

22 and 23 October 2024
13:30–16:00 CEST, online



Workshop for National Meteorological Services

FROM SEASONS TO DECADES: SEAMLESS PREDICTION FOR A BETTER FUTURE

ASPECT is inviting you to join us for an exciting workshop showcasing cutting-edge climate forecasts.

ASPECT is a Horizon Europe project investigating seamless climate predictions that cover timescales from seasonal to multi-decadal. The project is working closely with users from several sectors to ensure that these forecasts cover their current and future information needs.

In this workshop, we will explore new forecasting horizons and emphasize the added value of initialization in climate predictions. While highlighting these advancements, we will also discuss the limitations of state-of-the-art multi-system predictions, all from the perspectives of providers and users.

Day 1 is focused on production and provision of operational and innovative seasonal-to-decadal predictions. We will introduce and discuss protocols for providing climate information and efforts on how to make data FAIR as well as discuss the challenges of working with various archiving infrastructures.

Day 2 will call attention to current multi-system predictions and the added value of initialization, while also addressing their limitations, such as unrealistic extremes and the signal-to-noise issue. We will delve into the latest methods for temporal merging and downscaling, designed to deliver high-resolution, user-specific information across multiple time scales. Collaborative case studies will be presented to showcase the power of tailored climate information in supporting better-informed adaptation decisions. We will also go beyond individual case studies and explore user needs as well as the drivers of climate risk management and climate information use in Europe.

DAY 1 – 22 OCTOBER

- 13:30 Welcome & Introduction to workshop
13:40 Introduction to the ASPECT project, *Albert Soret (BSC)*

Session 1: Seasonal to Decadal predictions

- 13:55 Operational predictions and exciting developments of seasonal to decadal predictions at the Met Office in the UK, *Leon Hermanson (Met Office)*
14:10 Current and future climate prediction systems at DWD (German Meteorological Service), *Kristina Fröhlich (DWD)*
14:25 *Coffee Break*
14:35 Novel configurations of prediction systems for seamless climate information *Magdalena Alonso Balmaseda (ECMWF)*
14:55 ASPECT data management: guidelines and documentation *Chiara Cagnazzo and Charalampos Karvelis (ECMWF)*
15:10 **Roundtable & Discussion**
Francisco Doblado-Reyes (BSC), Pasha Karami (SMHI), Dario Nicolì (CMCC), Esteban Rodríguez Guisado (MedCOF, AEMET)
16:00 **Wrap-up**

DAY 2 – 23 OCTOBER

- 13:30 Welcome & Introduction to day 2

Session 2: Predictability & Novel approaches

- 13:35 Perspectives from RCC-LRF co-lead on seasonal forecasting over RA-VI Europe *Lauriane Batté (Météo-France)*
13:50 Opportunities and challenges of seasonal-to-decadal climate predictions of European mean climate and extremes, *Holger Pohlmann (MPG | MPI-M)*
14:05 What can novel approaches towards seamless climate information further add to climate services?, *Beena Balan Sarojini (University of Oxford)*
14:20 **Roundtable & Discussion**
Clementine Dalelane (DWD), Philip Lorenz (DWD), others tbc
14:50 *Coffee Break*

Session 3: User needs

- 15:00 Co-development of case studies with Super Users, *Verónica Torralba (BSC)*
15:15 Climate information use in Europe, *Suraje Dessai (University of Leeds)*
15:30 **Roundtable & Discussion**
Ralf Doescher (SMHI), Freya Garry (Met Office), Amelie Hoff (DWD)
16:00 **Wrap-up**