



# **EMODnet Thematic Lot n° 7 - Human Activities**

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

Reporting Period: 04/11/2014 – 15/01/2015

Date: 15/01/2015

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## 1. Highlights in this reporting period

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- A conference call has been organised with key stakeholders (will take place on 16 January 15);
- The URL <http://www.emodnet-humanactivities.eu/> was switched to a new webserver on 27<sup>th</sup> November 2014;
- WFS v1.1.0 have been created and made available for all hosted datasets with the exception of ports;
- A new version of the website was released that contained a number of high priority updates.

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

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- 9-10 December: EMODnet 3rd Steering Committee meeting.

## ***WP 1 – Project management***

There will be a conference call on 16 January 2015 with stakeholders interested in contributing to EMODnet Human Activities. The conference call will be the first step to establish a cooperation process with key stakeholders that will last throughout the project.

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

### **Progress:**

- The URL <http://www.emodnet-humanactivities.eu/> was switched to a new webserver on 27<sup>th</sup> November 2014. The site now utilizes the latest version of MapServer to aid the serving of Web Feature Services (WFS).
- Data updates to wind farms, aggregates and dredging.
- WFS v1.1.0 were created for all hosted datasets with the exception of ports which has a complex table structure. WFS are now available through the Search Data page. Links and sample query statements were passed to VLIZ to aid Query Tool development for the Central Portal.
- A new version of the website was released that contained a number of high priority updates:
  - Point ‘clustering’ was developed for the View Data page, so that layers with many points can be viewed effectively, and at smaller scales.
  - The ‘information’ button on the View Data page used to retrieve attributes has been removed. This extra step is no longer necessary.
  - Download links from the legend have been added.
  - Some layers have been sub-divided on the legend, allowing the user to toggle on/off by category.
  - Other minor visual/functional improvements.

### **Next Steps:**

- Update port data.
- Allow ports to be served as a WFS (e.g. by restricting attributes).
- Liaise with VLIZ to configure WFS output.
- Add new data for pipelines and cables.
- Implement confirmed EMODnet harmonization changes.
- Continuation of development on low priority tasks.
- New data will be replaced/added as it becomes available.

New 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)***

### **Cultural heritage**

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A contact has been established with the project manager of the MACHU project (maritime archaeology), Dr Johan Opdebeeck.

We have been provided with log-in credentials to access the MACHU database, but there is no possibility of downloading data. A Skype conference will be organised late in January with the project leader to discuss the feasibility and conditions for getting access to data.

A reply is still pending concerning the availability of SPLASHCOS data. A new contact is planned with Dr Hauke Jôns (SPLASCHOCS) and Dick Schaap (MARIS project).

### **Fisheries zones**

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The collection of data on fish catches (from the 1950s to present day) is now complete for all EU waters. Data will soon be available on line, broken down by FAO fishing area. This theme will probably be renamed as “Fisheries”.

### **Hydrocarbon extraction**

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The update of existing information was started. The Human Activities team is coordinating this effort with the GSI (Ireland) who are responsible for WP 7 of EMODnet Geology. The GSI sent an email to their partners in EMODnet Geology asking to send us up-to-date versions of their data, and (if possible) information on where to find data on hydrocarbon licensing blocks.

So far, only few replies were received, so the Human Activities team will proceed to contact each data source individually.

### **Major ports**

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**Passenger traffic** – quarterly data have been downloaded from EUROSTAT website, for 2013: [http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=mar\\_pa\\_qm&lang=en](http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=mar_pa_qm&lang=en)

Data have been downloaded for 22 European countries (21 EU Member States, plus Norway).

**Goods traffic** – quarterly data have been downloaded individually for each country from Eurostat website for 2012 and 2013.

Data have been downloaded for 24 European countries (23 EU Member States, plus Norway).

**Vessel traffic** – quarterly data have been downloaded from EUROSTAT website, for 2012 and 2013:

[http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=mar\\_tf\\_qm&lang=en](http://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=mar_tf_qm&lang=en)

Data have been downloaded for 23 European countries (22 EU Member States, plus Norway).

For all main ports traffic (passengers, goods and vessel), quarterly data for 2014 were either not available or incomplete at the time of the report writing.

## Mariculture

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New demands have been transmitted to national authorities in charge of establishing and publishing aquaculture sanitary registers (Council Directive 2006/88/EC<sup>1</sup>).

Despite these renewed requests, replies are still pending (probably also due to the Christmas break).

People in charge of the dissemination of national registers within DG SANCO have been identified and a contact will be established in order to try to facilitate data collection.

## Other forms of area management / designation

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Updated information was obtained from:

- The Marine Coordination Group Bureau of Ireland regarding Protected Sites, UNCLOS Management areas, EU Directives water bodies near AMETS, IHO Sea Regions, the Ireland's Marine Atlas and the GIS/Mapping Irish parts of the OSPAR.
- Ministry of Agriculture, Natural Resources and Environment (Cyprus) in relation to management areas that include artificial reefs and fisheries areas management.
- The Spanish Ministre of Agriculture, Food and Environment regarding exclusive management areas that combines environment conservation and fishing activities

## Pipelines and cables

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Besides data previously collected from Telegeography (schematic routes of telecom cables), we have also collected actual routes of telecom data and landing points from the following sources:

- BSH CONTIS
- Greg's cable map (primary source: Kingfish)
- SIGCables (maintained by Orange)

They will soon be available on the map.

## Waste disposal

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Updated information was obtained from:

- The Ministry of Environment and Water (Bulgaria) in relation to dredge disposal sites
- The Environmental Protection Agency (Ireland) provides WMS connection for dumping of dredged material and munitions dumpsites.

## Wind farms

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Updated information was obtained from:

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<sup>1</sup> COUNCIL DIRECTIVE 2006/88/EC of 24 October 2006 on animal health requirements for aquaculture animals and products thereof, and on the prevention and control of certain diseases in aquatic animals

- The Swedish Energy Agency (Sweden) regarding the operational offshore wind farms in Sweden and ongoing projects in different stages (Authorised, Application process, Early stage).
- The Department of Energy and Climate Change of the Office of Renewable Energy Deployment (United Kingdom) in relation to the current status, number and size of turbines of all offshore wind farms in UK waters. Furthermore, 4C Offshore (a commercial organisation) provides additional information on the London Array project.

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

### **Mariculture**

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Processing and harmonisation of data from national sanitary registers have been started for the following countries:

- Denmark;
- Ireland;
- Netherlands;

Data are available in spreadsheets format for these countries and relatively easy to process, but the coordinates systems used are not indicated. Demands concerning the coordinates system have been transmitted to national correspondents (replies are pending).

Data are not available in spreadsheet format for the following countries:

- Spain;
- Greece;
- Cyprus.

Aquaculture registers are provided in the form of company (or sites) fiches (Word or PDF formats). Demands have been transmitted to national correspondents for obtaining data in spreadsheet format. No responses have been obtained yet.

In order to anticipate the impossibility of getting spreadsheets, a copy-paste process has been tested. It is a time-consuming solution, but it could be applied if we have no alternative solutions.

The analysis of national registers (species and rearing systems description) allowed to conclude that there is currently no or no significant mariculture, in Poland, Latvia and Lithuania.

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

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- A datasets for Cyprus regarding other management marine areas.
- A datasets with the Fishing Interest Areas in Spain was provided to the Consortium for fulfilling the proper dataset

## Waste disposal

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- A dataset for the North Ireland in a separate shape file (DisposalSiteFeb2014) from the Marine Division-DOE.
- The link to the site (WFS) of the service of dumping at sea permit, for information about dumping of dredged material and munitions dumpsites.
- A dataset for Bulgaria indicating coordinates references for dredge disposal sites by contact from the Basin Directorate for Water Management in the Black Sea Region.

### **3. Specific challenges or difficulties encountered during the reporting period**

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The Christmas and New Year breaks didn't facilitate contacts.

Moreover as regards mariculture data, people in the national administrations are very busy as most of them are involved in the design of the 2014-2020 EMFF Operational Programmes.

## 4. User Feedback

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No feedback to report.

## **5. Outreach and communication activities**

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No activities to report.

## 6. Updates on Progress Indicators

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

No new data have been made available to the portal in this reporting period. Many data have been collected, but will be made available during the next reporting period.

### ***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
Finland	Finnish Transport Agency	Government
South Africa	Greg's cable ma	Individual
France	SIG Cables (maintained by Orange)	Private Company

### ***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
UK	Centre for Environment, Fisheries and Aquaculture Science (CEFAS)	Waste Disposal Data	The Marine Management Organization (MMO) is the regulator for these activities in England and therefore the owner of this type of data. Cefas act as a technical adviser for the MMO only for projects on which consultation is required. In the case of the UK and national

<b>Country</b>	<b>Name</b>	<b>Type of data</b>	<b>Reason why data has not been supplied</b>
			institutions from Scotland, North Ireland and Wales, there was misunderstanding since some contacts referred to CEFAS as the key general institution for those marine data in UK waters, but, at the same time, we received some communications from CEFAS telling that the MMO is the holder of those data. We are still waiting for formal communication from MMO reporting on the issue.
Spain	Ministry of Agriculture, Food and Environment	Waste disposal and Other forms of management/designation	The information is available but not in geo-referenced terms.
Croatia	Croatian Environment Agency	Waste disposal	In Croatia there are no systematic actions on marine litter issue and consequently no data collection either.
Poland	Institute of Oceanology of the Polish Academy of Sciences	Waste disposal	Their database is still under construction. As soon it is finalized, we could establish the data transfer.

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

***29<sup>th</sup> October 2014 to 31<sup>st</sup> December 2014***

*Statistics exclude Human Activities and Central Portal partners*

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

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

***29<sup>th</sup> October 2014 to 31<sup>st</sup> December 2014***

- University Ca' Foscari of Venice (Research), IT
- 40South Energy (Energy), UK/IT
- University of Malaga (Research), ES
- Ghent University (Education), BE
- Newcastle University (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
Oct-14	217	02:37	308	107	49.31%
Nov-14	148	02:02	205	89	60.14%
Dec-14	116	03:22	152	60	51.72%

### *Home*

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Oct-14	190	00:47	231	90	47.37%
Nov-14	154	02:31	191	111	72.08%
Dec-14	179	02:22	203	125	69.83%

### *Search Data*

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Oct-14	105	01:23	171	31	29.52%
Nov-14	66	02:44	111	43	65.15%
Dec-14	44	01:39	73	24	54.55%

***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.)***

***29<sup>th</sup> October 2014 to 31<sup>st</sup> December 2014***

*Statistics exclude Human Activities and Central Portal partners*

1	Research	48.00%
2	Energy	20.00%
3	Education	8.00%
=	Fisheries and Agriculture	8.00%
4	Environment	4.00%
=	Health	4.00%
=	Other	4.00%
=	Physical Planning	4.00%

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

Nothing to report.