



EMODnet Thematic Lot n° 7 - Human Activities

11th Bi-monthly Report

Reporting Period: 07/07/2015 – 09/09/2015

Date: 09/09/2015

Contents

1. Highlights in this reporting period.....	3
2. Meetings held since last report	4
3. Work package updates	5
WP 2 – Development of the portal and maintenance	5
WP 3 – Data collection (All).....	5
WP 5 – Data harmonisation (All).....	7
4. Specific challenges or difficulties encountered during the reporting period.....	9
5. User Feedback	10
6. Outreach and communication activities.....	11
7. Updates on Progress Indicators.....	12
Indicator 1 - Volume of data made available through the portal	12
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).	13
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.....	13
Indicator 4 - Volume of each type of data and of each data product downloaded from the portal....	14
Indicator 5 - Organisations that have downloaded each data type.....	15

1. Highlights in this reporting period

- New datasets have been made available online: hydrocarbon licences and Mariculture - Finfish Production
- New 'View Data' page release including: filter layer display by attribute(s); toggle map to full screen map display; share map view tool;

2. Meetings held since last report

No meetings have been held since the last report.

3. Work package updates

WP 2 – Development of the portal and maintenance

Progress:

- New 'View Data' page release including:
 - New dataset: Hydrocarbon Extraction - Active Licenses
 - New dataset: Mariculture - Finfish Production
 - Filter layer display by attribute(s)
 - Toggle map to full screen map display
 - Share map view tool (get an encoded URL that remembers map extent, base mapping type, which layers are displayed and how they are filtered)
 - Improved point symbology, categorisation and minor graphical improvements
 - Minor bug fixes

Next Steps:

- New data updates for Ocean Facilities, Dredging and Aggregates.
- New data layer for Lighthouses.
- Discussions and planning of Year 3 priorities and tasks.

WP 3 – Data collection (All)

Aggregate extraction

Historic data from the Netherlands, Poland, Ireland and Germany have been collected from the ICES Working Group on the Effects of Extraction of Marine Sediments on the Marine Ecosystem (WGEXT) reports.

Cultural heritage

Underwater heritage

We have received the link to the Splashcos viewer website from Dick Schaap on August 11th. We are now reviewing how to access the data through WMS or WFS protocols and the appropriate procedures to integrate it into the Human Activities portal.

The contact has been established with Johann Opedebeeck, a marine archaeologist involved in the MACHU project (mapping of ancient vessels wrecks). He confirmed that the MACHU team could provide the data to include a layer in the EMODNET portal, under the condition that the precise coordinates of sites cannot be downloaded.

An official request has been sent for that purpose. The database is expected to be received in the first half of September;

Lighthouses

Data have been collected from the Amateur Radio Lighthouse Society (ARLS). The dataset includes the name of the lighthouse, its code in the ARLSH database, its geographical coordinates and the gridsquare within which it is located. Data are harmonized by ARLS but not all of them have been verified and coordinates are approximate for most of the lighthouses and would need to be refined in the future.

Other relevant sources have been contacted but without results at this stage:

- People in charge of the website www.lighthousesrus.org have been contacted by e-mail in order to obtain the database of the lighthouses list shown on the website (with GIS coordinates). The answer is still pending.
- Vincent Bruger from the French Bureau des Phares et Balises has been interviewed to know if a French or European census of the lighthouses exists. He confirmed that such a database was not available in its administration and that he was very interested in being updated on our project.
- Marine Traffic (Vessel positions tracking based on AIS data) website has a world live ships map which includes a layer of the lighthouses: <http://www.marinetraffic.com/en/> We have received an automatic reply following our request for data indicating that we should be contacted soon.

Mariculture

Main facts concerning data collection on mariculture during July-August are as follows:

We finally received the **Greek** data in Excel file for both finfish and shellfish farms on the 6th of July.

Moreover, **Cyprus** coordinate system used on sanitary register has been decoded. This allowed us to add the few Cypriot finfish farms in the database.

German Veterinary Services have answered on August, 6th. They forwarded our request to the Federal States of Lower Saxony, Schleswig-Holstein and Mecklenburg-Pomerania. Datasets should be received at beginning of September 2015 (for German shellfish production sites).

We have had no further news from France, Portugal, Italy, Sweden, Estonia and Slovenia.

Waste disposal

The information of Cyprus, Croatia, Greece and Portugal has been updated. In addition, some points were also updated in relation to the munition dumping sites of Italy.

Wind farms

Some information not included from the OSPAR dataset related to wind farms has been updated. For those points in where we have overlapping between OSPAR and EWEA, we use the EWEA criteria/information.

WP 5 – Data harmonisation (All)

Aggregate extraction

Available data have been updated and harmonise.

Cultural heritage

Underwater heritage

Harmonisation is done under the Splashcos project. We are now reviewing the data and the appropriate procedures to integrate it into the Human Activities portal.

Lighthouses

The harmonisation work was completed by the end of August. The ARLHS has inventoried over 4000 lighthouses in the EU (including historical lighthouses that have been removed, relocated or destroyed) but has not verified all coordinates. In addition to the ARLHS work, about 140 points whose location could be questioned (away from coasts or close to other countries' coasts) have been cross-checked with other sources. Out of these, 63 have been corrected while other locations have been confirmed. Other sources used were: Listoflights.org, lighthouseusr.org, marinetraffic.com, faroisdeportugal.com and fsfehmarbelt.de.

Dredging

Available data have been updated and harmonise.

Hydrocarbon extraction

The hydrocarbon licences dataset was finalised by the end of August for: Germany, Croatia, Ireland, Italy, Netherland, Poland, Norway, UK, Denmark, Portugal.

A new layer with Offshore platforms will be made available online in the coming days with data from: Germany, Denmark, Spain, Ireland, Italy, Netherland, Norway and UK.

Mariculture

The Shellfish dataset has been completed with data from Greece.

The Finfish dataset was finalised by the end of July for **Cyprus, Denmark, Finland, Greece, Ireland, Scotland and Spain**. The harmonisation work included the following tasks:

- Conversion from Excel tables to a database format;
- Identification and exclusion of sites corresponding to land-based systems;
- Identification of potential duplicates (same name and coordinates);
- Harmonisation of species description;
- Integration to the geodatabase;
- Harmonisation of coordinate reference systems;
- Computation of the distance between the identified sites and the coastline.

Ocean energy facilities

Available data have been updated and harmonised.

Other forms of area management / designation

The information regarding Ireland and Spain has been updated following the information provided by the Department of Communications, Energy and Natural Resources of Ireland and the marineregions.org website.

Status of bathing waters

This dataset is based on EEA's data. The harmonisation work included the following tasks:

- Conversion from Excel tables to a database format;
- Selection of the categories of water marked as coastal water (C) and transitional water (T);
- Harmonisation of bathing water quality classification;
- Integration to the geodatabase feature class.

The geographic coverage is: Albania, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, United Kingdom.

This dataset will be made available online in the coming days.

Waste disposal

The information of this layer has been harmonized according to the sources detailed in the following table:

Country	Layer	Source
Cyprus	Dredge spoils dumping	Department of Fisheries and Marine Research. Republic of Cyprus.
Cyprus	Munition dumping sites	Department of Fisheries and Marine Research. Republic of Cyprus.
Croatia	Dredge spoils dumping	Independent Public Relations and Publishing Department Ministry of Defence of the Republic of Croatia
Greece	Dredge spoils dumping	Panagiotis Gkionis, Lt Cdr HN Head of Geographic Policy and International Affairs Office Hellenic Navy Hydrographic Service TGN 1040, Athens. Greece.
Italy	Munition dumping sites	Servizio emergenze ambientali in mare (SEAM).
Portugal	Dredge spoils dumping	Direção de Serviços de Ambiente Marinho e Sustentabilidade. Direção-Geral de Recursos Naturais, Segurança e Serviços Marítimos

4. Specific challenges or difficulties encountered during the reporting period

It has been very difficult to find data on dredging and aggregates on the central and eastern Mediterranean Sea and the Black Sea. In fact, some of the obtained data (in the internet) did not have all the necessary information available, so have not been included in the database.

5. User Feedback

Date	Name	Organization	Type of user feedback (e.g. technical, case study etc)	Response time to address user request
14/08/2015	Frankie Peckett	Joint Nature Conservation Committee	Frankie has signaled an issue with Contact Form and with downloading the files for pipelines and cables.	Frankie has been contacted by e-mail the day after he signaled the problem. The problem was sorted out a few days later. In the meantime, Frankie was sent the data he couldn't download via email.

6. Outreach and communication activities

Cultural heritage

Johan Opdebeeck, in charge of the MACHU project manifested a strong interest towards EMODNET. He will attend the meeting of October in Oostende.

7. Updates on Progress Indicators

Indicator 1 - Volume of data made available through the portal

Activity		Type/format				
		Points	Lines	Polygons	Related tables/records	Raster tiles/cells
Cultural heritage						
Mariculture	Shellfish					
	Finfish	781				
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						
Hydrocarbon extraction	Boreholes					
	Active licenses			2051		
Pipelines and cables	Landing stations (cables)					
	Schematic cables					
	Actual route locations (cables)					
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
CY	Cyprus Ports Authority	Port Authority

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
EL	Institute of Geology & Mineral Exploration	Aggregates and dredging	No reply
IE	QUESTOR CENTRE Applied Technology Unit	Aggregates	No reply
IE	Exploration and Mining Division, Department of Communications, Energy and Natural Resources	Aggregates	No reply
EL	Corfu Port Authority	Dredging	No reply
EL	Piraeus Port Authority	Dredging	No reply
EL	Division of Programming and Design of Port Works, Greek Ministry of Infrastructure, Transportation and Networks	Dredging	No reply
EL	Ydronomi Consulting Engineers	Dredging	No reply
IT	Genova Port Authority	Dredging	No reply
IT	Regione Toscana Settore protezione e valorizzazione fascia costiera e ambiente marino	Dredging	No reply
IT	Regione Emilia-Romagna, Servizio Difesa del suolo, della costa e Bonifica	Dredging	No reply
IT	Assoporti - Associazione dei	Dredging	No reply

	Porti Italiani		
IT	Ministero dell'Ambiente e della Tutela del Territorio e del Mare	Dredging	No reply
CY	Ministry of Agriculture, Natural Resources and Environment	Dredging	No reply
EL	Alexandroupoli Port Authority	Dredging	No reply

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

1st July 2015 to 31st August 2015

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

Dumped Munitions	10
Telecommunication Cables (actual)	9
CDDA	8
Shellfish Production	8
Wind Farms	8
Ocean Energy Facilities	7
Dredge Spoil Dumping	5
Hydrocarbon Extraction	5
Main Ports	4
Telecommunication Landing Stations	4
Natura2000	3
Telecommunication Cables (schematic)	3
Aggregate Extraction	2
Dredging	2
FAO Fishery Statistical Areas	1
Maritime Boundaries	1
Advisory Councils	0
Barcelona Convention	0
Bucharest Convention	0
Fish Catches	0
HELCOM Maritime Area	0
ICES Statistical Areas	0
OSPAR Maritime Area	0

Indicator 5 - Organisations that have downloaded each data type

1st July 2015 to 31st August 2015

- Ca' Foscari University of Venice (Research), IT
- CIBIO (Research), PT
- CNA (Research), US
- DEA (Energy), DE
- Department of Environment NI (Environment), UK
- EC (Research), IT
- ETT (Other), IT
- Genesis Oil and Gas (Environment), UK
- Geo-Marine Technology (Research), US
- HELCOM (Environment), FI
- HR Wallingford Ltd (Other), UK
- INGV (Environment), IT
- JNCC (Environment), UK
- JRC (Research), IT
- Mercator Océan (Environment), FR
- Orange (Other), FR
- Plymouth University (Research), UK
- Universität Bremen (Research), DE
- Witt O'Brien's (Other), UK
- WWF Italy (Environment), IT

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
Jul-15	249	02:12	335	113	45.38%
Aug-15	140	02:09	182	63	45.00%

Home

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Jul-15	1122	02:49	1,155	1,038	92.51%
Aug-15	604	01:38	912	237	39.24%

Search Data

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Jul-15	111	01:32	293	53	47.75%
Aug-15	56	00:50	203	33	58.93%

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 July 2015 to 31st August 2015

Statistics exclude Human Activities and Central Portal partners

1	Research	39.18%
2	Environment	38.14%
3	Energy	8.25%
4	Fisheries and agriculture	7.22%
5	Other	3.09%
6	Demography	2.06%
7	Education	1.03%
=	Tourism	1.03%