

SeaDataNet Annual Meeting: Rhodes



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE
FOR OCEAN & MARINE DATA
MANAGEMENT

EMODnet Physics

Antonio Novellino, Giuseppe Manzella, Dick Schaap,
Patrick Gorringe, Silvy Pouliquen, Lesley Rickards

Setting *EMODnet*

Green Paper on a Future Maritime Policy for the Union:

- ...
- The EU could consider setting up a European Marine Observation and Data Network which would provide a sustainable focus for improving systematic observation
- ...

EMODnet Physics


Measurements from fixed stations that cover :

- wave height and period
- temperature of the water column
- wind speed and direction
- salinity of the water column
- horizontal velocity of the water column
- light attenuation
- sea level

Feedback

Measurements from ferryboxes that cover :

- temperature of the water column
- salinity of the water column



The screenshot shows the EMODnet Pilot Portal for Physical Parameters. The header includes the EMODnet logo and the text 'Pilot Portal For Physical Parameters'. Below the header is a navigation bar with links: Home, Access to Data, Objectives, Partners, Feedback, Documents, and social media icons. The main content area is titled 'Welcome to EMODnet - Physical Parameters' and contains a paragraph about the project's goals. Below the text is a map of Europe with numerous data points, and a link to 'Click here for fullscreen map'. The right sidebar contains sections for 'News from web', 'Newsletter', 'Meetings', and 'Tag Cloud'.

EMODnet
European Marine Observation and Data Network

Pilot Portal For Physical Parameters

Home Access to Data Objectives Partners Feedback Documents

Welcome to EMODnet - Physical Parameters

The European Commission, represented for the purposes of this project by the Directorate-General for Maritime Affairs and Fisheries (DG MARE), is conducting service contracts for creating pilot components of the **European Marine Observation and Data Network (EMODNET)**. The overall objective is to create pilots to migrate fragmented and inaccessible marine data into interoperable, continuous and publicly available data streams for complete maritime basins observation. The final objective is to provide layers of physical data and metadata available for use by public authorities, scientists and industry, and contribute towards the definition of an operational **European Marine Observation and Data Network (EMODNET)** and contribute to developing of the definition of the Global Monitoring for Environment and Security (GMES) marine core service.

[Click here for fullscreen map](#)

[Click here for fullscreen map](#)

This EMODNET-Physical Parameters Portal is one of the EMODNET portals and it is aimed at

News from web

Capture the invisible for the EEA photo story competition
European Mobility Week 2012: Moving in the right direction
[More](#)

Newsletter

EMODnet Physical Parameters
[More](#)

Meetings

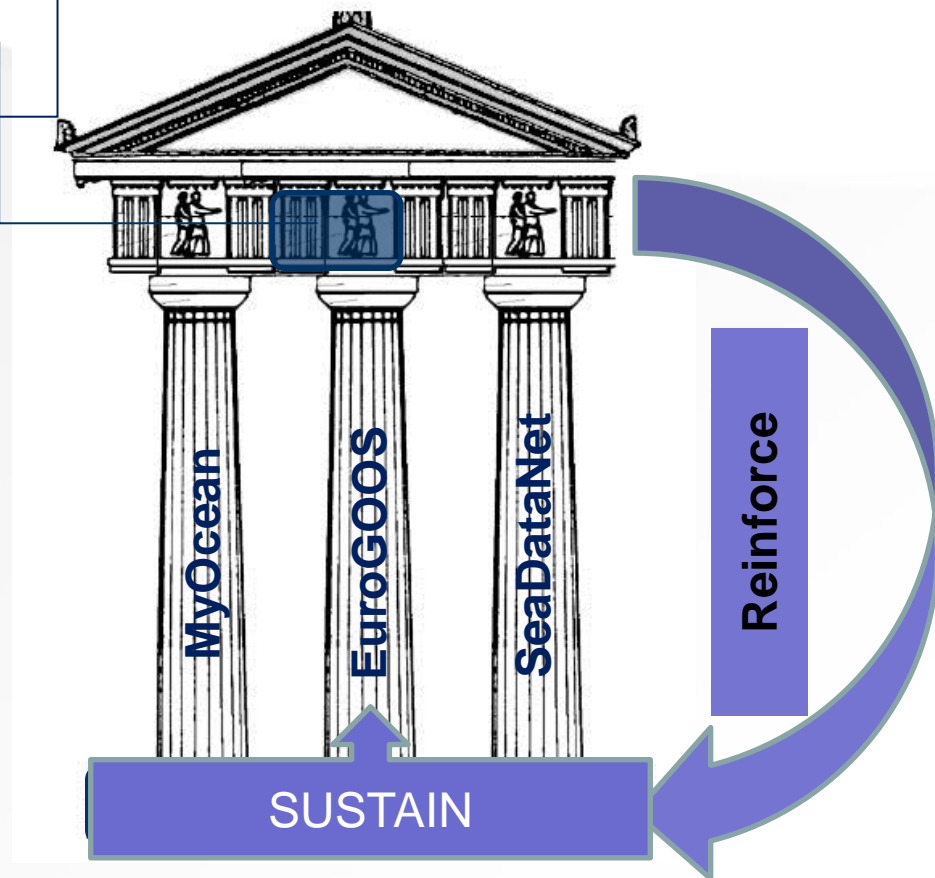
EMODnet Physical Parameter Workshop in the Black Sea
EMODnet Physical Parameter Workshop in the Mediterranean - Rome 9th - 10th February 2012
[More](#)

Tag Cloud

bodc bsh cnr emodnet enea
eurogoos hcmr myocean
seadatanet

The EMODnet PP pillars

EMODnet
Physics



SeaDataNet partnership
EuroGOOS ROOSs
MyOcean/GMES partnership

Single point of access to Near Real time and Archived data

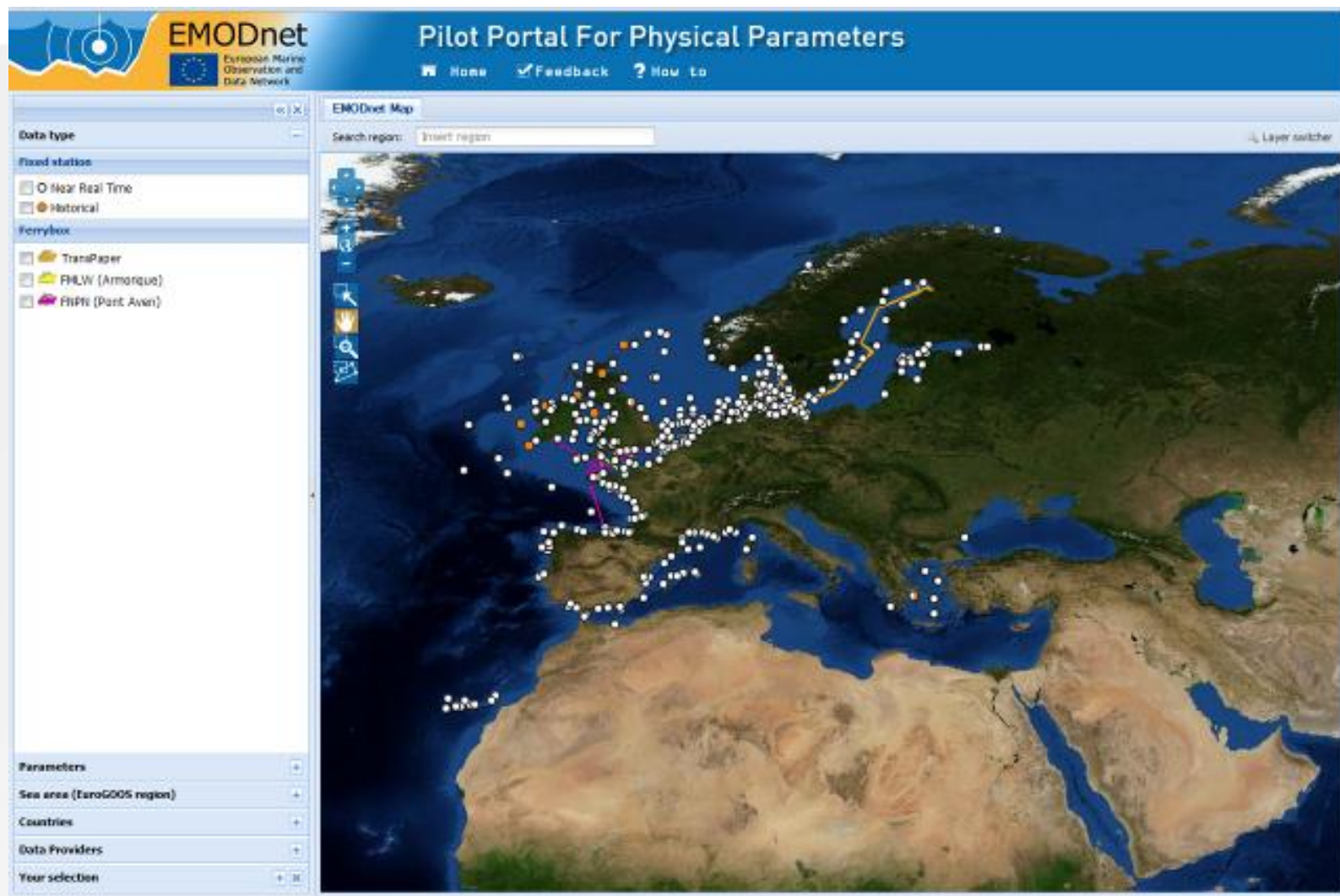


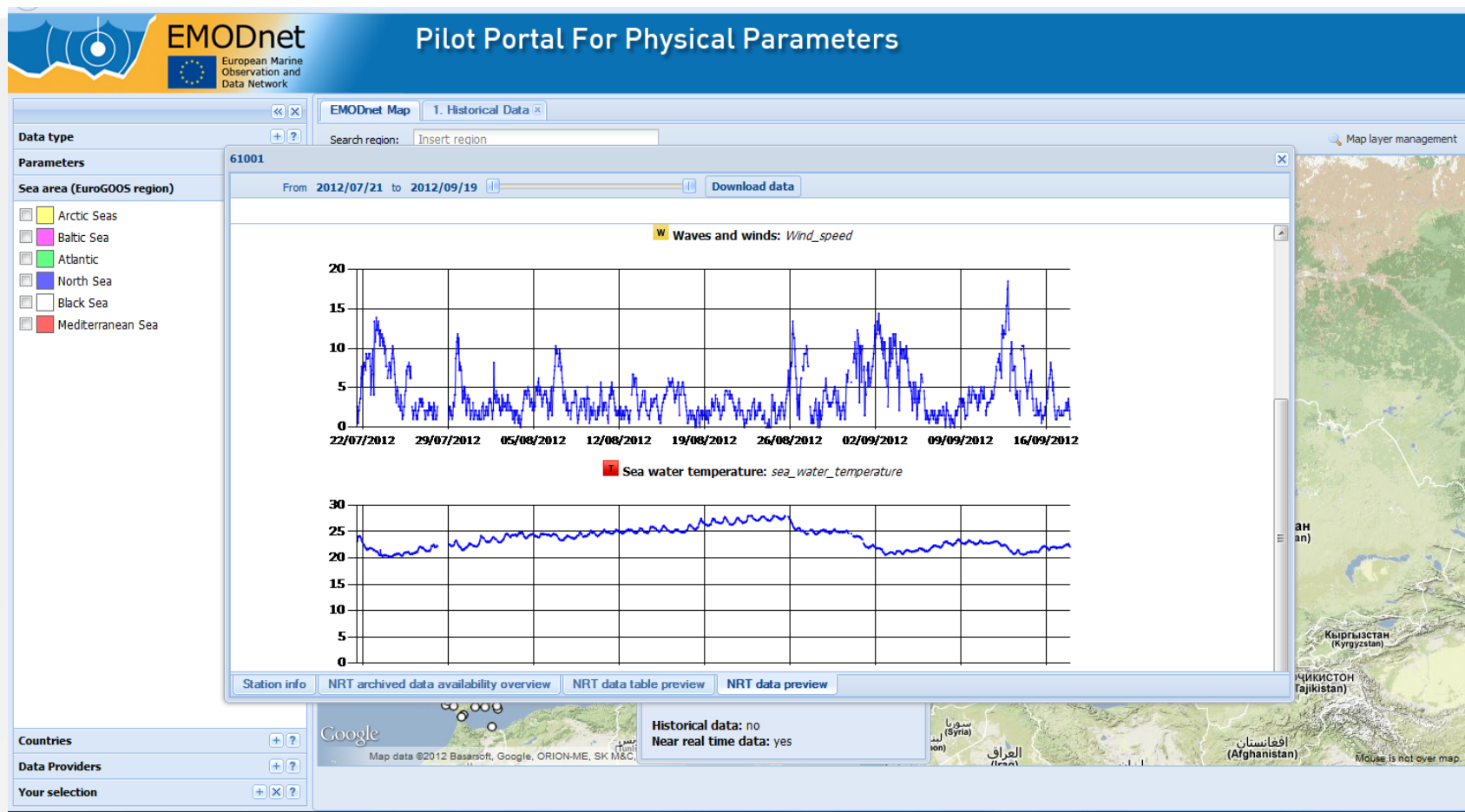


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sdn-userdesk@seadatanet.org – www.seadatanet.org


EMODnet
 European Marine
 Observation and
 Data Network

Pilot Portal For Physical Parameters

Data type
 Parameters
 Sea area (EuroGOOS region)

- ☐ Arctic Seas
- ☐ Baltic Sea
- ☐ Atlantic
- ☐ North Sea
- ☐ Black Sea
- ☐ Mediterranean Sea

EMODnet Map 1. Historical Data


61001
 NRT archived data availability overview

Year	January	February	March	April	May	June	July	August	September	October	November	December
2000												
2001												
2002												
2003												
2004												
2005												
2006												
2007												
2008												
2009												
2010												
2011												
2012												

Download data

Station info NRT archived data availability overview NRT data table preview NRT data preview

Countries
 Data Providers
 Your selection

Map layer management

 Google
 Map data ©2012 AutoNavi, Basarsoft, GIS Innovatsia, Google, Tele Atlas - Termini e condizioni d'uso
 Mouse is not over map.

EMODnet Pilot Portal For Physical Parameters

EMODnet Map 1. Historical Data

Pilot portal for Physics Common Data Index (CDI) V2

Export Store query Summary Show on map ?

Cart: 0 Dataset(s) Proceed to check out Reset basket

Reset all steps > EDIOS-stations: multiple

Search by:
Geographical Box

Time period

Edios

M3 (6)

Measuring area type

point (6)

Parameter categories

Administration and dimensions (6)

Meteorology (4)

Water column temperature and salinity (1)

Waves (1)

Disciplines

Administration and dimensions (6)

Atmosphere (4)

Physical oceanography (2)

Instrument / gear type

atmospheric radiometers (2)

wave recorders (1)

water body temperature sensor (1)

anemometers (1)

continuous air samplers (1)

CDI-partner

Marine Institute (6)

Country

Ireland (6)

Data Holding centre

Add to basket 20 50 100 Records Go

Data set name	Variables measured	Instrument / gear type	Show
<input type="checkbox"/> M3 Weather Buoy Wind Speed and Direction	Administration and dimensions > Administration and dimensions Atmosphere > Meteorology	anemometers	
<input type="checkbox"/> M3 Weather Buoy Wave Height and Period Statistics	Administration and dimensions > Administration and dimensions Physical oceanography > Waves	wave recorders	
<input type="checkbox"/> M3 Weather Buoy Sea Temperature	Administration and dimensions > Administration and dimensions Physical oceanography > Water column temperature and salinity	water body temperature sensor	
<input type="checkbox"/> M3 Weather Buoy Atmospheric Pressure	Administration and dimensions > Administration and dimensions Atmosphere > Meteorology	atmospheric radiometers	

| Found 6 | Current | Previous | Next

archived data discovery page: CDI list


Data Discovery and Access Service


Cart: 0 Dataset(s) [Proceed to check out](#) [Reset basket](#) [Export](#) ?

How does it work?





- ▶ User registration
- ▶ Check your account

Powered by



Add to basket  20 50 100 Records [Go](#)

| Found 24 | [Show \(1-20\)](#) | [Previous](#) | [Next 4](#)

#	Data set name	Variables measured	Instrument / gear type	Show
<input type="checkbox"/>	035/2005/001	Physical oceanography> Sea level		
	YEAR	J F M A M J J A S O N D		
	2011	████████████████████		
	2010	████████████████████		
	2009	████████████████████		
	2008	████████████████████		
	2007	████████████████████		
	2006	████████████████████		
	2005	████████████████████		
	2004	████████████████████		
<input type="checkbox"/>	035/2005/001	Physical oceanography> Sea level		
	YEAR	J F M A M J J A S O N D		
	2003	████████████████████		
<input type="checkbox"/>	035/2005/001	Physical oceanography> Sea level		
	YEAR	J F M A M J J A S O N D		
	2002	████████████████████		
<input type="checkbox"/>	035/2005/001	Physical oceanography> Sea level		
	YEAR	J F M A M J J A S O N D		

**Coming soon – archived data discovery page:
Draft of the CDI temporal overview**

sdn-userdesk@seadatanet.org – www.seadatanet.org

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SeaDataNet

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EMODnet Physics new proposal

SeaDataNet & MyOcean & EuroGOOS ROOSs

- The EuroGOOS Regional Ocean Observing Systems (ROOSs) are the core of the EuroGOOS association and acts as the operational arm of EuroGOOS and of projects such as MyOcean. The ROOSs are responsible for the collection of data to fulfil the aims of the regional service needs. Each regional component (Baltic, Arctic, North Sea, Iberian-Biscay, Mediterranean (MONGOOS), Black Sea (BS GOOS)) will be involved in EMODnet Physics, through the ROOS chairs

Implementations

- Better access to additional data not yet in the current system
- Access to additional Ferrybox data
- Better streamlining and an optimisation of the data flow
- Opportunities to obtain additional parameters from existing data sites
- Filling in gaps in time series
- Assisting the work on the completeness of stations – leading to a list of uniform station names that reduces duplication between ROOSs.
- Greater uptime of services and synchronisation of data sources between ROOSs and data centres.

Parameters

- (1) wave height and period
- (2) temperature of the water column
- (3) wind speed and direction
- (4) salinity of the water column
- (5) horizontal velocity of water column
- (6) water clarity (light attenuation)
- (7) changes in sea-level
- (8) ice cover

Data layers

Each of the above should be presented as

- (1) set of measurements (time series)
- (2) continuous data layers in monthly or seasonal averages, differentiating where appropriate values at the sea surface from the (near) sea-bed
 - (a) along the coastline. (major focus on coast)
 - (b) In the sea-basin (for those parameters that are not covered by GMES)

Geographical coverage

- (1) complete coverage of the Baltic, Black, Mediterranean and North Seas,
- (2) coverage of jurisdictional waters, including continental shelf) of Member States and Norway for the North East Atlantic (Celtic Seas, Iberian Coast and Bay of Biscay, Macaronesia, Norwegian Sea).
- (3) coverage of Icelandic Sea and Barents Sea, if possible.

New specific actions

- Incorporate data from supplementary physical monitoring systems such as EuroArgo (Argo floats) and gliders (the latter through links with the Gliders for Research Ocean Observation and Management (GROOM) project), and possibly other emerging measurement systems (e.g. HF radar)
- Upgrade the portal, further developing the existing user interfaces and adding machine-to-machine interfacing functionality

Collaboration within EMODnet lots

- Lot 3 Physical Habitats
- Lot 4 Chemistry
- Lot 7 Human Activities
- Lot 1 (Bathymetry), 2 (Geology), 5 (Biology) could collaborate with Lot 6 in order to
- Call for Tenders No MARE/2012/11 **Growth and innovation in ocean economy- Gaps and priorities in sea basin observation and data**

EMODnet WPs

- **WP 1 Project management**
- **WP 2 Data Collection, Metadata Compilation and QA/QC**
- **WP 3 Metadata aggregation, Data access and Data products**
- **WP 4 Portal technical development and operation**
- **WP 5 Analysis, evaluation and feedback**

EMODnet Phases

- Phase 1 Construction Months 0-12 Complete set of data products for at least three sea-basins First interim report
- Phase 2 Consolidation Months 13-24 All data products completed and available Second interim report
- Phase 3 Convergence Months 25-36 Fine-tuning to ensure convergence with other EMODnet portals Analysis of user feedback Final report

EMODnet Physics:

www.emodnet-physics.eu