EMODnet Thematic Lot n° 7 - Human Activities

8th Bi-monthly Report

Reporting Period: 15/01/2015 – 04/03/2015

Date: 04/03/2015

Contents

1.Highlights in this reporting period

- A conference call with key stakeholders was organised on 16 January 2015

- Human Activities attended the EMODnet-MSFD coordination meeting

- Two new datasets made available to view and download: 'Fish Catches' and 'Telecom Cables'

2. Meetings held since last report

16/1/2015: Conference call with key stakeholders that expressed their interest in the project.

27/2/2015: EMODnet – MSFD Coordination meeting in Brussels.

3. Work package updates

WP 1 – Project Management

A conference call with key stakeholders was organised on 16 January 2015. Several suggestions were put forward, and will be implemented over the next few months, e.g.:

- Map areas used for military purposes (actually, we're already trying to do so, but we haven't had much luck).

- Try to include officially designated shipping routes

- Provide better information on data updates: make it easier to identify what's changed.

- Be in touch with OSPAR to improve current information on certain data themes (dredging, ammunitions, etc.), based on their data. The same goes with Helcom.

- Organise a meeting in Ispra with the JRC

- Liaise with Helcom to establish (where possible) WFS data transmission

- Explore the feasibility to include new data themes such as Carbon Capture & Storage, natural gas storage, recreational areas / tourism

- Waste disposal: include tonnage of waste in the information provided

- Explore forms of cooperation with ADRIPLAN

- Participate in the EMODnet – MSFD coordination meeting (a meeting then took place in Brussels on 27/2/2015)

WP 2 – Development of the portal and maintenance

Progress:

- Two new datasets made available to view and download: 'Fish Catches' and 'Telecom Cables'. Telecom cables includes three different layers. Landing stations, schematic routes and actual cable route locations (partial coverage).
- Update to 'Shellfish Production' layer.
- Test output of WFS in JSON format, as requested by VLIZ.
- Harmonization updates.

Next Steps:

- Update port data.
- Allow ports & fish catches to be served as WFS (e.g. by restricting attributes).
- Further configuration of WFS output.
- New data will be replaced/added as it becomes available.

- Ideas to investigate include: dataset filtering by attribute; 'map share' functionality (sharing a URL that stores extents and visible layers).

WP 3 – Data collection (All)

Aggregate extraction

We collected data on dumping of wastes from OSPAR. Data is being analysed in order to distinguish "Sea" dredging (that could be more related with aggregate extractions) form "harbour" or "estuary" dredging (considered as dredging activities).

Commercial shipping, recreational shipping

DG MARE were invited by DG-MOVE to discuss MARE's request for ship tracking data (coastal AIS) in order to map shipping and fishing activity. DG MOVE understood perfectly the need for such data for applications such as spatial planning. However, the request arrived at EMSA too late to be presented to Member States in December 2014. The next opportunity will be June 2015. Meanwhile EMSA will contact MARE to discuss technical details as to how the data could be provided.

Cultural heritage

Answers from the two identified data providers are still pending.

New contacts are planned during the second week of March :

- With Dr Hauke Jöns (SPLASCHOCS) and Dick Schaap (MARIS project). Hauke Jöns was supposed to inform us as soon as the primary version of the Splashcos-Viewer is launched at the GEOSeas-platform , so that we can start the discussion with Dick Schaap and the MARIS-people about the technical details of the exchange.
- With the project manager of the MACHU project (maritime archaeology), Dr Johan Opdebeeck.

Dredging

We collected data on dumping of wastes from OSPAR, which includes the origin, amount per year (in tonnes) and end-use of the dredged material in the OSPAR maritime area. It will take some time to process the amount of data downloaded.

Greece (University of Athens), Italy (Istituto Superiore per la Protezione e la Ricerca Ambientale) and some Spanish Autonomic Ports have been contacted, but only the contacted person from the Basque Ports answered and allowed us to include their data in our database.

Hydrocarbon extraction

Data are being updated. So far updates have been collected for the following countries:

- Germany
- Italy
- Netherlands
- Norway
- UK

The Federal Maritime and Hydrographic Agency in German has been replaced as a data source for Hydrocarbon Extraction. The State Authority for Mining, Energy and Geology is the new source. The reason for replacement is that the Hydrographic Agency was providing us with data on platforms, while all other sources provide data on boreholes. The new source has data on boreholes.

In addition, we are also collecting data on hydrocarbon licensing blocks. So far data for the following countries have been collected:

- Croatia
- Denmark
- Germany
- Ireland
- Italy
- Netherlands
- Norway

Mariculture

Main facts concerning data collection on mariculture during January-February are as follows.

- A new dataset has been collected concerning mariculture sites in Northern Ireland
- A positive answer has been received (January 26) from the Spanish authority (MAGRAMA) for sending us soon (not yet received) an updated database on Spanish mariculture sites. Moreover, MAGRAMA has planned to update their database before summer 2015 and to make it available for our project;
- Danish authorities have provided indications on the coordinates system used for locating mariculture sites, allowing us to begin processing data from the Danish sanitary register;
- People in charge of the French sanitary register of aquaculture sites have been contacted. They confirmed that coordinates of sites will be available for finfish farms but not for all shellfish farms. Datasets have not been yet received.
- Analysis of sanitary registers of Poland and Baltic States allowed to conclude that very few mariculture farms are operated in the Baltic Sea.

Ocean energy facilities

We collected data on ocean energy facilities in Macaronesia, Greater North Sea, Norwegian Sea y Celtic Seas.

Waste disposal

General review of the contacts list for country, replies/no replies control and data gathered. New potential data suppliers have been contacted in East Mediterranean, Adriatic and Black Sea basins´ countries.

WP 5 – Data harmonisation (All)

Aggregate extraction

Data from OSPAR area is being geo-referenced.

Dredging

Data from OSPAR area is being geo-referenced.

Dredging data from the Basque ports (Spain) is being prepared.

Hydrocarbon extraction

Data from the new source for Germany are being harmonised as per the current database schema.

In addition, a database schema is being decided as far as hydrocarbon licensing blocks are concerned.

Mariculture

Data harmonisation has been realized or engaged on the following datasets:

- Scotland – shellfish farms (integrated in the portal);
- Scotland – finfish in course)
- Denmark - shellfish and finfish (in course);
- Ireland - finfish (in course)

Ocean energy facilities

Data on ocean energy facilities in Macaronesia, Greater North Sea, Norwegian Sea y Celtic Seas is being prepared.

Waste disposal

One dataset for Greek marine waters indicating geographic position (polygon) for dredged material disposal sites. Provided by the Hellenic Navy Hydrographic Service (HNHS). Additionally, 2 dataset were collected and harmonized regarding Portugal waste disposal sites in 2012 and 2013.

4. Specific challenges or difficulties encountered during the reporting period

The period was not favourable for contacting people in the Ministries in charge of fisheries and aquaculture, some of them being intensively involved in achieving the design of their EMFF 2014-2020 operational programmes.

5. User Feedback

No user feedback to report apart from what was discussed in the conference call with stakeholders.

6. Outreach and communication activities

Like last year, Cogea will be at the European Maritime Day with a booth. Visitors will be offered live demonstration of EMODnet Human Activities.

In addition, the Secretariat is organising a workshop, where Human Activities will be presented.

7. Updates on Progress Indicators

Indicator 1 - Volume of data made available through the portal

Activity		Points	Lines	Polygons	Related tables/records	Raster tiles/cells
Cultural heritage						
Mariculture		358				
Aggregate extraction						
Dredging (e.g. navigational)						
Ocean energy facility						
Other forms of area management/designation						
Waste disposal (solids, including dredge material, dumped munitions, marine constructions)						
Wind farms						
Fisheries					76.749	
Hydrocarbon extraction						
Pipelines and cables	Landing stations (cables)	466				
	Schematic cables		156			
	Actual route locations (cables)		202			
Protected areas						
Commercial shipping, recreational shipping						
Major ports						

Indicator 2 - Organisations supplying each type of data based on (formal) sharing agreements and broken down into country and organisation type (e.g. government, industry, science).

Country	Name	Type
Spain	Basque Ports (Basque Government)	Government
Greece	Hellenic Navy Hydrographic Service. (Ministry of Defense)	Government
Portugal	Direção de Serviços de Ambiente Marinho e Sustentabilidade (Ministry of Agriculture and the Sea).	Government
Germany	State Authority for Mining, Energy and Geology	Government

Indicator 3 - Organisations that have been approached to supply data with no result, including type of data sought and reason why it has not been supplied.

Country	Name	Type of data	Reason why data has not been supplied
Bulgaria	Ministry of Environment and Water. Water Management Directorate	Waste disposal	No reply yet
Bulgaria	Bulgarian Maritime Administration Ministry of Transport	Waste disposal	Not under their responsibility
Bulgaria	Bulgarian Ports Infrastructure Company	Waste disposal	No reply yet
Bulgaria	Bucharest Convention	Waste disposal	No reply yet
Romania	Ministry of Environment and Forests	Waste disposal	Not under their responsibility
Romania	National Institute of Hydrology and Water Management	Waste disposal	No reply yet
Romania	National Administration Romanian Water	Waste disposal	No reply yet
Romania	National Research and Development Institute on	Waste disposal	No reply yet

	Marine Science "Grigore Antipa"		

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

1st January 2015 to 28st February 2015

Included are instances of downloads and initial requests for WFS links. Statistics exclude Human Activities and Central Portal partners.

CDDA	7
Shellfish Production	7
Hydrocarbon Extraction	6
Maritime Boundaries	6
Dredging	5
Main Ports	5
Wind Farms	5
Natura2000	3
Dumped Munitions	2
Ocean Energy Facilities	2
Aggregate Extraction	1
Dredge Spoil Dumping	1
FAO Fishery Statistical Areas	1
Advisory Councils	0
Barcelona Convention	0
Bucharest Convention	0
HELCOM Maritime Area	0
ICES Statistical Areas	0
OSPAR Maritime Area	0

Indicator 5 - Organisations that have downloaded each data type

1st January 2015 to 28st February 2015

- DNV GL (Energy), UK
- Federal Grid Company (Energy), RU
- Institute for Marine Resources & Ecosystem Studies (Research), NL
- Joint Research Centre (Energy), IT
- Marine Institute (Research), IE
- Ministry of Infrastructure and Developemnt (Other), PL
- National Institute of Geophysics and Volcanology (Research), IT
- University of Ghent (Research), BE
- University of Hull (Education), UK
- University of South Wales (Education), UK

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

Statistics include all visitors including partners.

View Data

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Jan-15	165	02:20	245	87	52.73%
Feb-15	195	02:05	295	104	53.33%

Home

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Jan-15	192	01:11	219	122	63.54%
Feb-15	146	00:49	216	91	62.33%

Search Data

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Jan-15	75	01:32	137	33	44.00%
Feb-15	70	01:38	204	34	48.57%

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.)

1ˢᵗ January 2015 to 28ˢᵗ February 2015

Statistics exclude Human Activities and Central Portal partners

1	Research	45.83%
2	Energy	20.83%
3	Environment	11.11%
4	Education	5.56%
5	Fisheries and agriculture	4.17%
=	Other	4.17%
=	Physical planning	4.17%
8	Mining	2.78%
9	Health	1.39%

Indicator 11 - EMODnet visibility and citations (academic journals, scientific press, mainstream media, websites)

No citations to report.