



Providing and facilitating climate model data access in Europe: IS-ENES and CLIPC initiatives

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An unprecedented distributed database has been set internationally to disseminate the results from the global climate model results of the Coupled Model Intercomparison project Phase 5 (CMIP5). This database, the Earth System Grid Federation (ESGF), is an international collaboration that develops, deploys and maintains software infrastructure for the management, dissemination, and analysis of climate model data. The FP7 project IS-ENES, Infrastructure for the European Network for Earth System modelling, supports the European contribution to ESGF and contributes to the ESGF open source effort, notably through the development of search, monitoring, quality control, and metadata services. In its second phase, IS-ENES2 supports the implementation of regional climate model results from the international Coordinated Regional Downscaling Experiments (CORDEX). These services will be extended within the FP7 Climate Information Portal for Copernicus (CLIPC) project, by adding new services and new datasets, such as reanalyses and satellite data.

The access to these federated data is facilitated through the climate4impact (<http://climate4impact.eu/>) web portal, which is developed by IS-ENES and also used within CLIPC. It provides to users, notably from the climate impact communities, easier access to climate model data through the following tailored services: data processing, search, downscaling, documentation, support, visualization, downloading as well as the description of use cases.