EOSC-hub

# EOSC-hub Thematic Services

**Research domains covered:**
**Earth Observation, Environmental Sciences, Arts and Humanities, Biology, Biodiversity, Marine Science**

## Why Thematic Services?

In EOSC-hub, Thematic Services can be defined as a single service or a set of services provided by a research community for its users. These services are integrated within the EOSC-hub ecosystem and they represent an integral part of the EOSC-hub service catalogue.

# What are the EOSC-hub Thematic Services?

### 1. CLARIN
CLARIN offers three thematic services within EOSC-hub: the Virtual Language Observatory (VLO), the Virtual Collection Registry (VCR) and the Language Resource Switchboard (LRS).
The VLO allows researchers to create their own citable digital bookmarks. The VCR is a registry where scholars can publish virtual collections: a set of links to digital objects (e.g. annotated text, video) that can be easily created and cited. Finally, the LRS is a tool that helps to find a matching language processing web application for data.

### 2. DODAS
DODAS is a cloud enabler for scientists seeking to easily exploit distributed clouds to process and generate data. DODAS works as a Platform as a Service  with the aim to guarantee deployment of complex setup on "any cloud provider" with almost zero effort.

### 3. ECAS
The ENES Climate Analytics Service (ECAS) enables scientific end-users to perform data analysis experiments on large volumes of research data from multiple disciplines.
Users can define parallel processing workflows, executed remotely without needing to download data or provide own computing resources. Moreover, users can explore workflows others have created and shared, and apply these to their own data.

### 4. GEOSS
The GEO Discovery and Access Broker (GEO DAB) is a key component of the GEOSS Platform (Global Earth Observation System of Systems) and connects GEOSS user requests to the resources shared by the GEOSS providers. GEO DAB's main goal is to simplify cross and multi-disciplinary discovery, access, and use of disparate data and information.

### 5. OPENCoastS
The OPENCoastS service builds on-demand circulation forecast systems for user-selected sections of the coast and maintains them running operationally for a defined time frame. This daily service generates forecasts of water levels and 2D velocities over the spatial region of interest for periods of 48 hours, based on numerical simulations of all relevant physical processes.

### 6. WeNMR
The WeNMR thematic services are a suite of web portals providing user-friendly access to complex computational workflows and tasks in the structural biology field. The main goal is to allow biologists to make use of state-of-the-art software for their research while benefiting from the computational infrastructure provided via EOSC-hub.

### 7. EO Pillar
EO-Pillar provides access to different services established in the field of Earth Observation (EO). The services are categorised into three main classes: data access and computing services, data exploitation services, general user services.

### 8. DARIAH
The DARIAH Thematic Services provide user-friendly solutions addressing the needs of different research groups within the DARIAH community and digital arts and humanities domain in general. The DARIAH Thematic service provides three independent services: DARIAH Science Gateway, Invenio-based repository and DARIAH repository.

### 9. LifeWatch
LifeWatch provides e-science research facilities to scientists seeking to increase our knowledge and deepen our understanding of biodiversity and ecosystem functions in order to support civil society in addressing key planetary challenges.