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EVIOR portal with full functionality



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1 Introduction

Eurofleets+ facilitates open free of charge access to a unique fleet of state-of-the-art research vessels, AUVs and ROVs from European and international partners. This is arranged by competitive transnational access (TA) calls. A Data Policy has been adopted which aims at making Eurofleets+ research data to be findable, accessible, interoperable and reusable (FAIR). Therefore, marine data management is an integral part of the Eurofleets+ approach and is implemented in synergy with SeaDataNet, a leading Pan-European infrastructure for marine data management, involving NODCs as core partners.

One of the elements of the Eurofleets+ data management approach has been to review, update and further develop the EVIOR platform which was initiated in the earlier Eurofleets projects. EVIOR stands for ‘European Virtual Infrastructure in Ocean Research’ and should be part of the EF+ website.

This activity has been undertaken within WP3 – JRA3.1 as Task 3.1.1 - Reviewing and upgrading the design and functionality of the EVIOR portal. One objective has been to gather and publish at the EVIOR platform up-to-date information about research vessels (RV), cruise programmes, completed cruises, and tracks of cruises. The ultimate goal during the Eurofleets+ project is to give users e-access to underway and operational information and data from sailing research vessels by means of the EVIOR platform. Moreover, to give discovery and public access to research data sets as collected and processed by research teams during the TA funded cruises.

This Deliverable D3.27 describes the upgraded EVIOR platform which is the result of the T3.1.1 activities and which has been integrated in the Eurofleets+ website. This Deliverable is a ‘Demonstrator’ and this report provides a brief overview of the EVIOR portal with full functionality.

2 EVIOR platform and its components

The upgraded EVIOR platform has been integrated in the navigation menu of the Eurofleets+ website and can be found at: <https://evior.eurofleets.eu/>



European Virtual Infrastructure in Ocean Research (EVIOR)



Sharing information on planned, current and completed cruises and on details of European research vessels and specialized equipment. Giving e-access to underway events information, sailing tracks and current position of European research vessels

Image: landing page of EVIOR platform, giving access to each of the components

It now consists of the following components:

- **Cruise Programme database**, containing planned cruises per research vessel and owner / operator;
- **Research Vessel database**, containing characteristics of each research vessel, owner / operator details and, if available, a link to the ship's web page;
- **Cruise Summary Reports (CSR) database**, containing details of completed cruises and providing a first level inventory of oceanographic measurements made and samples taken during the cruises;
- **Dashboard for information from sailing research vessels**, giving sailing tracks of selected RVs with position, speed, and bearing, and underway metadata and data;
- **Cruise Data Sets Catalogue**, providing an overview of Eurofleets+ TA funded cruises and links to relevant information for each of the cruises, such as cruise plan, cruise summary report, sailing tracks, and research data acquired during the TA funded cruises and processed by the cruise research teams.
- **Virtual Playground**, providing a web-based space and platform of data, information and knowledge in which researchers can perform collaborative research. It offers prototype tools to work together interacting with the data (viewing, analysing, annotating) and communicating and discussing (messaging, forums, posting) with other members of teams and communities.

Each of these components are regularly maintained, and also reflect the progress of the data management approach as an integrated activity in Eurofleets+.

The Eurofleets+ beneficiaries manage a selection of European research vessels and equipment. However, for several of the EVIOR databases, the focus is on a full European coverage, encouraging also non-Eurofleets+ RV operators and researchers to contribute. This is stimulated via various existing networking relations, such as SeaDataNet, EurOcean, POGO, JCOMMOPS, ERVO (European Research Vessel Operators) and IRSO (International Research Vessel Operators Meeting).

The following paragraphs give illustrations of each of the EVIOR components.

2.1 Cruise Programme Database



Eurofleets+
An alliance of European marine research infrastructure to meet the evolving needs of the research and industrial communities
[Go to Eurofleets home](#)

Cruise Programmes

[RETURN TO EVIOR HOME](#)

Start » Date from: 20210101 to: 20221231

Geographical box

Research Vessel

- Hans Brattstroem (110)
- Kristine Bonnevie (52)
- G.M. Dannevig (36)
- Belgica (33)
- Ramon Margalef (30)
- ... More

Country operator

- Norway (309)
- France (133)
- Spain (111)
- Germany (91)
- Italy (53)
- ... More

Status

- Completed (848)
- Current (27)
- Scheduled (26)

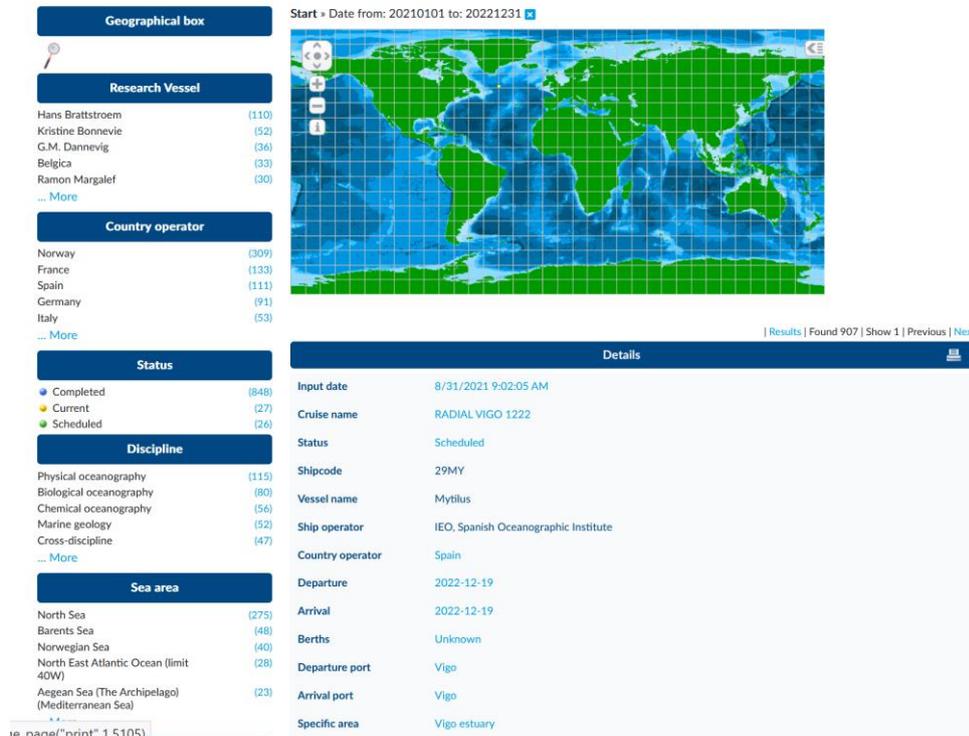
Discipline

- Physical oceanography (115)
- Biological oceanography (80)

Zoom in to selected 20 50 100 records [Go](#) | Found 907 | Show (1-20) | Previous | Next 20

Cruise name	Vessel name	Country operator	Departure	Arrival	Berths	Status	Show
RADIAL VIGO 1222	Mytilus	Spain	2022-12-19	2022-12-19	Unknown	●	→
RCAN	Ramon Margalef	Spain	2022-12-15	2022-12-17	Unknown	●	→
SCOPES	Thalassa	France	2022-12-14	2023-01-10	Unknown	●	→

Image: Research Vessel Cruise Programme database – home page for searching



Start » Date from: 20210101 to: 20221231

Geographical box

Research Vessel

- Hans Brattstroem (110)
- Kristine Bonnevie (52)
- G.M. Dannevig (36)
- Belgica (33)
- Ramon Margalef (30)
- ... More

Country operator

- Norway (309)
- France (133)
- Spain (111)
- Germany (91)
- Italy (53)
- ... More

Status

- Completed (848)
- Current (27)
- Scheduled (26)

Discipline

- Physical oceanography (115)
- Biological oceanography (80)
- Chemical oceanography (56)
- Marine geology (52)
- Cross-discipline (47)
- ... More

Sea area

- North Sea (275)
- Barents Sea (48)
- Norwegian Sea (40)
- North East Atlantic Ocean (limit 40W) (28)
- Aegean Sea (The Archipelago) (Mediterranean Sea) (23)

Details

Input date: 8/31/2021 9:02:05 AM

Cruise name: RADIAL VIGO 1222

Status: Scheduled

Shipcode: 29MY

Vessel name: Mytilus

Ship operator: IEO, Spanish Oceanographic Institute

Country operator: Spain

Departure: 2022-12-19

Arrival: 2022-12-19

Berths: Unknown

Departure port: Vigo

Arrival port: Vigo

Specific area: Vigo estuary

Image: Research Vessel Cruise Programme database – detail page

2.2 Research Vessel Database

[< Back to Eurofleets homepage](#) *Towards an Alliance of European Research Fleets*



Eurofleets European Vessel Database

This directory is a searchable database of European research vessels. Operators/managers can enter/update their research vessels [online](#) or by contacting the [helpdesk](#).

Operating RVs

Prepare your query with a combination of the following criteria:

[Vessel Name] [Vessel Category] [Country] [Length] [Main Activity] [Available for charter]

Operating RVs

Search results Your search has returned 309 vessels.

Vessel Name	Country	Category	Length
Aade	Germany	Local/Coastal	12.50 m
Actinia	United Kingdom	Local/Coastal	10.85 m
Aegaeo	Greece	Oceanic	61.50 m
Águas Vivas	Portugal	Local/Coastal	11.00 m
Akademik	Bulgaria	Oceanic	55.50 m
Akademik A. Karpinsky	Russia	Global	104.50 m
Akademik Ioffe	Russia	Global	117.10 m
Akademik Lazarev	Russia	Global	81.80 m
Akademik Mstislav Keldysh	Russia	Global	122.20 m

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Image: Research Vessel database –search page

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Eurofleets European Vessel Database

[< Back to Search](#)

Celtic Explorer



Contact Information

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Telephone +353 91387487

Fax +353 91 387207

Website <http://www.marine.ie/home/services/researchvessels/explorer/home.htm>

Email Aodhan.fitzgerald@marine.ie

Observations --

Technical Details

Main Dimensions

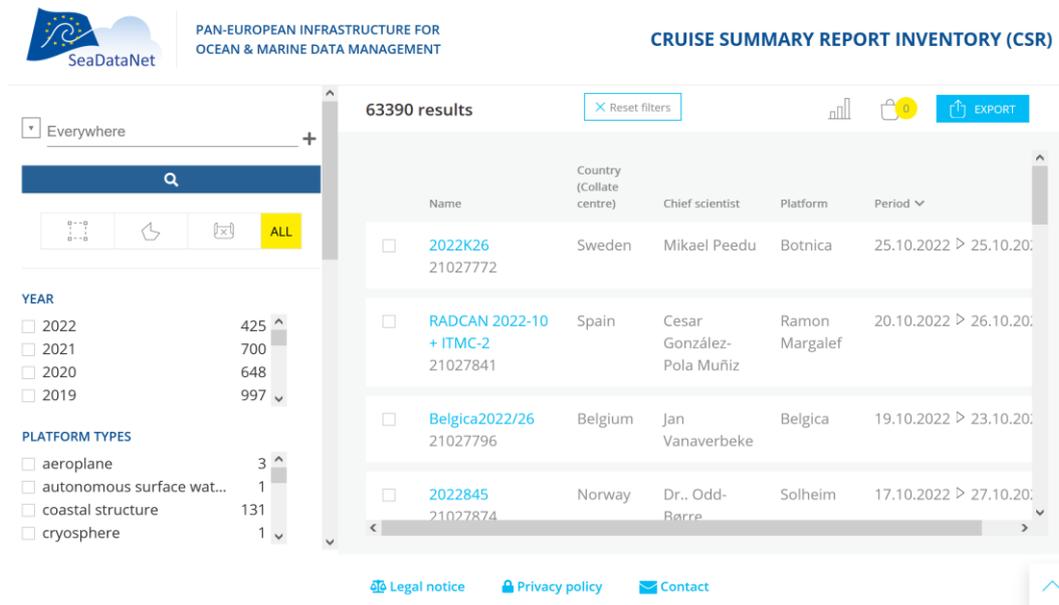
Length	65.50
Draft (m)	5.70

Status Operating
Main activity Multiple activities
Operating area Atlantic Ocean; Celtic Seas
Country Ireland
ICES code 45CE
NODC code
Call sign EIGB
Year built 2002
Homeport Galway
Length 65.50 m
Avail. for charter Yes
Last update 23.06.2015

This directory is a searchable database of European research vessels. Operators/managers can enter/update their research vessels [online](#) or by contacting the [helpdesk](#).

Image: Research Vessel database –detail page

2.3 Cruise Summary Reports (CSR) Database



SeaDataNet | PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT | CRUISE SUMMARY REPORT INVENTORY (CSR)

63390 results [Reset filters](#) [EXPORT](#)

Search: Everywhere

YEAR

- 2022 425
- 2021 700
- 2020 648
- 2019 997

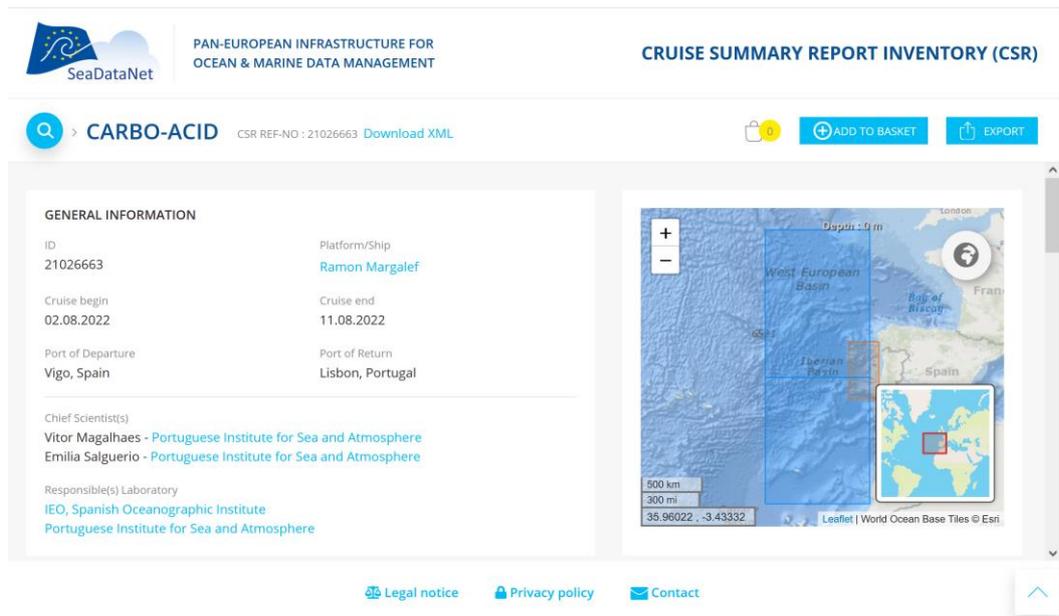
PLATFORM TYPES

- aeroplane 3
- autonomous surface wat... 1
- coastal structure 131
- cryosphere 1

Name	Country (Collate centre)	Chief scientist	Platform	Period
<input type="checkbox"/> 2022K26 21027772	Sweden	Mikael Peedu	Botnica	25.10.2022 > 25.10.20...
<input type="checkbox"/> RADCAN 2022-10 + ITMC-2 21027841	Spain	Cesar González-Pola Muñiz	Ramon Margalef	20.10.2022 > 26.10.20...
<input type="checkbox"/> Belgica2022/26 21027796	Belgium	Jan Vanaverbeke	Belgica	19.10.2022 > 23.10.20...
<input type="checkbox"/> 2022845 21027874	Norway	Dr., Odd-Børre	Solheim	17.10.2022 > 27.10.20...

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Image: Cruise Summary Reports (CSR) database – search page



SeaDataNet | PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT | CRUISE SUMMARY REPORT INVENTORY (CSR)

Search: > CARBO-ACID CSR REF-NO : 21026663 [Download XML](#) [ADD TO BASKET](#) [EXPORT](#)

GENERAL INFORMATION

ID: 21026663 Platform/Ship: Ramon Margalef

Cruise begin: 02.08.2022 Cruise end: 11.08.2022

Port of Departure: Vigo, Spain Port of Return: Lisbon, Portugal

Chief Scientist(s):
Vitor Magalhaes - Portuguese Institute for Sea and Atmosphere
Emilia Salguero - Portuguese Institute for Sea and Atmosphere

Responsible(s) Laboratory:
IEO, Spanish Oceanographic Institute
Portuguese Institute for Sea and Atmosphere

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Image: Cruise Summary Reports (CSR) database – detail page

2.4 Dashboard for information from sailing research vessels

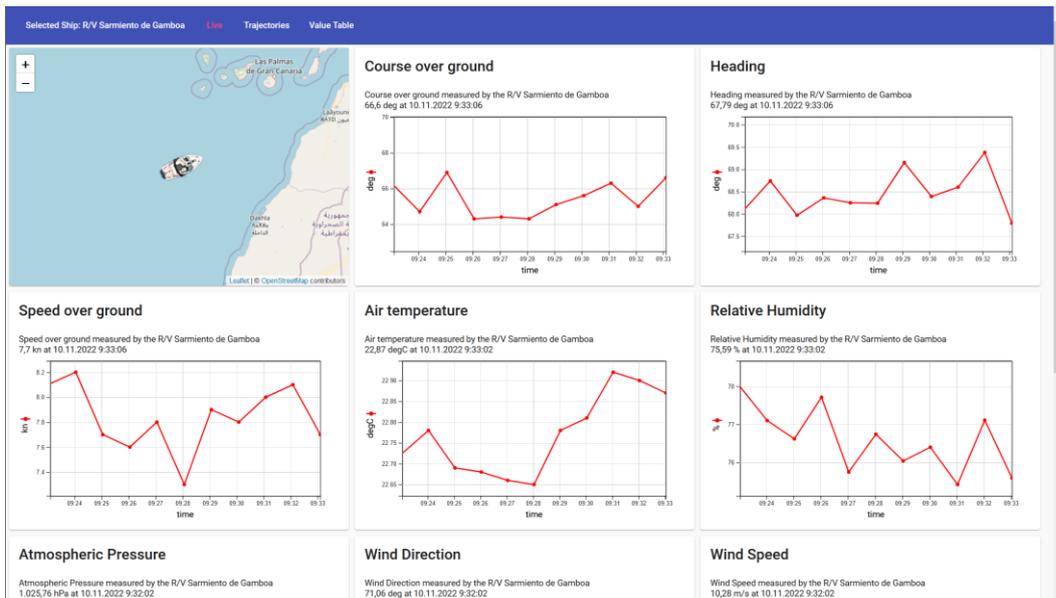


Image: Dashboard of sailing vessels – Live dashboard with en-route data

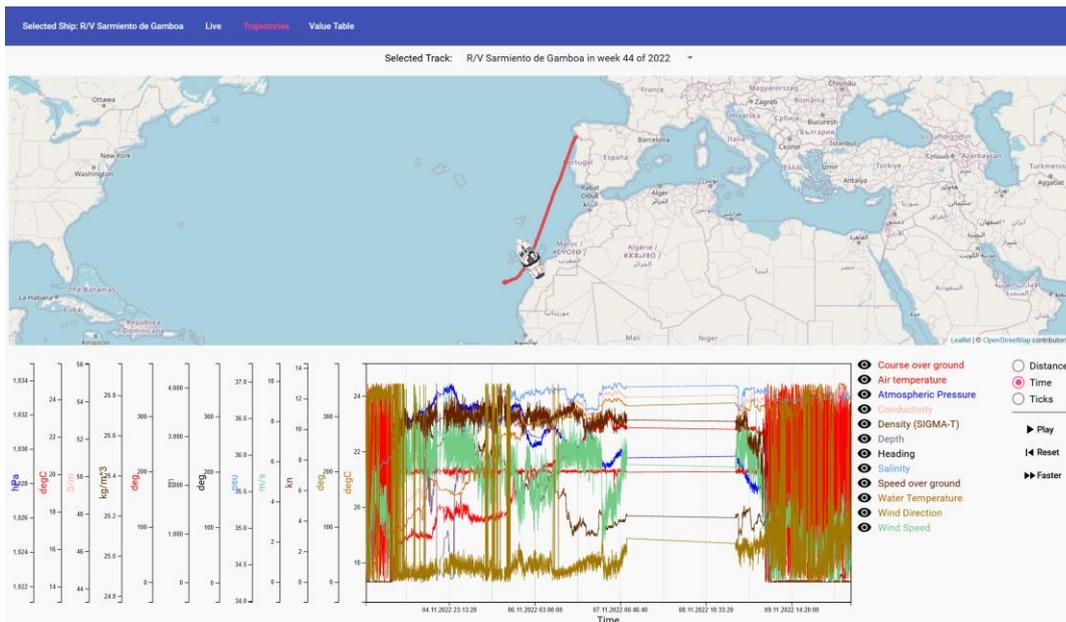


Image: Dashboard of sailing vessels – Trajectory look-up including en-route data

2.5 Cruise Data Sets Catalogue



Eurofleets+ Cruise Data Sets Catalogue

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Cruise ID	Research Vessel	Date Start	Date End	More Details
IMAR	Pelagia	2021-05-18	2021-06-02	✓
Benchmark	G.O. Sars	2021-08-01	2021-08-10	✓
FOCUS-AUV	Tangaroa	2020-09-30	2020-10-28	✓
GRASSMAP	SOCIB	2021-09-14	2021-09-20	✓
GSHARK	Dana	2021-07-21	2021-08-12	✓
MYRTOON	Aegaeo	2021-09-30	2021-10-09	✓
PHYCOB	TUBITAK Marmara	2021-09-11	2021-09-17	✓
PORO-CLIM	Celtic Explorer	2021-05-05	2021-05-30	✓
CALYPSO	Pelagia	2022-02-20	2022-03-12	✓
CABLE	Aranda	2022-04-04	2022-04-09	✓
SEAQUAKE/GRACE	Belgica	2022-04-28	2022-05-11	✓

Image: Cruise Data Sets Catalogue – overview of Eurofleets+ TA Cruises



Eurofleets+ Cruise Data Sets Catalogue

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Record No.	1
Cruise ID	IMAR
Cruise Information	Cruise Narrative
Research Vessel	Pelagia
Date start	2021-05-18
Date end	2021-06-02
Cruise Plan	
Cruise Summary Report	Cruise Summary Report
En-route Data	En-route Data
Original Research data in EMODnet Ingestion	
Original Research data in SeaDataNet SEANOE	
Elaborated Research data in SeaDataNet CDI service	
Elaborated Research data in EMODnet service	

Image: Cruise Data Sets Catalogue – detail page of selected Eurofleets+ TA Cruise

2.6 Virtual Playground

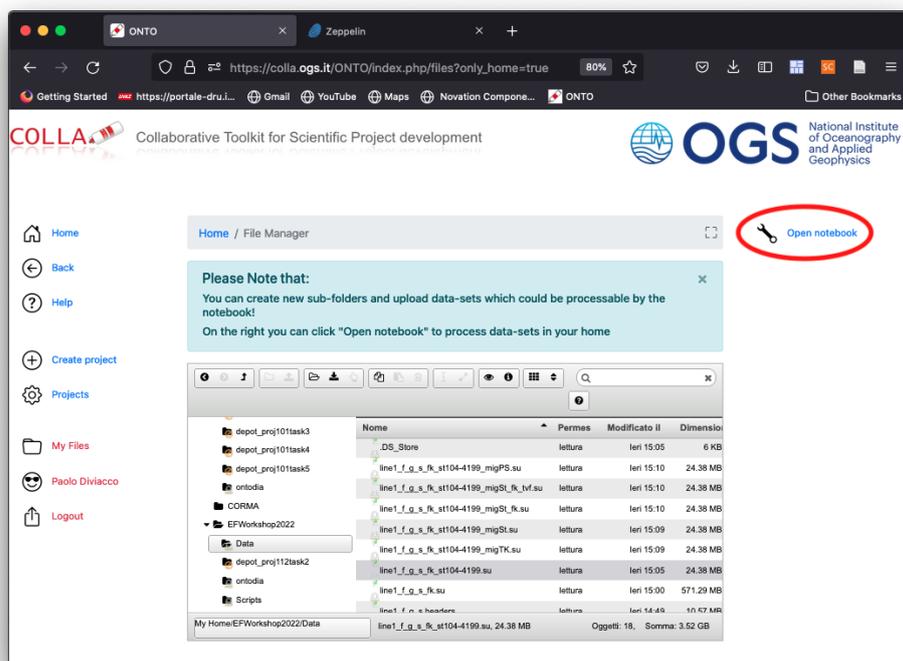


Image: Virtual Playground – Access to the VRE

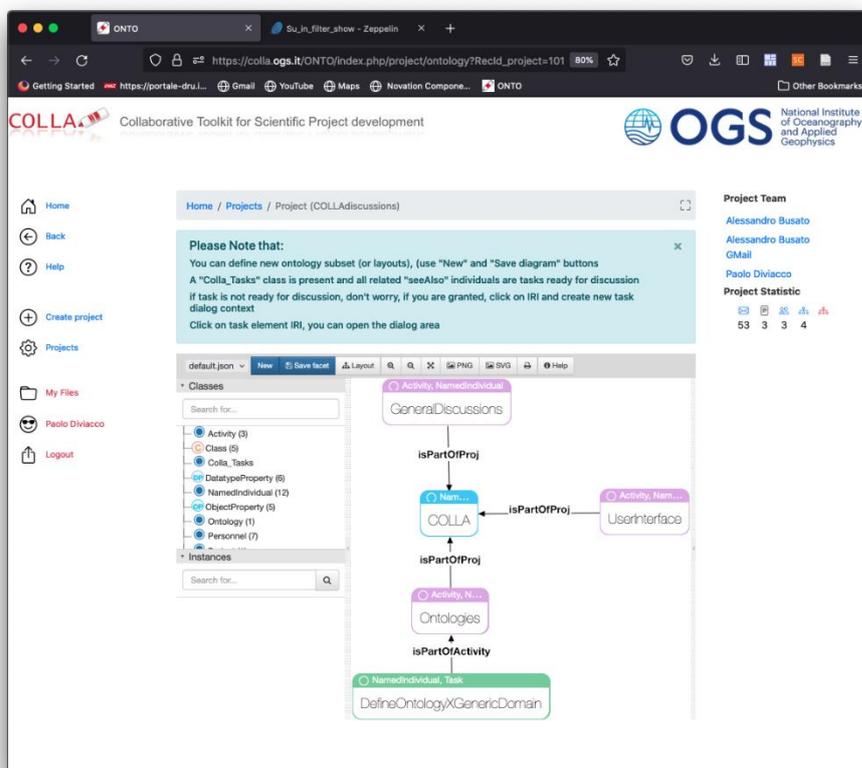


Image: Virtual Playground – Visualisation of Ontology