# European Weather Cloud

The European Weather Cloud is the cloud-based collaboration platform for meteorological application development and operations in Europe enabling the digital transformation of the European Meteorological Infrastructure (EMI). The EMI comprises ECMWF, EUMETSAT, and the National Meteorological Services of their Member States.

" a community cloud "





## Key benefits for the user



**Tools and services** 







Training and support



**Flexible** 



Working on data in the cloud enables new types of capabilities including running software close to the data, rather than downloading vast amounts of data locally and needing a local infrastructure in support.

The aim is to rationalise the usage of data access infrastructure and related developments, and foster new forms of data-driven collaboration across the EMI and users of meteorological data.

An allocation of the cloud resources is assigned to each ECMWF and **EUMETSAT Member and Co-operating States countries.** 

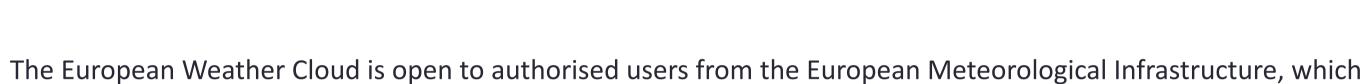
## Cloud service structure

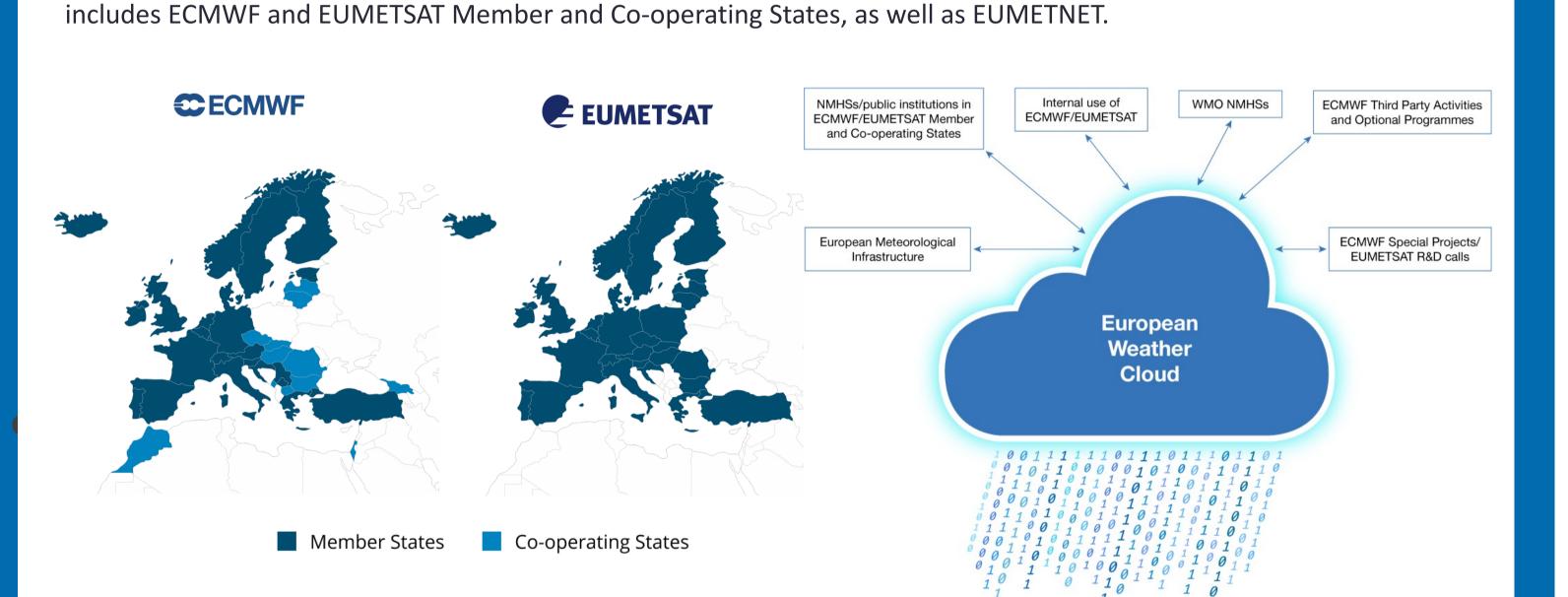


The service consists of cloud computing resources provided by ECMWF and EUMETSAT and controlled by a cloud management platform. Users are given an account (tenancy) and can deploy and manage their virtual resources and application environments to both cloud infrastructures (EUMETSAT and ECMWF).



## Who can access





## Data

A combined set of retrieval and dissemination services.

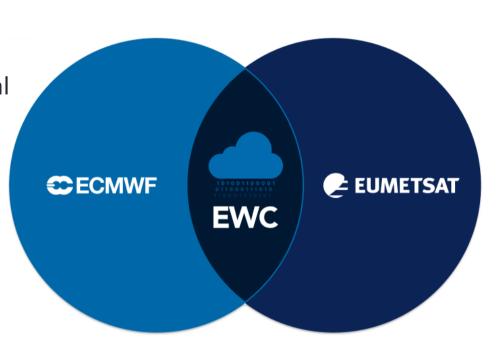
#### **Meteorological Archival and Retrieval System** (MARS)

ECMWF Petabytes-scale data archive providing APIs for data discovery and retrieval

**ECMWF Production Data Store (ECPDS)** Data dissemination service for customised data delivery

**Copernicus Climate and Atmospheric Data** Stores (CDS/ADS) Copernicus Climate Change (C3S) and

Atmospheric Monitoring (CAMS) services data



#### **EUMETSAT Data Store & Data Tailor** Access to all EUMETSAT meteorological, climate and ocean data through a suite of

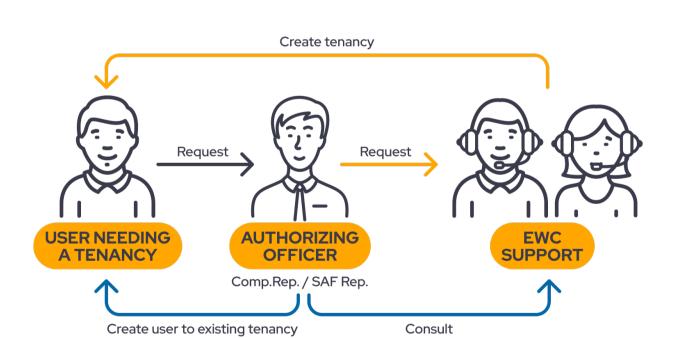
APIs, and incorporating data tailoring

**EUMETCast Terrestrial** Near-real time data delivery via terrestrial network

capability

## How to get access to EWC

Access can be requested by getting in touch with the corresponding Computing Representative in your Member or Cooperating State or reach out via the EWC Support Portal.

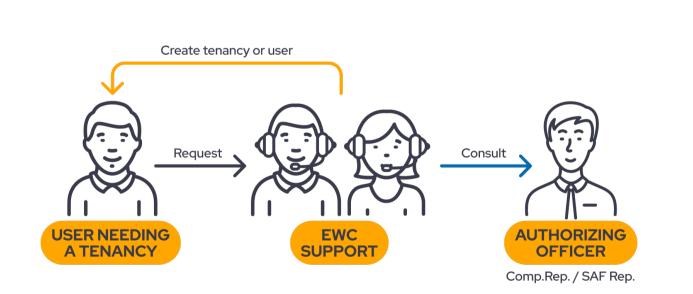


Tenancy will be created to either ECMWF or EUMETSAT side based on the primary use case

- Tenancy can have resources at both sides
- Member States can have tenancies at both sides



**Find your Computing Representative** 

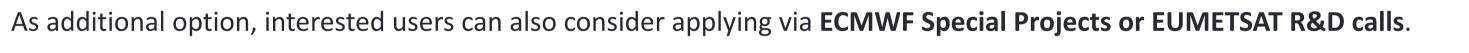


Users may be directly in contact with EWC support in which case support will consult authorizing officer or forward the request



**Contact the EWC Support** 

## Research Opportunities



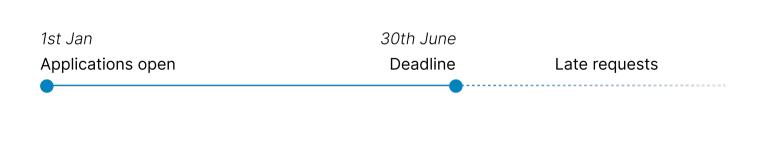
**Annual EUMETSAT Research & Development call closes each** 

**ECMWF Special Projects can also include EWC resources in** their application, closes each year on 30 June

The scope includes experiments or investigations of a scientific or technical nature, undertaken by one or more Member States, likely to be of interest to the

"Late requests" are possible after the deadline

general scientific community



**Apply via ECMWF Special Projects** 

products in applications and using the cloud infrastructure

Objectives on improving, development and using

Fast-track projects available anytime of the year for small projects

30th June Deadline



year on 30 June

**Apply via EUMETSAT R&D call** 

Fast track

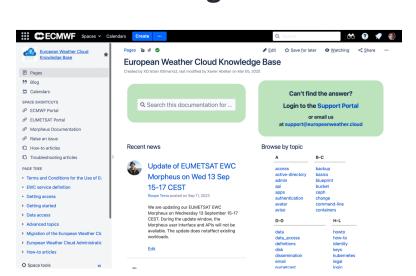
### Contacts and references

#### Website



https://europeanweather.cloud

**Knowledge Base** 



https://confluence.ecmwf.int/display/EWCLOUDKB/

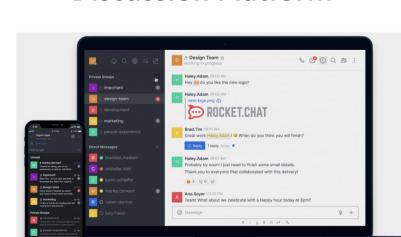
**Support Portal** 

European Weather Cloud



https://support.europeanweather.cloud

#### **Discussion Platform**







**EUROPEAN** 

**WEATHER CLOUD** 



https://chat.europeanweather.cloud