

# EOEPCA.SAP.011\_1.1 Open Science Catalogue

## Achievements of Sponsorship Request

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## Summary

- Project Objectives
- Use of tools and data in cloud environments to achieve your goals
- The highlights of any benefits to society derived from your project





## Project Objectives

- Enhance the Open Science Data Catalogue's capabilities for data governance
- Expand the catalogue with a data storage and long-term preservation component
- Enhance interoperability and interconnectivity with the other open science and collaborative development systems
- Enhance data indexing and discoverability in the cloud and enhance programmatic access to the catalogue



## Use of tools and data in the cloud to achieve goals

- The project uses ESA's EOEPKA solution at its core to help index, find and process EO data. See <https://eoepca.org/>



- Kubernetes used to deploy the Catalogue to the cloud



- Use of common OGC standards to support interconnectivity including various search APIs



See <https://catalog.opensciencedata.esa.int>

- Use of CREODIAS for hosting the service



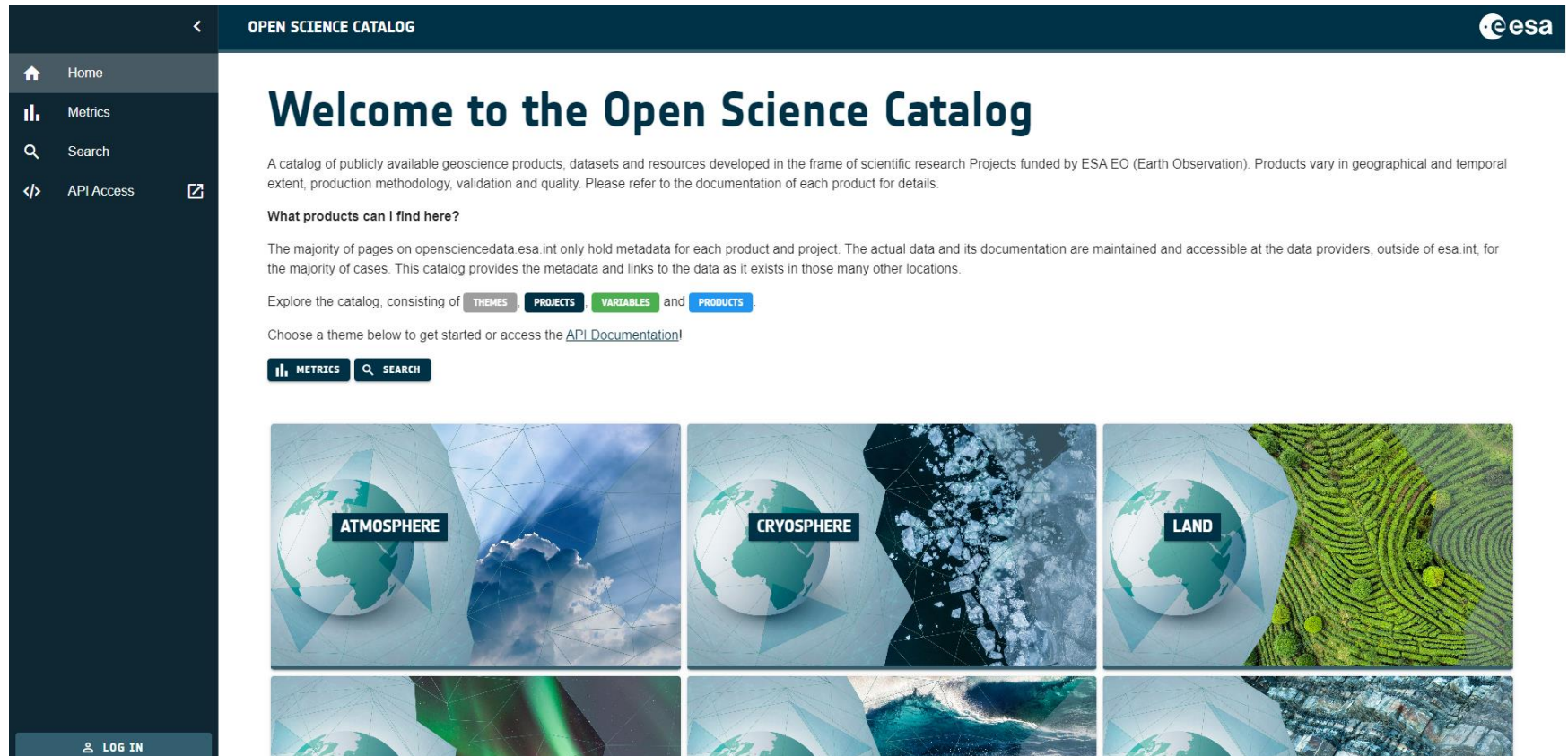


## Highlights and benefits to society


- The Open Science Data Catalogue now has enhanced capabilities for data governance. We have defined the roles of Admin and Data Owner to suggest and authorise changes.
- The catalogue allows preservation of data using local object store.
- The catalogue has the capability to interconnect with the other open science and collaborative development systems using federated solutions based around OGC API Processes and machine search APIs.
- The catalogue provides programmatic access to the catalogue  
Please see <https://opensciencedata.esa.int/>

# Highlights and benefits to society

- See the live Open Science Data Catalogue for more information <https://opensciencedata.esa.int/>



The screenshot shows the Open Science Catalogue website. The header is dark blue with the ESA logo on the right and a navigation menu on the left. The main content area is white and features a large heading "Welcome to the Open Science Catalog" followed by a paragraph describing the catalog's purpose. Below this, there are sections for "What products can I find here?" and "Explore the catalog, consisting of" with buttons for "THEMES", "PROJECTS", "VARIABLES", and "PRODUCTS". There are also buttons for "METRICS" and "SEARCH". At the bottom, there is a grid of six images representing different Earth system components: Atmosphere, Cryosphere, Land, and three others partially visible.

**OPEN SCIENCE CATALOG** 

Home  
Metrics  
Search  
API Access

## Welcome to the Open Science Catalog

A catalog of publicly available geoscience products, datasets and resources developed in the frame of scientific research Projects funded by ESA EO (Earth Observation). Products vary in geographical and temporal extent, production methodology, validation and quality. Please refer to the documentation of each product for details.

**What products can I find here?**

The majority of pages on [opensciencedata.esa.int](https://opensciencedata.esa.int) only hold metadata for each product and project. The actual data and its documentation are maintained and accessible at the data providers, outside of [esa.int](https://esa.int), for the majority of cases. This catalog provides the metadata and links to the data as it exists in those many other locations.

Explore the catalog, consisting of **THEMES** **PROJECTS** **VARIABLES** and **PRODUCTS**

Choose a theme below to get started or access the [API Documentation!](#)

**METRICS** **SEARCH**

**ATMOSPHERE** **CRYOSPHERE** **LAND**



# Thank you