

# EMODnet Physics

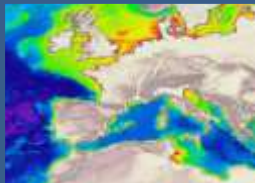
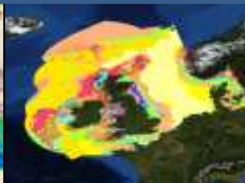

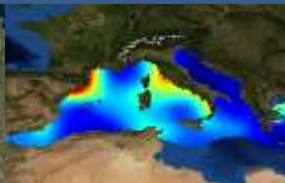
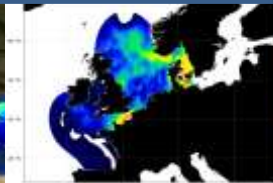


**EASME/EMFF/2016/006 - Operation, development and maintenance of a  
European Marine Observation and Data Network**

**EASME/EMFF/2016/1.3.1.2 – Lot 3/SI2.749411**

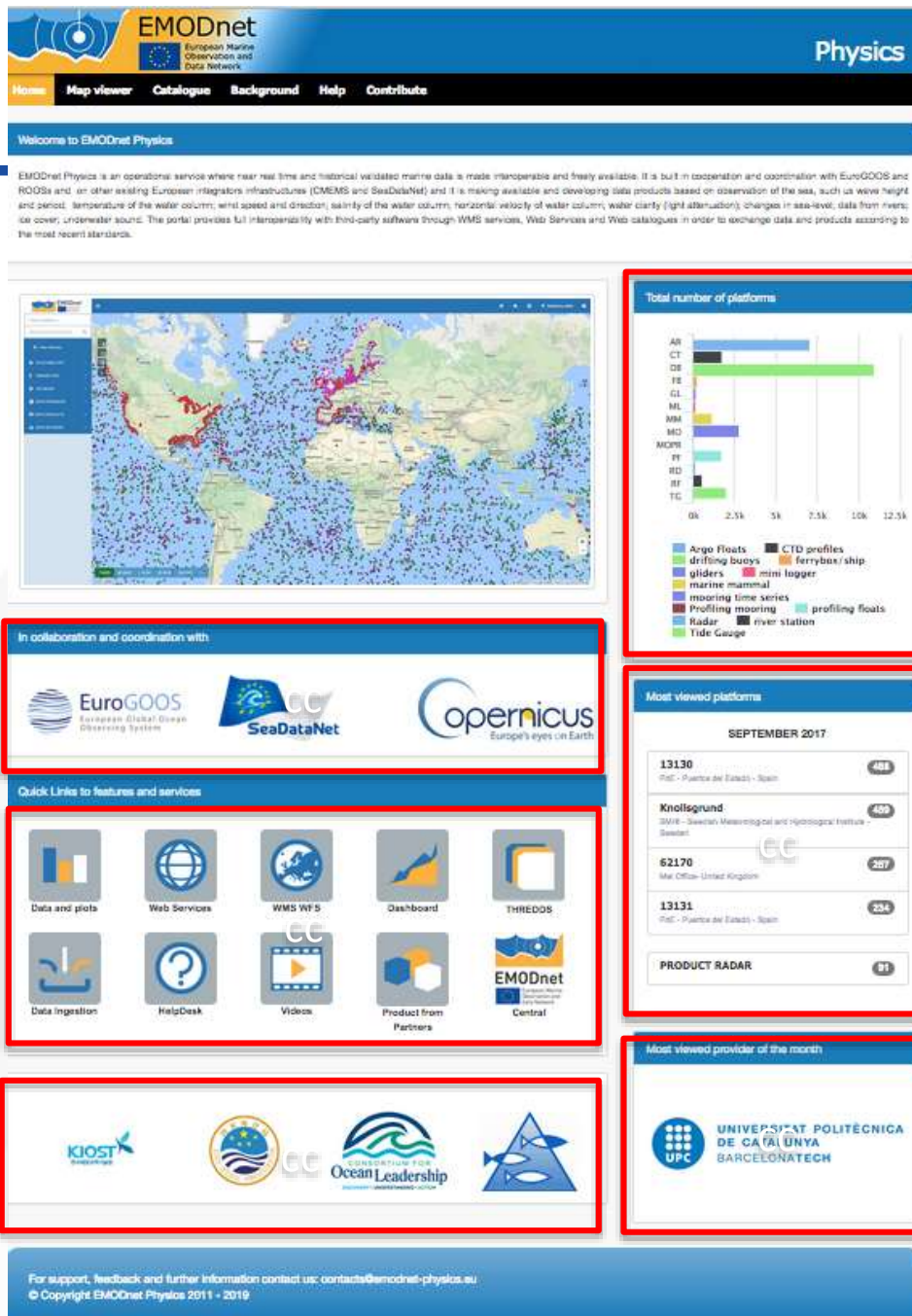
Antonio Novellino

- Brief background overview
- Tools and services to users
- Tools and services to the providers
- What's next

# What's that?

Bathymetry	Geology	Seabed habitats	Chemistry	Biology	Physics	Human activities
						
Minimum cell water depth  Maximum cell water depth  Average cell water depth  Standard deviation of cell water depth  Number of values used for interpolation of cell water depth  Horizontal coordinate reference system  Depth reference system  Lowest Astronomical Tide	Seabed substrate  Sediment accumulation rate  Sea-floor geology  Seabed lithology  Stratigraphy  Coastline migration  Aggregate resources  Geological events	Depth  Seabed substrate Energy at seabed (waves & current)  Salinity  Temperature  Light at seabed  Oxygen at seabed	DDT PCB TBT TPT Oxytetracycline Mercury Cadmium Lead Anthracene Fluoroanthene Cs137 Pu239 Nitrogen (Din, TN) Phosphorus (DIP, TP) pH pCO2 alkalinity O2 CO2 Polyethylene Polypropylene Chlorophyll Silicates Organic Matter	Biomass Abundance Gridded Abundance (DIVA)  <i>species groups</i> phytoplankton  zooplankton  angiosperms  macro-algae  invertebrate bottom fauna  birds  mammals  reptiles  Fish	Waves  Water temperature  Water salinity/conductivity /density  Currents  Light attenuation/fluorescence  Sea level  Atmospheric parameters  Wind  <b>Underwater noise</b>  <b>River</b>  Ice	Aggregate Extraction Dredging  Fisheries  Hydrocarbon Extraction Main Ports  Mariculture  Ocean Energy Facilities  Pipelines and Cables  Protected Areas  Waste Disposal  Wind Farms  Other Forms of Area Management / Designation

- A **single access** gate for **marine data** where professionals from public sector, industry, civil society and science can find **good quality harmonized datasets** and products that are **stored in different system** across Europe (and more)
- We want this to be **quick and easy**:
  - Easily **accessible, interoperable, free** of restriction on use
  - Easy **identification** of and **links** with the **provider and PI**
  - **Feedback** about the **impact and use**
- **Collect once and use many** times, reduce fragmentation and increase our knowledge of the oceans
- **Facilitate the ingestion/connection** of new data sources and make available more data
- **Strengthen** the underlying European networks and infrastructures (**EuroGOOS, Copernicus Marine, SeaDataNet**)



**EMODnet**  
European Marine  
Observation and  
Data Network

**Physics**

Home Map viewer Catalogue Background Help Contribute

Welcome to EMODnet Physics

EMODnet Physics is an operational service where near real time and historical validated marine data is made interoperable and freely available. It is built in cooperation and coordination with EuroGOOS and ROOSa and in other existing European integrators infrastructures (CMEMS and SeaDataNet) and it is making available and developing data products based on observation of the sea, such as wave height and period, temperature of the water column, wind speed and direction, salinity of the water column, horizontal velocity of water column, water clarity (light attenuation), changes in sea-level, data from rivers, ice cover, underwater sound. The portal provides full interoperability with third-party software through WMS services, Web Services and Web catalogues in order to exchange data and products according to the most recent standards.

**Total number of platforms**

Platform Type	Count
AR	10
CT	10
DB	10
FE	10
GL	10
HL	10
MM	10
MO	10
MOF	10
PT	10
RD	10
RT	10
TG	10

**Most viewed platforms**

SEPTEMBER 2017

Platform ID	Platform Name	Views
13130	Plat - Puente de Euzkadi - Spain	488
Knollsgrund	2016 - Swedish Meteorological and Hydrological Institute - Sweden	480
62170	Mt. Office - United Kingdom	267
13131	Plat - Puente de Euzkadi - Spain	254

**PRODUCT RADAR**

91

**Most viewed provider of the month**

UNIVERSITAT POLITÈCNICA DE CAIÀ UNYA BARCELONATECH

For support, feedback and further information contact us: [contacts@emodnet-physics.eu](mailto:contacts@emodnet-physics.eu)  
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# How?

Pillars

Stats of the month

Data Use

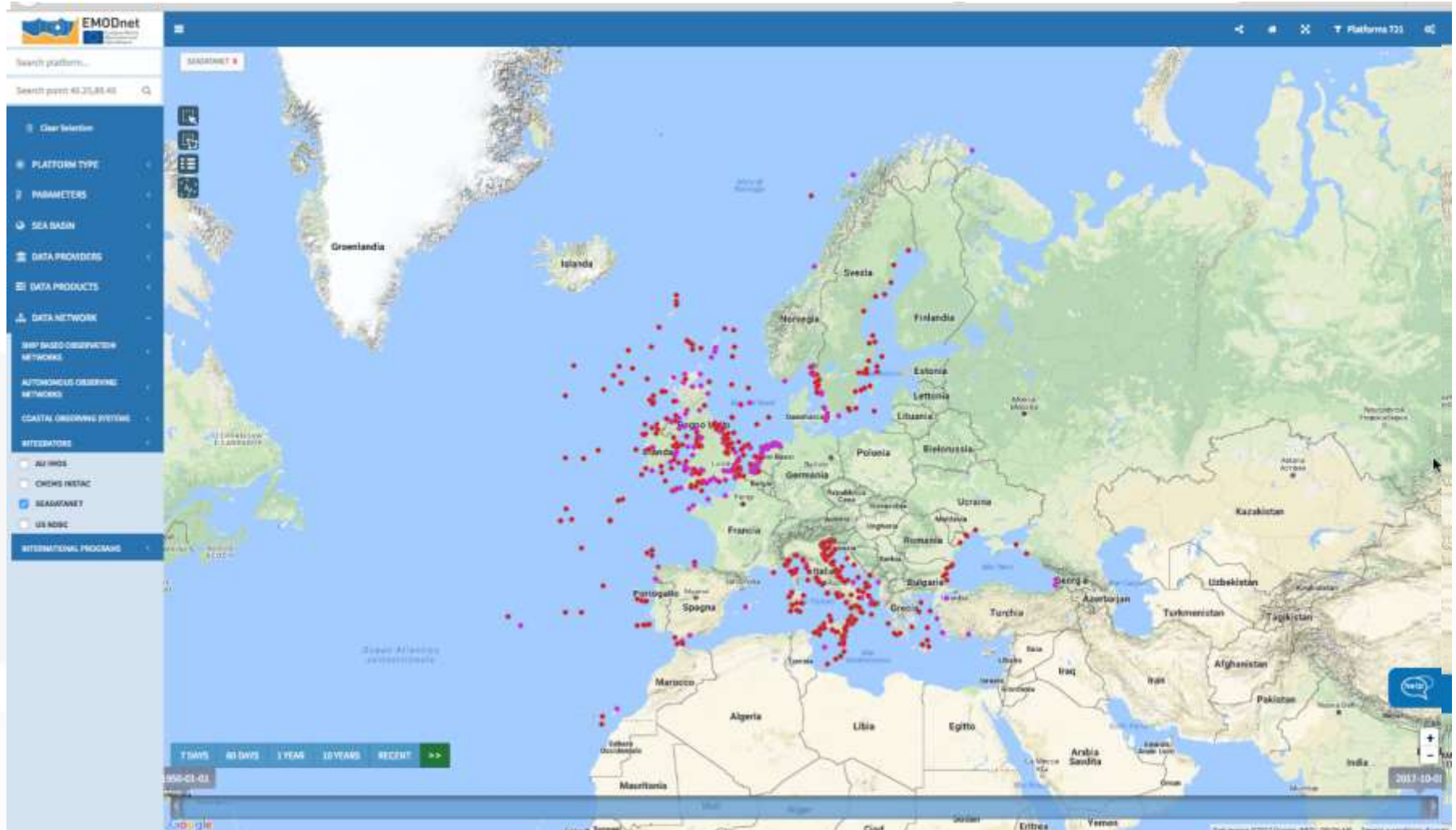
Quick links

Provider of the month  
(weighted sum)

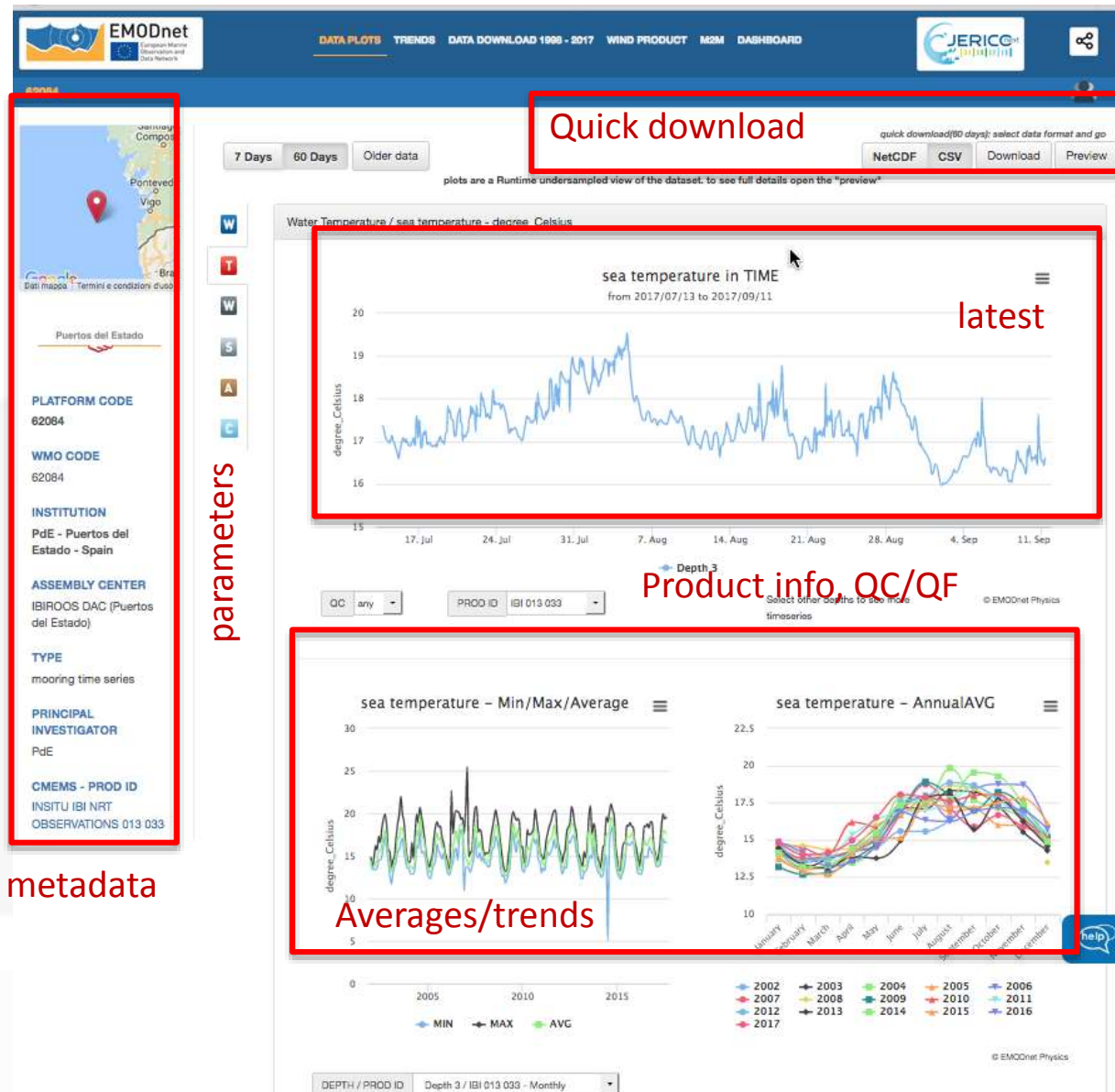
Contributors



# How do I access it?



# What can I find?



The screenshot displays the EMODnet website interface, which is organized into several key sections:

- Navigation Bar:** Includes links for DATA PLOTS, TRENDS, DATA DOWNLOAD 1998 - 2017, WIND PRODUCT, M2M, and DASHBOARD. It also features the EMODnet logo and a user profile icon.
- Left Sidebar (Metadata):** Contains a map of the study area (Puertos del Estado) and a list of metadata fields: PLATFORM CODE (62084), WMO CODE (62084), INSTITUTION (PdE - Puertos del Estado - Spain), ASSEMBLY CENTER (IBIROOS DAC (Puertos del Estado)), TYPE (mooring time series), PRINCIPAL INVESTIGATOR (PdE), CMEMS - PROD ID (INSITU IBI NRT), and OBSERVATIONS 013 033.
- Main Content Area:**
  - Quick download:** A section with buttons for 7 Days, 60 Days, and Older data, and a "Quick download (60 days): select data format and go" link with options for NetCDF, CSV, Download, and Preview.
  - Water Temperature / sea temperature - degree Celsius:** A line plot titled "sea temperature in TIME" showing data from 2017/07/13 to 2017/09/11. The plot is labeled "latest" and shows a fluctuating temperature trend.
  - Product info, QC/QF:** A section with a dropdown menu for QC (any) and a dropdown for PROD ID (IBI 013 033).
  - Averages/trends:** Two line plots showing "sea temperature - Min/Max/Average" and "sea temperature - AnnualAVG" over time. The plots show multiple years of data (2002-2017) with MIN, MAX, and AVG lines.

# What's about the CDI request?

Provider :  
IFREMER - Institut Français de Recherche pour l'Exploitation de la Mer - France

Report Period : 01/08/2017 - 31/08/2017

Total views 224

Total download long term rep. file 2

Total download NRT latest file 0

Total download CDI file 0

Total download NRT monthly file 4

Total request web service 46

## Top 5 most viewed/downloaded platform

Platform	Viewed	Download	Web service	Total
61284	123	4	26	153
6900642	19	1	0	20
6200310	17	1	0	18
6101650	10	0	0	10
6101654	9	0	0	9

## Views per Country

Country	Tot
Germany	49
China	38
Belgium	37
United Kingdom	36
Italy	29
France	11
United States	9
N.D.	5
Slovak Republic	4
Canada	2
Netherlands	2
Portugal	2

## Downloads per Country (data usage)

Country	NRT Latest	NRT Monthly	Long term rep.	CDI	Web service	Tot
	0	0	0	0	46	
United Kingdom	0	1	1	0	0	
United States	0	1	1	0	0	
Belgium	0	2	0	0	0	

## Analytics



Request your request list and having it processed. You will then be notified by e-mail when and registration details.

Parameters

1943/12/31 23:00

2010/12/31 23:00

Upon request:  
ask for it!

Link to platform dashboard page (detailed statistics for the platform)

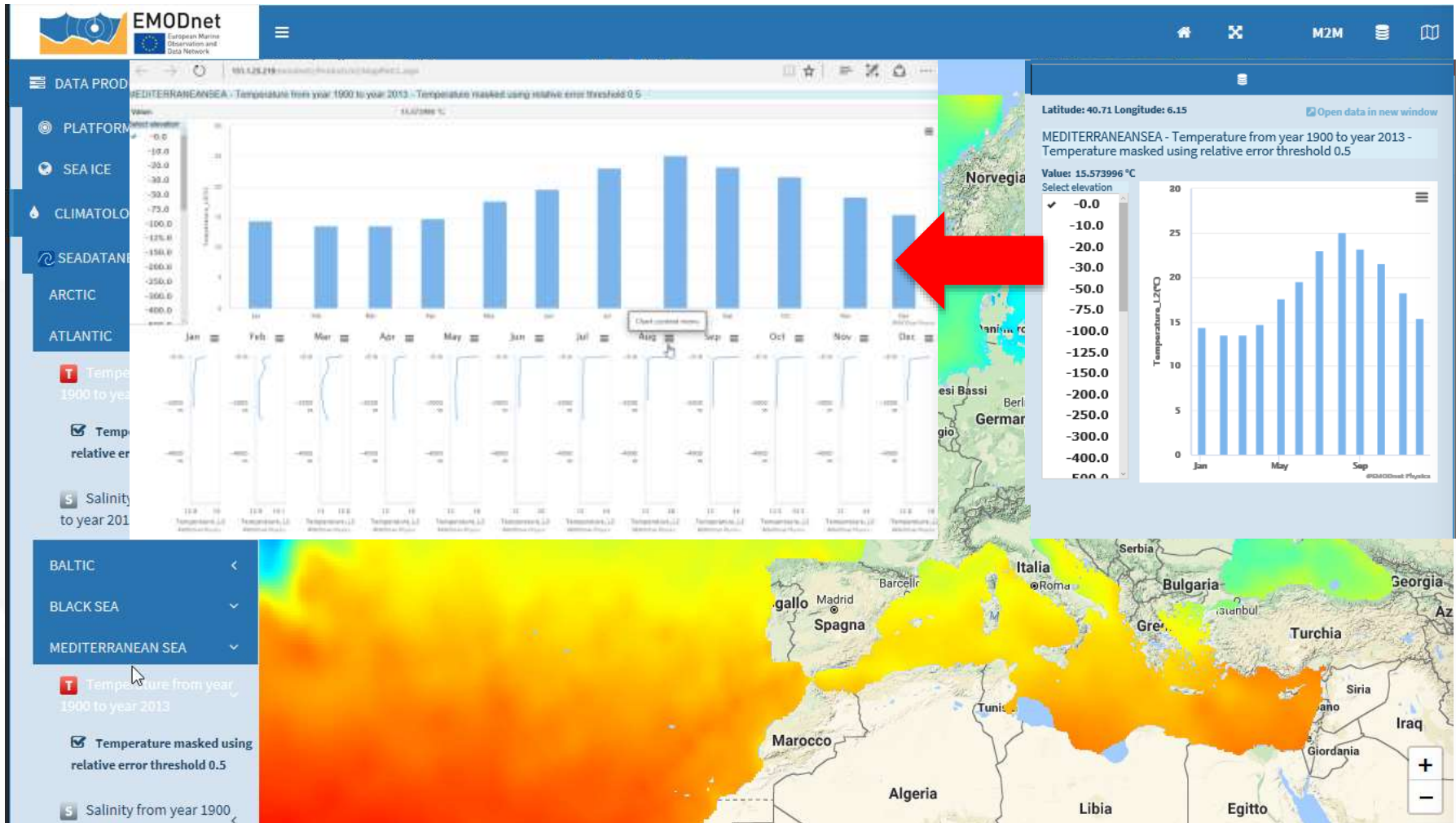
Platform [Link](#)



	ROOS	CMEMS	IOOS	SDN	IMOS	NDBC	IAPB	GOSUD	GLOSS	PSMSL	GRDC	MEOP	VOS	OS . FIX03	Redun dancy
Mooring											CDI dataset ID - validated historical data From - To	CDI dataset ID #files		72	X
Tide Gauge	Platform						Type	NODC	Recent data From - To						X
FB/Shi															X
Glider	AberdeenTG						TG	43	2014 - 2016		1930 - 2005	52			
	AlgecirasTG						TG	53	2009 - 2017		1943 - 2015	64			
ARGO	AndenesTG						TG	43	2013 - 2017		1991 - 2003	13			
	AranmoreTG						TG	96	2014 - 2016		2008 - 2012	1			
Sea Mamm	ArrecifeTG						TG	53	2009 - 2017		1949 - 2015	58			
	ATHOS						MO	69	2000 - 2017		2004 - 2011	139			
River Station	AvonmouthPortburyTG						TG	43	2014 - 2016		1973 - 2005	28			
	BallycottonTG						TG	96	2014 - 2016		2010 - 2012	1			X
	BallyglassTG						TG	96	2014 - 2016		2008 - 2012	1			
HF Rac	BangorTG						TG	43	2014 - 2016		1995 - 2005	10			
	BarmouthTG						TG	43	2014 - 2016		1991 - 2005	14			
CTD	BarsebackTG						TG	45	2014 - 2015		1982 - 2013	23	1330		X
	Bath						MO	1526	2014 - 2017		1971 - 2008	39			
Driftin Buoy	BournemouthTG						TG	43	2014 - 2016		1996 - 2005	10			X
	Burgas						MO	61	2013 - 2017		1996 - 2009	2			
	CadzandTG						TG	1526	2014 - 2017		1971 - 2008	38			



*In progress: Climatologies*



## Next actions:

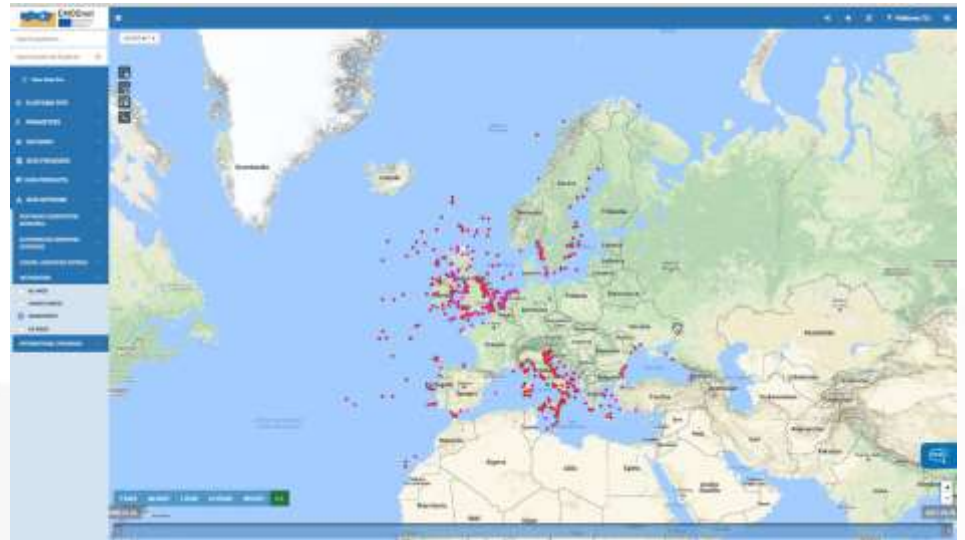
### ***From EMODnet Physics to SDC***

- Delivery of NRT data packages to let the NODC to validate and create CDIs: volunteers?

### ***From SDC to EMODnet Physics***

- Extend the CDI catalogue in Physics
- Access to buffer to create long term plots

(data request and data download will be managed by RSM)





# Help yourself to be more visible and accessible



**EMODnet Data Ingestion**

**WAKE UP YOUR DATA**

Set them free for Blue Society

The **Data Ingestion Portal** facilitates submitting marine datasets for further processing, Open Data publishing and contributing to applications for society.

[emodnet-ingestion.eu](http://emodnet-ingestion.eu)

The poster features a large, high-quality image of a dolphin's head emerging from the water, set against a blue background. The text is arranged in a clean, modern layout with a mix of blue and orange colors.







## European Geosciences Union General Assembly 2018

Vienna | Austria | 8–13 April 2018

[EGU.eu](http://EGU.eu)



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### ESSI1.1 Informatics in Oceanography and Ocean Science

Convener: A. Novellino 

Co-Conveners: Stefania Sparnocchia , Simona Simoncelli 

» [Abstract submission](#)

The session presents the state of art information systems in oceanography (metadata, vocabularies, ISO and OGC applications, data models), interoperability (Interoperability forms, Web services, Quality of Services, Open standards), data circulation and services (quality assurance / quality control, preservation, network services) and Education in ocean science (Education and Research, Internet tools for education).

The 2017 session should provide new ideas on the interoperability issues deriving from different sources of data.

ISO standards introduce the necessary elements in the abstract process aiming to assess 'how' and 'how much' data meets applicable regulatory requirements and aims to enhance user needs. Data management infrastructures should include an evaluation of data by assuring relevance, reliability and fitness-for-purposes / fitness-for-use, adequacy, comparability and compatibility. Presenters are strongly encouraged to demonstrate how their efforts will benefit their user communities, facilitate collaborative knowledge building, decision making and knowledge management in general, intended as a range of strategies and practices to identify, create, represent and distribute data, products and information.



Deadline for abstract submission: 10 January 2018

**Ocean physics at you hand**

**contacts@emodnet-physics.eu**



[www.emodnet.eu](http://www.emodnet.eu)

*Your gateway to marine data in Europe*