eosc

GOBIERNO DE ESPAÑA | MINISTERIO DE CIENCIA E INNOVACIÓN | CSIC UE23

Open Science in Data Intensive Scientific Communities:

Oceanographic Data at the UTM-CSIC Data Centre and integration into EOSC

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UTM CSIC Data Centre
Marine Technology Unit, UTM-CSIC

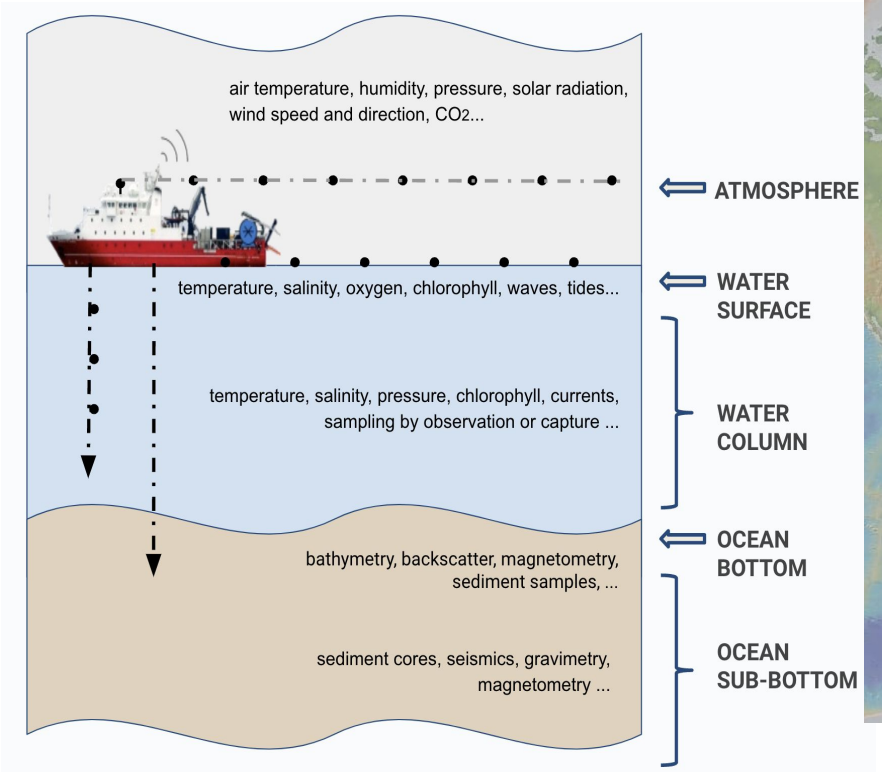
Spain National Tripartite Event, Madrid 19 th September 2023

Oceanographic Data

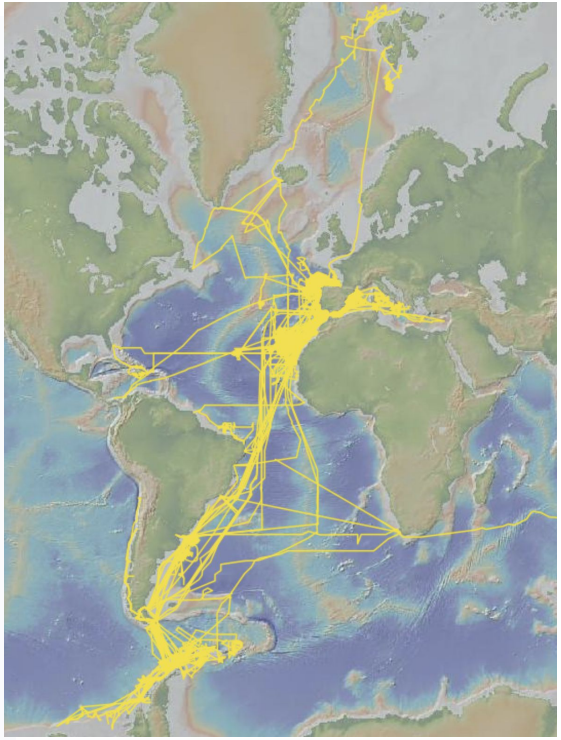
Research Vessels

Vessel	Lenght
Sarmiento de Gamboa	70,50 m
Hespérides	82,5 m
García del Cid	37,2 m

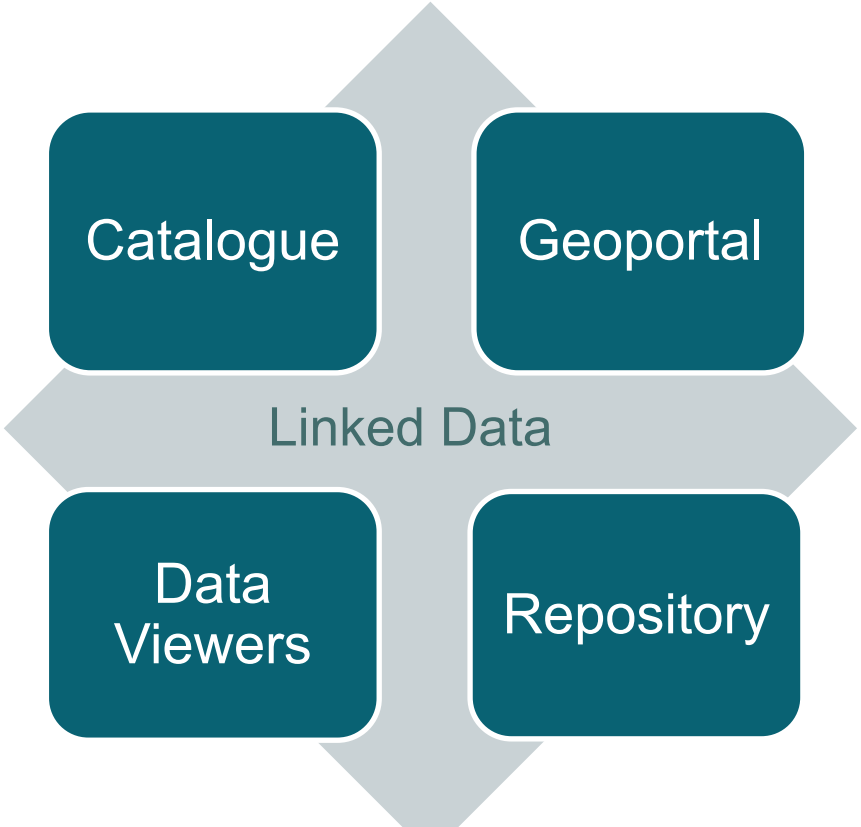
Multidisciplinary data

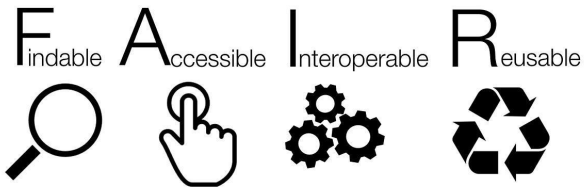


All over the globe



Data Discovery & Access Services





Services / Catalogue

Nothing in basket

Filter

Expand Collapse

TYPE OF RESOURCES
- Cruises (756)
- Dataset (989)
- Service (2)
- Service-OGC:WFS (1)
- Service-OGC:WMS (1)

CATEGORIES
- Sidescan sonars (5)
- Singlebeam echosounders (85)
- Sub-bottom profilers (38)
- Thermosalinographs (205)
- Water column profilers (99)

22 more

TOPICS
- Biological Oceanography (128)
- Chemical Oceanography (85)
- Marine Geology (189)
- Physical Oceanography (65)
- Technical (34)

2 more

CONTACT FOR THE RESOURCE
- CSIC, Marine Technology Unit (CSIC-UTM) (86)
- CSIC-ICM, Institute of Marine Sciences (405)
- CSIC-IIM, Institute of Marine Research (67)
- CSIC-UTM, Marine Technology Unit (712)
- CSIC-UTM/ Marine Technology Unit (871)

95 more

GROUPS
- Patí Científic (2)
- R/V García del Cid (468)
- R/V Hespérides (532)
- R/V Mytilus (29)
- R/V Sarmiento de Gamboa (645)
- R/V SOCIB (9)
- R/Vs from other countries (29)
- Sailboats (1)
- SOCIB Gliders (30)

« ‹ 1 - 20 on 1747 › »

Sorted by modified

MARBEFES

MARine Biodiversity and Ecosystem Functioning leading to Ecosystem Services. The project aims to evaluate and characterise the links between marine biodiversity, ecosystem functioning, ecosystem services and the resulting societal goods and benefits in coastal communities. The results will be captured in easy-to-use tools to help practitioners and policy to

De Juan Mohan, Silvia

STRENGTH Multi-Channel Seismic data

Restricted

High Resolution Multi-Channel Seismic data acquired on board the R/V Sarmiento de Gamboa during the STRENGTH cruise.

SAGA34S thermosalinograph data

Open data

Sea surface temperature and salinity data acquired on board the R/V Sarmiento de Gamboa with a Seabird SB21 thermosalinograph in continuous mode during the SAGA34S cruise.

CHALLENGE-2 dredge data

Data from sample acquired on board the R/V Hespérides with a Van Veen dredge during the CHALLENGE-2 cruise.

SAGA34S meteorological data

Open data

Meteorological data acquired on board the R/V Sarmiento de Gamboa with a Campbell CR 1000 Station in continuous mode during the SAGA34S cruise.

SAGA-REC CTD-rossette and LADCP data

Water column data from 9 CTDs acquired on board the R/V Hespérides with a SeaBird SBE911 plus CTD, rosette and LADCP during the SAGA-REC cruise.

MARBEFES dredge data

Restricted

Data from 46 samples acquired on board the R/V Sarmiento de Gamboa with a sediment dredge during the MARBEFES cruise.

BIOSWOT-Med

The BIOSWOT-Med campaign aims at exploiting SWOT observations for unveiling the drivers of phytoplankton diversity in the Western Mediterranean.

Doglioli, Andrea

SAGA-REC singlebeam data

Open data

Singlebeam data Hespérides with during the SAGA-

764 cruises since 1979

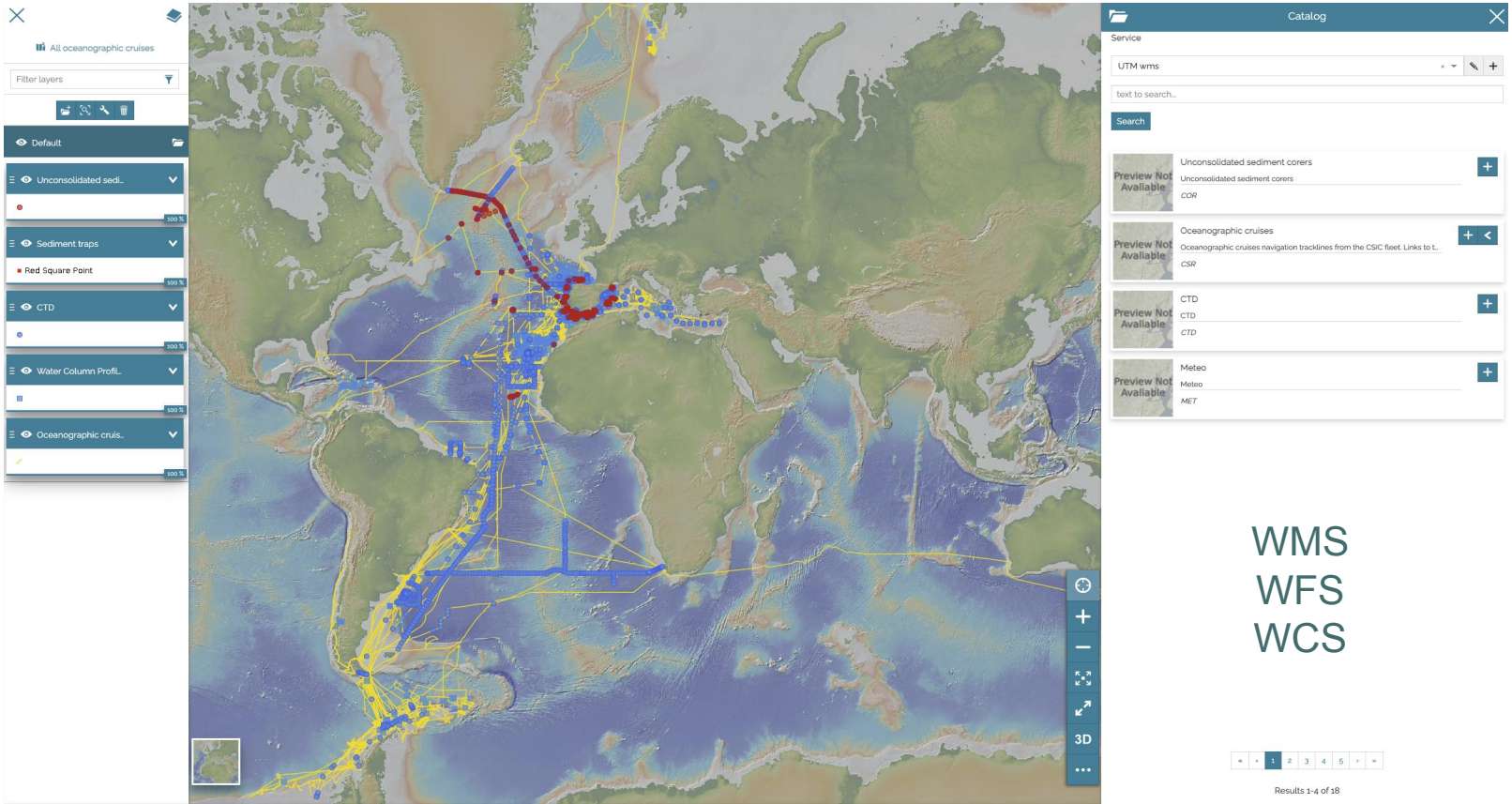
1012 datasets since 2000

Open data (580)

Restricted (413)

National Open Science Strategy, 2023

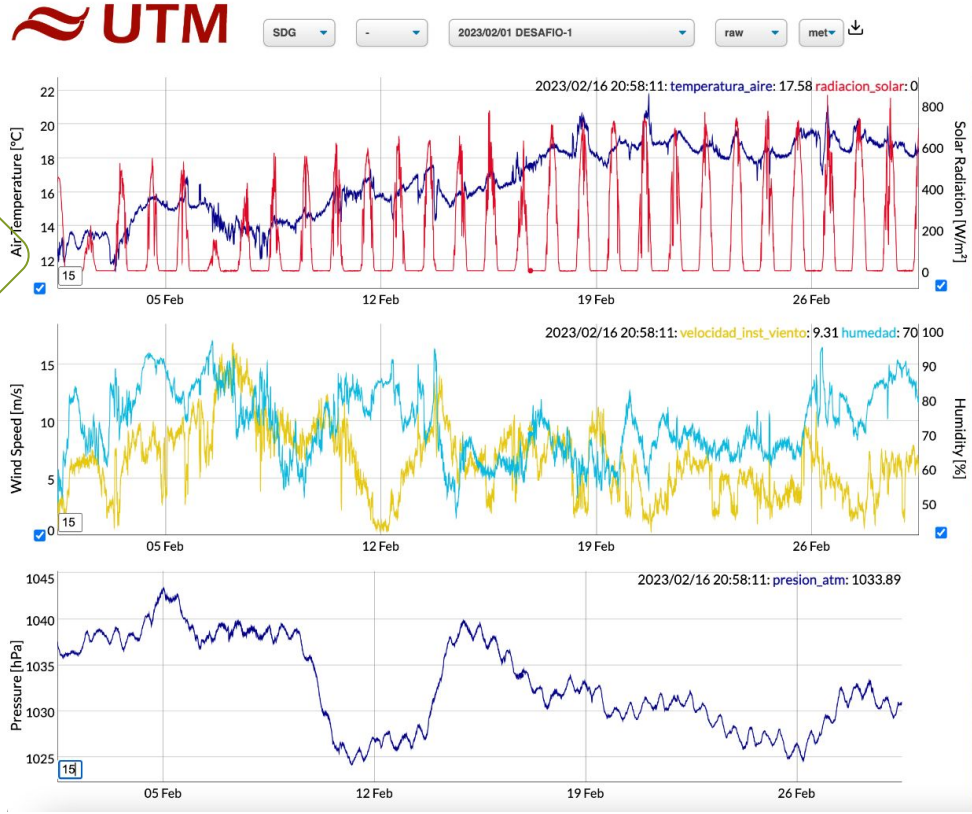
Services / Geoportal

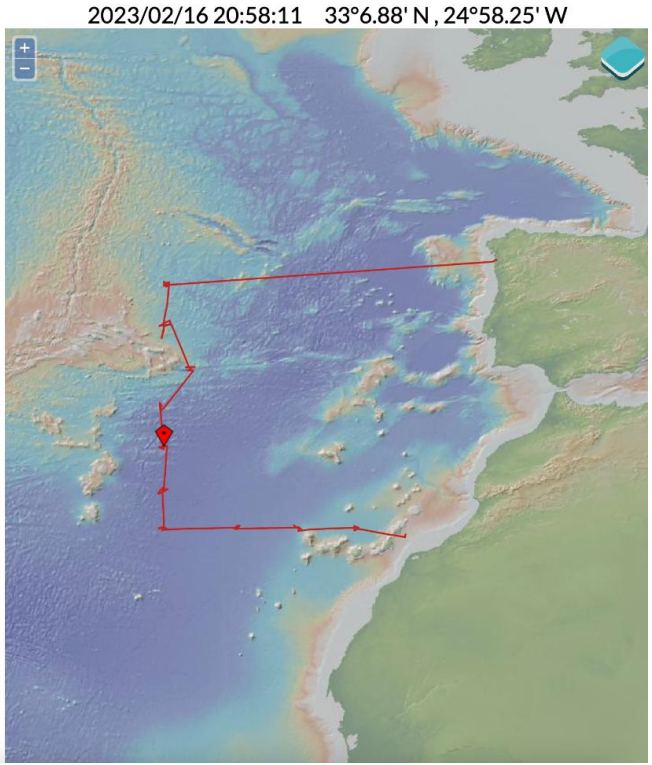


WMS
WFS
WCS

Services / Data Viewers & Download / Meteorological & thermosalinograph data

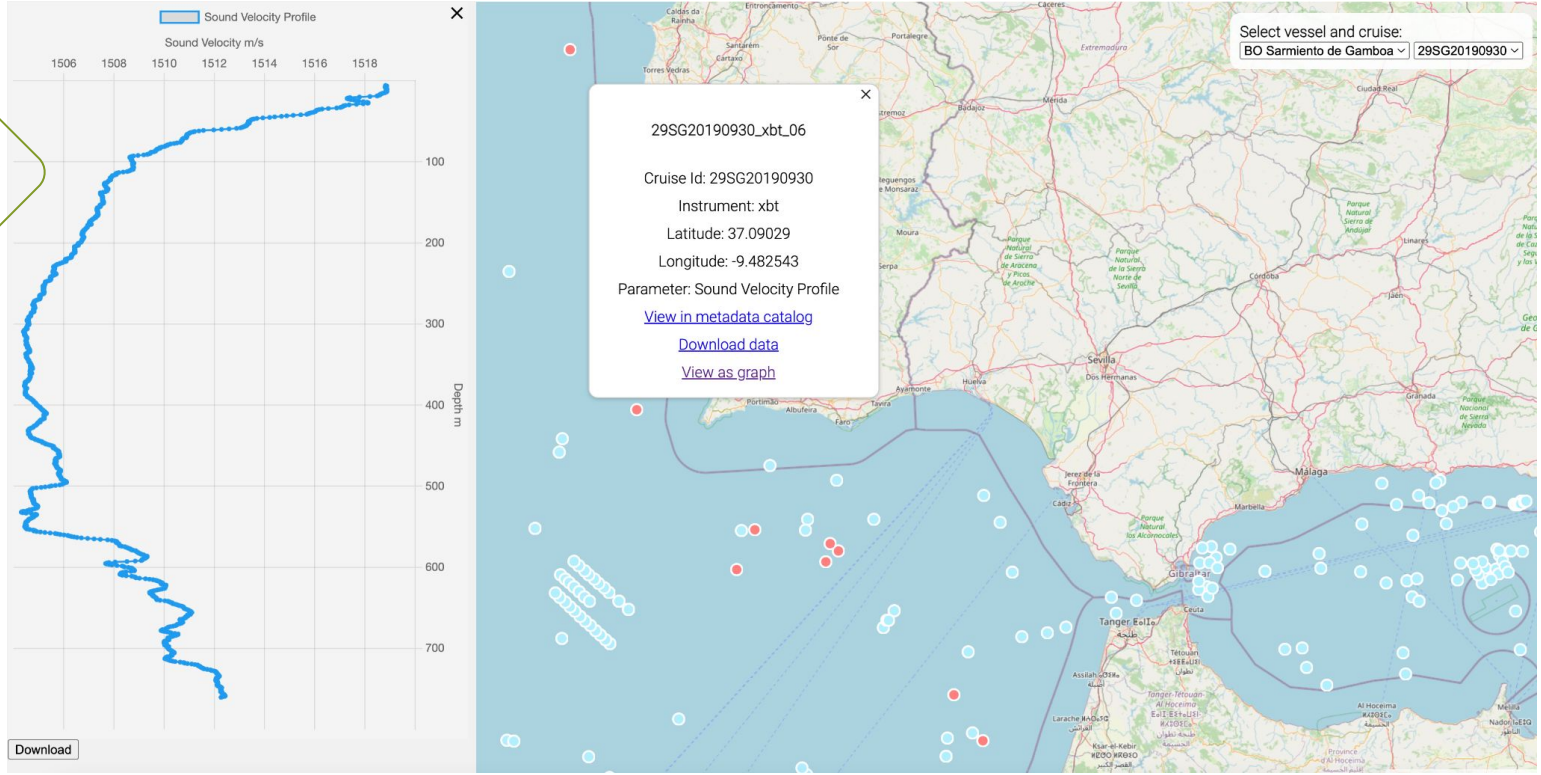
Open Data



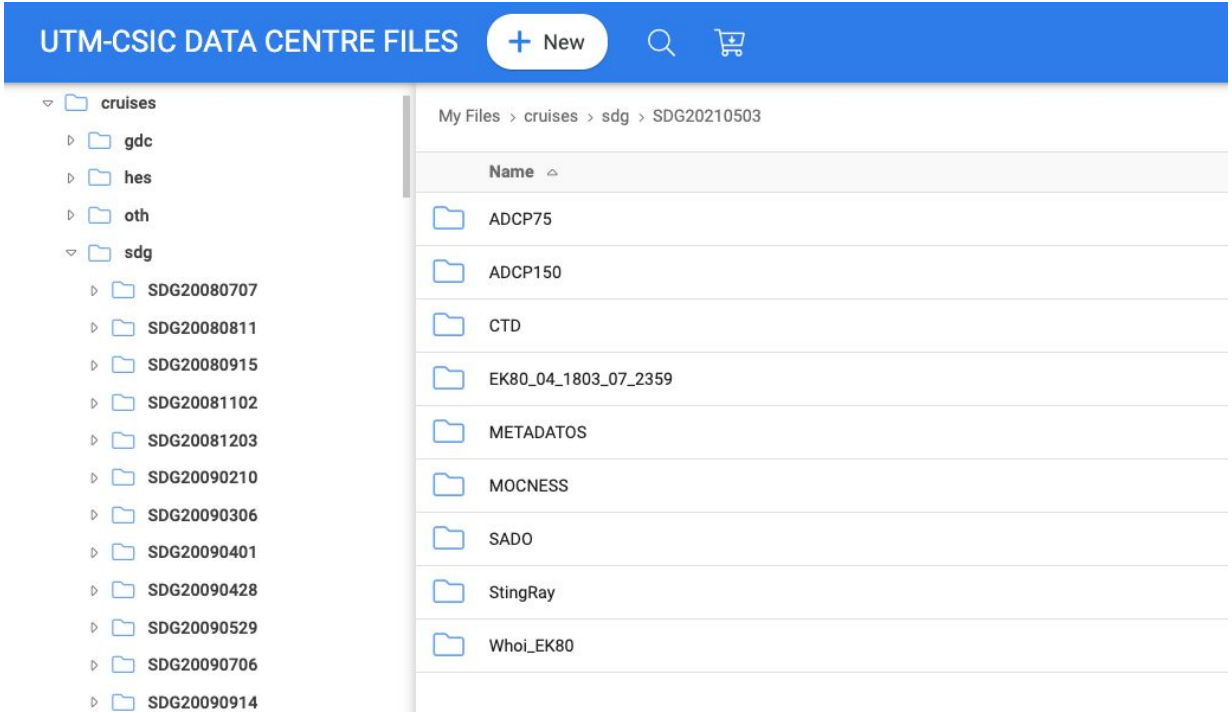


Services / Data Viewers / Water column profiles

Open Data



Services / Repository
open & restricted online access to data



FAIR

Findable Accessible Interoperable Reusable

Use of PIDs

doi

DataCite
FIND, ACCESS, AND REUSE DATA

DIGITAL.CSIC
CIENCIA ABIERTA

Metadata – XML files, SeaDataNet format INSPIRE compliant

Catalogue

Access & Download Services

Ocean Data Standards

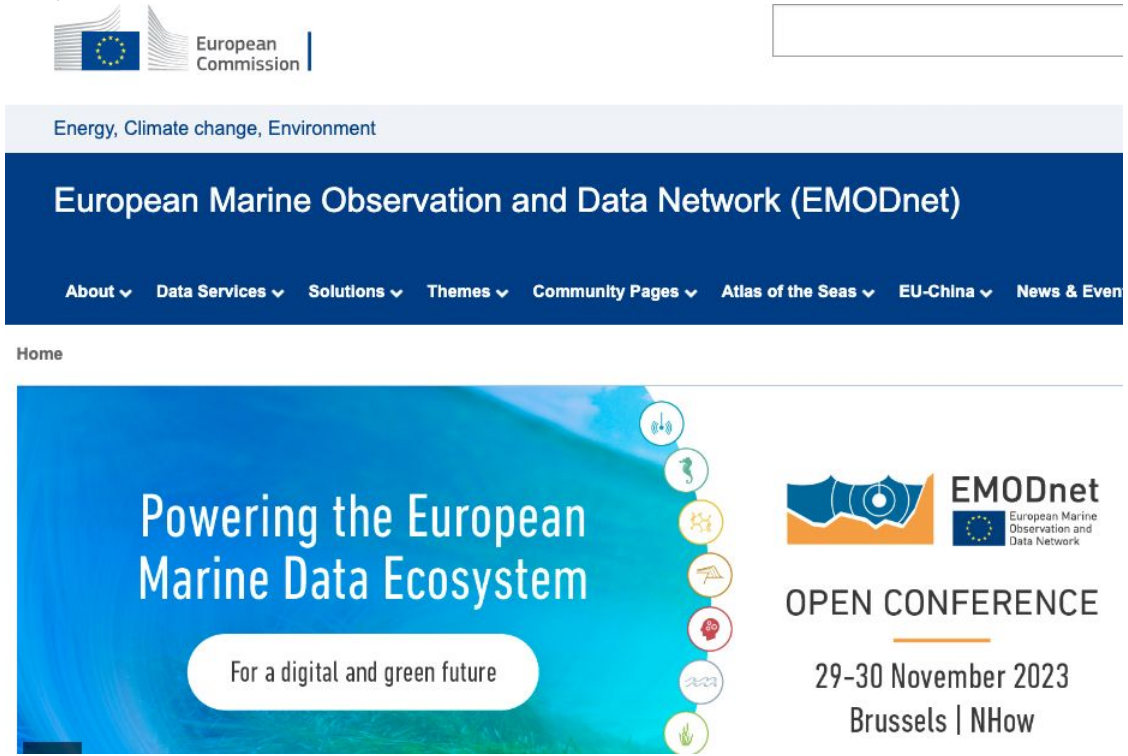
- SeaDataNet datafile formats
- Use of common vocabularies
- QC –SeaDataNet flags

Provenance Information

By following the FAIR principles we are able to connect the infrastrucuture to some European marine data infrastructures such as:

European marine data infrastructures/ EMODnet

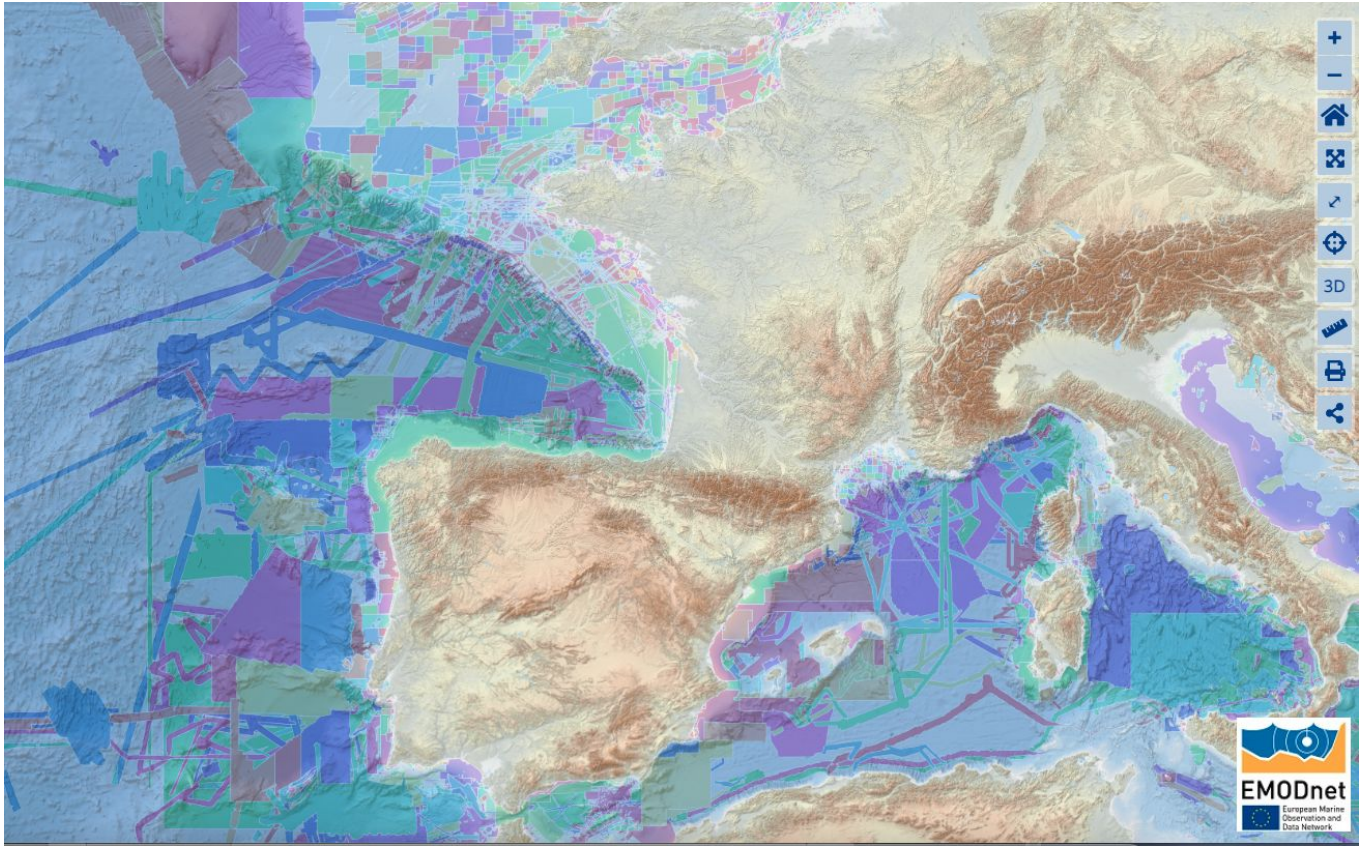
Open Data



European marine data infrastructures/ EMODnet

EMODnet
Bathymetry

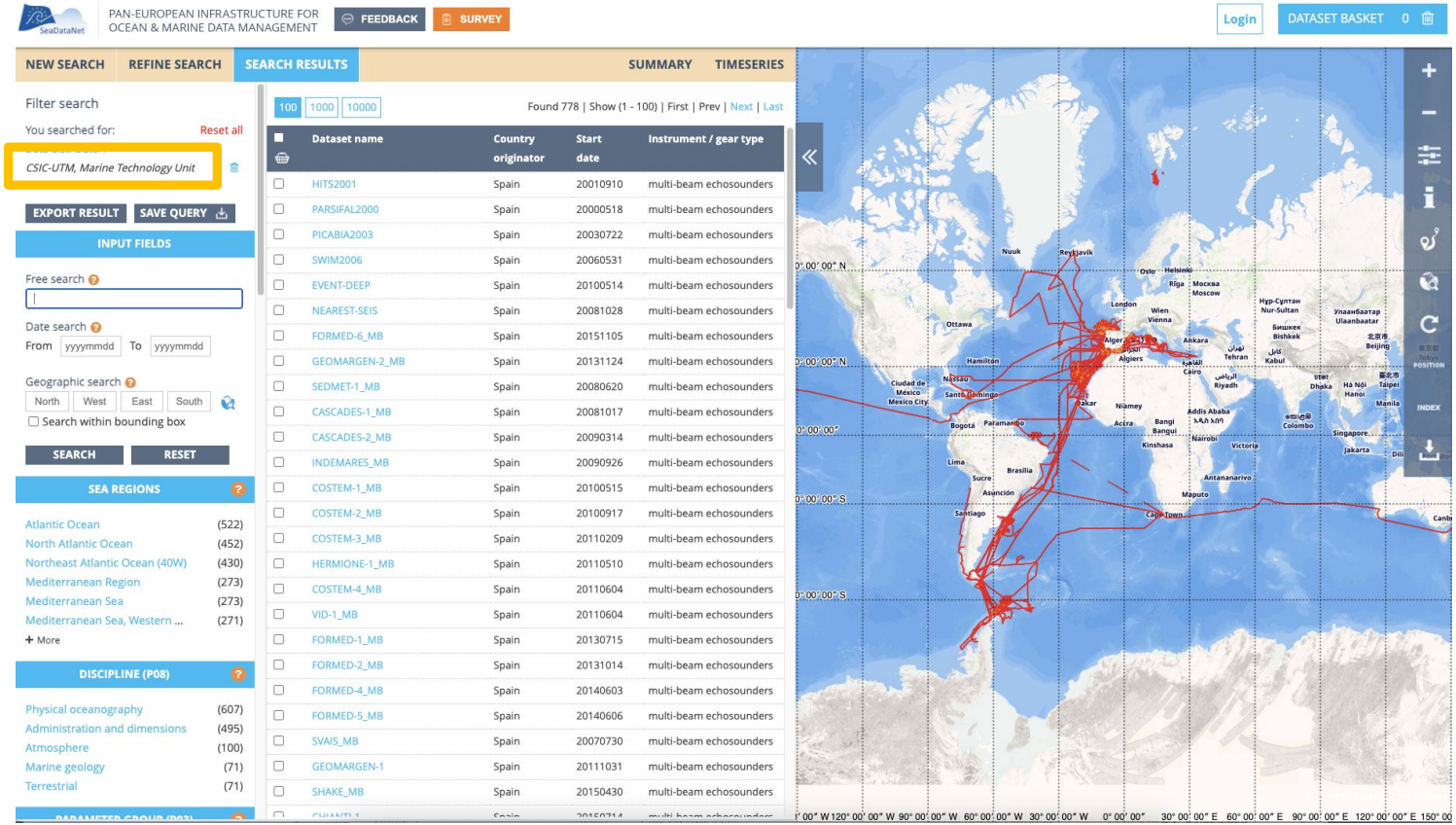
Open Data



European marine data infrastructures / SeaDataNet

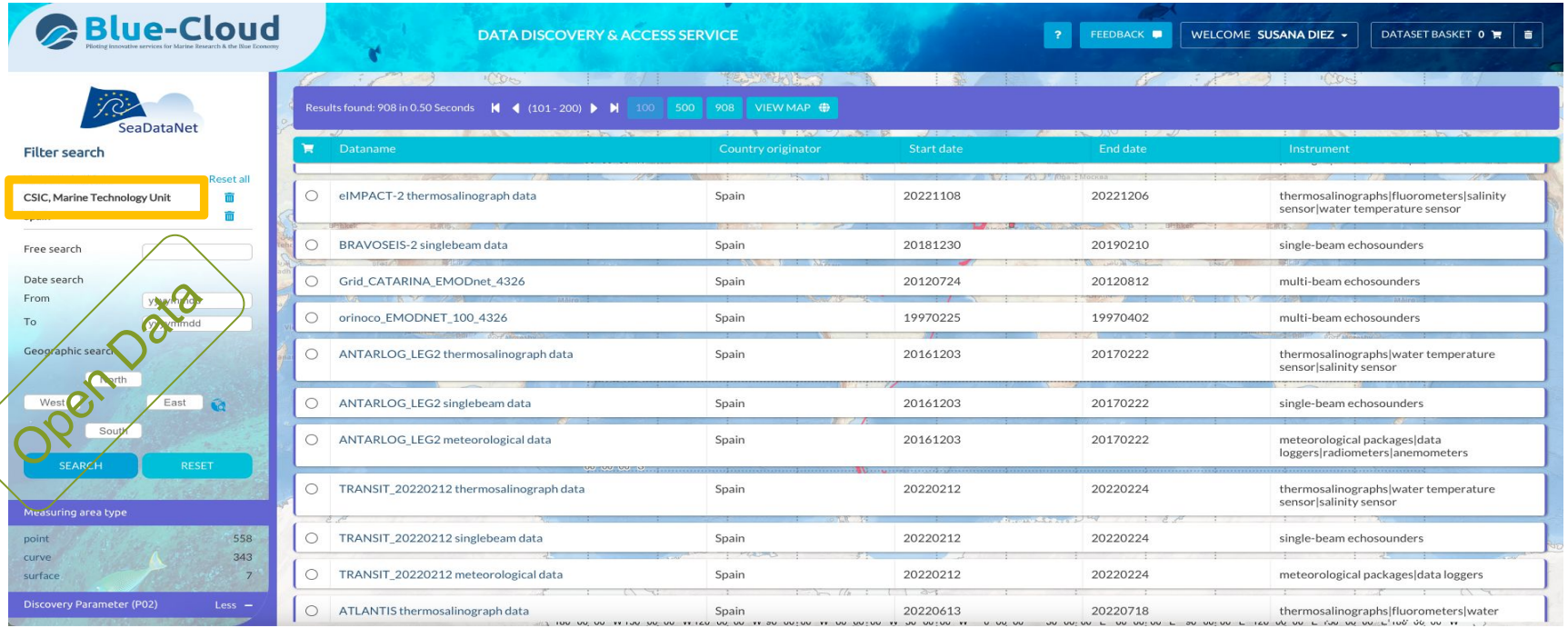
SeaDataNet

UTM-CSIC & IEO-CSIC are partners and Oceanographic Data Centres of SeaDataNet



European marine data infrastructures / Blue-Cloud

EOSC demonstrator, Open Science platform for collaborative marine research. Blue-Cloud federates some marine infrastructures



Data management following FAIR principles + Federation of Marine Data & Data Services

UTM-CSIC
Data Centre

Findable Accessible Interoperable Reusable

Open Data

EMODnet
European Marine Observation and Data Network

SeaDataNet

WORLD METEOROLOGICAL ORGANIZATION

Copernicus
Europe's eyes on Earth

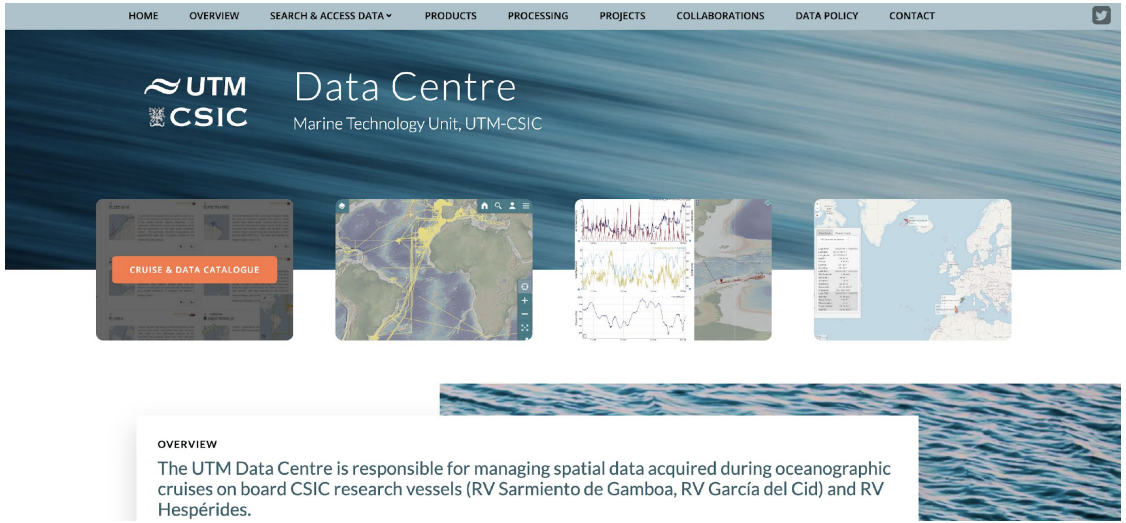
Copernicus Marine Service

EOVs

Blue-Cloud

EUROPEAN OPEN SCIENCE CLOUD

Thank you for your attention!



http://data.utm.csic.es @datautm