



EMODnet

 European Marine
Observation and
Data Network



Role played by the Instituto Hidrográfico (IH) in EMODnet

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Instituto Hidrográfico

Data pathways from major river mounts Workshop
8 November 2024



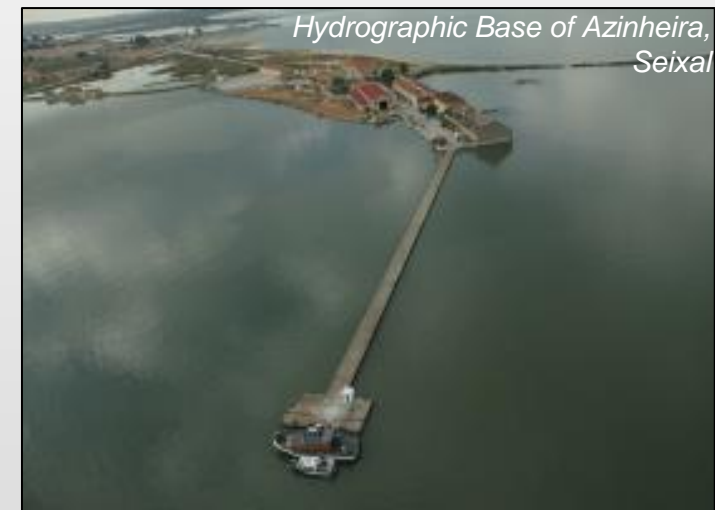
The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) 2021/1139 of the European Parliament and of the Council of 7 July 2021 establishing the European Maritime, Fisheries and Aquaculture Fund.

The Hydrographic Institute

- IH's fundamental mission is to ensure research and technological development activities related to marine sciences and techniques, ... particularly in the areas of hydrography, hydrographic cartography, navigation safety, oceanography and defense of the marine environment

DL n°230/2015

- It is responsible, within the Navy's infrastructure, for the Sciences of the Sea:
 - Research & Investigation
 - Navigation Safety



Research & Investigation

Hidrography



Oceanography

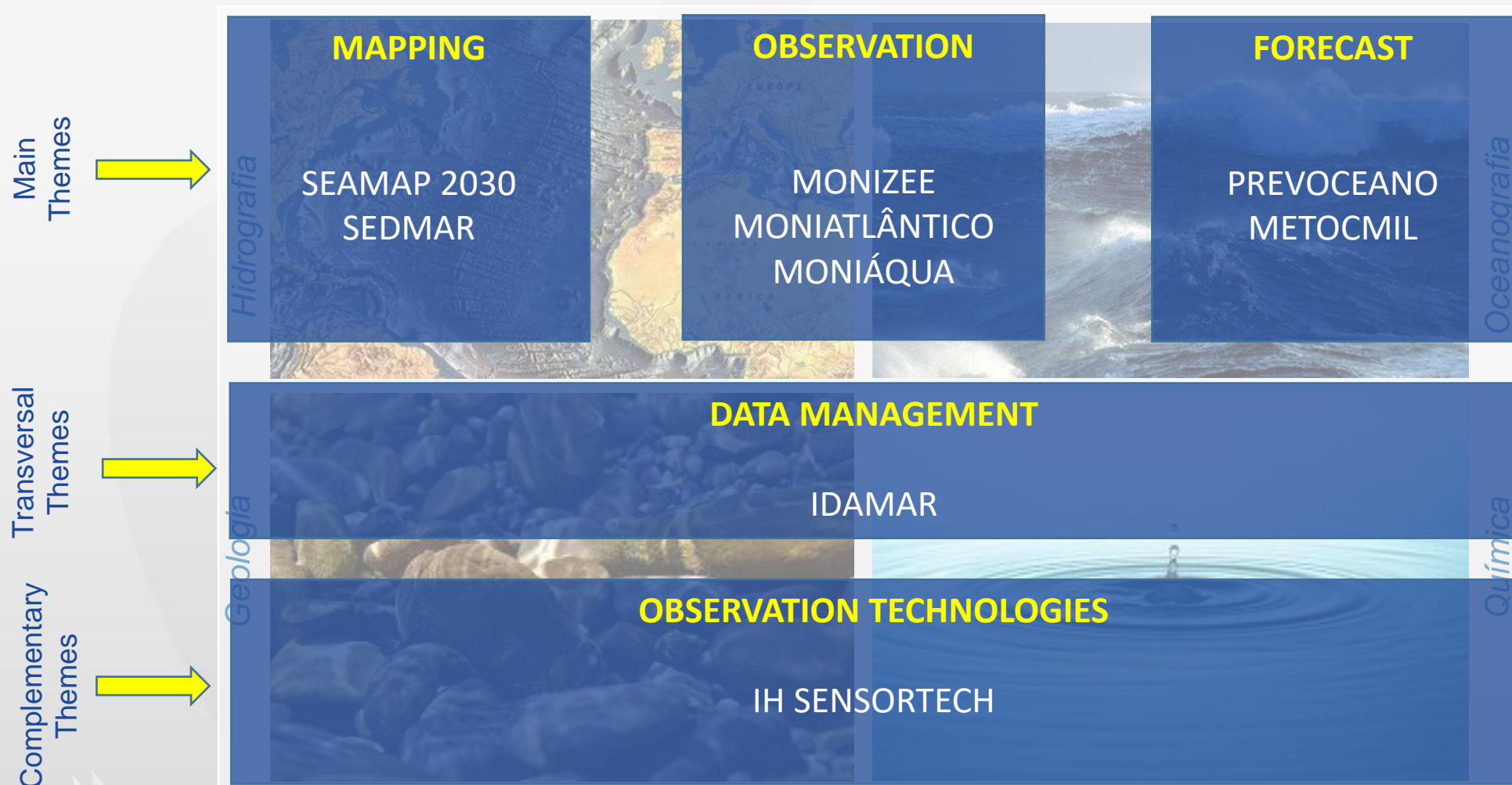


Chemistry

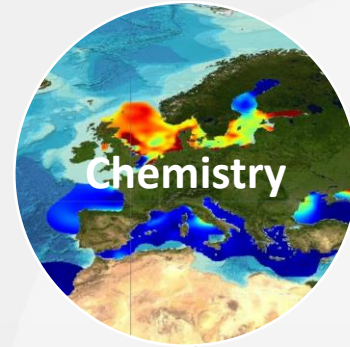
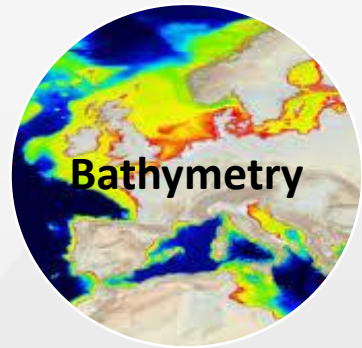
Geology



Research & Investigation



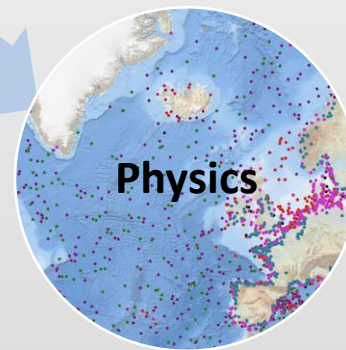
IH's involvement in EMODnet



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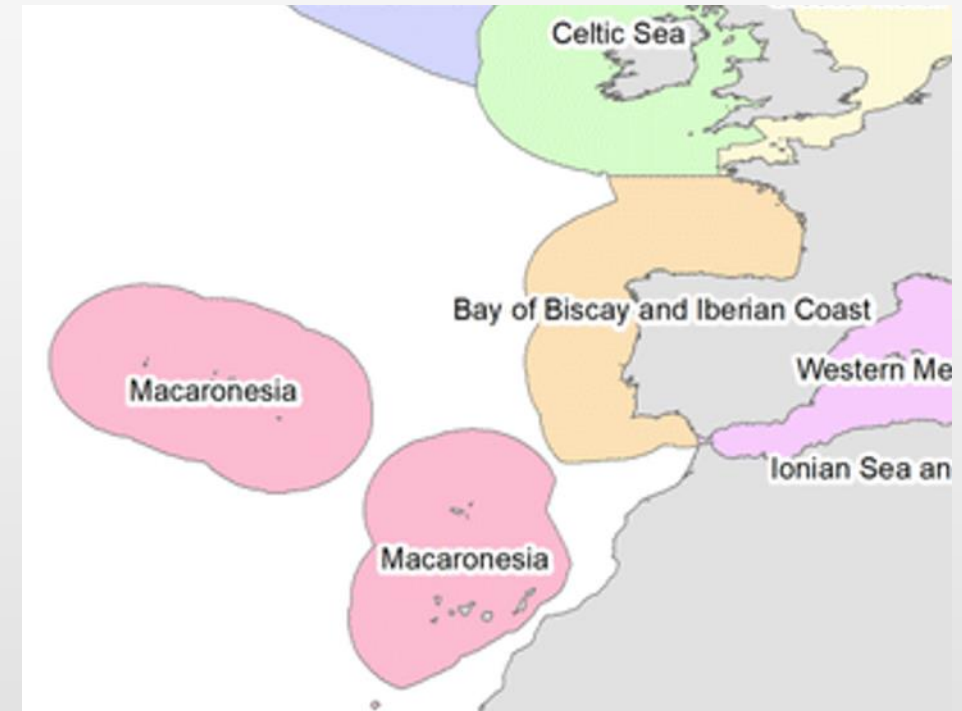
Chemistry



IH in EMODnet Chemistry – A brief summary

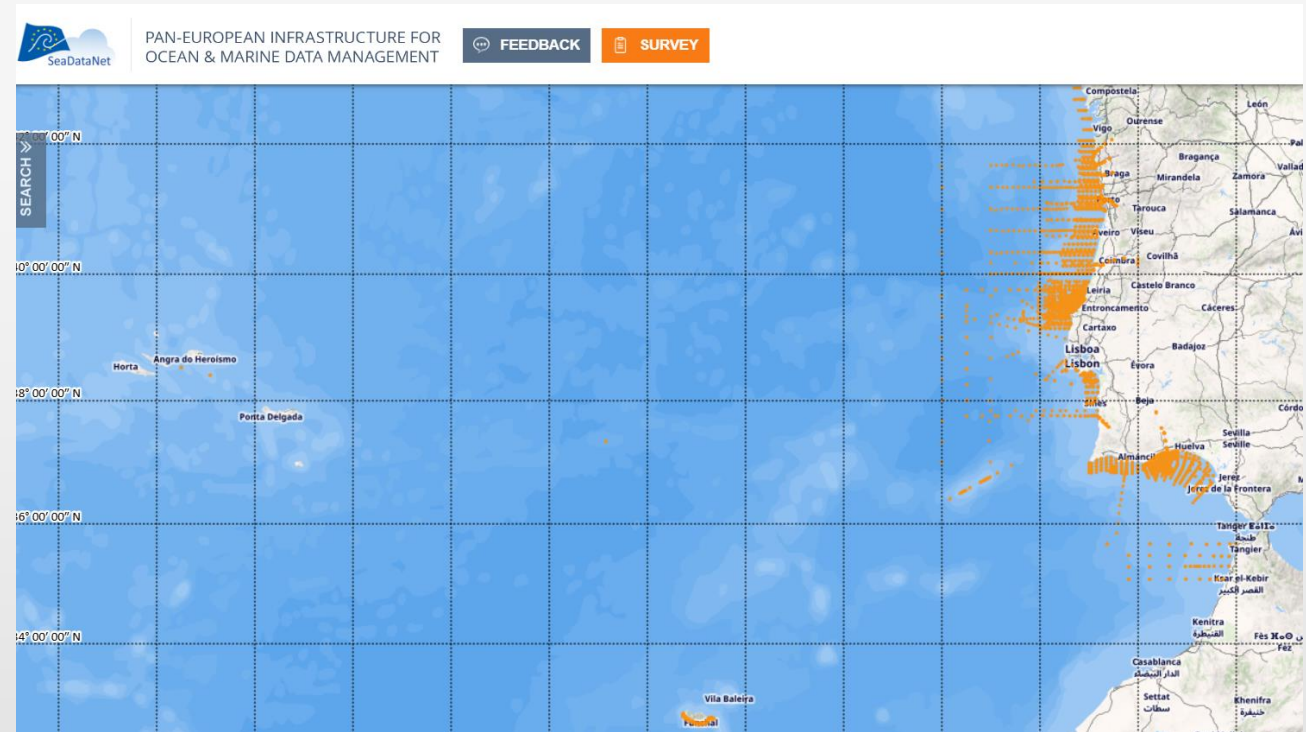
IH and EMODnet Chemistry

- Partner/Advisor since 2012 (beginning of Phase II)
- Focusing on data from the Iberian Coast and Macaronesia:
 - Fertilizers (Wt)
 - Hydrocarbons (mainly Sed)
 - Pesticides and biocides (mainly Sed)
 - Heavy metals (Wt & Sed)
 - Organic matter (Sed)
 - Chlorophyll (Wt)
 - Silicates (Wt)
 - Dissolved gases (Wt)



IH and EMODnet Chemistry

- Over 6300 metadata/data entries
 - Originated on
 - Research projects
 - Internal monitoring programs
 - Containing data of 1-4 groups of parameters
 - Quality controlled (analytical data and metainformation)
 - All individual data and metadata with a quality code (flag) associated
- Development of vocabulary lists of chemical parameters (Phase III)





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Data Ingestion



NODC-PT in EMODnet Data Ingestion

- Introduction to NODC-PT and the Role of IHPT/IPMA
- Data Flow in NODC-PT and Data Ingestion: Progress and Plans
- High-Value Datasets & INSPIRE Alignment

Building the Portuguese National Oceanographic Data Centre



<h2 style="color: red;">Marine Geospatial Data</h2>		



Portuguese National Oceanographic Data Centre



Web Portal

Interoperable

Connected

Best practices

Single access point to portuguese oceanographic data



unesco Intergovernmental Oceanographic Commission

2021 United Nations Decade of Ocean Science for Sustainable Development 2030

ABOUT US ▾ WHAT'S HAPPENING ▾ DECADE ACTIONS ORGANIZATION ▾ GET INVOLVED

PORTUGUESE NATIONAL OCEANOGRAPHIC DATA CENTRE

← ALL ACTIONS

<https://nodc-portugal.pt/>



2021 United Nations Decade of Ocean Science for Sustainable Development 2030



Challenge 8

Create a digital representation of the ocean



Vision: a federated ecosystem

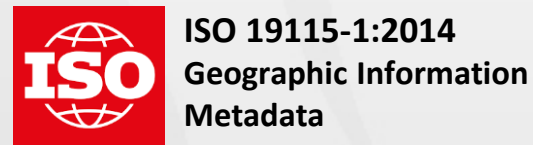


DATA PROVIDERS



BLUE BIO BANKS DATA SOURCES

FEDERATED DATA CATALOG



NATIONAL AGGREGATORS



SUPRANATIONAL AGGREGATORS



Data Sources

Type 1

- Database
- Metadata



Data **stays** in the provider infrastructure
Metadata is **harvested** automatically

Type 2

- Database
- Metadata



Data **stays** in the provider infrastructure
Metadata is **created** by NODC-PT

Type 3

- Database
- Metadata



Data is **curated** by NODC-PT
Metadata is **created** by NODC-PT

NEW DATA TO INGESTION

New Data
Providers



DATA INGESTION PORTAL

Wake up your data - set them free for Blue Society



More
EMODnet
submissions

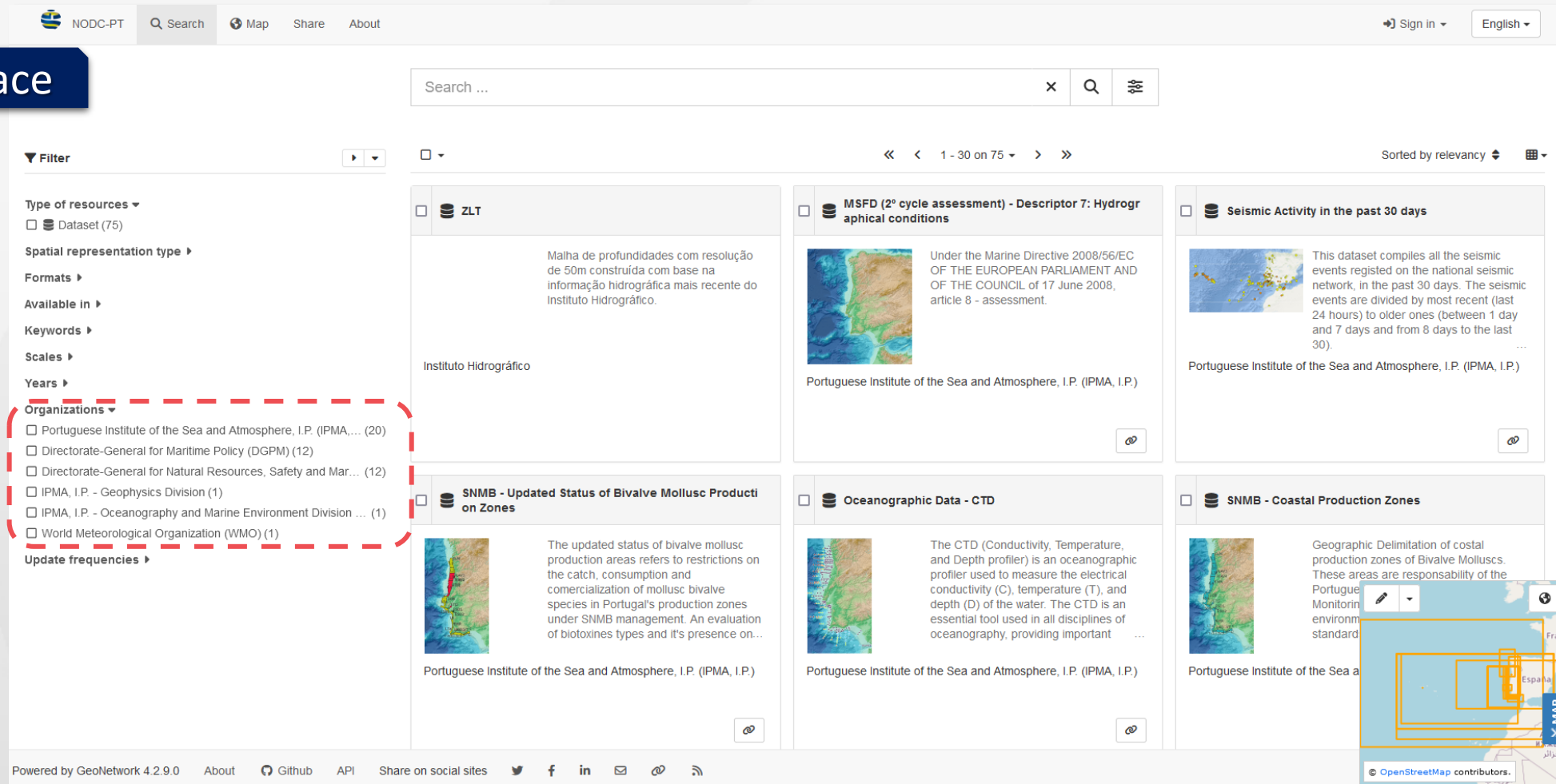


NODC-PT

Engage and enroll new
marine data providers

Enhance marine data
analysis and literacy.

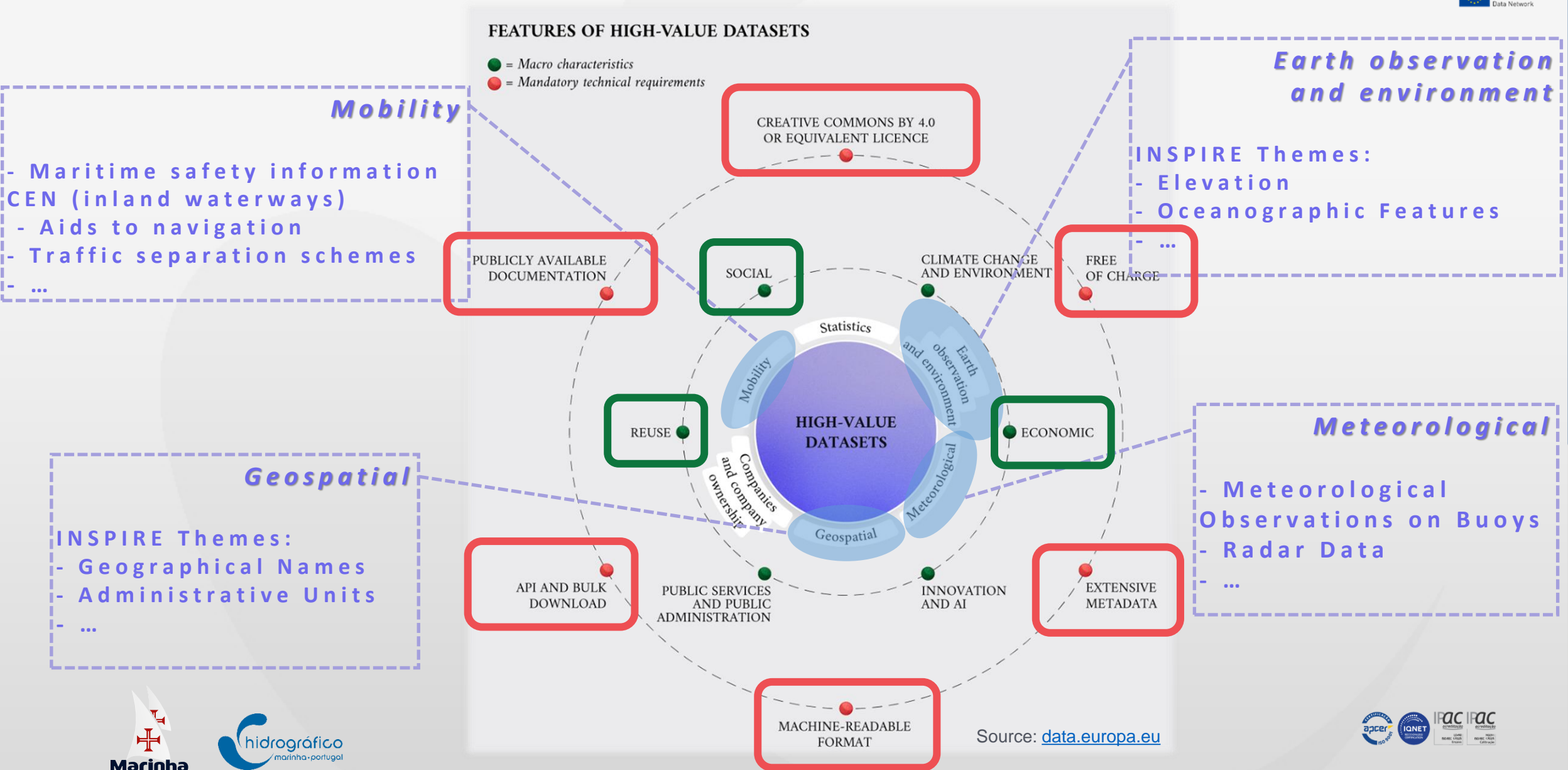
Interface



The screenshot shows the NODC-PT Data Catalogue interface. At the top, there is a navigation bar with 'NODC-PT', a search bar, and links for 'Map', 'Share', and 'About'. On the right, there are options for 'Sign in' and 'English'. Below the navigation bar is a search bar with a search icon and a list icon. The main content area is divided into a left sidebar and a main grid of resource cards. The sidebar contains a 'Filter' section with various categories: 'Type of resources' (Dataset: 75), 'Spatial representation type', 'Formats', 'Available in', 'Keywords', 'Scales', 'Years', and 'Organizations'. The 'Organizations' section is highlighted with a red dashed box and includes: Portuguese Institute of the Sea and Atmosphere, I.P. (IPMA,...) (20), Directorate-General for Maritime Policy (DGPM) (12), Directorate-General for Natural Resources, Safety and Mar... (12), IPMA, I.P. - Geophysics Division (1), IPMA, I.P. - Oceanography and Marine Environment Division ... (1), and World Meteorological Organization (WMO) (1). The main grid displays six resource cards, each with a title, a thumbnail image, a description, and the organization name. The cards are: 1. ZLT (Malha de profundidades com resolução de 50m...), 2. MSFD (2° cycle assessment) - Descriptor 7: Hydrographical conditions, 3. Seismic Activity in the past 30 days, 4. SNMB - Updated Status of Bivalve Mollusc Production Zones, 5. Oceanographic Data - CTD, and 6. SNMB - Coastal Production Zones. At the bottom of the interface, there is a footer with 'Powered by GeoNetwork 4.2.9.0' and various social media icons.

<https://data.nodc-portugal.pt/>

NODC – PT: High-Value Datasets & INSPIRE Alignment



Events with orcas - AnavNet

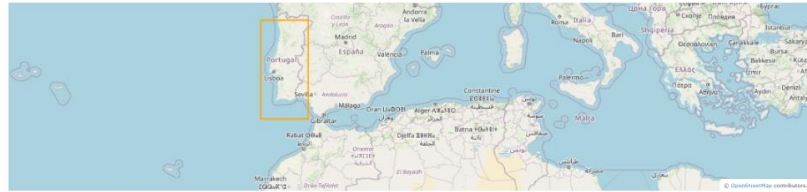


Eventos com orcas registados em <https://geoanavnet.hidrografico.pt>

Este conjunto de dados geográficos contém informação geoespacial relativa a eventos (avistamentos e interações) com orcas na costa ibérica, reportados através do portal <https://geoanavnet.hidrografico.pt>. Para mais informação consultar <https://arcg.is/1POGT9>.
Este conjunto de dados integra os Conjuntos de Dados de Elevado Valor/HVD Identificados de acordo com o Regulamento de Execução n.º 2023/138 da Diretiva (UE) 2019/1024, relativa aos dados abertos e à reutilização de informações do setor público.



Discover data



Access and use constraints

[Acesso público sem restrições](#)

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Technical information

Publication 12-12-2023	Keywords Avistamento Eventos HVD IH Interação NODC-PT Orcas	Resource identifier http://id.igeo.pt/cdg/ca6db655-4914-4e2a-ba4e-86448b471f21	Representation type Vector
Update frequency As needed	GEMET - INSPIRE themes, version 1.0 Distribuição das espécies	Language Português	Scale 1 / 0
ISO 19119 service taxonomy InfoFeatureAccessService InfoMapAccessService	Categories Environment	Coordinate reference system 4326	



DATA INGESTION PORTAL

Wake up your data - set them free for Blue Society

Search

CONTACT US

ABOUT DATA SUBMISSION OPERATIONAL DATA SUBMISSIONS GUIDELINES HELP PROMOTION

CENTRAL PORTAL

Home / Submissions

Details of Events with orcas - AnavNet

BACK

Dataset identification

Title of dataset Events with orcas - AnavNet

Narrative summary of dataset This geographic dataset contains geospatial information related to events (sightings and interactions) with orcas along the Iberian coast, reported through the portal <https://geoanavnet.hidrografico.pt>. For more information, please consult <https://arcg.is/1POGT9>. This dataset is part of the High-Value Datasets (HVD) identified in accordance with Implementing Regulation No. 2023/138 of Directive (EU) 2019/1024, concerning open data and the re-use of public sector information.



Start date 2022-07-30

End date 2024-09-10

Frequency of observations inapplicable

Responsible organisations

Country Portugal

Organisation name Hydrographic Institute

Role of organisation Originator of Dataset

Dataset availability

Original dataset download link <https://cloud.emodnet-ingestion.eu/index.php/s/8nyVwqbWbg5iKRy>

Dataset format Geographic Information System

Public access No limitations

License for use CC-BY 4.0

Type Dataset



More info: <https://arcg.is/1POGT9>



NODCs Impact in EMODnet Ingestion



- ✓ Alignment with European Directives
- ✓ Strategic Partnership with Leading Marine Data Institutions
- ✓ Free and Accessible High-Value Datasets (HVDs)
- ✓ Contribution to Marine Strategy and Sustainability
- ✓ Support for the Marine Strategy Framework Directive (MSFD)
- ✓ Providing critical data that enables sustainable marine management and a better understanding of the marine environment
- ✓ Expansion of the Data Provider Network





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emodnet.ec.europa.eu

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the latest news

