EMODnet Thematic Lot n° 03- Physics

EMODnet Phase III - Trimonthly Report

Reporting Period: 29/03/2017 – 30/06/2017

Date: 15/07/2017

Contents

1. Highlights in this reporting period

Provide a short summary of the key achievements and/or events of interest to a wider audience within this reporting period you wish to highlight – this can be based on the indicators or any other of the reporting sections. [Provide a bullet list - maximum 5 bullets]

1. KO meeting
2. Update of the landing portal and release of the new map viewer
3. Release of the operational (platform) products
4. Release of the help desk service
5. Release of the first package of new M2M services (widget, geoserver layers etc)

2. Meetings held since last report

List here the meetings held/participated since the last trimonthly report, if relevant add short description.

Date	Location	Topic	Short Description
27-31/03/2017	Kuala Lumpur (Malaysia)	IODE – XXIV	The 24th Session of the IOC Committee on International Oceanographic Data and Information Exchange was held between 28-31 March 2017, preceded by a one-day scientific workshop on 27 March 2017 (1)
10-13/04/2017	Limassol (Cyprus)	EMODnet Ingestion	EMODnet Ingestion project progress meeting
19-20/04/2017	Milan (Italy)	EMODnet Physics KO	KO meeting with the core group (ETT, EuroGOOS, MARIS, IFREMER, BODC)
24/04/2017	Vienna (Austria)	Oral presentation of EMODnet Physics @ EGU 2017	European Geosciences Union - ESSI1.1 - Informatics in Oceanography and Ocean Science (2)
3-4/5/2017	Bologna (Italy)	SeaDataCloud TTG	SeaDataCloud Technical Task Group.
9/5/2017	Milan (Italy)	EMODnet Physics – River TWG	River Technical working group
17/05/2017	Milan (Italy)	Oral presentation of the EMODnet Physics @ Microsoft Italian IoT Summit	Italian Microsoft partners' meeting to show best available IoT applications and services.
22/5/2017	Madrid (Spain)	EMODnet Physics – Tide Gauge TWG	TG Technical working group
23/5/2017	Barcelona (Spain)	EMODnet Physics – Water noise TWG	UWN Technical working group
23/5/2017	Brussels (Belgium)	EMODnet lots – EASME – KO meeting	
24/5/2017	Palma de Mallorca (Spain)	EMODnet Physics @ SOCIB	
13-15/6/2017	Bremerhaven (Germany)	SOOS DMSC	South Ocean Observing system – Data Management Steering Committee annual meeting
21-29/6/2017	Paris (France)	29th Session of the IOC Assembly	EMODnet Physics was presented to a number of delegates, among them GOOS Africa, Morocco, Canada, US, India
21-22/6/2017	Aberdeen (UK)	MTS IEEE	Interoperability SOS - SWE
5-6/7/2017	Genova (Italy)	EMODnet Technical Working Group	

1) http://www.iode.org/index.php?option=com_oe&task=viewEventAgenda&eventID=1879
2) http://meetingorganizer.copernicus.org/EGU2017/orals/22856

3. Work package updates

The project officially started 29thMarch 2017.

WP1 – Project Management

The general objectives of WP1 are the project management and the coordination of all project activities ensuring timely delivery and high quality of documentation, tools, results and products. Project management includes the collaboration with the other EMODnet activities and involvement of regional sea conventions.

Activities:

During the period, the contract was finalized and signed. The core team organized the kick off meeting in Milan (ETT office), Italy, 19-20 May (minute is provided as attachment). ETT started the process to activate subcontractors. Representatives of EMODnet Physics participated to the EMODnet Data Ingestion assembly in Limassol to follow up and keep coordinated. The team provided EMODnet DI with a list of identified data sets/platforms to work on.

In order to deal with the new required parameters (river data and underwater noise) ad hoc technical meetings were held with experts:

- 9 May 2017 – Milan, Italy – tech meeting to discuss river data management approaches
  Key outcomes:
  Inclusion criterion: river with 10m^3/s flow discharge as annual mean (the same as the MSCP)

R.A.1	List of the rivers to be included
R.A.2	Inventory of the (operational) fixed platforms on those rivers
R.A.3	Definition of the data structure, file transport format, naming convention, data flow (as close as possible to CMEMS INSTAC for easy future uptake), conventions
R.A.4	Mapping of the available parameters for those rivers with a focus on: Level of water, river flow (also as computed by the level), water temperature, nutrients (O2, Nix ...)
R.A.5	Design of a "river" platform page for the portal (WP3)
R.A.6	Development of a model to compute the outflow of the river on the subsea basin (Hype like) at European level
R.A.7	Development of river climatology products (with trends)
R.A.8	Development of Total Suspended Matter (gridded) products (with trends)

Table 1

- 22 May 2017 – Madrid, Spain - tech meeting to discuss sea level data and products
  Key outcomes:

SL.A.1	Inventory of the TG (identification of gaps in time and space) The inventory will be shared with EMODnet DI to closely and proactively work on it and include/make available missing stations

SL.A.2	Compile an inventory of the TG providing ground movement (GNSS) (this is fundamental for having the absolute SL trends)
SL.A.3	Make map product to show both relative and absolute sea level trends (PSMSL + SONEL)
SL.A.4	Develop the NRT extreme event identification and visualization tools It will be based on the percentile to NRT plot (p99 and p1) and display the SL
SL.A.5	Develop the anomalies plot for historical data (year/period)

Table 2

- 23 May 2017 – Barcelona, Spain - tech meeting to discuss underwater noise
  Key Outcomes:
  General criterion: Work on data useful for the MSDF I.11, in particular "good environmental status for Descriptor 11 will be where 'Introduction of energy, including underwater noise, is at levels that do not adversely affect the marine environment". Sound signature (i.e. object detection) is out of the scope of the activity.

UWN.A.1	Inventory of existing UWN stations
UWN.A.2	Inventory of available UWN datasets
UWN.A.3	Definition of the data structure, file transport format, naming convention, data flow, conventions for both UWN NRT and historical data flow
UWN.A.4	Design of a "under water noise" platform page for the portal (WP3)
UWN.A.5	Design and development of the methods and tools for the evaluation of: -Impulsive sounds indicator in 10Hz-10kHz band (11.1.1) -Trends in third octave bands (11.2.1) -Noise Band Monitoring: (63 and 125 Hz) (11.2.1)

Table 3

EMODnet Physics team was invited to participate to the Southern Ocean Observing System, SOOS, DMSC meeting in June (http://www.soos.aq/calendar?view=event&cid=93). One main outcome is that EMODnet Physics will be the core engine for delivering a SOOS portal.

In February, EMODnet Physics had a coordination meeting with Mercator in order to review the status of the cooperation and plan actions in relation to both CMEMS updates and EMODnet Physics designed developments. More specifically it was discussed how to reorganize the metadata presentation for the datasets that are validated according the CMEMS QC/QF and how to link to the technical-methodological documentation.

WP2 – Data Collection, Metadata Compilation, Data Access and Products

The objectives of WP2 are to identify specific additional data sources that contribute to the EMODnet physical parameters portfolio (Argo, profiling floats, gliders, radar, CTD from ships, river outflow, water noise, etc.), and reduce spatial and temporal gaps in cooperation and collaboration with the underlying EuroGOOS ROOSs, CMEMS INS TAC, and SeaDataNet NODCs infrastructures, as well as EMODnet Data Ingestion. Part of this activity is to develop EMODnet Physics services with user friendly interfaces for data and metadata uploading, data tracking and provide guidance and documents on preferred data, common data and metadata models.

Description:

EMODnet Physics is developing an **operational service where near real time and historical validated marine data are made interoperable and freely available.**

Operational Near Real Time data is flowing from the provider Institute – platform. Transport format is NetCDF (CF Convention), as defined by the EuroGOOS DATAMEQ working group, and includes metadata and data quality flag. Data quality is flagged according an automatic – unsupervised procedure. Data is aggregated into a daily files for the current month, monthly files for the past 5 years, and reprocessed long-term time series files (from day 0 to last 31/12).

Fixed moorings, ferrybox and tide gauges within the European area are collected in a federated infrastructure: EuroGOOS ROOSs - CMEMS INSTAC Data Assembly centres (6 centres). The Global Data Assembly Centres (GDAC) hosts data as recorded by platforms participating to international programs (e.g. ARGO, DBCP, …). HF radar data are hosted at the provider infrastructure (EMODnet Physics developed and is hosting the European Assembly Centre). Costal data for non-European Countries are hosted at the provider infrastructure (e.g. IOOS, IMOS) according their standards, naming conventions, transport files, etc.

For the historical validated datasets (fixed stations – mooring, tide gauge) the metadata format is the CDIs (common data index) and the transport formats are ODV4 and NetCDF (CF convention). EMODnet Physics is connected with the centralized repository for the CDIs, while datasets are hosted at National Oceanographic Data Centres (NODCs) and SeaDataNet nodes (according the geo-responsibility).

EMODnet Physics is applying the following Data policy:

Download without authentication:

- Latest 60 days of operational data
- Operational data from platforms contributing to international programs (e.g. ARGO)
- Data already available free and open/explicit request form the provider (e.g. SOCIB)

Download with authentication (CMEMS Service Level Agreement):

- Data older than 60 days (European Coastal platforms)
- Reprocessed/delay mode data

Download with authentication (SDN Service Level Agreement)[1]:

- CDI - historical data hosted by NODCs

During the meeting at Mercator, it was agreed that EMODnet Physics will make available the in situ reprocessed datasets (see table 1). The products are designed for reanalysis purposes and integrate the best available version of in situ data for temperature and salinity measurements. The EuroGOOS ROOSs, CMEMS INSTAC and SeaDataNet jointly elaborated the products.

Product name	Status of integration
Arctic- In-situ Observations Yearly Delivery in Delayed Mode (1990-2014) - (CMEMS INSITU_ARC_TS_REP_OBSERVATIONS_013_037)	
Atlantic Iberian Biscay- In-situ Observations Yearly Delivery in Delayed Mode (1990-2014) - (CMEMS INSITU_IBI_TS_REP_OBSERVATIONS_013_040)	
Atlantic-European North West Shelf- In-situ Observations Yearly Delivery in Delayed Mode (1990-2014), - (CMEMS INSITU_NWS_TS_REP_OBSERVATIONS_013_043)	
Baltic- In-situ Observations Yearly Delivery in Delayed Mode (1990-2014) - (CMEMS INSITU_BAL_TS_REP_OBSERVATIONS_013_038)	
Mediterranean- In-situ Observations Yearly Delivery in Delayed Mode (1990-2014) - (CMEMS INSITU_MED_TS_REP_OBSERVATIONS_013_041)	
Black Sea- In-situ Observations Yearly Delivery in Delayed Mode (1990-2014) – (CMEMS INSITU_BS_TS_REP_OBSERVATIONS_013_042)	
Global Ocean- Delayed Mode in-situ observations of ocean surface currents – (CMEMS INSITU_GLO_UV_L2_REP_OBSERVATIONS_013_044)	
Global Ocean- CORA- In-situ Observations Yearly Delivery in Delayed Mode (1950-2014) – (CMEMS INSITU_GLO_TS_REP_OBSERVATIONS_013_001_b). These data are collected from main global networks (Argo, GOSUD, OceanSITES, World Ocean Database) completed by European data provided by EUROGOOS regional systems and national system by the regional INS TAC components. It is updated on a yearly basis. The time coverage has been extended in the past by integration of EN4 data for the period 1950-1990.	Under test system – almost ready to be published

Table 4

EMODnet Physics continued to work on data access to data products. For each of the platform type/network it is possible to load one of the recorded parameters. These products are based on operational data and are managed by a sliding window of 60 days. In general, the user can select two time windows: 7 days and 60 days.

Operational products:

ARGO	
Water column Temperature	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=AR&param=TEMP
Water column salinity	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=AR&param=PSAL

[1] some data may require negotiation/specific agreements

Drifting Buoys	
Sea Surface Temperature	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=DB&param=TEMP
Sea Surface Salinity	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=DB&param=PSAL
Pressure at Sea Surface	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=DB&param=ATMS
Temperature in the bulb	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=DB&param=DRYT
Ferrybox and Ships	
Sea Surface Temperature	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=FB&param=TEMP
Sea Surface Salinity	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=FB&param=PSAL
Sea Surface Chlorophylls	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=FB&param=CHLT
HF Radar[2]	
Sea Surface Currents (direction and intensity)	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RD

Table 5

Sea Ice products: Sea Ice products are both for operational (daily information on the ice is also made available on the WMS/WFS service) and (re)analysis use (e.g. long term time-series and trends).

Arctic Sea Ice	
Ice concentration	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=ICE&Antarctic=0&param=Concentration
Ice edge	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=ICE&Antarctic=0&param=Edge
Ice type	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=ICE&Antarctic=0&param=Type
Antarctic Sea Ice	
Ice concentration	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=ICE&Antarctic=1&param=Concentration
Ice edge	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=ICE&Antarctic=1&param=Edge
Ice type	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=ICE&Antarctic=1&param=Type

Table 6

[2] EMODnet Physics recently ingested and integrated HFRadar data as published by IOOS and AIMOS. At the moment more than 130 HFR antennas are connected and available into the portal

Note: EMODnet Physics is using the CMEMS - SEAICE_GLO_SEAICE_L4_NRT_OBSERVATIONS_011_001 product to generate the dynamic maps and parameters time series.

Marine Mammals[3]	
Water column temperature	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=MM&param=TEMP
Water column salinity	http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=MM&param=PSAL

Table 7

[3] The MEOP product let the user to see animation of the parameter along the animal route for the past 10 years. This product was ingested in cooperation with EMODnet Data Ingestion

Processing levels

Oceanographic data and data product production workflow is composed of different processing steps that range from the acquisition of unprocessed data at full resolution from the platform payload up to integrated products as processed by models with qualified assimilated data.

The following table aims at representing generic processing levels applicable to most of the platforms and data sources. The table follows the same conceptual scheme as applied to remote sensing processing levels (see Wikipedia “Remote Sensing”).

Processing Level	Description	Processing sub-Level	Definition
Level 0	raw data: Unprocessed instrument/payload data at full resolution including synchronisation methods (e.g. elimination of CTD up-down duplicates) and excluding communication artifacts	LEVEL 0	Reconstructed, unprocessed instrument/payload data at full resolution; any and all communications artifacts, e.g. synchronization frames, communications headers, duplicate data removed.
Level 1	Full resolution data reconstructed with calibration coefficients, geo and time referenced	LEVEL 1A	Reconstructed, unprocessed instrument data at full resolution, time-referenced and annotated with ancillary information, including radiometric and geometric calibration coefficients and georeferencing.
		LEVEL 1B	Level 1A data that have been processed to sensor units for next processing steps. Not all instruments will have data equivalent to Level 1B.
Level 2	Derived geophysical data processed with a minimum QC (e.g. gross range test)	LEVEL 2A	Derived geophysical variables at the same resolution and locations as the Level 1 source data.
		LEVEL 2B	Level 2A data that have been processed with a minimum set of QC.
Level 3	Data resampled regularly and with delayed mode QC applied (including climatology comparison).	LEVEL 3A	Variables mapped on uniform space-time grid scales, usually with some completeness and consistency
		LEVEL 3B	Level 3A data that have been processed with a minimum set of QC.
Level 4	Data quality assured from multiple campaign, measurements or model outputs.	LEVEL 4	Model output or results from analyses of lower level data, e.g. variables derived from multiple measurements

Table 8

WP3 – Portal technical Development and operation

The objectives of WP3 are to implement and extend the www.emodnet-physics.eu portal allowing users to find, visualize and download data and data products and their metadata. This includes the development of procedures for machine-to-machine connections to metadata, data and data products and services compatible with INSPIRE, EMODnet and OGS standards and requirements. The portal has also to develop monitoring tools of the website performance and usage.

Activities:

Both the landing page and the map viewer have been be updated.

The landing page is now organized as follow:

- Home: landing page and brief introduction to EMODnet Physics
- Map viewer: link to the dynamic map with datasets (www.emodnet-physics.eu/map)
- Catalogue
    - Products: link to the dynamic map with (plot) products (http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx)
    - Catalogue: sextant catalogue for products released by the EMODnet Physics partners (CMEMS and SeaDataNet)
- Background
- Help
    - term of use
    - QC/QA protocols
    - User guide & legend
    - Documents and services
- Contribute
    - Associate partners (alphabet order of the data contributors)
    - How to contribute (introduction and links to EMODnet Data Ingestion)
    - Near Real Time data exchange

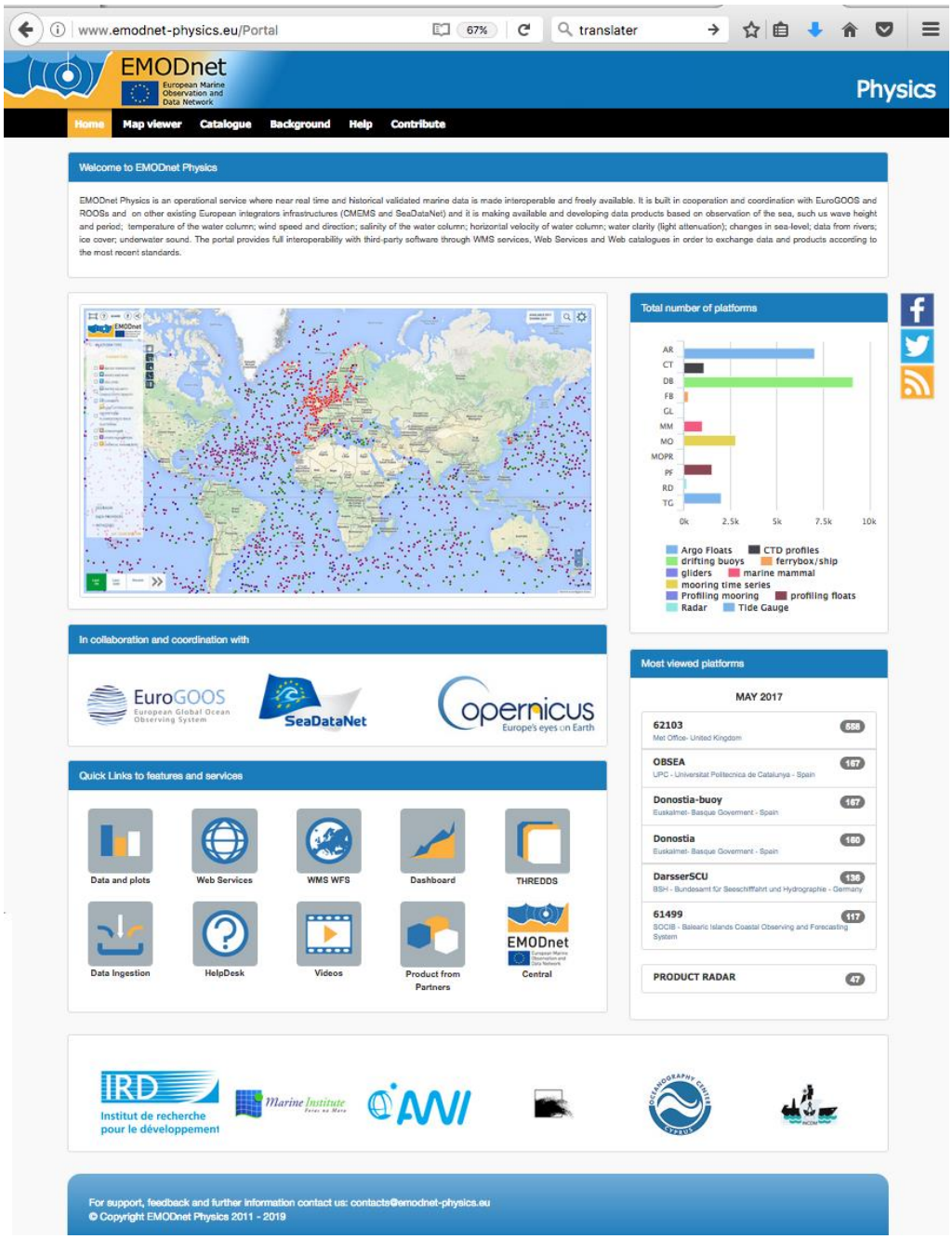


Figure 1

The landing page also provides quick links to providers, backbone infrastructures, services, and social media. Furthermore it makes a clear connection to Data Ingestion Project and presents the same information to support and guide potential new providers

The Map viewer filters have been reorganized, e.g. the Platform type was extended to be more exhaustive and easy to be used by communities.

- Platform type
    - ARGO/Profilers
    - CTD Profiles
    - Drifting buoys
    - Ferrybox/Ship
    - Gliders
    - Marine Mammals
    - Mooring Time Series
    - Profiling Mooring
    - Radar
    - Tide Gauge

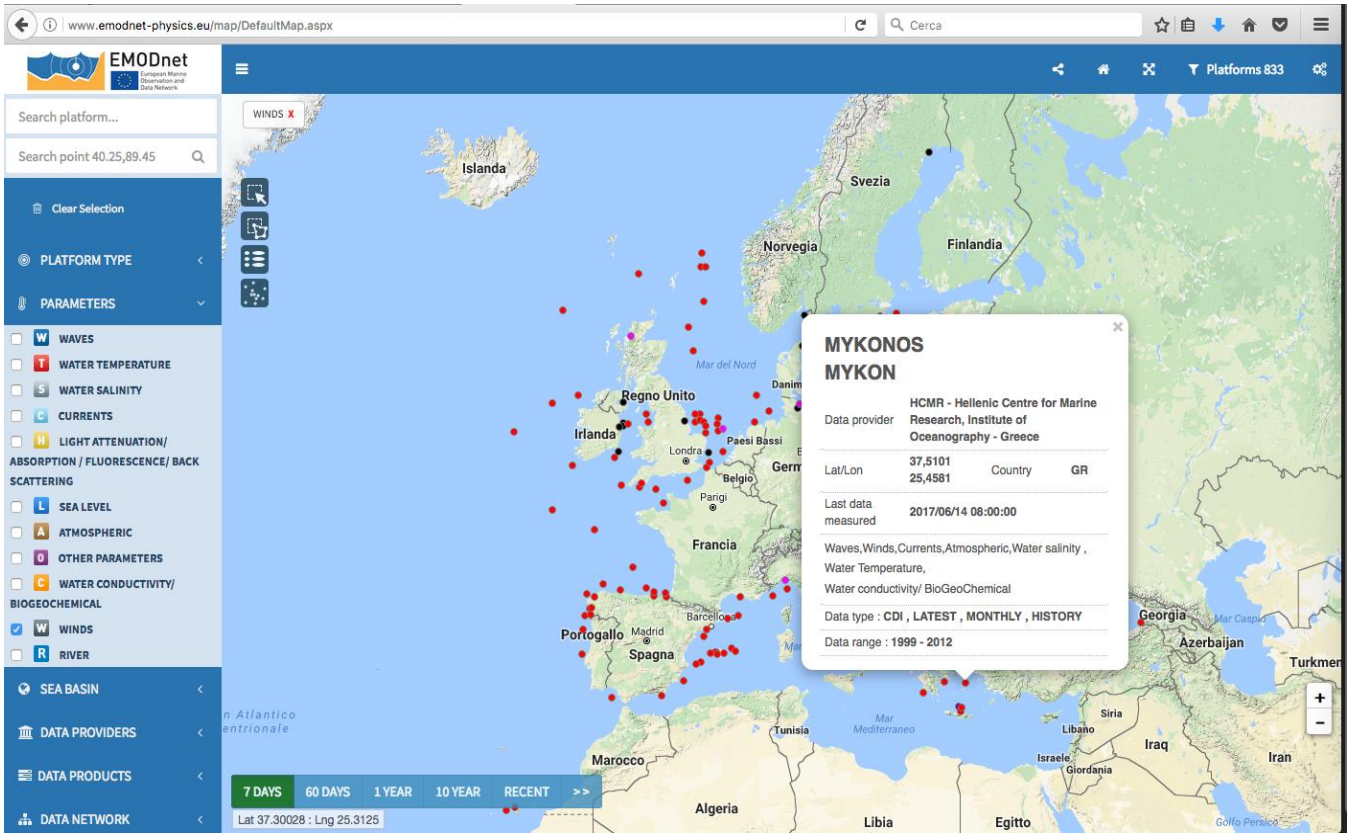


Figure 2

The map page is now providing a quick time filter to select platforms that recorded at least one datasets in the past 7 days, 60 days, 1 year, 10 year as well as a time window defined by the user.

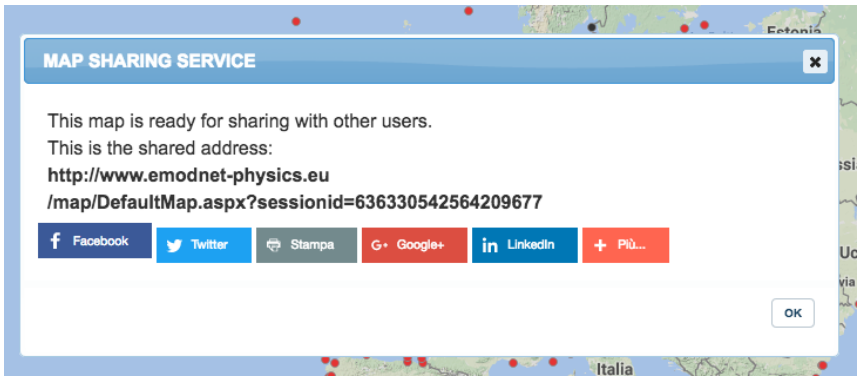


Figure 3

The feature to share the selection is now directly connected to socials and the user can directly post the selection.

For each of the product listed in table 1 – 4, a dedicated (and optimized) page has been developed. These product pages are accessible by the map viewer.

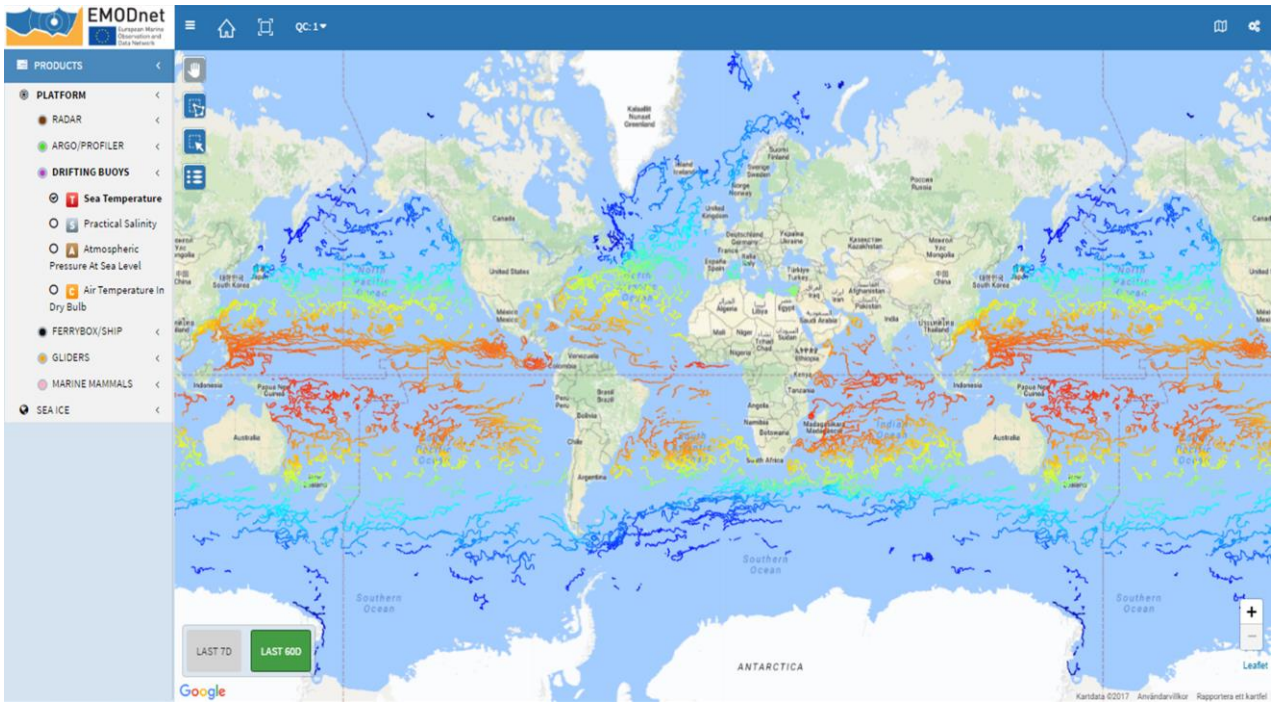


Figure 4. Example of a product page. Sea temperature for last 60 days as recorded by drifting buoys.

The Marine Mammals Exploring the Oceans Pole to Pole, MEOP, database contains data on water column temperature and salinity as recorded by marine mammals and in particular from different seal species. The type of the species is embedded inthe data and EMODnet Physics create a specific service to make seal tracks available for further use (in external systems). The following example presents how to call the layer back:

```
wmsOptions={
        layers: "emodnet:route_mm_temp_0d",
        style: "line",
        format:"image/png",
        transparent: "true",
        elevation: "0/2",
        time: "2010-01-01T00:00:00.000Z/2010-06-30T23:59:59.999Z",
        cql_filter: "qc=1",
        viewparams: "species: 'Southern ellie'"
};
var wmsLayer = L.tileLayer.wms("http://geoserver.emodnet-physics.eu/geoserver/emodnet/route_mm_temp_0d/wms?", wmsOptions).addTo(map);
```

Species
Southern ellie
Green turtle
Crabeater seal
Hooded seal
Harp seal
Ringed seal
Grey seal
Weddell seal
Northern ellie

Table 9. Available mammal species

The Sextant catalogue page (http://www.emodnet-physics.eu/portal/Catalogue) was reorganized within the landing portal as follow:

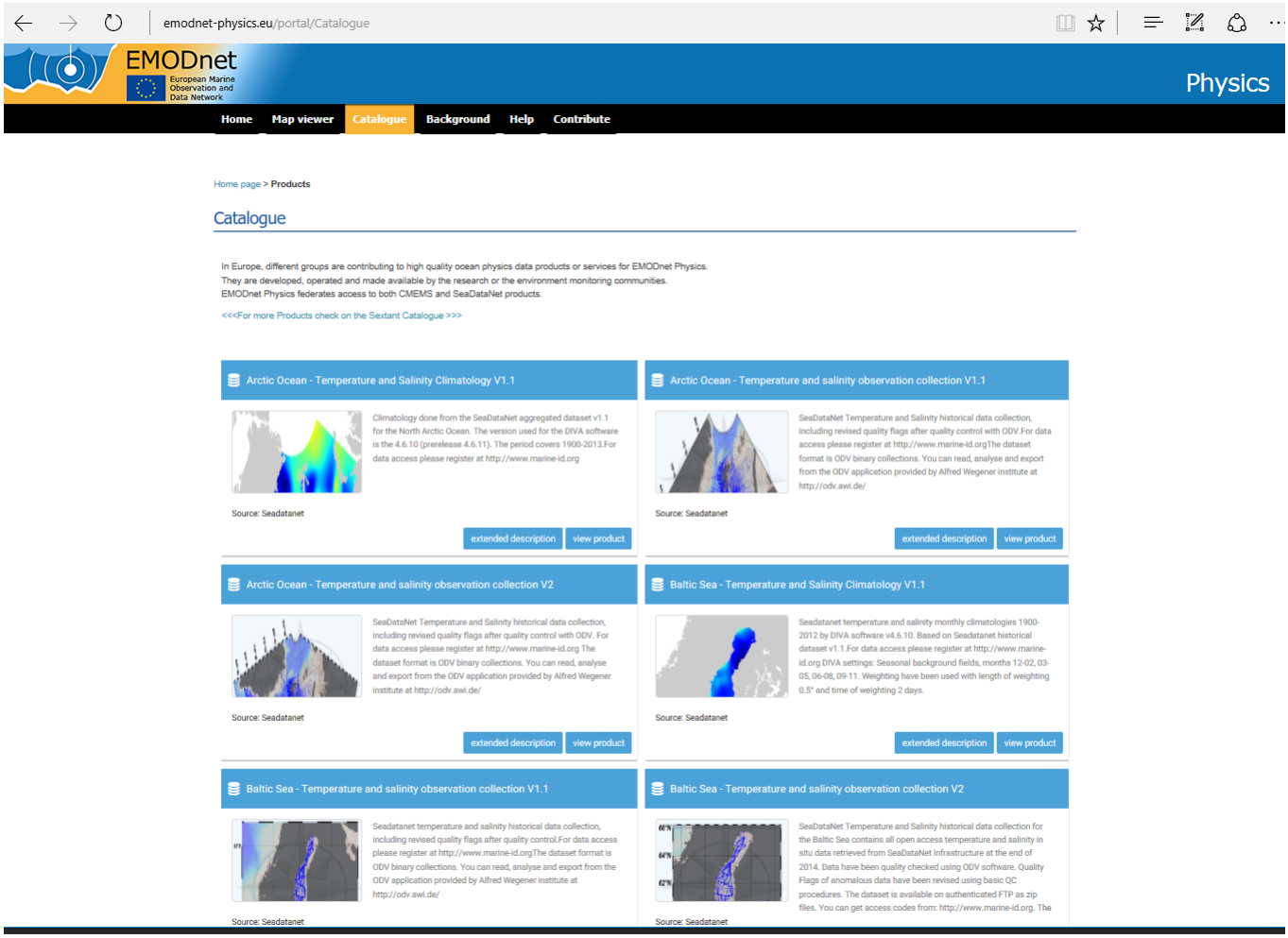


Figure 5. Products as presented by EMODnet Physics Sextant page

The EMODnet M2M and related services were updated with some new features:

UniqueURL - The portal was already offering a UniqueURL for each platform; the service was using the EMODnet Physics internal id (numeric code), and now it is also working with the platform code (e.g. WMO):

e.g.

- http://www.emodnet-physics.eu/map/platinfo/pidashboard.aspx?platformid=8427
- (new): http://www.emodnet-physics.eu/map/platinfo/pidashboard.aspx?platformcode=arkona

Service links are presented in a dedicated API:

http://www.emodnet-physics.eu/map/spi.aspx

Platform ID	Platform Code	PlatInfo	Dashboard
8	Heysham	?code=Heysham ?id=8	?code=Heysham&page=DD ?id=8&page=DD
9	Ilfracombe	?code=Ilfracombe ?id=9	?code=Ilfracombe&page=DD ?id=9&page=DD
10	Newhaven	?code=Newhaven ?id=10	?code=Newhaven&page=DD ?id=10&page=DD
11	Holyhead	?code=Holyhead ?id=11	?code=Holyhead&page=DD ?id=11&page=DD
13	Avonmouth	?code=Avonmouth ?id=13	?code=Avonmouth&page=DD ?id=13&page=DD

Figure 6. UniqueURL call back service details.

Widgets – EMODnet Physics is now offering widgets to embed a parameters plot/chart into an external portal. The general syntax is:

www.emodnet-physics.eu/Map/Charts/PlotDataTimeSeries.aspx?paramcode=PPPP&platid=ZZZZ&timerange=YY

where PPPP is the parameter (e.g. TEMP = sea temperature), ZZZZ is the platform ID (e.g. 8427 is Arkona) and YY is either 7 or 60 (days)

e.g.

www.emodnet-physics.eu/Map/Charts/PlotDataTimeSeries.aspx?paramcode=TEMP&platid=8427&timerange=7

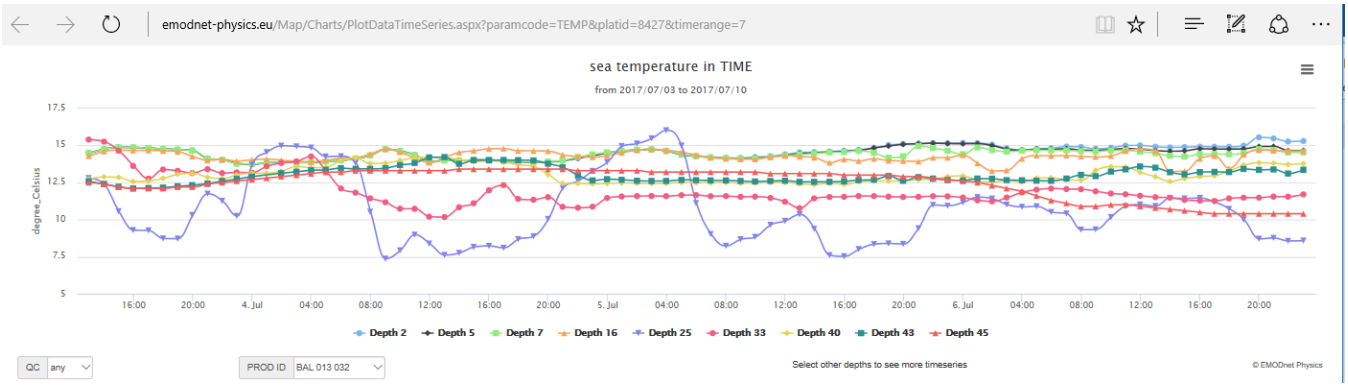


Figure 7. Example of the plot widget

The EMODnet (REST) API www.emodnet-physics.eu/map/Service/WSEmodnet2.aspx provides the user with the parameters code list and platform list.

OCG layers – 136 new layers were created (see annex X) for full description. Layers are available at:

http://geoserver.emodnet-physics.eu/geoserver/web/wicket/bookmarkable/org.geoserver.web.demo.MapPreviewPage?0

note: to filter by “emodnet”

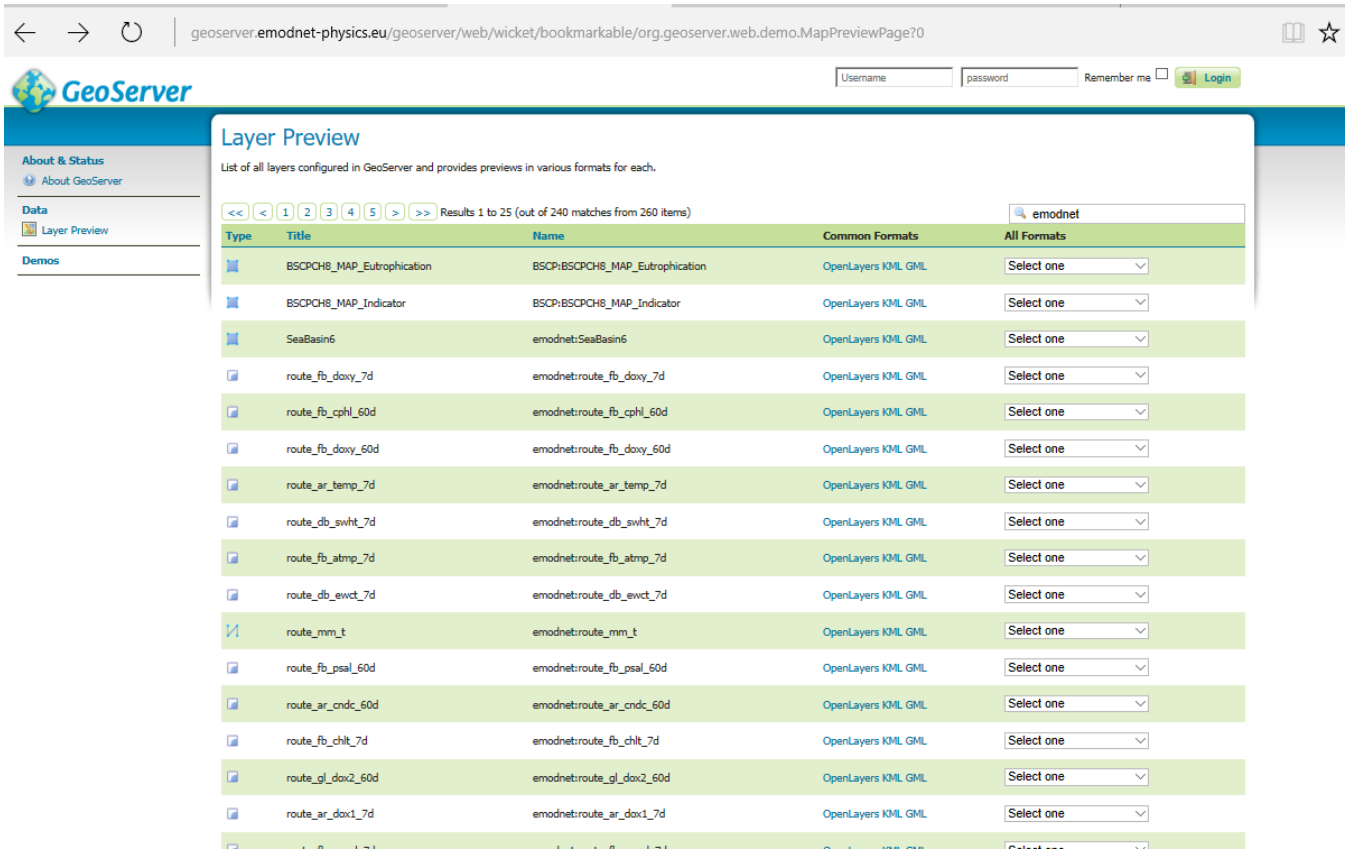


Figure 8. EMODnet Physics layer on the EMODnet GeoServer

EMODnet Physics is also offering/hosting the map viewer and data access to two key European Projects:

AtlantOS (Horizon 2020 research and innovation programme under grant agreement No 633211; https://www.atlantos-h2020.eu/) and JERICO-NEXT (Horizon 2020 Research and Innovation programme under grant agreement No 654410; http://www.jerico-ri.eu/).

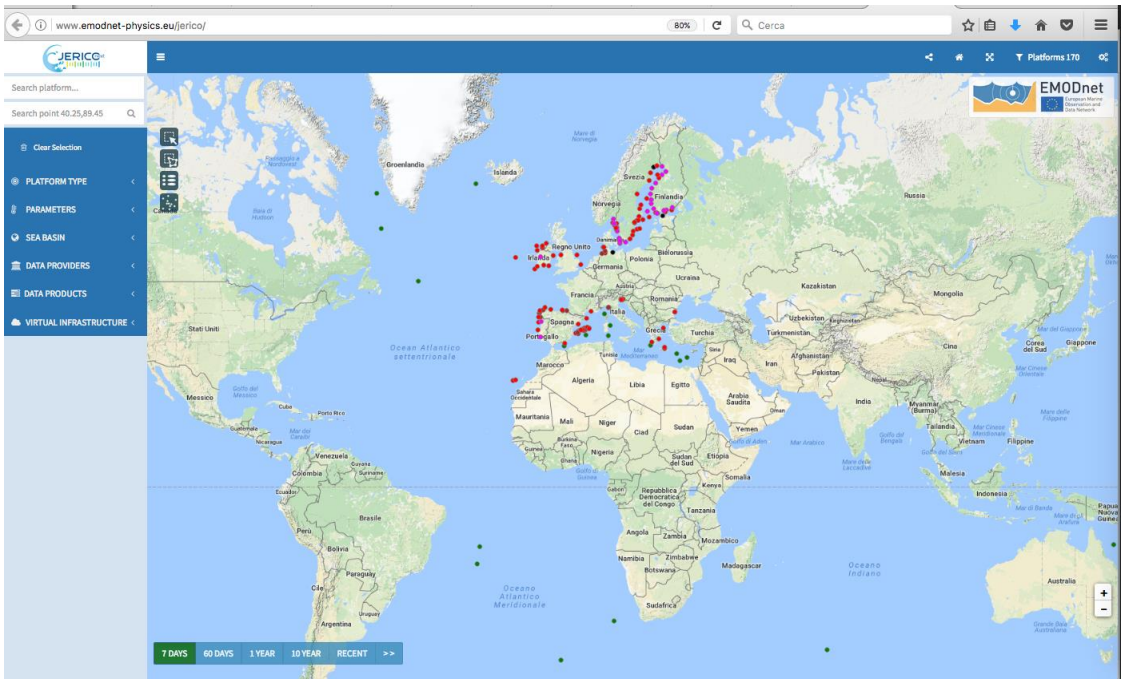


Figure 9. JericoNEXT data portal

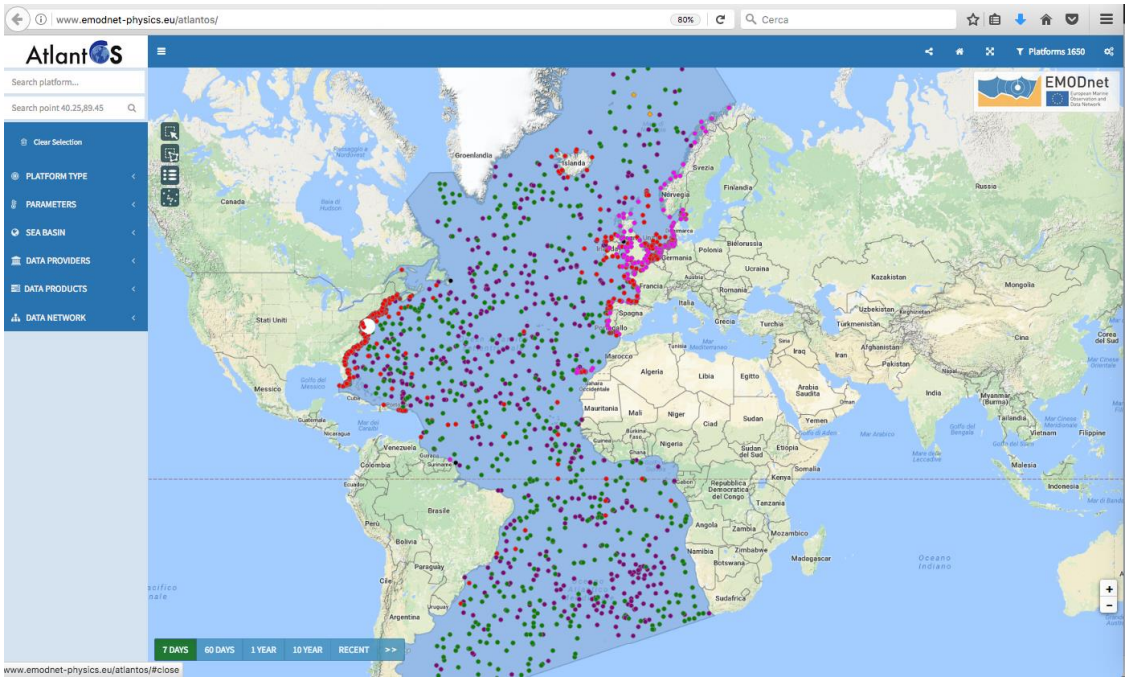


Figure 10. AtlantOS data portal

WP4 – Analysis Evaluation and Feedback

WP4 is aimed at reporting effectiveness of the system in meeting the needs of users and other EMODnet portals, assess the robustness of the developed information system and operate help desk to deal with user feedback and need for support

Activities:

In order to monitor performances, the EMODnet Physics web portal was updated with some tracking features: each interaction with the portal is now recorded into a DB and these data are used to do analytics and extract indicators (see section on Indicators).

The preliminary version of the Help Desk service was published: the link is active on the right part of the map viewer (Figure 11) as well as on each platform page (Figure 13), and when activated a small form is opened to collect the minimum required information (e.g. macro topic of the request, user details, short description). Only the duly filled requests are forwarded to the operators and are taken into consideration.

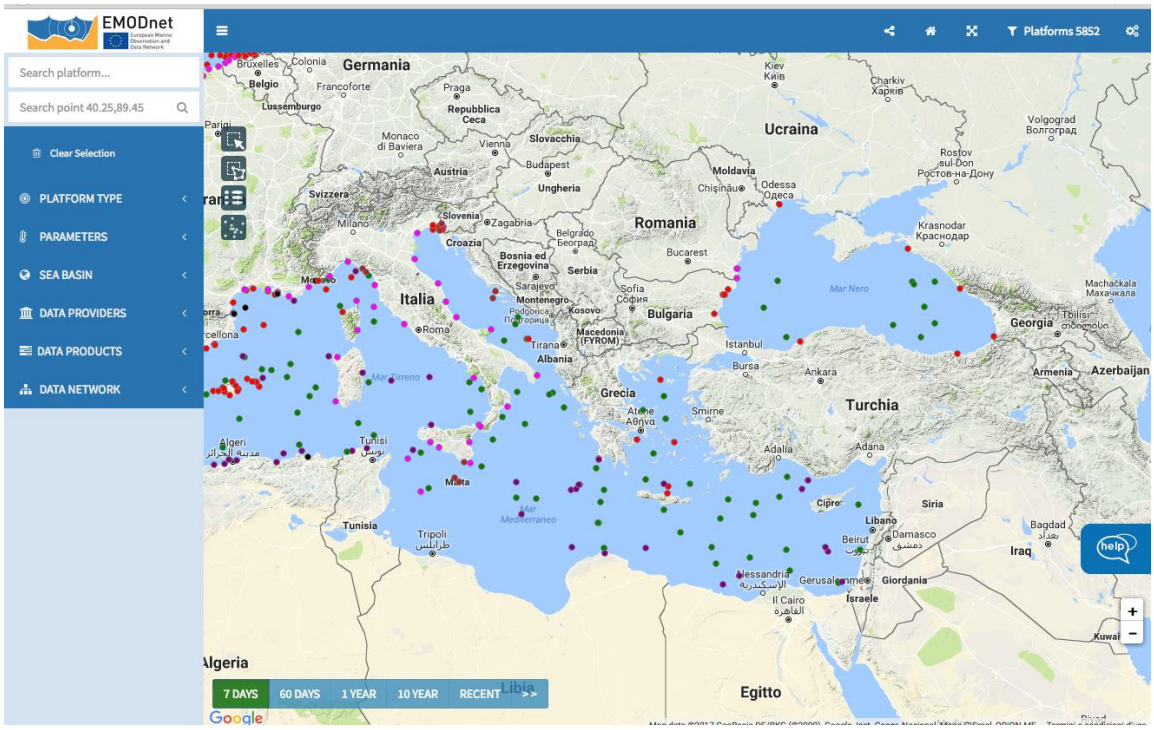


Figure 11. EMODnet Map

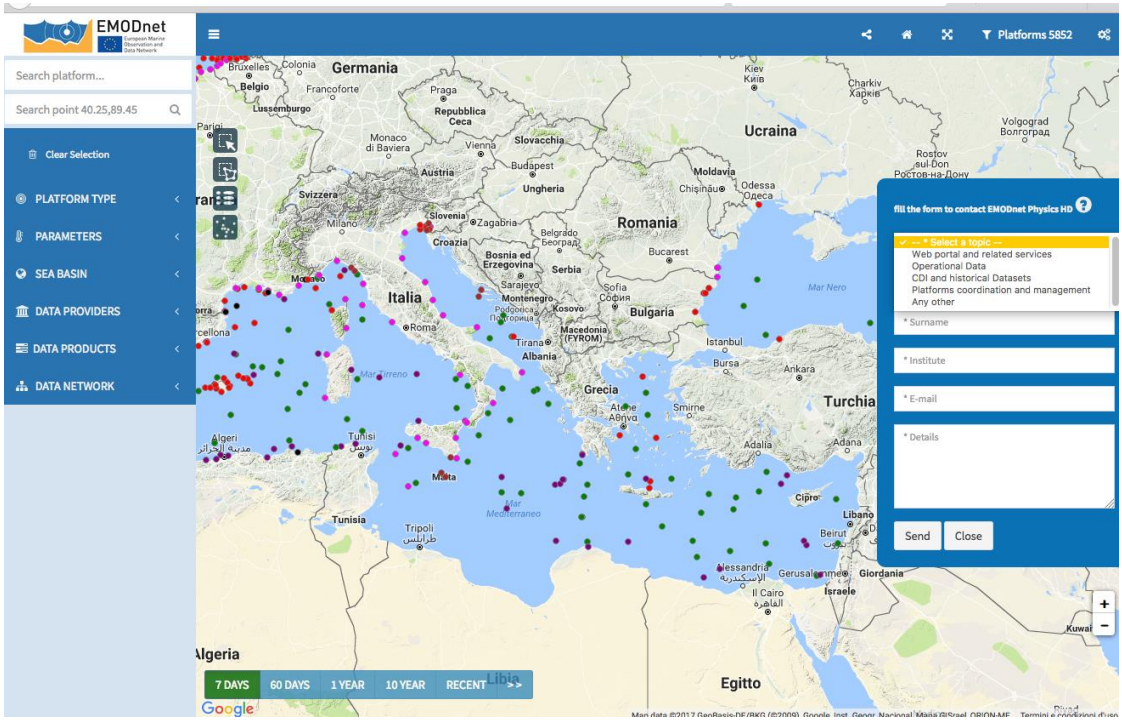


Figure 12. Help desk request form

Figure 13. Help Desk link on a Platform page.

4. Specific challenges or difficulties encountered during the reporting period

Please list specific problems you have encountered during this period, including related to technical and data provision issues. [Provide a bullet list - maximum 2 pages in total – where more information needs to be provided state 'contact XXX for more information']

Nothing to report

5. User Feedback

List any useful feedback you received on your portal, your activities or those of other EMODnet projects/activities. Also provide any suggestions you have received for EMODnet case studies and/or future products/activities/events. [Provide information in table - attach the documentation/full user feedback to the report]

Date	Name	Organization	Type of user feedback (*e.g. technical, case study etc)*	Response time to address user request
02/06/2017	M. Ouellet	DFO MPO GC (Canada)	Technical – platform 27730 is an ice-tethered profiler. To develop a specific platform page	1 day to get primary feedback. 1 week to create the specific template (*)
31/05/2017	I. Taupier-Letage	Mediterranean Institute of Oceanography-MIO (France)	Metadata - GS-3EBE3 provider is MIO-HyMeX	1 day
11/05/2017	M. Ouellet	DFO MPO GC (Canada)	Metadata – to replace Integrated Science Data Management - ISDM with Fisheries and Oceans Canada-DFO	1 day
09/06/2017	A. Koroglu	IHE Delft Institute for Water Education (NL)	Technical – problem with authentication	1 day (in cooperation with CMEMS)
25/05/2017	M. Ouellet	DFO MPO GC (Canada)	Metadata – correct some Canadian platforms metadata	1 day
25/05/2017	M. Ouellet	DFO MPO GC (Canada)	helpdesk – request for help on some new portal features	1 day
14/06/2017	J. Mader	AZTI (spain)	Technical – line duplication on the platform dashboard page	1 day
19/06/2017	M. Ouellet	DFO MPO GC (Canada)	Metadata – correct some Canadian platforms metadata	1 day

Table 10

(*) http://www.emodnet-physics.eu/Map/platinfo/piroosctdplot.aspx?platformid=27730&60days=false

6. Outreach and communication activities

Please list all the relevant communications activities or products you have developed/executed during this period (including presentations, lectures, trainings, demonstrations and development of communication materials such as brochures, videos, etc.). Relevant scientific and/or popular articles you know have been published using/referring to EMODnet should be reported under indicator in Section 7. [Provide information in table - Maximum 1 page]

When	Location	Topic	Description
27/03-30/03/2017	Kuala Lumpur, Malaysia	2 Oral presentations on EMODnet in general, EMODnet Physics in particular @ IODE XXIV	The 24th Session of the IOC Committee on International Oceanographic Data and Information Exchange was held between 28-31 March 2017, preceded by a one-day scientific workshop on 27 March 2017. https://www.iode.org/index.php?option=com_oe&task=viewEventAgenda&eventID=1879
24/04/2017	Wien, Austria	EGU – European Geoscience Union Assembly 2017	The EGU General Assembly 2017 saw 4,849 oral, 11,312 poster, and 1,238 PICO presentations. At the conference 14,496 scientists from 107 countries participated, EMODnet Physics was presented and discussed during the ESSI 1.1 session http://meetingorganizer.copernicus.org/EGU2017/session/22856 http://meetingorganizer.copernicus.org/EGU2017/EGU2017-7113.pdf
17/05/2017	Milan, Italy	Microsoft Italian IoT Summit	EMODnet Physics was awarded to be presented as one of the best available IoT applications and services for the Italian Microsoft partners' (annual) meeting.
14/06-15/06/2017	Bremerhaven, Germany	SOOS – southern ocean observing system annual assembly	The EMODnet Physics was presented during the SOOS Data Management Steering Committee (DMSC) and it was agreed that EMODnet Physics is going power the SOOS data portal. This will have a big impact on the SOOS community and extend the EMODnet Physics end users.

Table 11

7. Updates on Progress Indicators

Using the indicator as a header list the metrics collated and the time interval. If there was no activity to report leave the section under the indicator header blank.

Indicator 1 - Volume of data made available through the portal

EMODnet Physics is providing access to both near real time and historical datasets from as recorded by different platform types. Some platforms are delivering data continuously (e.g. fixed stations, radars, ferryboxes), other platforms are delivering data as soon as they can (e.g. ARGO, glider) covering a defined time period, i.e. the mission. Since some platforms have ceased in operation only old data may be available. A platform generally measures one or more parameters and indicator 1.2 summarises the available datasets by parameters.

Data are organised in files according the data age and more specifically the system is making available:

1. Daily files for the past 60 days. It is a sliding window on the latest 60 days of observations for real-time applications, data go towards automatic quality check/flag procedures and no authentication is required to download these data

2. Monthly files. By the end of the first week the month, for each platform, data for the previous month are organised into a single file. The file contains the best copy of the recent dataset according automatic quality check/flag procedures[4]. Some of these datasets download requires user authentication.

3. Long Term time series data files. Annually the monthly files are reprocessed (together with validated data from NODCs) into a single file creating a single best copy history file for each platform. Some of these datasets download requires user authentication.

4. Validated historical datasets. Organized in CDI - dataset files hosted by NODCs (validated data[5], requires user registration).

[4] http://www.emodnet-physics.eu/map/ARH/QualityCheck/recommendations_for_rtqc_procedures_v1_2.pdf
[5] Validated according the SeaDatanet Quality Check procedure - http://www.seadatanet.org/content/download/18414/119624/file/SeaDataNet_QC_procedures_V2_%28May_2010%29.pdf

Indicator 1.1 - Available datasets[6]

@30/06/2017	Temperature	Salinity	Currents	Light Attenuation	SeaLevel	Atmospheric	Waves	Wind	BioChemical	River	Total
Number of platforms providing operational data for latest 60days	6560	4427	275	47	438	1503	708	506	432	-	14896
Number of platforms providing operational data	16992	8373	594	49	596	5457	1411	698	630	1	34801
Number of platforms providing historical data	15167	7866	424	42	384	4470	1119	497	525	-	30494
Number of platforms providing validated historical data (CDI)	442	65	366	36	398	41	294	173	38	-	1853

Table 12

Indicator 1.2 - Number of platform with a monthly file for the given month[7]

	drifting buoys (DB)	ferrybox/ship (FB)	gliders (GL)	mooring time series (MO)	profiling floats (PF)	Argo Floats (AR)	Radar (RD)	Profiling mooring (MOPR)	marine mammal (MM)	Tide Gauge (TG)	TOTAL
March 2015	2171	68	6	1425	867	3142	132		0	323	8134
April 2017	1853	68	7	1466	913	3067	135	0	0	320	7829
May 2017	1796	73	8	1501	951	2988	133	1	0	322	7773
June 2017	1794	70	8	1498	962	2883	133	1	0	322	7671
July 2017	1691	52	4	1456	836	2465	142	1	0	322	6969

Table 13

[6] http://www.emodnet-physics.eu/map/dashboard/Section16.aspx

[7] http://www.emodnet-physics.eu/map/dashboard/Section20.aspx

Indicator 2 - Organisations supplying each type of data

EMODnet Physics is receiving data from all EuroGOOS and ROOSs members (based on a formal data sharing agreement). EMODnet Physics is also receiving data from providers that have sharing agreements with organisations that are cooperating with EMODnet Physics on the data management infrastructures (i.e. CMEMS INSTAC and ROOS RDACs). For instance, through these agreements EMODnet Physics is receiving data from 24 oil platforms (North Sea).

For details on providers, see Annex 1[8]

Indicator 3 - Organisations that have been approached to supply data with no result

Nothing to report

[8] http://www.emodnet-physics.eu/map/dashboard/Section1.aspx?typeplat=A

Indicator 4 - Volume of each type of data and of each data product downloaded from the portal

EMODnet Physics is tracking the IP address where the request comes from. Internal requests (ETT IPs) and known internet page-indexing/sniffing robots (e.g. Google) are filtered out. If data is requesting authentication (e.g. monthly files) EMODnet forwards the request to the CAS service and if the acknowledgment is positive the user can download data, if it is not the user is requested to fill up the registration form to receive a login and password.

Indicator 4.1 - Data downloads[9] (period 01/04/2017 – 30/06/2017)

Country	NRT LATEST	NRT MONTHLY	REP.TIMESERIES	CDI	ALL	WEBSERVICE	TOT
Algeria	0	2	0	0	0	0	2
Argentina	0	0	0	0	0	1	1
Austria	0	2	1	0	0	0	3
Azerbaijan	0	0	0	0	0	1	1
Belgium	3	12	2108	0	0	166	2289
Bulgaria	15	1	0	0	0	1	17
Canada	0	5	0	0	0	22	27
China	0	0	0	0	0	551	551
Croatia	0	10	0	0	0	1	11
Cyprus	4	0	0	0	0	0	4
Czech Republic	0	0	0	0	0	4	4
Denmark	2724	80	9	0	0	0	2813
Estonia	0	3	0	0	0	0	3
Finland	1	2	2	0	0	0	5
France	112	40	23	0	0	179	354
Georgia	2	0	0	0	0	1	3
Germany	14	28	108	1	0	924	1075
Greece	2	2708	0	44	0	0	2754
Hong Kong	0	0	0	0	0	10	10
India	1	0	0	0	0	1	2
Ireland	31	0	0	0	0	2	33
Italy	1375	108	6	1	0	7520	9010
Japan	0	2	0	0	0	0	2
Luxembourg	1	0	0	0	0	0	1
Malaysia	0	0	0	0	0	22	22
Mexico	1	0	0	0	0	0	1
N.D.	1	1	0	0	0	5	7
Netherlands	334	752	4245	142	0	0	5473
Norway	0	5	1	0	0	0	6
Poland	1	0	0	0	0	0	1
Portugal	25	25	4	1	0	2534	2589
Republic of Korea	1	0	0	0	0	2	3

[9] http://www.emodnet-physics.eu/map/dashboard/ReservedAreaSection13.aspx

Romania	2	5	0	0	0	86	93
Russia	33	11	0	0	0	130	174
Spain	17	44	14	0	0	4	79
Sweden	5	2	0	0	0	0	7
Turkey	0	0	7	23	0	0	30
Ukraine	0	0	0	0	0	62	62
United Arab Emirates	0	0	0	0	0	2	2
United Kingdom	477	460	1769	65	0	201	2972
United States	2	2	12	0	0	3122	3138
United Kingdom	600	470	1798	0	67	358	3293
United States	2	3	12	0	1	3958	3976
TOT	5786	4783	10119	277	68	19870	

Table 14

Indicator 4.2 - Most downloaded platforms – (period 01/07/2016 – 31/03/2017)[10]

The following tables report on the most downloaded data-platform (top 15), for the full report see the attachment.

Platform	Download	Web service	SeaDataNet	Total
USNDBC_mlww3	0	3079	0	3079
VigoTG	20	181	1	202
CorunaTG	12	181	1	194
GijonTG	13	181	0	194
PenicheTG	13	181	0	194
BilbaoTG	12	181	0	193
SantanderTG	10	181	1	192
HuelvaTG	11	181	0	192
LaRochelleTG	11	181	0	192
NazareTG	11	181	0	192
PortBlocTG	11	181	0	192
SocoaTG	11	181	0	192
LasPalmasTG	9	181	0	190
LeixoesTG	9	181	0	190
SinesTG	9	181	0	190
Offshore location - Maplin Sands (Site 5)	0	179	0	179
USNDBC_mlww3	0	3079	0	3079

Table 15. List is ordered by "total"

Helgoland	141	0	0	141

[10] http://www.emodnet-physics.eu/map/dashboard/ReservedAreaSection6.aspx

MO	121	0	2	123
Europlatform	120	0	5	125
K13a	118	0	5	123
62103	116	0	0	116
NsbII	115	0	0	115
Hanstholm	109	0	0	109
62001	105	2	0	107
62025	98	7	0	105
LTKiel	98	0	0	98
62024	98	0	0	98
Q1	90	0	0	90

Table 16. List is order by manual "download"

Europlatform	120	0	5	125
K13a	118	0	5	123
LichteilandGoeree1	58	0	5	63
Hansweert	55	0	5	60
K13a2	30	0	5	35
Bath	29	0	5	34
HansweertPunt2	29	0	5	34
Roompot binnen	27	0	5	32
RoompotBuiten	27	0	5	32
LichteilandGoeree1TG	27	0	5	32
SchiermonnikoogWadden TG	25	0	5	30
SANTO	2	0	5	7
SANTORINI	0	0	5	5
Galway	62	0	4	66
Schouwenbank	48	0	4	52

Table 17. List ordered by "SeaDataNet CDI" requests

Indicator 5 - Organisations that have downloaded each data type

Indicator 5 shows the Country (rows) where a request came from versus the sea basin (columns) where the dataset - platform is belonging to.

Indicator 5 - Downloads by country[11] (period 01/04/2017 – 30/06/2017)

Country	Arctic, Barents, Greenland, Norwegian	Atlantic, Bay of Biscay, Celtic Sea	Baltic Sea	Black Sea	Global	Mediterranean Sea	North Sea	Inland	all	total
Algeria	0	0	0	0	0	2	0	0	0	2
Argentina	0	0	0	0	0	0	0	1	0	1
Austria	0	2	0	0	0	1	0	0	0	3
Azerbaijan	0	0	0	0	0	0	0	1	0	1
Belgium	46	328	25	2	90	60	8	1333	0	1892
Bulgaria	0	0	0	15	1	0	0	2	0	18
Canada	0	5	0	0	5	0	0	17	0	27
China	0	0	29	0	183	0	0	339	0	551
Croatia	0	0	0	0	0	10	0	1	0	11
Cyprus	0	0	0	0	0	4	0	0	0	4
Czech Republic	0	0	0	0	2	0	0	2	0	4
Denmark	38	540	208	0	37	7	591	75	0	1496
Estonia	0	0	3	0	0	0	0	0	0	3
Finland	0	0	5	0	0	0	0	0	0	5
France	0	20	0	0	89	105	0	103	0	317
Georgia	0	0	0	2	0	0	0	1	0	3
Germany	0	1	142	0	504	2	28	371	0	1048
Greece	19	343	270	0	0	54	775	169	0	1630
Hong Kong	0	0	0	0	8	0	0	2	0	10
India	0	0	1	0	0	0	0	1	0	2
Ireland	0	13	0	0	2	0	0	0	0	15
Italy	9	252	8	30	715	7683	1	121	0	8819
Japan	0	0	0	0	2	0	0	0	0	2
Luxembourg	0	0	1	0	0	0	0	0	0	1
Malaysia	0	0	0	0	12	0	0	8	0	20
Mexico	0	0	0	0	1	0	0	0	0	1
N.D.	0	0	0	0	2	2	0	3	0	7
Netherlands	144	493	1547	52	0	260	875	985	0	4356
Norway	1	0	0	0	0	0	0	0	0	1
Poland	0	0	1	0	0	0	0	0	0	1
Portugal	0	1304	0	0	0	5	1	1	0	1311
Republic of Korea	0	0	1	0	0	0	0	2	0	3

[11] http://www.emodnet-physics.eu/map/dashboard/ReservedAreaSection5.aspx

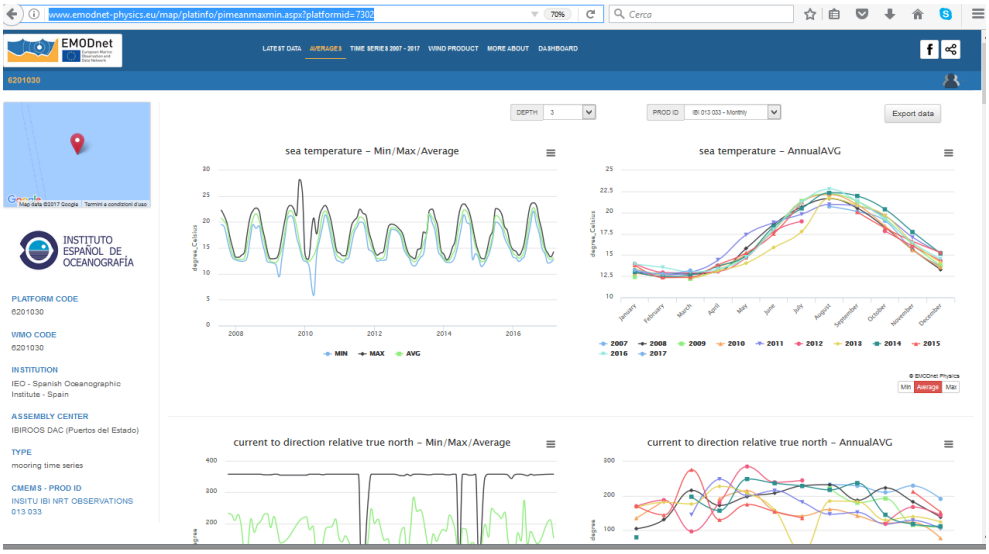
Romania	0	0	0	3	84	0	0	2	0	89
Russia	0	1	47	1	61	1	1	62	0	174
Spain	0	0	0	0	3	70	0	1	0	74
Sweden	0	0	4	0	0	1	1	0	0	6
Turkey	0	0	0	0	0	10	0	20	0	30
Ukraine	0	0	0	0	45	0	0	17	0	62
United Arab Emirates	0	0	0	0	0	0	0	2	0	2
United Kingdom	40	788	21	0	147	40	557	169	0	1762
United States	0	1	71	0	2157	12	0	892	0	3133
United Kingdom	35	836	25	0	264	88	579	198	0	2025
United States	0	1	101	0	2619	12	0	1237	0	3970
total	332	4928	2510	105	7033	8429	3417	6138	0	32892

Table 18

Indicator 6 - Using user statistics to determine the main pages utilised and to identify preferred user navigations routes

This report is indicating how many times the pages/services have been viewed/used. Indicator 6.1 reports on the access and use of EMODnet Physics dynamic map, products, and services. Indicator 6.2 provides users statistics about navigation on the landing portal.

AVGS is indicating how many times the “averages” tab in the platform page have been view. This page is available in each of the platforms that provide time series data (e.g. mooring buoys), e.g. platform 6200192[12]

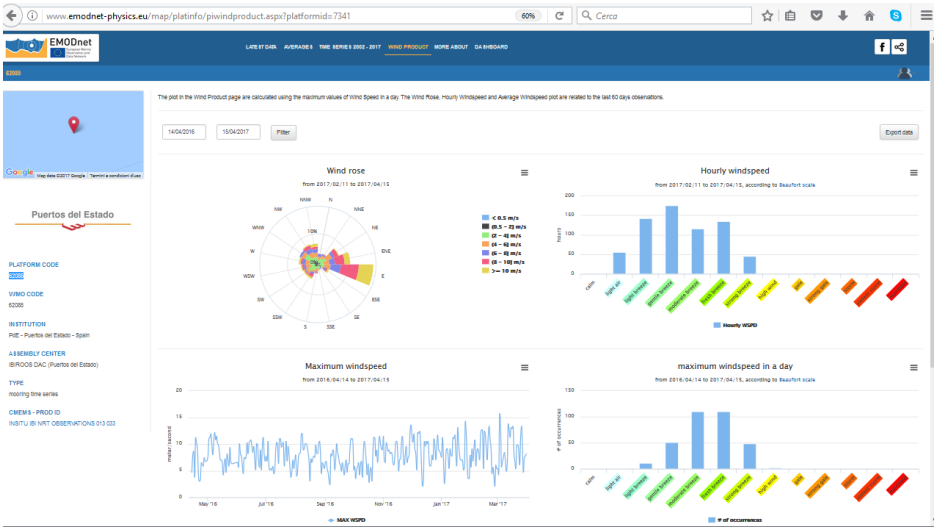


WIND is indicating how many times the “wind plot rose” tab in the platform page have been view. This page is only available for platforms[13] recoding wind data, e.g. platform 62085[14]

[12] http://www.emodnet-physics.eu/map/platinfo/pimeanmaxmin.aspx?platformid=7302

[13] http://www.emodnet-physics.eu/map/DefaultMap.aspx?sessionid=636277650091147219

[14] http://www.emodnet-physics.eu/map/platinfo/piwindproduct.aspx?platformid=7341



PR.XX are the product pages e.g. PR.AR[15] is the product page for the ARGO
WMS, WFS, WS SOAP, WS, SOS are the pages to access and use the EMODnet Physics M2M services

Indicator 6.1 - Pages and Services accesses[16] (period 01/04/2017 – 30/06/2017)

Country	AVGS	WIND	DASHB	PR.RD	PR.AR/PR	PR.DB	PR.FB	PR.GL	PR.MM	PR.ARCTIC	PR.ANTARCTIC	PSMSL	WMS	WFS	WSSOAP	WS	SOS	TOTAL
Algeria	0	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	3	0	6
Armenia	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Australia	2	0	0	0	0	0	3	0	1	0	0	0	1	1	0	1	0	9
Austria	8	3	4	3	0	1	2	0	4	1	0	1	2	0	0	0	1	30
Azerbaijan	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Belgium	57	0	7	7	2	2	0	4	4	0	2	3	22	4	7	2628	4	2753
Brazil	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	5	0	7
Bulgaria	3	0	10	0	0	0	0	0	0	0	0	0	0	0	0	4	0	17
Canada	2	2	5	0	0	0	0	0	1	0	0	2	6	4	42	19	5	88
China	1	0	0	10	5	5	5	4	4	4	4	8	26	25	360	639	4	1104
Croatia	9	7	1	0	0	0	0	0	0	0	0	0	1	0	1	2	0	21
Cyprus	0	0	0	2	2	0	0	0	0	0	0	1	2	3	4	1	0	15
Czech Republic	0	0	0	1	0	0	0	0	0	0	0	1	1	1	0	6	0	10
Denmark	49	3	2	5	1	0	1	0	2	0	1	0	1	0	0	2	0	67
Estonia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Finland	5	1	4	9	1	1	1	1	2	1	0	0	1	1	0	2	0	30
France	40	2	31	19	13	7	1	3	2	7	0	4	33	14	4	90	1	271

[15] http://www.emodnet-physics.eu/map/Products/V2/PRODUCTS.aspx?PRODTYPE=RT&type=AR
[16] http://www.emodnet-physics.eu/map/dashboard/Section25.aspx

Georgia	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	2
Germany	35	5	11	3	2	1	2	3	3	1	4	0	9	7	1	82	0	169
Greece	2	5	15	0	2	0	0	0	3	0	0	0	2	1	0	0	0	30
Iceland	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
India	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	2
Ireland	2	2	2	2	1	1	1	2	7	0	1	3	9	4	9	18	1	65
Italy	42	22	17	30	13	15	2	3	19	6	1	6	21	13	8	5782	2	6002
Japan	5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6
Latvia	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Luxembourg	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	4
Malaysia	0	2	0	0	0	0	0	0	1	0	0	1	3	3	2	28	0	40
Mexico	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Morocco	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	2
N.D.	1	0	6	0	0	0	0	0	2	0	0	2	5	3	5	8	0	32
Netherlands	9	3	3	5	1	3	2	1	3	3	1	5	4	0	3	5	0	51
Norway	0	0	8	2	2	0	0	3	1	1	0	0	0	0	0	0	0	17
Poland	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3
Portugal	5	36	3	14	5	10	10	6	4	5	4	3	2	2	3208	1	1	3319
Republic of Korea	1	0	1	0	0	0	0	0	0	0	0	0	1	2	0	5	0	10
Republic of Lithuania	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Romania	11	3	0	1	1	0	0	1	0	0	0	2	0	15	0	0	0	34
Russia	1	0	0	4	1	1	1	1	2	3	1	2	2	2	4	60	0	85
Slovenia	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
South Africa	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
Spain	17	15	30	18	6	2	2	4	1	2	0	3	59	7	19	10	0	195
Sweden	9	0	16	6	1	4	0	0	3	3	1	0	1	0	0	4	0	48
Taiwan	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
Turkey	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Ukraine	2	0	1	1	4	0	0	0	0	0	0	1	300	0	0	5	0	314
United Kingdom	21	48	8	5	2	1	2	0	5	4	0	2	11	2	9	30	5	155
United States	2	7	8	15	6	7	15	7	12	5	8	8	30	22	56	98	2	308
TOTAL	343	166	193	176	75	62	50	44	86	47	29	59	560	138	3744	9548	26	15346

Indicator 6.2 - Landing portal accesses[17] (period 01/04/2017 – 30/06/2017)

Country	Associ.	Backgr.	Catalo.	Cookie.	Docume.	Home	How to.	Login	Meetin.	Near R.	News	News -.	QA/QC.	Terms.	TestHo.	User's.	Videos.	TOTAL
Argentina	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
Armenia	1	1	0	0	0	3	0	0	0	0	0	0	0	0	0	1	0	6
Australia	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	9
Austria	0	0	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	4
Belarus	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Belgium	0	6	10	0	1	105	1	0	1	0	0	0	0	0	0	1	0	125
Benin	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Brazil	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	3
Bulgaria	0	0	0	0	0	3	1	0	0	1	0	0	0	0	0	0	0	5
Canada	2	2	4	2	2	13	2	1	0	1	0	0	2	2	0	2	1	36
China	7	7	15	12	9	72	10	133	1	8	5	2	7	11	0	8	5	312
Croatia	0	0	0	0	0	6	0	0	0	0	1	0	0	0	0	0	0	7
Cyprus	2	1	2	0	0	14	0	0	0	3	0	0	0	0	0	0	0	22
Czech Republic	1	1	2	2	1	7	1	14	0	1	0	0	1	1	0	1	1	34
Denmark	1	1	2	1	0	35	0	0	0	1	0	0	0	0	0	2	0	43
Estonia	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	25
Finland	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
France	2	3	8	0	0	136	1	0	2	4	5	3	0	0	0	2	0	166
Germany	3	2	2	3	1	60	4	60	0	1	2	0	1	2	0	3	1	145
Greece	0	0	3	0	1	43	0	0	1	0	1	0	0	0	0	2	0	51
Hong Kong	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Iceland	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
India	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
Iran	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Ireland	0	0	3	0	0	11	0	0	0	0	0	0	0	0	1	0	1	16
Israel	1	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	6
Italy	2	10	32	1	5	270	5	0	0	1	3	0	6	3	11	4	0	353
Jamaica	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
Japan	0	0	0	0	0	6	0	0	0	0	0	0	0	2	0	0	0	8
Kenya	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Latvia	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Luxembourg	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2
Malaysia	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Malta	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Morocco	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
N.D.	0	0	0	1	1	71	0	0	1	0	0	0	0	1	1	1	0	77
Netherlands	1	0	4	0	0	31	0	0	0	0	0	0	0	0	0	0	1	37
New Zealand	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Norway	1	2	1	0	0	27	1	0	0	0	0	0	0	0	0	2	0	34
Poland	3	4	2	4	2	10	2	39	0	3	2	0	2	2	0	2	2	79
Portugal	0	0	1	3	0	26	0	0	0	0	0	0	0	0	0	0	0	30
Republic of Korea	4	4	0	4	2	33	0	0	4	0	3	0	1	4	0	6	0	65

[17] http://www.emodnet-physics.eu/map/dashboard/Section30.aspx

Republic of Moldova	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
Romania	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	4
Russia	16	7	7	12	8	60	4	15	1	4	4	3	7	7	0	9	0	164
Slovenia	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
Spain	3	0	10	1	1	127	2	0	0	0	3	3	1	4	1	1	1	158
Sweden	0	0	1	0	0	63	0	0	0	0	0	0	0	0	0	0	0	64
Switzerland	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Taiwan	0	0	7	3	0	3	0	0	5	1	0	0	0	0	0	0	0	19
Turkey	0	0	1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	5
Ukraine	1	0	0	0	0	768	0	3	0	0	0	0	0	0	0	0	0	772
United Arab Emirates	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
United Kingdom	1	2	7	0	0	109	3	1	0	1	1	0	0	2	0	0	0	127
United States	4	2	10	6	6	166	3	2	1	5	6	0	3	5	0	3	2	224
TOTAL	60	57	135	56	40	2359	40	268	17	37	39	14	31	47	14	50	15	3279

Table 19

Indicator 7 - List of what the downloaded data has been used for (divided into categories e.g. Government planning, pollution assessment and (commercial) environmental assessment, etc.)

Indicator 8 - List of web-services made available and user organisations connected through these web-services

EMODnet Physics is offering different web-services and machine-to-machine data distribution services. By means of a GeoServer based infrastructure, EMODnet Physics is offering OGC compliant catalogues and services (WMS, WFS, etc.). The following links redirect to the landing page of each of the available service and presents the available features and services in details.

- ***UniqueURL***

www.emodnet-physics.eu/map/spi.aspx

e.g.

www.emodnet-physics.eu/map/platinfo/pidashboard.aspx?platformcode=arkona

www.emodnet-physics.eu/map/platinfo/pidashboard.aspx?platformid=8427

- ***API (REST, SOAP) → web services [latest 60 days of data]***

www.emodnet-physics.eu/map/Service/WSEmodnet2.aspx

www.emodnet-physics.eu/map/service/WSEmodnet2.asmx

- ***OGC (WMS, WFS, …) → postgresql + geoserver***

www.emodnet-physics.eu/map/service/GeoServerDefaultWMS

www.emodnet-physics.eu/map/service/GeoServerDefaultWFS

geoserver.emodnet-physics.eu/geoserver/web

- ***Opendap/THREDDS [HFR data, Ice, climatologies]***

thredds.emodnet-physics.eu/thredds/catalog.html

- ***Widgets***

www.emodnet-physics.eu/Map/Charts/PlotDataTimeSeries.aspx?paramcode=TEMP&platid=8427&timerange=7

- ***Sextant***

www.emodnet-physics.eu/portal/Catalogue

- ***GeoServer***

geoserver.emodnet-physics.eu/geoserver/web/wicket/bookmarkable/org.geoserver.web.demo.MapPreviewPage?1

Indicator 9 – List of identified publication citing EMODnet Physics

Year	Type	EMODnet Authors	Authors	Title	Publication	other info
2013	Conference	No	Sissy Iona, Stavroula Balopoulou, Pelopidas Karagevrekis, Angelo Lykiardopoulos	The HNODC Data & Information Management Services: Description & Recent Upgrades	Bollettino di Geofisica teorica ed applicata, Vol. 54 Supplement, 2013	IMDIS 2013, International Conference on Marine Data and Information Systems, 23-25 September, 2013 - Lucca (Italy)
2013	Conference	No	Wilhelm Petersen	FerryBox Systems: State-of-the-art and Incorporation in European Observation Networks	Book of Abstract: The Future of Operational Oceanography 2013	
2013	Conference	Yes	A. Novellino, G. Manzella, D. Schaap, P. Gorringe, L. Rickards, S. Pouliquen	EMODNet Physical Parameters	Bollettino di Geofisica teorica ed applicata, Vol. 54 Supplement, 2013	IMDIS 2013, International Conference on Marine Data and Information Systems, 23-25 September, 2013 - Lucca (Italy)
2013	Conference	Yes	Dahlin, Hans; Gies, Tobias; Giordano, Marco; Gorringe, Patrick; Manzella, Giuseppe; Maudire, Gilbert; Novellino, Antonio; Pagnani, Maureen; Petersson, Sian; Pouliquen, Sylvie; Rickards, Lesley; Schaap, Dick; Tijsse, Peter; van der Horste, Serge	European Marine Observation and DataNetwork (EMODNET)- physical parameters: A support to marine science and operational oceanography	EGU General Assembly 2013, held 7-12 April, 2013 in Vienna, Austria, id. EGU2013-3126	EGU 2013
2013	Conference	Yes	Patrick Gorringe, Antonio Novellino, Giuseppe Manzella, Dick Schaap, Lelsy Richards, Sylvie Pouliquen	EMODNet – Physical Parameters	Book of Abstract: The Future of Operational Oceanography 2013	IMDIS 2013, International Conference on Marine Data and Information Systems, 23-25 September, 2013 - Lucca (Italy)
2013	Report	Yes	Ribotti, Alberto and Ciuffardi, Tiziana and Pes, Aandrea and Manzella, Giuseppe M.R. and Sparnocchia, Stefania	Rapporto tecnico-scientifico sullo stato dell'arte dei sistemi oceanografici operativi in Mare Mediterraneo e nei mari italiani con	RITMARE project Report, 2013	

				particolare riguardo ai sistemi osservativi		
2014	Conference	No	W.R. Turrell, B. Berx, A. Gallego, S. Hughes, R. O'Hara-Murray, J. Sanchez , B. Pereira , A. Alonso-Martirena	HF Radar Supporting Blue Growth in NW Europe: The Brahan Project	HF Radar Supporting Blue Growth in NW Europe: The Brahan Project, Lisbon, 28-30 October 2014	
2014	Conference	Yes	Novellino, Antonio; Gorringe, Patrick; Schaap, Dick; Pouliquen, Sylvie; Rickards, Lesley; Manzella, Giuseppe	Knowledge base for growth and innovation in ocean economy: assembly and dissemination of marine data for seabed mapping - European Marine Observation Data Network - EMODnet Physics	EGU General Assembly 2014, held 27 April - 2 May, 2014 in Vienna, Austria, id.5765	EGU 2014
2014	Conference	Yes	Patrick Gorringe	Introducing the EuroGOOS HFR Task Team and EMODnet	European HFR meeting Monday 27th October 2014, Lisbon	EuroGOOS meeting
2015	Conference	Yes	Antonio Novellino; Paolo D'Angelo; Giacomo Benedetti; Giuseppe Manzella; Patrick Gorringe; Dick Schaap; Sylvie Pouliquen; Lesley Rickards	European marine observation data network — EMODnet physics	IEEE Conference Publications, 2015	OCEANS 2015 - Genova
2015	Conference	Yes	Manzella, Giuseppe M. R.; Novellino, Antonio; D'Angelo, Paolo; Gorringe, Patrick; Schaap, Dick; Pouliquen, Sylvie; Loubrieu, Thomas; Rickards, Lesley	European Marine Observation Data Network - EMODnet Physics	EGU General Assembly 2015, held 12-17 April, 2015 in Vienna, Austria. id.8417	EGU 2015
2015	Conference	Yes	Mader, Julien; Novellino, Antonio; Gorringe, Patrick; Griffa, Annalisa; Schulz-Stellenfleth, Johannes; Montero, Pedro; Montovani, Carlo; Ayensa, Garbi; Vila, Begoña; Rubio, Anna; Sagarminaga, Yolanda	European coordination for coastal HF radar data in EMODnet Physics	EGU General Assembly 2015, held 12-17 April, 2015 in Vienna, Austria. id.14714	EGU 2015
2015	Journal	No	A Aparicio-González, J L López-Jurado, R Balbín, J C Alonso, B Amengual, J Jansá, M C García, F Moyá, R Santiago, M Serra, M Vargas-Yáñez	IBAMAR DATABASE: FOUR DECADES OF SAMPLING ON THE WESTERN MEDITERRANEAN SEA	Data Science Journal, Volume 13, 27 January 2015	
2015	Journal	No	U Gräwe, M Naumann, V Mohrholz, H. Burchard	Anatomizing one of the largest saltwater inflows into the Baltic Sea in December 2014	Journal Geophysical Research, Volume 120, Issue 11 November 2015 Pages 7676–7697	

2016	Conference	No	Stefania Sparnocchia, Michela Martinelli, Srdjan Dobricic, Rajesh Nair, Alessandro Crise, Patrick Farcy, Glenn Nolan, Joaquin Tintorè	An interlinked coastal observatory network for Europe	Journal of Operational Oceanography . Volume 9, 2016 - Issue sup1: Operational Oceanography, Innovative Technologies and Applications. Pages s193-s201	Third Meeting of the Italian National Group for Operational Oceanography
2016	Conference	No	Bahamon, N., Ahumada-Sempoal, M.A., Bernardello, R., Aguzzi, J., Gordoa, A., Carreras, G., Velasquez, Z., Cruzado, A.	SEVEN YEARS OF MARINE ENVIRONMENTAL CHANGES MONITORING AT COASTAL OOCS STATIONS (CATALAN SEA, NW MEDITERRANEAN)	instrumentation viewpOint- 19 - MARTECH 16	MARTECH 2016
2016	Conference	No	A. Oliveira, J. Rogeiro, J.L. Gomes, P. Pinto, A. B. Fortunato, P. Freire, R. T., Costa, L. Sá, R. Pablo, A. Mendes	Plataforma integrada WebSIG para apoio à gestão da emergência em eventos de inundação em estuários	4as Jornadas de Engenharia Hidrográfica, Lisboa, 21 a 23 de junho de 2016	
2016	Conference	Yes	Novellino, Antonio; Benedetti, Giacomo; D'Angelo, Paolo; Gorringe, Patrick; Thjisse, Peter; Schaap, Dick; Pouliquen, Sylvie; Manzella, Giuseppe	EMODnet Physics: One-stop Portal to access Multiplatform Observing Systems	EGU General Assembly 2016, held 17-22 April, 2016 in Vienna Austria, p.3831	EGU 2016
2016	Conference	Yes	S. Goggi, G. Pardelli, R. Bartolini, F. Frontini, M. Monachini, G. Manzella, M. De Mattei and F. Bustaffa:	A semantic engine for grey literature retrieval in the oceanography domain.	Ed. D. Farace and J. Frantzen, 104 – 111, 2016;	Seventeenth International Conference on Grey Literature - A New Wave of Textual and Non-Textual Grey Literature. December 1st - 2nd 2015 at the Royal Netherlands Academy of Arts and Sciences in Amsterdam.
2016	Journal	No	Gisbert Breitbach, Hajo Krasemann, Daniel Behr, Steffen Beringer, Uwe Lange, Nhan Vo, and Friedhelm Schroeder	Accessing diverse data comprehensively – CODM, the COSYNA data portal	Ocean Sci., 12, 909–923, 2016	
2016	Journal	No	Manuel Ruiz-Villarreal, Luz M. García-García, Marcos Cobas, Patricio A. Díaz, Beatriz Reguera	Modelling the hydrodynamic conditions associated with *Dinophysis* blooms in Galicia (NW Spain)	Harmful Algae, Volume 53, March 2016, Pages 40–52	
2016	Journal	Yes	Jan-Bart Calewaert, Phil Weaver, Vikki Gunn, Patrick Gorringe, , Antonio Novellino	The European Marine Data and Observation Network (EMODnet): Your Gateway to	Ocean Engineering & Oceanography, Vol. 6, pp 31-46, 2016	

				European Marine and Coastal Data		
2016	Newsletter	Yes	S. POULIQUEN, T. CARVAL, D GUILLOTIN , C. COATANOAN, T. LOUBRIEU, C. GUYOT, K. BALEM, T. SZEKELY, J. GOURRION, A. GROUAZEL, K. VON SCHUCKMANN, H. WEDHE, L.S. RINGHEIM, T. HAMMARKLINT, A. HARTMAN, K. SOETJE, T. GIES, S. JANDT, L. MULLER, M. DE ALFONSO, F. MANZANO MUÑOZ, L. PERIVOLIOTIS, D. KASSIS, A. CHALKIOPOULOS, V. MARINOVA, P. JACCARD, A. LEDANG, K. SORENSEN, G. NOTARSTEFANO, J. TINTORE , S. KAITALA, P. ROIHA, L. A. LEDANG, K. SORENSEN, G. NOTARSTEFANO, J. TINTORE , S. KAITALA, P. ROIHA, L. RICKARDS, G. MANZELLA, F. RESEGHETTI	MAIN ACHIEVEMENTS FOR MYOCEAN IN SITU THEMATIC ASSEMBLY CENTER	MERCATOR OCEAN JOURNAL 54, 2016	
2016	Report	No	Carval Thierry, Chalkiopoulos Antonis, Perivoliotis Leonidas, De Alfonso Alonso-Muñoyerro Marta, Manzano Munoz Fernando, Jandt Simon, Ringheim Lid Sjur, Hammarklint Thomas, Marinova Veselka	System Requirements Document	CMEMS-INS-SRD	
2016	Report	Yes	Ifremer	Catalogue of data and platforms at Network GDAC level, including the example of Copernicus In Situ TAC	IFREMER IMN/IDM/ISI/TC/16-031, 30th May 2016	
2016	Report	Yes	V. Harscoat, S. Pouliquen	Data Management Handbook	AtlantOS – 633211, D7.4, 2016	EU Atlantos project
2016	Report	Yes	Pepijn de Vries, Jacqueline Tamis, Martine van den Heuvel-Greve, Peter Thijsse & Belinda Kater	Collecting literature for identifying data sets and data sources	IMARES Report C072/16	IMARES Wageningen UR, Den Helder, 14 July 2016
2017	Book chapter	Yes	G. Manzella, R. Bartolini, F.Bustaffa, P. D'Angelo, M. De Mattei, F. Frontini, M. Maltese, D. Medone, M. Monachini, A. Novellino and A. Spada:	Semantic Search Engine for Data Management and Sustainable Development: Marine Planning Service Platform.	Oceanographic and Marine Cross-Domain Data Management for Sustainable edited by P. Diviacco, A. Leadbetter, H. Glaves, IGI Global,	

2017	Journal	No	Christina Kalogeri, George Galanis, Christos Spyrou, Dimitris Diamantis, Foteini Baladima, Marika Koukoula, George Kallos	Assessing the European offshore wind and wave energy resource for combined exploitation	Renewable Energy, Volume 101, February 2017, Pages 244–264	
2017	Journal	Yes	Anna Rubio, Julien Mader, Lorenzo Corgnati, Carlo Mantovani, Annalisa Griffa, Antonio Novellino, Céline Quentin, Lucy Wyatt, Johannes Schulz-Stellenfleth, Jochen Horstmann, Pablo Lorente, Enrico Zambianchi, Michael Hartnett, Carlos Fernandes, Vassilis Zervakis, Patrick Gorringe, Angélique Melet and Ingrid Puillat	HF Radar Activity in European Coastal Seas: Next Steps toward a Pan-European HF Radar Network	Marine Sciemce, 20 January 2017	
2017	Conference	Yes	Novellino, Antonio; Gorringe, Patrick; Schaap, Dick; Pouliquen, Sylvie; Rickards, Lesley; Thijsse, Peter; Manzella, Giuseppe	EMODnet Physics in the EMODnet program phase 3	EGU General Assembly 2017, held 23-28 April, 2017 in Vienna, Austria. id.7113	
2017	Book chapter	No	Keiran Westley	Chapter 6: The Northwest Shelf.	Submerged Landscapes of the European Continental Shelf. Edited by Nicholas C. Flemming,Jan Harff,Delminda Moura,Anthony Burgess,Geoffrey N. Bailey	
2017	Conference	Yes	Schaap, Dick M. A.; Schmitt, Thierry	EMODnet High Resolution Seabed Mapping - further developing a high resolution digital bathymetry for European seas	EGU General Assembly 2017, held 23-28 April, 2017 in Vienna, Austria. id.194371S	

8. Annex

Description of the EMODnet Physics_TrimonthlyReport_XX (Excel File)

The EMODnet Physics portal makes available the following data type:

- **Latest data** → freely available up to 60 days (automatic quality check/flag procedures)
- **Recent data** → organized in monthly data files (post 60 days, automatic quality check/flag procedures[18], requires user registration)
- **Long Term time series data** → organized one data file for platform (automatic quality check/flag procedures, requires user registration)
- **Historical validated data** → organized in CDI - dataset files hosted by NODCs (validated data[19], requires user registration).

The following table lists the full data availability, in particular it lists the typology of platform (MO= mooring buoy/fixed platform; FB=ferrybox; GL= glider, DB = drifting buoy, AR = Argo), whether it is providing data (NRT true/false), recent data time coverage (from to) and number of files (if the first number is lower than the second there are temporal gaps in the monthly data files; if the first number is higher than the second the platform hosts different data acquisition sets – e.g. Arkona), long term time series files (from to), if there are historical validated data for that platform (CDI) in SeaDataNet-NODCs network (from to, and the number of available CDIs covering the specified time range).

Summary table of all the data (latest, recent, long term and validated historical) by Country, Organization, Platform type and Data availability

Column name	Description
Platform ID	EMODnet Physics internal code to identify the platform
Latitude	Latitude
Longitude	Longitude
Country	Country of the data provider
Data provider	Name of the data provider
EdmoCode	EDMO code of the data provider
EdmoDescr	EDMO full description
Platform	Platform name

[18] http://www.emodnet-physics.eu/map/ARH/QualityCheck/recommendations_for_rtqc_procedures_v1_2.pdf

[19] Validated according the SeaDatanet Quality Check procedure - http://www.seadatanet.org/content/download/18414/119624/file/SeaDataNet_QC_procedures_V2_%28May_2010%29.pdf

Type	Typology of the plaform (AR, DB, MO, GL, RD, FB, …)
Data assembly center	Name of the DAC
NODC	National Oceanographic Data Center or SeaDataNet node in charge for the CDIs
Recent data From - To	Time coverage of the Near Real Time data as aggregated in monthly files
Recent data #files	Number of NRT.Monthly files
Long term TS From - To	Time coverage of the REPROCESSED NRT data as aggregated in REP files
CDI dataset ID - validated historical data From - To	Time coverage of the CDIs for the specified platform
CDI dataset ID #files	Number of CDIs for the specified platform
State	EMODnet Physics Internal flag
Operational	Platform is delivering operational data? YES/NO
Water Temperature	X in the cell, if the platform is delivering the parameter
Water salinity	X in the cell, if the platform is delivering the parameter
Currents	X in the cell, if the platform is delivering the parameter
Light Attenuation/ Absorption / Fluorescence/ Back Scattering	X in the cell, if the platform is delivering the parameter
Sea Level	X in the cell, if the platform is delivering the parameter
Atmospheric	X in the cell, if the platform is delivering the parameter
Other Parameters	X in the cell, if the platform is delivering the parameter
Water conductivity/ BioGeoChemical	X in the cell, if the platform is delivering the parameter
Waves	X in the cell, if the platform is delivering the parameter
Winds	X in the cell, if the platform is delivering the parameter
River	X in the cell, if the platform is delivering the parameter

Where N.D. means that metadata or data is not available yet or it is under check procedure.
M: YY/XX → if YY = XX there are no temporal gaps in monthly time series

GeoServer Layers name

EMODnet Thematic Lot n° 03 - Physics
Trimonthly report 01

New	title	layer name	link
	PlatformAll	emodnet:PlatformAll	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformAll&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformArctic	emodnet:PlatformArctic	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformArctic&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformArgo	emodnet:PlatformArgo	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformArgo&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformAtlantic	emodnet:PlatformAtlantic	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformAtlantic&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformAtmosphere	emodnet:PlatformAtmosphere	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformAtmosphere&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformBaltic	emodnet:PlatformBaltic	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformBaltic&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformBlackSea	emodnet:PlatformBlackSea	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformBlackSea&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformChemical	emodnet:PlatformChemical	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformChemical&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformCurrents	emodnet:PlatformCurrents	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformCurrents&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformDriftBuoy	emodnet:PlatformDriftBuoy	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformDriftBuoy&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformFerrybox	emodnet:PlatformFerrybox	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformFerrybox&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformGlider	emodnet:PlatformGlider	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformGlider&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformGlobal	emodnet:PlatformGlobal	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformGlobal&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformJerico	emodnet:PlatformJerico	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformJerico&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformLightAttenuation	emodnet:PlatformLightAttenuation	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformLightAttenuation&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformMediterraneanSea	emodnet:PlatformMediterraneanSea	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformMediterraneanSea&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformMooring	emodnet:PlatformMooring	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformMooring&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

	PlatformNorthSea	emodnet:PlatformNorthSea	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformNorthSea&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformOtherParameters	emodnet:PlatformOtherParameters	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformOtherParameters&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformOtherSeaRegion	emodnet:PlatformOtherSeaRegion	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformOtherSeaRegion&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformOtherType	emodnet:PlatformOtherType	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformOtherType&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformProfiler	emodnet:PlatformProfiler	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformProfiler&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformRadar	emodnet:PlatformRadar	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformRadar&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	platforms_FB_LastDataPosition	emodnet:platforms_FB_LastDataPosition	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:platforms_FB_LastDataPosition&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	platforms_FB_LineS	emodnet:platforms_FB_LineS	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:platforms_FB_LineS&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	platforms_HF	emodnet:platforms_HF	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:platforms_HF&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformSeaLevel	emodnet:PlatformSeaLevel	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformSeaLevel&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformWater	emodnet:PlatformWater	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformWater&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformWaterTemperature	emodnet:PlatformWaterTemperature	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformWaterTemperature&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformWaves	emodnet:PlatformWaves	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformWaves&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PlatformWind	emodnet:PlatformWind	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PlatformWind&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
	PointColorMapFerryLastData	emodnet:PointColorMapFerryLastData	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PointColorMapFerryLastData&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

	PSMSL_Station	emodnet:PSMSL_Station	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:PSMSL_Station&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_7d	emodnet:route_ar_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_backscattering_60d	emodnet:route_ar_backscattering_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_backscattering_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_backscattering_7d	emodnet:route_ar_backscattering_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_backscattering_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_chlt_60d	emodnet:route_ar_chlt_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_chlt_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_chlt_7d	emodnet:route_ar_chlt_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_chlt_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_cndc_60d	emodnet:route_ar_cndc_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_cndc_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_cndc_adjusted_60d	emodnet:route_ar_cndc_adjusted_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_cndc_adjusted_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_data_mode_60d	emodnet:route_ar_data_mode_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_data_mode_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_data_mode_cora_60d	emodnet:route_ar_data_mode_cora_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_data_mode_cora_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_data_mode_cora_7d	emodnet:route_ar_data_mode_cora_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_data_mode_cora_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_dc_reference_60d	emodnet:route_ar_dc_reference_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_dc_reference_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_dc_reference_7d	emodnet:route_ar_dc_reference_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_dc_reference_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_direction_60d	emodnet:route_ar_direction_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_direction_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_dox1_60d	emodnet:route_ar_dox1_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_dox1_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_ar_dox1_7d	emodnet:route_ar_dox1_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_dox1_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_dox2_60d	emodnet:route_ar_dox2_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_dox2_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_dox2_7d	emodnet:route_ar_dox2_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_dox2_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_dox2_adjusted_60d	emodnet:route_ar_dox2_adjusted_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_dox2_adjusted_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_pres_60d	emodnet:route_ar_pres_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_pres_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_pres_7d	emodnet:route_ar_pres_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_pres_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_pres_adjusted_60d	emodnet:route_ar_pres_adjusted_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_pres_adjusted_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_pres_adjusted_7d	emodnet:route_ar_pres_adjusted_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_pres_adjusted_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_pres_adjusted_error_60d	emodnet:route_ar_pres_adjusted_error_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_pres_adjusted_error_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_psal_60d	emodnet:route_ar_psal_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_psal_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_psal_7d	emodnet:route_ar_psal_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_psal_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_psal_adjusted_60d	emodnet:route_ar_psal_adjusted_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_psal_adjusted_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_psal_adjusted_7d	emodnet:route_ar_psal_adjusted_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_psal_adjusted_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_psal_adjusted_error_60d	emodnet:route_ar_psal_adjusted_error_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_psal_adjusted_error_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_scattering_60d	emodnet:route_ar_scattering_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_scattering_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_ar_scattering_7d	emodnet:route_ar_scattering_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_scattering_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_t	emodnet:route_ar_t	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_t&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_temp_60d	emodnet:route_ar_temp_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_temp_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_temp_7d	emodnet:route_ar_temp_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_temp_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_temp_adjusted_60d	emodnet:route_ar_temp_adjusted_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_temp_adjusted_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_temp_adjusted_7d	emodnet:route_ar_temp_adjusted_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_temp_adjusted_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_temp_adjusted_error_60d	emodnet:route_ar_temp_adjusted_error_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_temp_adjusted_error_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_temp_doxy_60d	emodnet:route_ar_temp_doxy_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_temp_doxy_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_temp_doxy_7d	emodnet:route_ar_temp_doxy_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_temp_doxy_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_ar_vertical_sampling_scheme_60d	emodnet:route_ar_vertical_sampling_scheme_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_ar_vertical_sampling_scheme_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_7d	emodnet:route_db_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_atms_60d	emodnet:route_db_atms_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_atms_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_atms_7d	emodnet:route_db_atms_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_atms_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_dryt_60d	emodnet:route_db_dryt_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_dryt_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_dryt_7d	emodnet:route_db_dryt_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_dryt_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_db_ewct_60d	emodnet:route_db_ewct_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_ewct_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_ewct_7d	emodnet:route_db_ewct_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_ewct_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_hcdt_60d	emodnet:route_db_hcdt_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_hcdt_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_hcdt_7d	emodnet:route_db_hcdt_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_hcdt_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_hcsp_60d	emodnet:route_db_hcsp_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_hcsp_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_hcsp_7d	emodnet:route_db_hcsp_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_hcsp_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_hourly_rain_60d	emodnet:route_db_hourly_rain_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_hourly_rain_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_hourly_rain_7d	emodnet:route_db_hourly_rain_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_hourly_rain_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_last60days	emodnet:route_db_last60days	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_last60days&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_last7days	emodnet:route_db_last7days	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_last7days&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_nsct_60d	emodnet:route_db_nsct_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_nsct_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_nsct_7d	emodnet:route_db_nsct_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_nsct_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_pres_60d	emodnet:route_db_pres_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_pres_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_pres_7d	emodnet:route_db_pres_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_pres_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_psal_60d	emodnet:route_db_psal_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_psal_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_db_psal_7d	emodnet:route_db_psal_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_psal_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_relh_60d	emodnet:route_db_relh_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_relh_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_relh_7d	emodnet:route_db_relh_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_relh_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_sigma_theta_60d	emodnet:route_db_sigma_theta_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_sigma_theta_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_sigma_theta_7d	emodnet:route_db_sigma_theta_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_sigma_theta_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_sinc_60d	emodnet:route_db_sinc_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_sinc_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_sinc_7d	emodnet:route_db_sinc_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_sinc_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_swdr_60d	emodnet:route_db_swdr_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_swdr_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_swdr_7d	emodnet:route_db_swdr_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_swdr_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_swht_60d	emodnet:route_db_swht_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_swht_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_swht_7d	emodnet:route_db_swht_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_swht_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_t	emodnet:route_db_t	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_t&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_temp_60d	emodnet:route_db_temp_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_temp_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_temp_7d	emodnet:route_db_temp_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_temp_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_temp_7d1	emodnet:route_db_temp_7d1	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_temp_7d1&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_db_vghs_60d	emodnet:route_db_vghs_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_vghs_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_vghs_7d	emodnet:route_db_vghs_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_vghs_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wdir_60d	emodnet:route_db_wdir_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wdir_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wdir_7d	emodnet:route_db_wdir_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wdir_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wspd_60d	emodnet:route_db_wspd_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wspd_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wspd_7d	emodnet:route_db_wspd_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wspd_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wspe_60d	emodnet:route_db_wspe_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wspe_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wspe_7d	emodnet:route_db_wspe_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wspe_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wspn_60d	emodnet:route_db_wspn_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wspn_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wspn_7d	emodnet:route_db_wspn_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wspn_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wtodir_60d	emodnet:route_db_wtodir_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wtodir_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_db_wtodir_7d	emodnet:route_db_wtodir_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_db_wtodir_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_7d	emodnet:route_fb_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_atmp_60d	emodnet:route_fb_atmp_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_atmp_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_atmp_7d	emodnet:route_fb_atmp_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_atmp_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_fb_cdom_60d	emodnet:route_fb_cdom_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_cdom_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_cdom_7d	emodnet:route_fb_cdom_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_cdom_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_chlt_60d	emodnet:route_fb_chlt_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_chlt_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_chlt_7d	emodnet:route_fb_chlt_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_chlt_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_cndc_60d	emodnet:route_fb_cndc_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_cndc_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_cndc_7d	emodnet:route_fb_cndc_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_cndc_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_cphl_60d	emodnet:route_fb_cphl_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_cphl_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_cphl_7d	emodnet:route_fb_cphl_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_cphl_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_doxy_60d	emodnet:route_fb_doxy_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_doxy_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_doxy_7d	emodnet:route_fb_doxy_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_doxy_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_dryt_60d	emodnet:route_fb_dryt_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_dryt_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_dryt_7d	emodnet:route_fb_dryt_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_dryt_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_flu2_60d	emodnet:route_fb_flu2_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_flu2_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_flu2_7d	emodnet:route_fb_flu2_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_flu2_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_hcdt_60d	emodnet:route_fb_hcdt_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_hcdt_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_fb_hcdt_7d	emodnet:route_fb_hcdt_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_hcdt_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_hcsp_60d	emodnet:route_fb_hcsp_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_hcsp_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_hcsp_7d	emodnet:route_fb_hcsp_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_hcsp_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_osat_60d	emodnet:route_fb_osat_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_osat_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_osat_7d	emodnet:route_fb_osat_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_osat_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_phph_60d	emodnet:route_fb_phph_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_phph_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_phph_7d	emodnet:route_fb_phph_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_phph_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_psal_60d	emodnet:route_fb_psal_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_psal_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_psal_7d	emodnet:route_fb_psal_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_psal_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_relh_60d	emodnet:route_fb_relh_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_relh_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_relh_7d	emodnet:route_fb_relh_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_relh_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_ssjt_60d	emodnet:route_fb_ssjt_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_ssjt_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_ssjt_7d	emodnet:route_fb_ssjt_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_ssjt_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_svel_60d	emodnet:route_fb_svel_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_svel_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_svel_7d	emodnet:route_fb_svel_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_svel_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_fb_t	emodnet:route_fb_t	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_t&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_temp_60d	emodnet:route_fb_temp_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_temp_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_temp_7d	emodnet:route_fb_temp_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_temp_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_temp_doxy_60d	emodnet:route_fb_temp_doxy_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_temp_doxy_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_temp_doxy_7d	emodnet:route_fb_temp_doxy_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_temp_doxy_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_tur4_60d	emodnet:route_fb_tur4_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_tur4_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_tur4_7d	emodnet:route_fb_tur4_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_tur4_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_wdir_60d	emodnet:route_fb_wdir_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_wdir_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_wdir_7d	emodnet:route_fb_wdir_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_wdir_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_wspd_60d	emodnet:route_fb_wspd_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_wspd_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_fb_wspd_7d	emodnet:route_fb_wspd_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_fb_wspd_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_7d	emodnet:route_gl_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_bbp700_60d	emodnet:route_gl_bbp700_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_bbp700_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_bbp700_7d	emodnet:route_gl_bbp700_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_bbp700_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_cdom_60d	emodnet:route_gl_cdom_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_cdom_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_gl_cdom_7d	emodnet:route_gl_cdom_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_cdom_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_cndc_60d	emodnet:route_gl_cndc_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_cndc_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_cndc_7d	emodnet:route_gl_cndc_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_cndc_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_cphl_60d	emodnet:route_gl_cphl_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_cphl_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_cphl_7d	emodnet:route_gl_cphl_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_cphl_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_data_mode_60d	emodnet:route_gl_data_mode_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_data_mode_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_data_mode_cora_60d	emodnet:route_gl_data_mode_cora_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_data_mode_cora_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_data_mode_cora_7d	emodnet:route_gl_data_mode_cora_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_data_mode_cora_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_direction_60d	emodnet:route_gl_direction_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_direction_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_dox2_60d	emodnet:route_gl_dox2_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_dox2_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_dox2_7d	emodnet:route_gl_dox2_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_dox2_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_pres_60d	emodnet:route_gl_pres_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_pres_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_pres_7d	emodnet:route_gl_pres_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_pres_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_psal_60d	emodnet:route_gl_psal_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_psal_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_psal_7d	emodnet:route_gl_psal_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_psal_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers

new	route_gl_t	emodnet:route_gl_t	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_t&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_temp_60d	emodnet:route_gl_temp_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_temp_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_temp_7d	emodnet:route_gl_temp_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_temp_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_temp_doxy_60d	emodnet:route_gl_temp_doxy_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_temp_doxy_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_temp_doxy_7d	emodnet:route_gl_temp_doxy_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_temp_doxy_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_tur4_60d	emodnet:route_gl_tur4_60d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_tur4_60d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_gl_tur4_7d	emodnet:route_gl_tur4_7d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_gl_tur4_7d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_mm_pres_0d	emodnet:route_mm_pres_0d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_mm_pres_0d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_mm_psal_0d	emodnet:route_mm_psal_0d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_mm_psal_0d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_mm_t	emodnet:route_mm_t	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_mm_t&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_mm_temp_0d	emodnet:route_mm_temp_0d	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_mm_temp_0d&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_mm_temp_0d_date	emodnet:route_mm_temp_0d_date	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_mm_temp_0d_date&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers
new	route_mm_temp_0d_v3	emodnet:route_mm_temp_0d_v3	http://geoserver.emodnet-physics.eu/geoserver/emodnet/wms?service=WMS&version=1.1.0&request=GetMap&layers=emodnet:route_mm_temp_0d_v3&bbox=-90,-180,90,180&width=500&height=500&srs=EPSG:4326&format=application/openlayers