C3S512: Copernicus project

Description

The Evaluation and Quality Control (EQC) function of the Copernicus Climate Change Service (C3S) has a critical role to ensure that the service meets the needs of a range of users for high-quality data and information, and in proposing the necessary evolution of the service itself, while shaping the research agenda to attend the most important challenges detected. The ITT that this offer addresses, asks for the development and implementation of an EQC framework for climate projections, seasonal forecasts, reanalysis and observations (both in-situ and satellite), and the facilities available in the CDS to manipulate them, identifying the gaps that must be filled by the EQC to respond to identified user expectations. The offer described in this proposal aims at developing a solution for the EQC function to respond to the needs identified in previous contracts using a continuous user-engagement process. This offer will address the challenges posed by providing:

- An overarching EQC service for the whole CDS
- An independent quality assessment for a number products (seasonal forecasts, climate projections and in-situ observations).

The evaluation and quality assessment will put at work the best expertise available on the evaluation of the multi-faceted aspects of data and product quality based on the most complete set of standards accepted by the communities involved. Surveys and other user engagement techniques will be used and analysed to provide a detailed mapping of the users and their needs, identifying those that should be addressed with priority. The outcome will be employed to perform a gap analysis of the current capabilities of the CDS and formulate recommendations that support the evolution of the service.This contract involves eight institutions: the Barcelona Supercomputing Center-Centro Nacional de Supercomputación (BSC), Deutscher Wetterdienst (DWD), Ilmatieteen Laitos (FMI), Koninklijk Nederlands Meteorologisch Instituut (KNMI), Predictia Intelligent Data Solutions S.L. (Predictia), Consiglio nazionale delle Ricerche (CNR), Wageningen Environmental Research (WENR) and Météo-France. The contract is led by the BSC.

Barcelona Supercomputing Center - Centro Nacional de Supercomputación