EMODnet Thematic Lot n° 06 - Physics

7th Bi-monthly Report

Reporting Period: 01/09/2014 – 31/10/2014

Date: 05/11/2014

Contents

1. Highlights in this reporting period

- *Release of the updated WFS service according EMSA requests*
- *Meeting with the NODCs network at the SeaDataNet Annual meeting*
- *Participation to the Pre-event EurOcean*
- *Testing the bidirectional machine-to-machine interoperability with ODP*
- *Participation to the EuroGOOS conference and co-organization of the HFRadar side meeting*

2. Meetings held since last report

The project officially started 24th July 2013.
List of the held meetings for the period September – October 2014

Meetings		
When	What	note
8-9 September	Annual Ferrybox Meeting, Tallin, Estonia	

Meetings with ROOSs		
When	What	note
28 August	EuroGOOS Board Meeting, Brussels, Belgium	Missing info in report 6
15– 7 september	NOOS Annual Meeting, Delft, Netherlands	

Dissemination		
When	What	note
16–18 June	JERICO Summer School, Delft, Netherlands	Oral presentation - Missing info in report 5
12 September	EMODnet presentation @SMHI, Sweden	Oral presentation
24 September	SeaDataNet Annual Meeting, Split, Croatia	Oral presentation
6 October	EMODnet pre-event EUROCEAN, Rome, Italy	Oral presentation
27 October	EuroGOOS - EMODnet HFR side event @ EuroGOOS conference	Organizer - Oral presentation
29 October	EMODnet Physics @ EuroGOOS conference	Oral presentation

Technical Meetings		
When	What	note
24-25 September	Progress technical meeting with ODP people	Defined the bidirectional interoperability interfaces
23-24 September	Progress technical meeting with BOOS and MONGOOS	
27 October	Progress technical meeting with EuroGOOS - EMODnet HFR group	

3.   Work package updates

WP1 – Project Management

Objectives:
- To manage and to coordinate all project activities, ensuring timely delivery and high quality of results and products

Further ROOSs activities were formalized and officially started in

- Baltic Sea Area in collaboration with MSI and SYKE

- North Sea Area in collaboration with BSH and HZG

The activities in collaboration with the ROOSs will eventually bring to higher quality data.

As planned to further push and promote the EMODnet Physics approach to National Oceanographic Data Centres, in collaboration with SeaDataNet, a specific session during next SeaDataNet Annual meeting (24th September Split, Croatia) was organized.

http://www.emodnet-physics.eu/Portal/single-element-view?return=meetings&moduleid=443&tabid=97&id=56

http://www.seadatanet.org/Events/Plenary-meetings/Third-Annual-Meeting

WP2 – Data Collection, Metadata Compilation and QA/QC

Objectives:
- To implement access to data and metadata from the data sources identified in EMODnet Physics
- To identify specific additional data sources that contribute to the EMODnet physical parameters portfolio (Argo profiling floats (Euro-Argo), gliders, radar, etc)
- To arrange that identified data sources become available *via* the underlying EuroGOOS ROOSes, MyOcean, and SeaDataNet infrastructures with common metadata and data formats. Arrange the data availability from other international programmes (Euro-Argo) through MyOcean *in situ* global component
- To validate the coverage and to complete the EDIOS metadata directory and standardised station index
- To establish and give guidance on common data and metadata models for complimentary data suppliers
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To better track the connection to new data sources (fixed platform, ferrybox, ARGO, glider, drifting buoy…) a new reporting tool[1] was designed and is under test (see WP4) which will help in identifying new providers and new platforms that are already available at e.g. GTS level.

The following table[2] shows the platforms that are providing parameters data time series on a daily base and that are available via the EMODnet Physics portal. Most of those platforms are also providing recent data (see Annex 1)

	drifting bouys (DB)	ferrybox (FB)	gliders (GL)	fixed buoys or mooring time series (MO)	profiling floats vertical profiles (PF)	Argo Floats (AR)	Total
Jul-Aug 2014	54	8	10	670	28	651	1421
Sep-Oct 2014	60	10	12	723	35	651	1491

The Sea Basin mapping was updated to Regional Seas (see WP4) and the system is now providing more detailed information about the position of the platform, the following table[3] provides the list of EMODnet Physics portfolio

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[1] http://www.emodnet-physics.eu/map/dashboard/ReservedAreaSection8.aspx
[2] http://www.emodnet-physics.eu/map/dashboard/Section3.aspx
[3] http://www.emodnet-physics.eu/map/dashboard/Section2.aspx

	Wave & Winds	Temp.	Salinity	Currents	Light Attenuation	Sea Level	Atmospheric	Others	Chemical	tot
Adriatic Sea	13	15	9	1	2	1	10	11	6	68
Aegean Sea	3	4	4	3	0	0	3	3	3	23
Alboran Sea	1	3	3	1	0	4	1	2	2	17
Andaman Or Burma Sea	2	1	0	0	0	0	2	0	2	7
Arabian Sea	5	71	39	4	1	0	29	48	5	202
Arafura Sea	0	3	0	0	0	0	0	0	0	3
Arctic Ocean	0	42	0	0	0	0	64	2	27	135
Baffin Bay	0	6	0	0	0	0	5	0	0	11
Balear Sea	5	7	6	4	1	8	5	3	6	45
Baltic Sea	13	15	8	4	5	46	6	2	8	107
Barents Sea	0	7	0	0	0	0	4	6	0	0	17
Bay Of Bengal	9	45	14	2	0	0	20	20	9	119
Bay Of Biscay	12	27	14	6	2	15	18	11	9	114
Beaufort Sea	0	7	0	0	0	0	20	0	10	37
Bering Sea	0	31	5	0	0	0	26	7	1	70
Bismarck Sea	0	0	0	0	0	0	0	1	0	1
Black Sea	0	18	13	0	0	2	4	15	2	54
Bristol Channel	0	1	0	0	0	6	1	0	0	8
Canarias Sea	4	135	84	2	0	7	16	74	7	329
Caribbean Sea	4	35	5	0	0	2	2	11	1	60
Celtic Sea	6	15	5	3	2	11	11	7	6	66
Chukchi Sea	0	17	0	0	0	0	26	1	8	52
Coastal Waters Of Great Barrier Reef	0	0	0	0	0	0	0	1	0	1
Coastal Waters Of Southeast Alaska And British Columbia	0	2	1	0	0	0	1	1	1	6
Coral Sea	0	24	19	0	0	1	1	42	1	88
Davis Strait	0	12	6	0	0	0	4	8	2	32
East China Sea	3	10	1	0	0	0	3	5	1	23
East Siberian Sea	0	1	0	0	0	0	1	0	0	2
English Channel	8	14	3	0	3	25	10	4	5	72

Great Australian Bight	0	1	0	0	0	0	1	0	0	2
Greenland Sea	0	20	15	0	0	0	4	21	7	67
Gulf Of Aden	0	6	1	0	0	0	4	4	0	15
Gulf Of Alaska	0	4	3	0	0	0	1	3	1	12
Gulf Of Bothnia	1	5	3	0	1	10	0	4	1	25
Gulf Of Finland	0	3	3	0	0	6	0	0	3	15
Gulf Of Guinea	0	7	4	0	0	0	1	9	0	21
Gulf Of Mannar	0	0	0	0	0	0	0	0	0	0
Gulf Of Mexico	0	27	6	0	0	0	0	13	0	46
Gulf Of Oman	0	9	3	2	0	0	0	3	0	17
Gulf Of Panama	0	1	0	0	0	0	0	0	0	1
Gulf Of Riga	0	0	0	0	0	6	0	0	0	6
Gulf Of Tartary	0	0	0	0	0	0	0	2	0	2
Gulf Of Thailand	0	2	0	0	0	0	0	0	0	2
Iceland Sea	0	34	4	0	0	0	12	6	2	58
Indian Ocean	11	600	319	8	1	1	285	477	32	1734
Inner Seas Off The West Coast Of Scotland	0	2	0	0	0	10	1	0	0	13
Ionian Sea	3	22	11	1	0	0	3	14	3	57
Irish Sea And St. George'S Channel	3	3	1	0	0	23	5	2	2	39
Java Sea	0	2	0	0	0	0	0	0	0	2
Joseph Bonaparte Gulf	0	1	0	0	0	0	0	0	0	1
Kara Sea	0	7	0	0	0	0	4	0	0	11
Labrador Sea	0	33	27	0	0	0	6	31	9	106
Lakshadweep Sea	5	15	3	1	0	0	10	4	5	43
Laptev Sea	0	2	0	0	0	0	2	0	0	4
Ligure Sea	5	6	2	0	1	2	4	2	1	23
Lincoln Sea	0	0	0	0	0	0	0	0	0	0
Makassar Strait	0	2	1	0	0	0	0	1	0	4
Maluku Sea	0	1	0	0	0	0	0	0	0	1
Mediterranean Sea, Eastern Basin	0	19	19	0	0	0	0	25	3	66
Mediterranean Sea, Western Basin	16	62	27	2	1	12	18	31	14	183
Mindanao Sea	0	0	0	0	0	0	0	0	0	0
Mozambique	0	10	6	0	0	1	4	7	0	28

Channel									
Natuna Sea	0	5	0	0	0	0	0	0	0	5
North Atlantic Ocean	35	2034	1563	10	3	34	217	1747	87	5730
North Greenland Sea	0	21	7	0	0	2	13	11	1	55
North Pacific Ocean	44	775	369	2	0	0	155	648	35	2028
North Sea	100	39	12	5	0	130	28	25	8	347
Northwestern Passages	0	1	0	0	0	0	2	0	0	3
Norwegian Sea	2	46	23	0	4	24	19	30	5	153
Other/Land	1	4	1	0	0	20	5	19	3	53
Persian Gulf	0	10	0	1	0	0	1	0	0	12
Philippine Sea	4	118	64	0	0	0	4	85	0	275
Red Sea	0	1	0	0	0	0	1	1	0	3
Sea Of Azov	0	1	1	0	0	0	0	1	0	3
Sea of Japan	10	31	16	0	0	0	10	64	10	141
Skagerrak	3	4	2	1	1	37	1	0	2	51
Solomon Sea	0	2	2	0	0	0	0	7	0	11
South Atlantic Ocean	12	433	197	3	3	0	192	256	21	1117
South China Sea	0	67	6	0	0	0	0	19	0	92
South Pacific Ocean	22	726	372	0	1	0	139	583	39	1882
Strait of Gibraltar	0	0	0	0	0	2	0	0	0	2
Strait Of Sicilia	1	1	0	0	0	0	1	0	0	3
Sulawesi Sea	0	1	0	0	0	0	0	1	0	2
Sulu Sea	0	4	0	0	0	0	0	1	0	5
Tasman Sea	0	63	37	0	0	0	18	49	1	168
The Great Belt	0	1	1	0	0	10	0	0	1	13
The Little Belt	0	0	0	0	0	4	0	0	0	4
The Sound	0	0	0	0	0	10	0	0	0	10
Timor Sea	0	5	0	0	0	0	0	0	0	5
Tirreno Sea	7	15	8	0	0	0	5	8	1	44
Yellow Sea	4	4	0	0	0	0	4	0	4	16
TOTAL	**377**	**5886**	**3378**	**66**	**32**	**476**	**1475**	**4493**	**423**	**16606**

The following tables give the present status of the EMODnet Physics portfolio per Sea Basin:

table	Wave & Winds	Temp.	Salinity	Currents	Light Attenuation	Sea Level	Atmospheric	Others	Chemical	
Artic, Barrents, Greenland, Norvegian Sea	2	247	60	0	4	30	204	86	63	696
Atlantic, Bay of Biscay, Celtic Sea	80	2664	1867	24	13	131	471	2101	137	7488
Baltic Sea	14	24	15	4	6	92	6	6	13	180
Black Sea	0	19	14	0	0	2	4	16	2	57
Global Ocean	124	2735	1319	20	3	25	711	2160	159	7256
Mediterranean Sea	54	154	89	12	5	29	50	99	39	531
North Sea	103	43	14	6	1	167	29	25	10	398
TOTAL	**377**	**5886**	**3378**	**66**	**32**	**476**	**1475**	**4493**	**423**	**16606**

Difference with previous period:

	Wave & Winds	Temp.	Salinity	Currents	Light Attenuation	Sea Level	Atmospheric	Others	Chemical	
Jun – Aug 2014	132	562	431	41	14	274	145	592	154	2345
Sep – Oct 2014	377	5886	3378	66	32	476	1475	4493	423	16606
difference	245	5324	2947	25	18	202	1330	3901	269	14261

Obviously the increase in the figure is due to the availability of new platforms type and the inclusion of seas from Global Oceans.

The integration of historical validated datasets under the SeaDataNet network of NODCs is still under test at: http://151.1.25.219/emodnet2cdi/

WP 3 Metadata aggregation, Data access and Data products

Objectives:

- To compile aggregated metadata with common format and quality for the EMODnet Physics portal
- To implement/create access to data sets and to compile aggregated data sets with common format and quality for the EMODnet Physics data products
- To generate products from the metadata and aggregated data sets

During the period the consortium kept working on testing and integrating the possibility to use a generic "openID" to provide basic user information and access data older than 60 days. The feature is under test and is already integrating the possibility to use Facebook, Twitter and Google+ to log in.
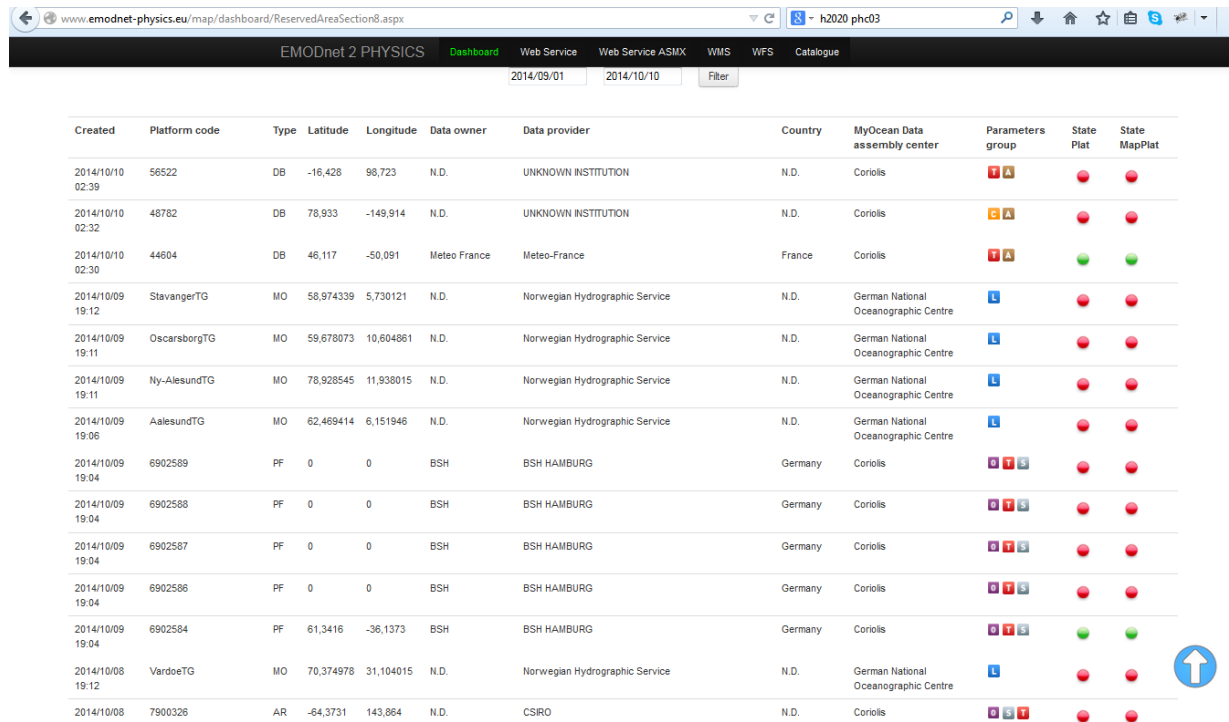
In parallel a new discussion with providers has started in order to open a free access to data older than 60 days.

WP 4 Portal technical development and operation

Objectives:

- To implement the existing EMODnet Physics website with new services
- To keep the website and portal services operational, including monitoring

During the period a new service (internal purpose) was developed to identify and connect new platforms and providers. The following figure shows an example of the report.
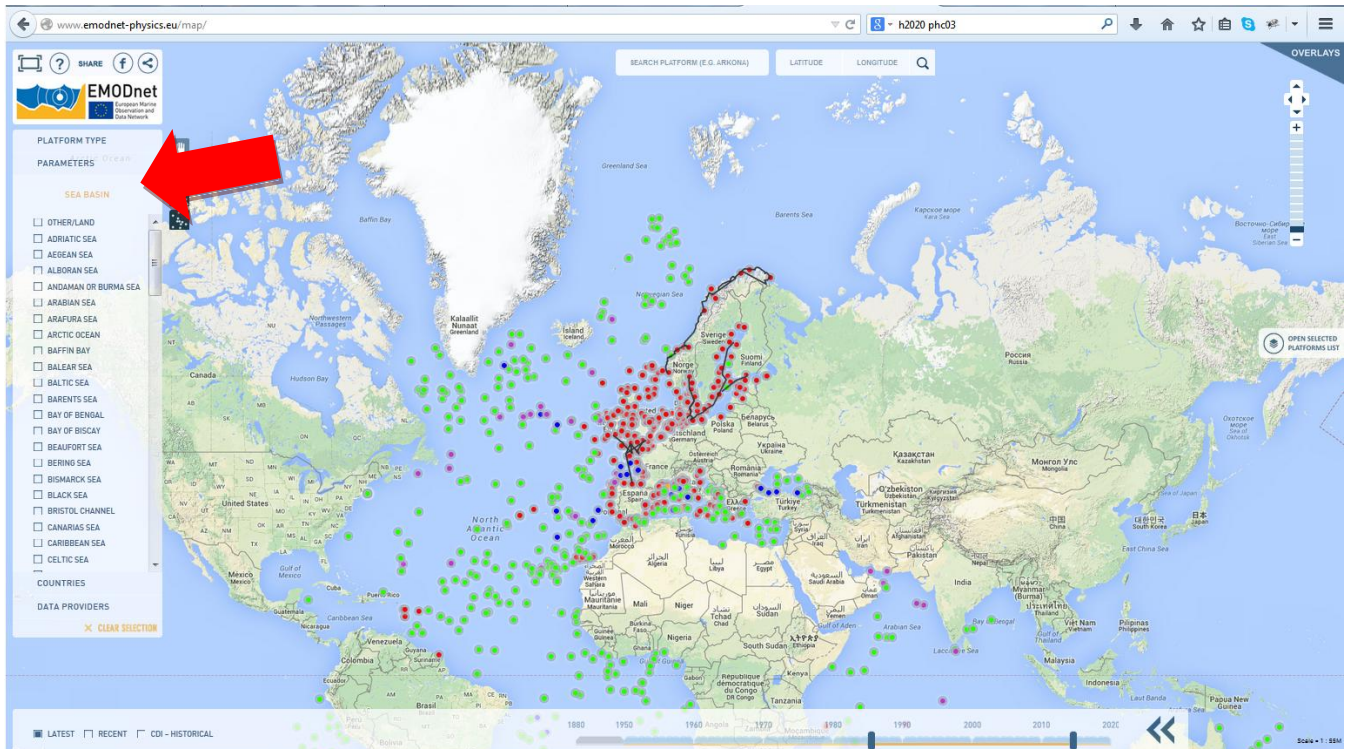

New platform discovery tool

The Sea Basins filter has been updated with more details.

Map page

Interoperability services for machine-to-machine interface were recently updated and released to fulfill EMSA requirements and establish a bidirectional interoperability with the Ocean Data Portal (ODP)[4]. Services are available at following links:

WEB SERVICES	→ http://www.emodnet-physics.eu/map/Service/WSEmodnet2.aspx
	→ http://www.emodnet-physics.eu/map/Service/WSEmodnet2.asmx
WMS SERVICE	→ http://www.emodnet-physics.eu/map/Service/DefaultWMS.aspx
WFS SERVICE[5]	→ http://www.emodnet-physics.eu/map/Service/DefaultWFS.aspx
WEB CATALOGUE	→ http://www.emodnet-physics.eu/map/Service/Catalog.aspx

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[4] The interoperability is under its test phase
[5] Updated with further "Features" to be compliant to EMSA requests and use

WP 5 Analysis, evaluation and feedback

Objectives:

- To report on the effectiveness of the system in meeting the needs of users and other EMODnet portals
- To analyse what further steps need to be taken for improvement, expansion and sustainability
- To assess the operationality of the EMODnet Physics portal Information System; Validate the services of the portal

The further development of the WFS services allowed EMSA to fully connect and use the EMODnet Physics data provision.

The SeaDataNet – EMODnet Physics special session opened an intense discussion about how to work as a unique marine community to make data and information available and let each contributor to benefit from the activities of the others.

4. Specific challenges or difficulties encountered during the reporting period

Nothing to be highlighted for the reporting period

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.

Date	Name	Organization	Type of user feedback (*e.g. technical, case study etc)*	Response time to address user request

The test case in collaboration with the EMSA (European Marine Safety Agency) in order to make EMODnet Physics data and metadata available and totally integrated into the EMSA internal data management system was concluded and EMSA fully integrated the EMODnet Physics WMS and WFS and web services into their internal system.

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 11 in Section 7.

Dissemination and outreach		
When	What	note
16–18 June	JERICO Summer School, Delft, Netherlands	Oral presentation - Missing info in report 5
12 September	EMODnet presentation @SMHI, Sweden	Oral presentation
24 September	SeaDataNet Annual Meeting, Split, Croatia	Oral presentation
6 October	EMODnet pre-event EUROCEAN, Rome, Italy	Oral presentation
27 October	EuroGOOS - EMODnet HFR side event @ EuroGOOS conference	Oral presentation
29 October	EMODnet Physics @ EuroGOOS conference	Oral presentation

Furthermore it was published an EMODnet Physics article on the Geomedia journal (Geomedia n.3 2014 pp.28-30 - Special Issue for Intergeo 2014). The paper is open and free readable at: *http://issuu.com/geomedia/docs/geomedia_3_2014_speciale_intergeo_i*

7.   Updates on Progress Indicators

The Physics portal provides data from different platforms with specific set of parameters which can be classified into different time periods:

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[6], 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[7], requires user registration).

The information for each of these types of information is summarized in the tables below each indicator listed.

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[6] http://www.emodnet-physics.eu/map/ARH/QualityCheck/recommendations_for_rtqc_procedures_v1_2.pdf
[7] 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 - Volume of data made available through the portal[8]

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

➔ see to Annex I

2. Summary of operational platforms by typology, Country, Organization[9]

Country	Data provider	fixed buoys or mooring time series (MO)	Ferrybox (FB)	drifting bouys (DB)	Gliders (GL)	profiling floats vertical profiles (PF)	Argo Floats (AR)
Belgium	MDK	3	0		0	0	0
Belgium	MUMM	11	0		0	0	0
Belgium	VMM	4	0		0	0	0
Bulgaria	IOBAS	1	0		0	0	6
Denmark	DaMSA	0	0		0	0	0
Denmark	DMI	36	0		0	2	0
Estonia	MSI	11	3		0	0	0
Finland	FMI	6	1		0	0	8
Finland	SYKE	0	0		0	0	0
France	CETMEF	17	0	2	0	0	0
France	ENSTA	0	0		1	0	0
France	IFREMER	12	0		0	11	191
France	INSU	0	0		3	0	0
France	IRD	0	0		0	0	66
France	LOCEAN	0	0		0	0	6
France	LOV	0	0		0	9	41
France	Meteo France	4	0	33	0	0	0
France	MIO	0	0		0	0	5
France	SBR	0	2		0	0	0
France	SHOM	49	0	26	0	0	15
Germany	AWI	0	0		0	1	36
Germany	BSH	76	0		0	18	128
Germany	HPA	1	0		0	0	0
Germany	HZG	2	2		0	0	0
Germany	IFM	0	0		6	0	13
Germany	KIELMS	0	0		0	0	7
Germany	WSAL	10	0		0	0	0

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[8] Databases connected to the system is the number of providers
[9] http://www.emodnet-physics.eu/map/Dashboard/Section5.aspx

Germany	WSAW	3	0		0	0	0
Germany	WSOB	1	0		0	0	0
Germany	WSOC	0	0		0	0	0
Germany	WSOE	5	0		0	0	0
Germany	WSOS	9	0		0	0	0
Germany	WSOT	7	0		0	0	0
Greece	HCMR	4	0		0	2	3
Ireland	Marine Institute	27	0		0	0	0
Ireland	MET	0	0		0	0	0
Ireland	NUIG	0	0		0	0	0
Italy	CMRE	0	0		0	0	0
Italy	CNRISSIA	1	0		0	0	0
Italy	ISMAR	7	0		0	0	0
Italy	ISPRA	18	0		0	0	0
Italy	OGS	5	0		0	3	41
Latvia	LEGMA	2	0		0	0	0
Lithuania	EPA	0	0		0	0	0
Netherlands	DELTARES	134	0		0	0	0
Netherlands	KNMI	0	0		0	0	36
Netherlands	RIKZ	0	0		0	0	0
NO COUNTRY	OILPLAT	23	0		0	0	0
Norway	CMR	1	0		0	0	0
Norway	IMR	0	0		0	1	10
Norway	METNO1	22	0	1	0	0	0
Norway	NHS	27	0		0	0	0
Norway	NIVA	0	2		0	0	0
Norway	NMA	0	0		0	0	0
Portugal	Instituto Hidrografico	8	0		0	0	0
Portugal	UAC	5	0		0	0	0
Romania	NIMRD	1	0		0	0	0
Russian Federation	NWAHEM	2	0		0	0	0
Slovenia	NIB	1	0		0	0	0
Spain	CEAB	1	0		0	0	0
Spain	ESEOO	0	0		0	0	0
Spain	Euskalmet	1	0		0	0	0
Spain	IEO	1	0		0	0	33
Spain	IMEDEA	0	0		2	0	0
Spain	PLOCAN	0	0		1	0	0
Spain	Puertos del Estado	46	0		0	0	0
Spain	UPC	1	0		0	0	0

Spain	Xunta Galicia	5	0		0	0	0
Sweden	SMHI	43	1		0	0	0
Turkey	IMS-METU	0	0		0	2	4
United Kingdom	BODC	5	0		0	0	0
United Kingdom	CEFAS	0	0		0	0	0
United Kingdom	NOC/METOFFICE	93	0		0	11	131
United Kingdom	UKM	6	0		0	0	0
United Kingdom	UKMO/MF	0	0		0	0	0

(http://www.emodnet-physics.eu/map/Dashboard/Section5.aspx)

Variation from the previous reporting period:

Country	Data provider	MO	FB	DB	GL	PF	AR
Belgium	MDK	0	0	0	0	0	0
Belgium	MUMM	0	0	0	0	0	0
Belgium	VMM	4	0	0	0	0	0
Bulgaria	IOBAS	0	0	0	0	0	0
Denmark	DaMSA	0	0	0	0	0	0
Denmark	DMI	2	0	0	0	0	0
Estonia	MSI	0	0	0	0	0	0
Finland	FMI	0	0	0	0	0	0
Finland	SYKE	0	0	0	0	0	0
France	CETMEF	0	0	0	0	0	0
France	ENSTA	0	0	0	1	0	0
France	IFREMER	0	0	0	0	5	1
France	INSU	0	0	0	0	0	0
France	IRD	0	0	0	0	0	0
France	LOCEAN	0	0	0	0	0	0
France	LOV	0	0	0	0	2	11
France	Meteo France	0	0	6	0	0	0
France	MIO	0	0	0	0	0	0
France	SBR	0	0	0	0	0	0
France	SHOM	0	0	1	0	0	0
Germany	AWI	0	0	0	0	0	0
Germany	BSH	1	0	0	0	15	0
Germany	HPA	0	0	0	0	0	0
Germany	HZG	2	2	0	0	0	0
Germany	IFM	0	0	0	0	0	0
Germany	KIELMS	0	0	0	0	0	7
Germany	WSAL	0	0	0	0	0	0
Germany	WSAW	0	0	0	0	0	0
Germany	WSOB	0	0	0	0	0	0
Germany	WSOC	0	0	0	0	0	0
Germany	WSOE	5	0	0	0	0	0
Germany	WSOS	0	0	0	0	0	0
Germany	WSOT	0	0	0	0	0	0
Greece	HCMR	0	0	0	0	2	0
Ireland	Marine Institute	0	0	0	0	0	0
Ireland	MET	0	0	0	0	0	0

Ireland	NUIG	0	0	0	0	0	0
Italy	CMRE	0	0	0	0	0	0
Italy	CNRISSIA	1	0	0	0	0	0
Italy	ISMAR	0	0	0	0	0	0
Italy	ISPRA	0	0	0	0	0	0
Italy	OGS	1	0	0	0	2	0
Latvia	LEGMA	0	0	0	0	0	0
Lithuania	EPA	0	0	0	0	0	0
Netherlands	DELTARES	6	0	0	0	0	0
Netherlands	KNMI	0	0	0	0	0	0
Netherlands	RIKZ	0	0	0	0	0	0
NO COUNTRY	OILPLAT	23	0	0	0	0	0
Norway	CMR	0	0	0	0	0	0
Norway	IMR	0	0	0	0	1	2
Norway	METNO	13	0	1	0	0	0
Norway	NHS	27	0	0	0	0	0
Norway	NIVA	0	0	0	0	0	0
Norway	NMA	0	0	0	0	0	0
Portugal	IH	4	0	0	0	0	0
Portugal	UAC	0	0	0	0	0	0
Romania	NIMRD	0	0	0	0	0	0
Russian Federation	NWAHEM	0	0	0	0	0	0
Slovenia	NIB	0	0	0	0	0	0
Spain	CEAB	1	0	0	0	0	0
Spain	ESEOO	0	0	0	0	0	0
Spain	Euskalmet	0	0	0	0	0	0
Spain	IEO	0	0	0	0	0	0
Spain	IMEDEA	0	0	0	1	0	0
Spain	PLOCAN	0	0	0	1	0	0
Spain	PdE	0	0	0	0	0	0
Spain	UPC	0	0	0	0	0	0
Spain	Xunta Galicia	0	0	0	0	0	0
Sweden	SMHI	15	0	0	0	0	0
Turkey	IMS-METU	0	0	0	0	0	0
United Kingdom	BODC	0	0	0	0	0	0
United Kingdom	CEFAS	0	0	0	0	0	0
United Kingdom	NOC/METOFFICE	1	0	0	0	0	2
United Kingdom	UKM	0	0	0	0	0	0
United Kingdom	UKMO/MF	0	0	0	0	0	0

3. Summary of the number of platforms measuring each parameter by Sea Basin

table[10]	Wave & Winds	Temp.	Salinity	Currents	Light Attenuation	Sea Level	Atmospheric	Others	Chemical	
Artic, Barrents, Greenland, Norvegian Sea	2	247	60	0	4	30	204	86	63	696
Atlantic, Bay of Biscay, Celtic Sea	80	2664	1867	24	13	131	471	2101	137	7488
Baltic Sea	14	24	15	4	6	92	6	6	13	180
Black Sea	0	19	14	0	0	2	4	16	2	57
Global Ocean	124	2735	1319	20	3	25	711	2160	159	7256
Mediterranean Sea	54	154	89	12	5	29	50	99	39	531
North Sea	103	43	14	6	1	167	29	25	10	398
TOTAL	**377**	**5886**	**3378**	**66**	**32**	**476**	**1475**	**4493**	**423**	**16606**

(*) platforms can measure multiple parameters

4. Summary of recent data availability (how much data in last month)
➔ See Annex II

5. Summary table of platforms linked to historically validated datasets.

There is not any update since last report. As already presented into the first annual interim report, for the past 6 months there was an increase in the metadata provision:

	number of platforms	number of datasets (CDIs)
metadata for the January- June 2014 period	864	11450
metadata before January 2014	828	10642
Variation	**+36**	**+808**

Those validated datasets are presented at http://151.1.25.219/emodnet2cdi
The accessibility and download of those data is mediated by SeaDataNet infrastructure.

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[10] http://www.emodnet-physics.eu/map/Dashboard/Section2searegion.aspx

Indicator 2 – Organizations supplying each data type[11]

➔ See Indicator 1.1

Indicator 3 – Organization that have been approached to supply data

All the attenders to the SeaDataNet Annual Conference.
http://www.seadatanet.org/Events/Plenary-meetings/Third-Annual-Meeting/Presentations

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[11] Groups partner involved in the EMODnet Physics project are different from groups hosting and providing data from the same institute: all contributors are "non" partners.
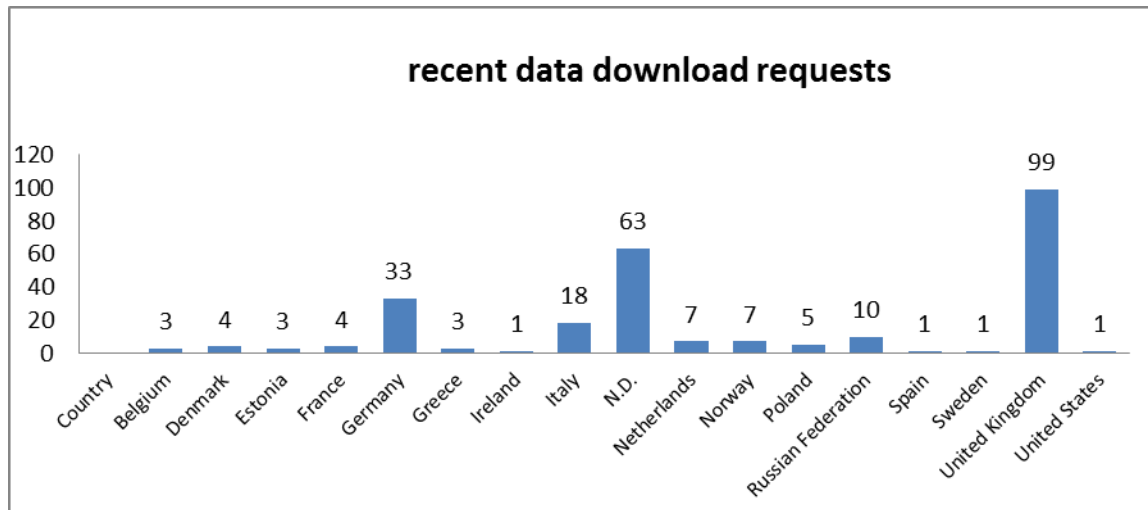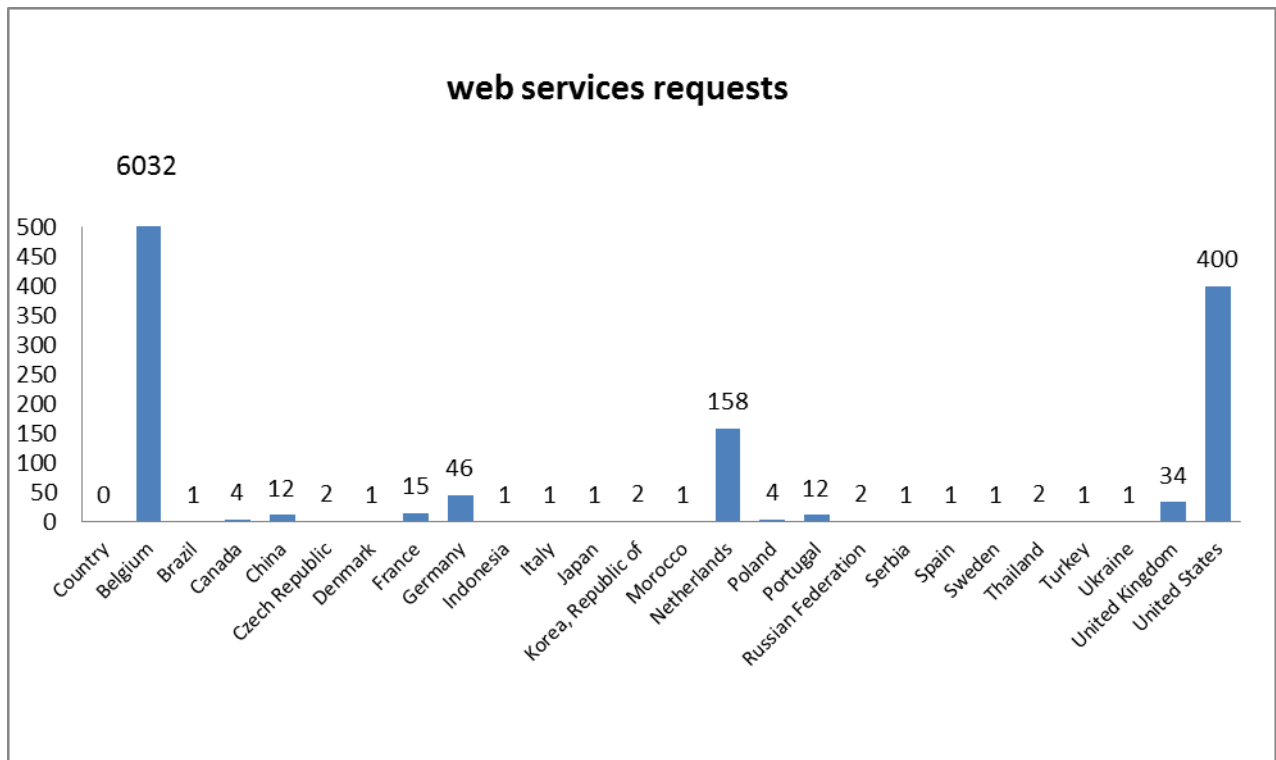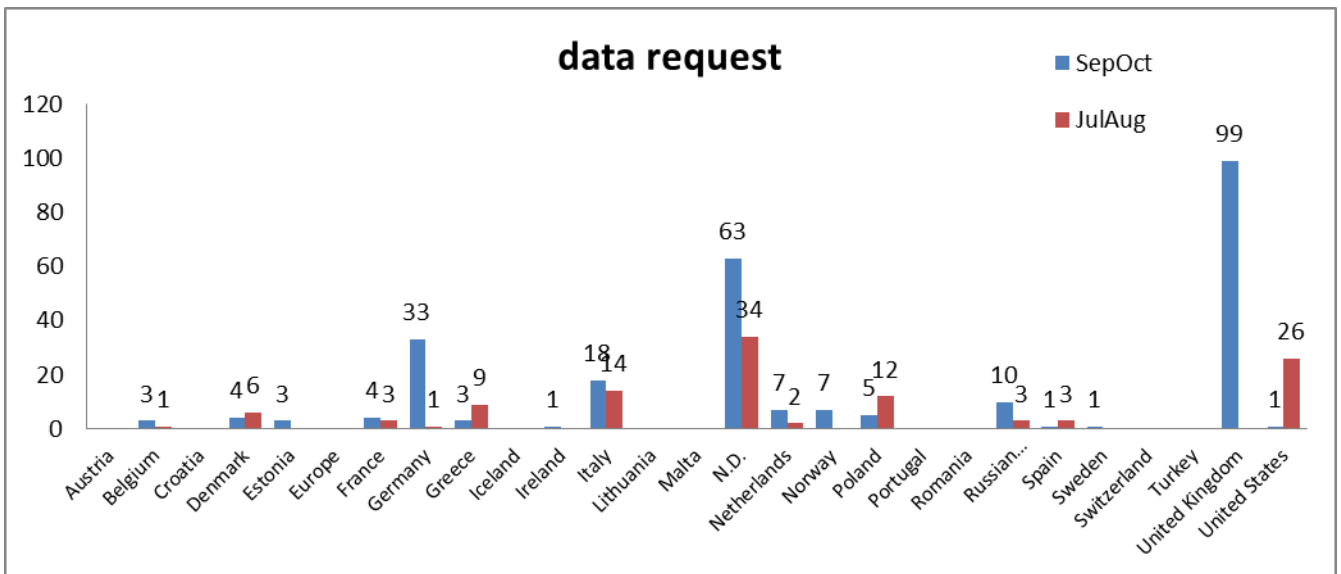
Figure for the period September to October 2014. Data is extracted from IPs where the ETT IP is filtered out. Web Service data request maybe a single platform or a list of platforms, for one day or more.

Variation from previous period

2. *Summary of data download requests*

The figure for the period September to October 2014 is not available as the procedure for extracting has yet to be updated according the new sea basins mapping.

3. *Most downloaded platforms[13]*

platform	Download	Web service	Total
FMLW	0	4647	4647
Roscoff	0	4612	4612
RoscoffTG	0	4611	4611
62068	0	4607	4607
Westhinder	1	1475	1476
Millport	0	1365	1365
MillportTG	0	1365	1365
62091	0	1264	1264
62094	4	487	491
41702	0	275	275
62305	1	178	179
62142	0	136	136
K13a3	1	71	72
13130	0	70	70
K13a	2	67	69
K13a2	1	67	68
K13Alpha	1	67	68
Howth	0	56	56
HowthTG	0	56	56
Portrush	0	46	46
PortrushTG	0	46	46
Europlatform	1	44	45
Europlatform2	1	44	45
Europlatform3	1	44	45
EuroplatformTG	1	44	45
Workington	0	43	43
WorkingtonTG	0	43	43
CherbourgTG	0	39	39
Cherbourg	0	39	39
62059	0	39	39
Fishguard	0	37	37

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

FishguardTG	0	37	37
DublinPort	0	37	37
DublinPortTG	0	37	37
EurogeulDWE	1	35	36
Portpatrick	0	35	35
PortpatrickTG	0	35	35
MalinHeadTG	0	35	35
DieppeTG	1	33	34
MalinHead	0	34	34
62103	2	31	33
K141	1	31	32
62301	0	31	31
ADN-MAMBO1	0	31	31

Most downloaded platforms in September – October 2014

The figure is indicating a data request. It is interesting to note that while manual download are limited the use of web services (machine-to-machine) is increasing faster and faster

4. *Validated historical data (6 monthly basis)*14

Number of requested CDIs by how many users from different data centers over a given time period →

As already presented into the first annual interim report, for the past 6 months there was an increase in the metadata provision (the number of requested dataset is not available):

	number of platforms	number of datasets (CDIs)
metadata for the January- June 2014 period	864	11450
metadata before January 2014	828	10642
Variation	**+36**	**+808**

→ See Indicator 5.2

5. *Historical data*

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14 Actions for downloading of data sets are registered in SeaDataNet Request Status Manager (RSM) which allows for reporting (in terms of statistics)

The EMODnet Physics is also providing some re-grouped and reanalyzed historical dataset. These datasets are not validated according the very detailed procedure defined within the NODCs network, and they consists of packages of data that from near real time delivery are grouped into one file for a certain time period.
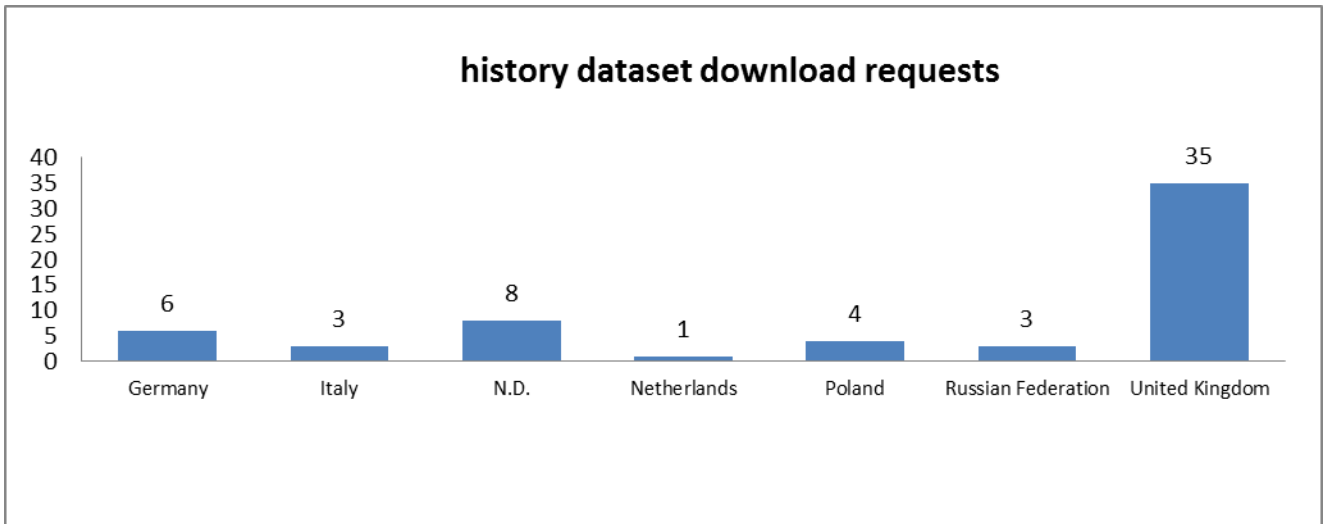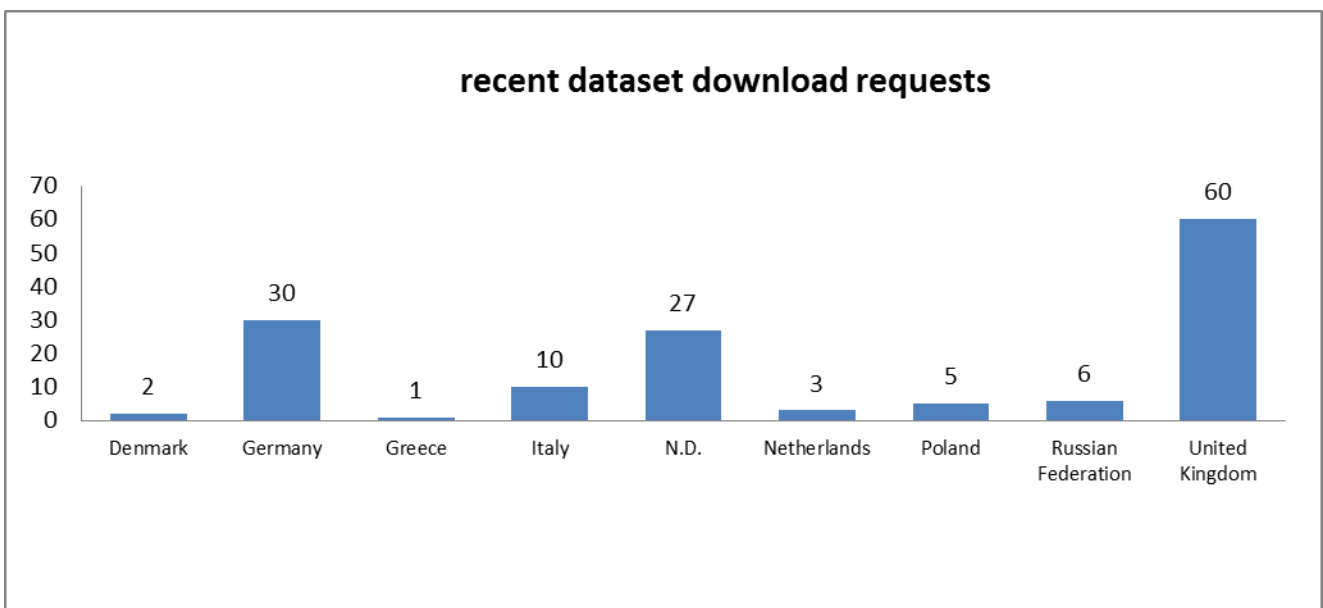

Figure in September – October 2014

Indicator 5 – Organization that have downloaded each data type

1. Recent data[15]

→ See Indicator 4.1

6. historical data:
- *Number of requested CDIs by user organizations that have requested and downloaded dataset* → Not available
- *Number of requested datasets older than 60 day[16]s*

The figure above reports the number of requests for data older than 60days (it includes indicator 4.5). To note that some platforms provide data for past 10 years (see Annex I), some others for a few years. The reported number only indicates how many data requests have been received and each data request could be for one specific dataset (e.g. a month) of one platform or for the full data availability (all platforms any available data).

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[15] Latest 60 days are free available to any user, the portal can track up to the IP which the request comes from.

[16] http://www.emodnet-physics.eu/map/dashboard/ReservedAreaSection4.aspx

Indicator 6 – Using user statistics to determine the main pages utilized and to identify data products being used

1. *Monthly portal views as reported by Google Analytics*

Portal	Visits	visit duration (average)	Page views	New visitors	New visitors %
June 2013	325	03:51	740	190	58%
July 2013	284	02:01	466	185	65%
August 2013	242	02:26	486	143	59%
September 2013	280	01:29	458	192	69%
October 2013	385	02:21	783	270	70%
November 2013	355	02:26	688	260	73%
December 2013	311	02:42	658	211	68%
January 2014	272	01:57	505	166	61%
February 2014	377	04:00	1007	191	50%
March 2014	342	02:06	686	191	56%
April 2014 (1st-18th)*	210	02:35	465	115	55%
April 2014 (18th-30th)	124	06:38	627	64	51%
May 2014	579	05:33	2014	191	33%
June 2014	282	03:49	685	155	57%
July 2014	188	01:40	347	110	58%
August 2014	190	01:55	492	105	55%
September 2014	280	03:02	705	160	67%
October 2014	280	02:54	693	133	65%

(*) 18th April the new EMODnet Physics landing portal was published

Map Page	Visits	visit duration (average)	Page views	New visitors	new visitors %
November 2013	247	09:41	1210	42	17%
December 2013	263	11:37	1520	55	21%
January 2014	345	10:20	1671	38	11%
February 2014	426	08:38	2031	130	31%
March 2014	502	06:29	2005	176	35%
April 2014	440	06:27	1452	162	36%
May 2014	582	05:32	2040	193	33%
June 2014	534	05:37	2102	188	39%
July 2014	432	08:31	2724	128	30%
August 2014	334	07:20	2514	102	33%
September 2014	554	06:36	3869	158	31%
October 2014	442	07:42	4533	136	31%

(map page was not monitored before November)

2. *Demography and Location of visitors*

Location of Visitors for the period September 2014 to October 2014 (ETT accesses are not filtered out)

Table A – landing page visitors

	location	Session	% new session	New users	Bounce rate	Pages / session	av. Session Duration
1.	en-us	169(30.12%)	62.13%	105(35.71%)	70.41%	1.95	00:02:27
2.	it	80(14.26%)	28.75%	23(7.82%)	47.50%	5.51	00:05:03
3.	it-it	70(12.48%)	34.29%	24(8.16%)	65.71%	1.93	00:02:44
4.	en-gb	36(6.42%)	50.00%	18(6.12%)	72.22%	2.17	00:02:45
5.	sv	26(4.63%)	0.00%	0(0.00%)	46.15%	2.50	00:03:13
6.	pt-br	25(4.46%)	100.00%	25(8.50%)	100.00%	1.00	00:00:00
7.	fr	23(4.10%)	73.91%	17(5.78%)	39.13%	4.00	00:05:45
8.	es	17(3.03%)	41.18%	7(2.38%)	64.71%	1.76	00:01:16
9.	nl	16(2.85%)	43.75%	7(2.38%)	62.50%	1.81	00:02:23
10.	es-es	14(2.50%)	57.14%	8(2.72%)	85.71%	1.36	00:03:04
11.	ru	8(1.43%)	62.50%	5(1.70%)	37.50%	2.50	00:06:09
12.	de	7(1.25%)	57.14%	4(1.36%)	71.43%	2.29	00:02:01
13.	pt-pt	7(1.25%)	100.00%	7(2.38%)	100.00%	1.00	00:00:00
14.	nl-be	6(1.07%)	0.00%	0(0.00%)	66.67%	3.17	00:11:36
15.	pl	6(1.07%)	50.00%	3(1.02%)	50.00%	2.67	00:06:38
16.	sv-se	6(1.07%)	66.67%	4(1.36%)	66.67%	1.33	00:00:01
17.	el-gr	5(0.89%)	80.00%	4(1.36%)	80.00%	2.20	00:05:03
18.	de-de	4(0.71%)	100.00%	4(1.36%)	75.00%	1.25	00:00:17
19.	fr-fr	4(0.71%)	75.00%	3(1.02%)	100.00%	1.00	00:00:00

Table B – map page visitors

	location	Session	% new session	New users	Bounce rate	Pages / session	av. Session Duration
		998	29.46%	294	28.66%	8.46	00:07:08
1.	it	283(28.36%)	7.07%	20(6.80%)	16.96%	8.45	00:12:15
2.	en-us	230(23.05%)	47.39%	109(37.07%)	30.87%	8.67	00:04:51
3.	it-it	210(21.04%)	12.86%	27(9.18%)	41.43%	5.77	00:04:51
4.	en-gb	50(5.01%)	40.00%	20(6.80%)	28.00%	17.64	00:07:05
5.	fr	38(3.81%)	57.89%	22(7.48%)	44.74%	7.50	00:04:42
6.	de	28(2.81%)	35.71%	10(3.40%)	17.86%	13.86	00:09:17
7.	es	25(2.51%)	44.00%	11(3.74%)	8.00%	8.16	00:04:48
8.	nl	22(2.20%)	54.55%	12(4.08%)	18.18%	6.50	00:05:02
9.	es-es	19(1.90%)	68.42%	13(4.42%)	15.79%	12.89	00:04:58
10.	sv	13(1.30%)	7.69%	1(0.34%)	38.46%	5.92	00:04:23
11.	ru	10(1.00%)	40.00%	4(1.36%)	20.00%	11.10	00:09:42
12.	fr-fr	9(0.90%)	33.33%	3(1.02%)	33.33%	4.89	00:04:33
13.	nl-be	7(0.70%)	0.00%	0(0.00%)	28.57%	7.00	00:06:12
14.	sv-se	5(0.50%)	40.00%	2(0.68%)	0.00%	7.40	00:00:46
15.	de-de	4(0.40%)	100.00%	4(1.36%)	25.00%	3.25	00:00:56
16.	en	4(0.40%)	100.00%	4(1.36%)	50.00%	9.25	00:00:51
17.	da	3(0.30%)	66.67%	2(0.68%)	33.33%	4.00	00:00:55
18.	da-dk	3(0.30%)	66.67%	2(0.68%)	33.33%	10.00	00:05:18
19.	gl-gl	3(0.30%)	33.33%	1(0.34%)	0.00%	15.67	00:08:04

Annex I

Indicator 1 - Volume of data made available through the portal[17]

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 operational and provides data on daily base (NRT on/off), 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.

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[17] Description:

(NRT) 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[17], requires user registration)
Long Term time series (TS) 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[17], requires user registration).

[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

1. *Summary table of all the data (latest, recent, long term and validated historical) by Country, Organization, Platform type and Data availability[20]*

Country	Data provider	Platform	Type	Recent data From to	Recent data #files	Long term TS from to	CDI dataset ID – validated historical data	NRT on/off

See the ExcelFile – "EMODnetPhysics_Annex_JulyAugust2014"

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

Annex II

The following table indicates how much data was delivered by each platform, if the value is lower than 60 it means that there are gaps into the data platform temporal time series.

Number of daily files per platform in the last month[21]

Country	Data provider	Platform code	Number of daily files in last two solar month (last updated/mm/yyyy)

See the ExcelFile – "EMODnetPhysics_Annex_SeptemberOctober2014"

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[20] http://www.emodnet-physics.eu/map/Dashboard/Section1.aspx

[21] each platform delivers data on daily base which is added to a daily file, after one month the daily files are reorganized and grouped in a monthly file.
http://www.emodnet-physics.eu/map/Dashboard/Section13.aspx

Organizations Acronym

AWI	AWI - The Alfred Wegener Institute
BODC	BODC - British Oceanographic Data Centre
BSH	BSH - Bundesamt für Seeschifffahrt und Hydrographie - Germany
CEFAS	CEFAS - Centre for Environment, Fisheries & Aquaculture Science - UK
CETMEF	CETMEF - Centre d'etudes techniques maritimes et fluviales - France
CMRE	CMRE - Centre for Maritime Research and Experimentation
DaMSA	DaMSA - Danish Maritime Safety Administration - Denmark
DELTARES	Deltares - Nederland
DMI	DMI - Danmarks Meteorologiske Institut - Denmark
EPA	EPA - Environmental Protection Agency, Department of Marine Research - Lithuania
Euskalmet	Euskalmet- Basque Goverment - Spain
FMI	FMI - Finnish Meteorological Institute - Finland
HCMR	HCMR - Hellenic Centre for Marine Research - Greece
IEO	IEO - Instituto Espanol de Oceanografia - Spain
IFM	IFM - Institute of Oceanography, University of Hamburg
IFREMER	IFREMER - Institute Francais de Recherche pour l'Exploitation de la Mer - France
IMEDEA	IMEDEA - Mediterranean Institute for Advanced Studies
IMR	IMR - Institute of Marine Research in Norway
IMS-METU	IMSMETU - Middle East Technical University - Institute of Marine Sciences
Instituto Hidrografico	Instituto Hidrografico - Portugal
INSU	INSU - Institut National des Sciences de l'Univers
IOBAS	IOBAS - Institude of Oceanology - Bulgarian Academy of Science - Bulgaria
IRD	IRD - L'Institut de recherche pour le développement - France
ISMAR	ISMAR - Istituto di Scienze Marine - Italy
ISPRA	ISPRA - Istituto Superiore per la Protezione e la Ricerca Ambientale - Italy
KNMI	KNMI - Koninklijk Nederlands Meteorolologisch Instituut - Netherlands
LEGMA	LEGMA - Latvian Environment, Geology and Meteorology Agency - Latvia
LOCEAN	LOCEAN - Laboratoire d'Oceanographie et du Climat
LOV	LOV - Laboratoire Oceanographique de Villefranche
Marine Institute	Marine Institute - Ireland
MDK	MDK - Maritieme Dienstverlening en Kust - Belgium
MET	MET éireann - Irish Meterological Service - Ireland
Meteo France	Meteo France - France
METNO	MetNo - Norwegian Meteorological Institute - Norway
MIO	MIO - Mediterranean Institute of Oceanography
MSI	MSI - Marine Systems Institute - Estonia
MUMM	MUMM - Management Unit of the North Sea Mathematical Models - Belgium

NHS	NHS - Norwegian Hydrographic Service - Norway
NIB	NIB - National Institute of Biology
NIMRD	NIMRD - National Institute for Marine Research and Development
NIVA	NIVA - Norsk Institutt for Vannforskning
NMA	NMA - Norwegian Mapping Authority - Norway
NOC/METOFFICE	NOC - National Oceanography Centre Southampton - UK
NWAHEM	NWAHEM - North-West Regional Administration for Hydrometeorology and Environmental Monitoring - Russia
OGS	OGS - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale - Italy
OILPLAT	Oil Platform - Private Industry
PdE	Puertos del Estado - Spain
RIKZ	RIKZ - Rijkswaterstaat – Netherlands
SBR	SBR - Station Biologique de Roscoff
SHOM	SHOM - Service Hydrografique et Oceanographique de la marine - France
SMHI	SMHI - Swedish Meteorological and Hydrographic Institute – Sweden
SYKE	SYKE - Finnish Environment Institute
UAC	UAC - Universidade dos Açores
UKM	UKM - United Kingdom Recent Marine Data - UK
UKMO/MF	UKMO/MF - Met Office/Meteo France - UK/France
UPC	Universitat Politecnica de Catalunya
WSAL	Waterways and Shipping Authority Lubeck
WSAW	Waterways and Shipping Authority Wilhelmshaven
WSOB	Waterways and Shipping Office Bremerhaven
WSOS	Waterways and Shipping Office Stralsund
WSOT	Waterways and Shipping Office Toenning
Xunta Galicia	Xunta Galicia - Spain