



# EMODnet Thematic Lot n° 7 - Human Activities

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

Reporting Period: 02/09/2014 – 03/11/2014

Date: 03/11/2014

## Contents

1. Highlights in this reporting period.....	3
2. Meetings held since last report .....	4
3. Work package updates .....	5
WP 1 – Project management.....	5
WP 2 – Development of the portal and maintenance .....	5
WP 3 – Data collection (All).....	5
WP 5 – Data harmonisation (All).....	9
4. Specific challenges or difficulties encountered during the reporting period.....	10
5. User Feedback .....	10
6. Outreach and communication activities.....	10
7. Updates on Progress Indicators.....	11
Indicator 1 - Volume of data made available through the portal .....	11
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). .....	11
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.....	11
Indicator 4 - Volume of each type of data and of each data product downloaded from the portal....	11
Indicator 5 - Organisations that have downloaded each data type.....	12

## 1. Highlights in this reporting period

---

New topic to be included in “other forms of area management/designation”: artificial reefs

- The MapServer update announced in the previous progress report has now been completed. The URL <http://www.emodnet-humanactivities.eu/> will be switched to this new web server on a suitable date around the end of November (date to be confirmed).
- WFS and WMS are being tested and should be available to users around the end of November.
- New datasets (not included in the contract) are being prepared: ‘hydrocarbon licence blocks’, ‘fish catches by FAO statistical area’, ‘fish landings by port’, and ‘artificial reefs’.
- A list of improvements to the portal has been prepared, together with a plan for their implementation. Improvements reflect DG MARE’s and other stakeholders’ comments, as well as the consortium user experience.
- Communication activities went on with EMODnet Human Activities being presented at the Member States Expert Group on MSP in Brussels, EuroOCEAN 2014 in Rome, and EuroGOOS 2014 Conference in Lisbon.

## 2. Meetings held since last report

---

Date	Location	Topic	Short Description
03/10/2014	Skype meeting	Wind farms	Share information about new references on wind farms. EWEA is interested in EMODnet maps and they asked us for using it. We agreed to exchange and update mutual info each 3 months They will try to send us more info about potential wind farms to be installed in the future, if their company allow them to do that according to secret data information. We send the data that we have and they will check it and then they will send their feedback.
17/09/2014	Skype meeting	Human Activities data	Skype conversation with Guido Emilio Rossi of the University of Genoa who's collecting marine data for the Mona Lisa project. Mona Lisa will be using EMODnet Human Activities data in their project.

## 3. Work package updates

---

### ***WP 1 – Project management***

A work programme for the second year was agreed among project partners. The programme includes a series of improvements (based on DG MARE's comments, as well as other stakeholders'), the planning of a new work package 'Data analysis and creation of data products' (that will start later next year), and the collection of new datasets not included in the contract (namely hydrocarbon licence blocks, fish catches by FAO statistical area, and fish landings by port from EUMOFA).

In addition, a cloud-based platform is being tested to serve as an archive through which project partners can exchange data. Access to the platform may also be given to DG MARE and selected stakeholders to enable them to monitor the progress of the project and have a look at test data, even before they go live on the map.

Jointly with the Secretariat, a meeting has been planned with selected stakeholders in order to understand how they can better contribute to EMODnet Human Activities, and vice versa. The meeting may either take place in Brussels on the 9<sup>th</sup> of December or be organised with web-conferencing, depending on how many people intend to participate.

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

#### **Progress:**

- An up-to-date copy of the current site is now hosted on a second web server, using the latest MapServer version. High priority developments will be made to this new version, and the URL <http://www.emodnet-humanactivities.eu/> will be switched to this new web server on a suitable date around the end of November (date to be confirmed).
- Development is in work on high priority tasks including implementation of WFS and point clustering (to allow the display of point layers at smaller scales).

#### **Next Steps:**

- Continuation of development on high priority tasks and release of an updated version of the portal.
- New data will be replaced/added as it becomes available.

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

#### **Commercial shipping, recreational shipping**

---

We received a reply from Marine Traffic to our request of integrating their vessel traffic density maps into EMODnet. They have the data but are not willing to share it for free. Our negotiation is thus suspended until we receive a reply from EMSA, which could give us the same data for free.

#### **Cultural heritage**

---

**SPLASHCOS dataset**

Dr Hauje Jøns (team leader of the Splashcos project) confirmed that it has been decided to integrate Splashcos data into the GeoSeas Website as an extra layer, organised by MARIS in the next months.

At the moment, there are so many data missing, especially from countries with big numbers of sites, so that that the team has so far hesitated to launch the “Splashcosviewer”.

Hauke Jøns and Dick Schaap (team leader of MARIS Geosys project) decided to start with basic data and to add missing data when they are available.

The possibility to exchange Splashcos-data with EMODnet together with hydrophysical and chemical data has been discussed. Dick Schaap agrees on this proposal, but believes that it will take some months to organise this project.

In conclusion, Splashcos data may be integrated - even if indirect through GeoSeas - into EMODnet. So to avoid double work, Hauke Jøns would like to have the data primarily hosted at one place (MARIS).

It has been agreed that AND International will be informed 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.

The structure of the Splashcos-viewer on Geosys will be as follows.

Country				
Site name	Name, in the official registration			
Site number	Nr. In the official registration			
Type of site (Thesaurus): Keep in mind, that the viewer shall be easy to be used and therefore shall not be too detailed	Single find (unstratified)			
	Collection of finds (unstratified)			
	Settlement (in situ culture layer, features)			
	Grave/graves			
	Depotfind/Offering			
	Rock Art/Carvings			
	Others			
Further Specification of Type “Others”:	If you might have chosen the term “Others” in the previous column, please specify here			
Archaeological dating (Thesaurus) The archaeological dating should be done as exact as possible due to your national system: So if it is for sure that a site dates to the early Neolithic, this expression should be filled in, if not, the more open expression Neolithic or even Stone age should be used, if also a mesolithic or even paleolithic age is	Stone Age	Palaeolithic	Upper Palaeolithic	
			Middle Palaeolithic	
	Mesolithic	Mesolithic	Early Mesolithic	
			Middle Mesolithic	
	Neolithic	Neolithic	Early Neolithic	
			Middle Neolithic	
				Late Neolithic
				Late Palaeolithic
				Late Mesolithic
				Late Mesolithic/Early Neolithic
			Late Paleolithic/Early Mesolithic	

possible	Late Neolithic/Early Bronze Age
	Bronze Age
Beginning (years BC)	Because the viewer shall also raise public awareness please fill in the dating in “years cal. BC”
Ending (years BC)	Dito
Dating based on: This column shall be used to clarify the base of the dating	Typochronology Dendrochronology Radiocarbon Dating
Minimum depth below regionally defined mean sea level (m)	
Maximum depth below regionally defined mean sea level (m)	
Specification of the referred system	Defined according to the regionally used, well defined scale. So the scale should be quoted and – if possible – filled in as a link, leading to more information about the referred system or gauges
Organic material (yes,no, unknown)	If it is sure that there is organic material preserved: <b>yes</b> , If it is sure that there is <u>no</u> organic material preserved: <b>no</b> , If it is not yet been investigated: <b>unknown</b>

Further information	short additional information about the site: archaeological classification according to the regional or national system (such as Ertebølle culture or Swiderian culture) and special finds
url	
References	If possible, please fill in the latest reference in English language with a reference list, if not please fill in the latest reference in the regional language
Longitude (WGS84)	Only used for mapping, not downloadable!
Latitude (WGS84)	Only used for mapping, not downloadable!

### MACHU Project

A contact with people in charge of the MACHU project has been finally established. Dr Johan Opdebeeck, a maritime archaeologist, is the leader of the MACHU project for the Dutch cultural heritage agency.

Dr Opdebeeck is not familiar with EMODnet and asked for further information, especially on the point of making data freely accessible to the general public.

The data served in MACHU GIS tool is for policy and research purposes only. This is the reason why people need a log-in to access the data (AND International has got a log-in now).

A skype meeting will be scheduled in the next few days to discuss on the feasibility of getting MACHU dataset integrated in EMODnet and under which conditions.

## Fisheries zones

---

We started collecting data on fish catches from EUROSTAT. Data (volumes in tonnes) are available for all species with commercial interest from the 1950s up to present day. It will take some time to process the huge amount of data we downloaded. Data will be broken down by FAO's fishery statistical area.

## Hydrocarbon extraction

---

Despite the BRGM still not replying to our emails, we downloaded data on France offshore oil and gas wells from the portal [Infoterre](#). This data will soon be available in the geodatabase of hydrocarbon extraction.

Contacts have been established with the Department of Energy and Climate Change (UK) to improve the information on UK oil and gas wells currently available on the Human Activities portal. At present, for the UK we have no information as to wells status and fluid type. The DECC have this information and will soon make it available online, as they are in the process of revamping their portal. This may take up to a year, however, in the meantime the data will be made available to EMODnet.

## Mariculture

---

Sanitary registers established by EU. Member States under **Council Directive 2006/88/EC<sup>H</sup>** have been downloaded from DG SANCO website.

Some registers are presented in tables that can be directly processed in Excel. This is the case for Denmark, Ireland, Scotland, The Netherlands and Poland. The data for these countries have been processed and datasets will be soon integrated into EMODnet.

Some other registers are available under Word or PDF files, presenting detailed fiches for each aquaculture site. Sanitary registers are provided under this form for Croatia, Cyprus and Spain.

In other cases – Estonia, Finland, Greece, Lithuania – on line consultation tools are only available allowing getting information for each site separately. Considering it will take a huge amount of time to collect data this way, it is planned to ask national authorities to provide us with tables including full original datasets. No answer has been yet received. Phone calls are planned (and a visit to Madrid to meet people of the MAGRAMA) in the next few weeks.

For Member States with no link on DG SANCO website, contacts have been engaged with national authorities in charge of establishing sanitary registers. People have been identified in France and data will be available soon for finfish mariculture (submitted to ICPE rules, making mandatory to provide sites coordinates).

A contact is also planned with DG SANCO for obtaining information on the way and the frequency of updating national registers (data for Spain concern 2009).

## Other forms of area management / designation

---

As explained in the last report, we changed the search strategy, and now we send a formal letter of request to official bodies responsible in each country.

So far, the first response was from Cyprus where we obtained information through the Department of Fisheries and Marine Research of the Ministry of Agriculture Natural Resources and Environment.



We noticed that Cyprus includes artificial reefs in the group “Others”, and we started a specific search for these areas in each country.

Therefore, while we also continue the review of public official sources (government and research centres websites, reports of scientific and academic projects, papers of public policies, etc), we will follow up the data requests, by direct contact with officials recipients via email or phone calls.

### **Waste disposal**

---

Our work has mainly focused on searching and analysing potential data sources from countries in the following sea basins: Adriatic, Aegean Levantine, Black Sea, Ionian Sea and Central Mediterranean and Celtic Seas. Accordingly, several sources (55 contacts) of interest have been selected so far. This time we have decided to address the contacts by post (containing formal request and the letter from the Commission) and then email them to follow up.

There has not been massive data collection during this time with the exception of two relevant data sources from Denmark and France, both referred to disposal sites for dredged material

### **Wind farms**

---

As during the last months we had no answer from EWEA, on suggestion of Mr Iain Shepherd, we contacted, Mr Giorgio Corbetta, Stable Frameworks Analyst at EWEA.

EWEA showed great interest in EMODnet and in the wind farms maps. They asked us for an exchange of information. We had a skype meeting with them on 03/10/2014 in order to share and exchange information. We asked them for some potential wind farms in the future and for the farms represented in a GIS, but they do not have such a GIS. They asked us for sending them the information and data that we already have georeferenced and they have sent their feedback on 27/10/2014. We are currently waiting for more info that we expected to have at the end of this month.

EWEA is interested in having EMODnet data and they would therefore be willing to send as a new map that they are now preparing.

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

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

---

As regards “Maritime boundaries” we decided to use DG-Environment’s dataset. In addition, “Advisory Councils” used to be a series of records within the same feature class. As a result, on the map it was impossible to click on any Advisory Council other than ‘Long distance fleet’, since the latter covered the whole world and overlapped with the others. Advisory Councils have now been split in separate feature classes. The test version of the map will soon go live with these modifications.

Data from Cyprus have been geo-referenced.

### **Wind farms**

---

Data from Denmark have been geo-referenced.

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

---

- Hydrocarbon extraction: we contacted missing data sources again, but they still do not reply to our emails. We're having problems with the BRGM in France, YPEKA in Greece, the Ministry for Transport and Infrastructure in Malta, the Faroese Earth and Energy Directorate in the Faroe Islands, NAMR in Romania. In addition, it seems very unlikely that we can obtain data from Black Sea countries, since none of the sources contacted has ever replied to our emails.
- 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, therefore we have decided to change our strategy by sending letters to the people in charge at government and research agencies in each country, and also we continue with the task of identifying sources and contacts who provided the geo-referenced data.
- Waste disposal Many institutional websites are not in English (e.g. specific environment/marine departments or related centres). This makes it difficult to find the right contact and key issues. So, during this period, after several e-mails, we have decided to send official letters by post to the main institutions and agencies. It's very time consuming but it guarantees that we find the right contact.

## 5. User Feedback

---

No feedback received in this reporting period. Some feedback was gathered informally at EuroGOOS conference, where some potential users expressed their interest in the project.

## 6. Outreach and communication activities

---

- 2/10/2014: EMODnet Human Activities was presented at the Member States Expert Group on MSP in Brussels. The project generated contradicted reactions. While some Member States representatives were enthusiastic about it, some others believed it can be of little use to maritime spatial planning.
- 6/10/2014: EMODnet Human Activities was presented at the pre-event connected to EuroOCEAN 2014 in Rome.
- 29/10/2014: EMODnet Human Activities was presented at EuroGOOS 2014 conference in Lisbon. The project was received with favour by stakeholders.

## 7. Updates on Progress Indicators

---

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

No new data were made available in the 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).***

No new organisations.

### ***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
FO	Faroese Earth and Energy Directorate	Hydrocarbon extraction	No reply.
FR	BRGM	Hydrocarbon extraction	No reply.
GR	YPEKA	Hydrocarbon extraction	No reply.
MT	Ministry for Transport and Infrastructure	Hydrocarbon extraction	No reply.
RO	NAMR	Hydrocarbon extraction	No reply.

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

***1<sup>st</sup> September 2014 to 28<sup>th</sup> October 2014***

Aggregate Extraction	5
CDDA	5
Natura2000	4

Shellfish Production	4
Advisory Councils	3
Hydrocarbon Extraction	3
Dredging	2
Wind Farms	2
Dredge Spoil Dumping (Points)	1
Dredge Spoil Dumping (Polygons)	1
Dumped Munitions	1
Main Ports	1
Maritime Boundaries	1
Barcelona Convention	0
Bucharest Convention	0
FAO Fishery Statistical Areas	0
HELCOM Maritime Area	0
ICES Statistical Areas	0
Ocean Energy Facilities	0
OSPAR Maritime Area	0

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

***1<sup>st</sup> September 2014 to 28<sup>th</sup> October 2014***

- The NIOZ Royal Netherlands Institute for Sea Research (Environment), NL
- Università degli Studi di Genova (Research), IT
- HR Wallingford (Energy), UK
- MEP (Fisheries and Agriculture), UK
- University of the Highlands and Islands, (Environment), UK

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

*View Data*

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Sep-14	144	02:09	198	76	52.78%
Oct-14*	183	02:35	266	87	47.54%

\*up to 28/10/2014

*Home*

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Sep-14	112	01:39	139	63	56.25%
Oct-14*	154	00:53	193	68	44.16%

\*up to 28/10/2014

*Search Data*

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Sep-14	76	01:03	188	32	42.11%
Oct-14*	94	01:26	155	26	27.66%

\*up to 28/10/2014

***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.)***

***1<sup>st</sup> September 2014 to 28<sup>th</sup> October 2014***

1	Energy	38.64%
2	Research	27.27%
3	Environment	13.64%
4	Fisheries and Agriculture	6.82%
=	Other	6.82%
6	Mining	4.55%

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

Nothing to report