

Copernicus Climate Change Service (C3S) and the operationalisation of climate data provision to societal users.

The newly released implementation plan of GCOS emphasises the role of Climate Observations in informing climate services and providing relevant climate data to users. The Copernicus Climate Change Service, one of the six thematic services of the Copernicus earth observations programme of the European Union, plays an important role in that respect. Through a single web-interface C3S gives open and free access to climate data including historical in-situ observations, EO-based ECV, regional and global reanalysis, climate predictions, and global and regional climate projections. The service also offers a simple interface to visualise and process the data limiting the need for large data downloads.

As of June 1st, 2022, the service had nearly 135.000 registered users to whom it delivers some 80Tb of data per day on average.

The paper provides an overview of the users' statistic and associated requirements, a reflection on the data governance issues the service faced in its 5 years of operational activity and some suggestions on some of these challenges could be addressed in the new phase of the programme that it has recently started.