



## EMODnet Thematic Lot n° 7 - Human Activities

4<sup>th</sup> Bi-monthly Report

Reporting Period: 05/05/2014 – 07/07/2014

Date: 07/07/2014

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## 1. Highlights in this reporting period

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- *Several new datasets are now available through the portal (aggregate extraction, dredging, wind farms, waste disposal, other forms of area management designation).*
- *New datasets are ready to be made available through the portal (ocean energy facilities, mariculture, dumped munitions).*
- *The data catalogue is in beta testing and will go live in the next few weeks, making it possible to download data and metadata, and to retrieve data via WMS/WFS.*
- *EMODnet Human Activities was presented at the European Maritime Day in Bremen, and at the Baltic MSP Forum in Riga, receiving considerable interests from participants and stakeholders.*

## **2. Meetings held since last report**

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Date	Location	Topic	Short Description
4-5 June 2014	Rome	2 <sup>nd</sup> Emodnet Steering Committee	

## 3. Work package updates

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### ***WP 1 – Project Management (COGEA ONLY)***

### ***WP 2 – Development of the portal and maintenance***

#### **Progress:**

- Many new datasets added (aggregate extraction, dredging, waste disposal, wind farms, other forms of area management / designation)
- ‘Search Data’ page has been scoped and developed and is at Beta testing stage (<http://www.emodnet-humanactivities.eu/search.php>):
  - Much of the metadata has been created and converted for website searching and display.
  - Data and metadata is available for download
  - Data can be viewed directly in ‘View Data’ page from the search results (i.e. the correct layer will switch on).
  - Before data or metadata download, users are asked for organization name and country (both non-mandatory), and sector (mandatory). This information will be stored and included in statistical results.
- The upgrade of the Lovell Johns webserver is in work

#### **Next Steps:**

- Collate and convert outstanding metadata for those datasets available
- Make Live the ‘Search Data’ page and implement links
- New data will be replaced/added as it becomes available
- Minor functionality issues have been identified to address in priority order
- Move site to new Web Server (with latest MapServer)

### ***WP 3 – Data collection (All)***

#### ***Aquaculture***

Datasets were collected from :

- EUROSHELL project, locating main shellfish production areas for Italy, Spain, France, United Kingdom (except Scotland) Ireland and the Netherlands;
- Scottish Government (Natural Scotland) mapping tool, locating each aquaculture site (shellfish and finfish) in Scotland (<http://aquaculture.scotland.gov.uk/>)

Discussions are in course with MAGRAMA in Spain, for obtaining data from their aquaculture mapping tool (Jacumar)

New projects aiming at mapping aquaculture activities were identified in the Baltic Sea Region :

- **AQUAFIMA** project (INTERREG IV B project) ([www.aquafima.eu](http://www.aquafima.eu)), locating aquaculture sites (Inland and marine aquaculture) for shellfish and finfish in the countries bordering on the Baltic Sea;
- **AQUABEST**, establishing spatial planning guidelines for aquaculture in the Baltic Sea.

Contacts are planned in the next days with structures in charge of the projects.

An answer is expected from JRC concerning data on fish cages in the Mediterranean Sea (satellite imaging).

### Cultural Heritage

Contacts (e-mails) were established with scientific teams in charge of:

- SPLASHCOS project, aiming at mapping European underwater archeological sites;
- MACHU project, with similar objectives;
- Lighthousesrus.org (main E.U. lighthouses);

At present, no concrete answers have been received. Phone calls are planned in order to get a clear answer on the feasibility of getting access to databases.

### Hydrocarbon extraction

Offshore oil and gas boreholes were added for Montenegro, Poland and Spain.

### Main ports – Vessel traffic

Quarterly data were downloaded from the following Eurostat website, from 2006 to 2012 (7 years).

[Maritime transport - Vessel traffic - Quarterly data - Main ports - Number and gross tonnage of vessels - by type and size of vessels - Direction: inwards only - year 2006 onwards \[mar\\_tf\\_qm\]](#)

Data were downloaded for 23 European countries (of which 22 EU MS, plus Norway).

### Others forms of area management / designation

The following information was collected and is now available through the portal:

- The new approved Advisory Councils –ACs– (former Regional Advisory Councils) at European level. The information provided on ACs was: North-western waters Advisory Council, South-western waters Advisory Council, North Sea Advisory Council, Mediterranean Sea Advisory Council, Baltic Sea Advisory Council and Long Distance Advisory Council.
- The International Conventions that are framed in European waters. The information provided focuses on the Barcelona Convention, Bucharest Convention, HELCOM Maritime Area and OSPAR Maritime Area.

- Maritime boundaries

Nevertheless, as detailed in the last bi-monthly report, we found it difficult to get direct and valid data from our contacts due both to the lack of knowledge on this specific matter and to the obtained information cannot be classified as “others”.

### **Waste disposal.**

Around 25 new contacts were made, most of them are related to Public Institutions previously identified. The following were collected:

- In Finland: “Report on Chemical Munitions Dumped in the Baltic Sea” (Helcom), and a set of shape files for dredging disposal areas.
- In Lithuania: “Dredging and dredged material dumping in Lithuanian territorial waters”
- In Poland: “Dumping grounds on the Polish National Waters”; The CHEMSEA Geodatabase
- In Portugal: 3 Excels files (OSPAR\_Amount\_Permits) for 2007, 2008 and 2009, showing “Details of categories, origin of dredged material, dredging operation, deposit sites and dumping amounts”.
- In Spain: A set of jpg files showing 4 maps with “Explosives disposal zones”.
- In Sweden: information about waste disposal at this official site: <http://www.sgu.se/kartvisare/kartvisare-miljoovervakning-sediment-sv.html>.

### **Wind Farms.**

This dataset is already available through the portal for the first three sea basins (Baltic Sea, Bay of Biscay and Iberian coasts, and Western Mediterranean). Nevertheless, we consider relevant the information of European Wind Energy Association (EWEA), in order to advance with the information of Offshore Wind Farms, particularly with specific issues as the number of turbines in each platform, which will complete this data collection process. Although we have not yet received any answer from EWEA to our last requests of information in the last period, we keep trying to contact this organisation for obtaining the access and use of data related to wind farms activities in Europe.

## ***WP 5 – Data harmonisation (All)***

### **Aquaculture**

Euroshell and Scottish datasets have been harmonized.

### **Cultural heritage**

Datasets have not yet been received.

### **Main ports – Vessel traffic**

These data, which are available on a quarterly basis, have been aggregated for each year, from 2006 to 2012 (7 years).

The aggregation of the downloaded data has been made for the following variables/dimensions:

- Reporting entity (i.e. 583 actual ports)
- Period of time (i.e. quarterly)
- Vessel size classes in gross tonnage (23 size classes + Unknown + Total)
- Direction of flow (inwards only)
- Type of vessel (12 types of vessel + Unknown + Total)
- Unit of measure (number and gross tonnage)

For the countries below, data were not available for the following quarters/years:

- Denmark - no data for 2010 -2012
- Germany - no data for 2010 -2012
- France - no data for 2009 -2012
- Norway - no data for 2011 -2012

Quarterly data for 2013 and 2014 were not available at the time of the report writing.



## 4. Specific challenges or difficulties encountered during the reporting period

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### **Other forms of area management designation:**

As this is a miscellaneous group, public authorities generally have not available information of these specific designated areas on an updated source, thus we continue with the task of searching and identifying these data and their geo-referenced positions.

### **Waste disposal:**

Most of the contacts were made in the previous 4 months of this semester, and, accordingly were most of data gained in that period.

As was stated in the previous bi-monthly report, insufficient or total lack reply from official sources is still occurring. Relevant data sets from countries such as Denmark, Sweden or Italy are still missing.

We are still waiting for some contacts to deliver data sets that had been confirmed. Contacts from public institutions that had committed to send data in this two months could not gather that information and, therefore, haven't delivered those sets in time. The team will get back in touch again in order to restart data transmission during the second semester of 2014. Information-data is scattered and not easily located in national related departments.

Data was in formats such as Excel, Jpg files and pdf reports, usually for a single given year, but not a data series and GIS layers (apart from one file from Finland).

### **Aquaculture**

- Shellfish aquaculture maps available at national or transnational level use either points (Scottish aquaculture) or polygons (Euroshell) to locate fish farms and/or rearing areas;
- Metadata concerning species reared, size of the facilities, rearing techniques... are often not available and/or different between Member States;
- Data are not updated at the same frequency and data from some projects are not sure to be updated (Euroshell mappings)

### **Maritime transport – Vessel traffic**

For countries with many reporting ports, such as DK, DE, EL, ES, HR, IT, SE and UK, there was not possible to download all data for all years in one single file. For the above-mentioned se countries, quarterly data have been downloaded in instalments, e.g. 1-3 year batches.

According to Eurostat, when data are selected/extracted from the database for downloading, the interactive extraction size limit is 750 000. However, in practice, if the interactive extraction size is over 450 000 – 500 000, the system doesn't respond, and data selected can't be extracted/downloaded.

The name of three ports in Croatia was misspelled in Eurostat data base: (e.g. ibenik instead of Sibenik; Omialj instead of Omisalj, Raa – Brica instead of Raša-Bršica).

## 5. User Feedback

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Date	Name	Organization	Type of user feedback (e.g. technical, case study etc)	Response time to address user request
08/04/2014	Magnus Wallhagen	Hydrographic Office. Swedish Maritime Administration	[Informative] He advises the project responsible to establish an agreement with the International Hydrographic Organization (IHO) to get information a data as a central organization for Hydrographic Offices around the world.	Acknowledgments sent immediately.
27/06/2014	Trine Christiansen	EEA	Trine says the EEA are quite interested in Human Activities, but laments the fact that at present data cannot be downloaded from the portal	Reply sent immediately, informing that data download will soon be available.

## 6. Outreach and communication activities

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Date	Media	Title	Short description and/or link to the activity
19-20 May 2014		<i>European Maritime Day</i>	<i>Cogea had a booth to present all their projects with DG MARE. Many visitors asked about EMODnet Human Activities.</i>
17-18 June 2014		<i>Baltic MSP Forum</i>	<i>EMODnet Human Activities was presented at the Baltic MSP Forum in Riga. Once again participants demonstrated considerable of interest towards the project.</i>

## 7. Updates on Progress Indicators

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### *Indicator 1 - Volume of data made available through the portal*

#### **Hydrocarbon extraction**

1.144 new points were added, i.e. offshore boreholes of DK (updated with a new dataset) Spain, Montenegro and Poland. The total number of points is now 22.864, including platforms in Germany (not available for download).

#### **Major ports (traffic)**

The number of uploaded points is 2.201 (main ports), related records showing passengers' traffic (number of passengers) are 49.401.

Two new dataset were uploaded and related to the 2.201 ports point: traffic of goods and traffic of vessels. Related record showing good's traffic (thousands of tonnes by direction and cargo type) are 126.413 from 2001 to 2012, related records showing vessel's traffic (number of vessels and gross tonnage by vessel's type and size) are 1.334.750 from 2006 to 2012.

#### **Wind Farms**

21 wind farms points were uploaded.

#### **Other forms of area management / designation**

This dataset contains polygons and lines: the number of uploaded records is 15 polygons (advisory councils and international conventions) and 137 lines concerning maritime boundaries (Baseline, Contiguous zone, Continental Shelf, Delimitation line between states, Exclusive Economic Zone, Fishery zone, Territory sea and Others).

#### **Aquaculture**

The number of uploaded aquaculture points (farms, registered sites or farming areas' centroid) is 565.

#### **Waste disposal**

868 points were uploaded.

#### **Aggregate extraction and Dredging**

As regards aggregate extraction, the number of uploaded points is 638. As regards dredging, the number of uploaded points is 2.042.

***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).***

EU	Joint Research Centre (JRC)	EU Commission
EU	EUROSHELL	7FP Project
Finland	Ministry of the Environment	Government
Finland	Ministry of Transport and Communications	Government
France	Comité National de la Conchyliculture	Producers' Association
Italy	Associazione Mediterranea Acquacoltori	Producers' Association
Lithuania	Ministry of the Environment	Government
Montenegro	Geological Survey of Montenegro	Government
Poland	Ministry of Defence	Government
Poland	Ministry of Science and Higher Education	Government
Poland	Polish Geological Institute	Government
Portugal	Ministry of the Environment	Government
Spain	Ministry of Defence	Government
Sweden	Swedish Agency for Marine and Water Management	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.***

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

The data catalogue (from which data can be downloaded) is still in beta testing.

### ***Indicator 5 - Organisations that have downloaded each data type***

Not applicable

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

30<sup>th</sup> April 2014 to 30<sup>th</sup> June 2014

#### *Monthly Page Views*

Visits	627
Average Visit Duration	00:04:27
Page Views	2,240
Unique Visitors	276
New Sessions	40.99%

#### *Most Popular Pages*

1	Home	30.45%
2	View Data	28.39%
3	About	25.00%
4	News	6.55%
5	Documents	4.83%
-	Other	4.78%

#### *Most Popular Exit Pages*

1	View Data	52.00%
2	Home	24.35%
3	About	14.96%
4	Documents	3.13%
5	Support	1.20%
-	Other	4.36%

*Traffic Acquisition*

1	Central Portal	61.72%
2	Direct (URL)	30.46%
3	Search Engine / Organic	1.91%
4	Wikipedia	1.59%
5	Consortium Website	1.44%
-	Other	2.88%

*Visitor Location*

1	Italy	28.07%
2	United Kingdom	23.13%
3	Spain	11.48%
4	Sweden	3.99%
5	Belgium	3.51%
=	Germany	3.51%
=	France	3.51%
8	Poland	3.19%
9	Denmark	2.39%
10	Greece	2.23%
-	Other	14.99%

***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.)***

Not applicable

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

No citations.