lausanne / ETH Zurich)
10:30 to 11:00	Coffee break	
11:00 to 11:30	The role of the ocean in predictability at different lead times	Chris Roberts (ECWMF)
11:30 to 12:00	Some outcomes of extreme event attribution	Pascal Yiou (LSCE, IPSL, France)
12:00 to 12:30	Frontiers in subseasonal to decadal prediction: A WCRP perspective	Bill Merryfield (ECCC/CCCma)
12:30 to 14:00	Lunch and posters	
14:00 to 14:30	Representing uncertainties in ensemble forecasts	Martin Leutbecher (ECMWF)
14:30 to 15:00	Title TBC	Christopher O'Reilly (University of Reading)
15:00 to 15:30	Machine-learned weather forecasting with AIFS	Simon Lang (ECMWF)
15:30 to 16:00	Coffee break	

16:00 to 16:30	Seasonal forecasts in a changing climate	Antje Weisheimer (ECMWF & University of Oxford)
16:30 to 17:00	Tropical Pacific trends in seasonal hindcasts and implications for predictions of the 2020-2022 triple-dip La Niña	Michael Mayer (ECMWF)
17:00 to 17:30	Making the impact of climate change on weather and environmental extremes more tangible using storylines	Thomas Jung (AWI)
17:30 to 18:00	Title TBC	Amy McGovern (University of Oklahoma)

Friday Agenda

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	Plenary: Scoping the future of forecasting	
09:00 to 09:30	Title TBC	Tim Stockdale (ECMWF)
09:30 to 10:00	Title TBC	Francisco Doblas-Reyes (BSC)
10:00 to 10:30	Title TBC	Myles Allen (University of Oxford)
10:30 to 11:00	Coffee break	
11:00 to 11:30	TBC	
11:30 to 12:30	Round table discussion	