EMODnet Thematic Lot n° 7 - Human Activities

14th Bi-monthly Report

Reporting Period: 12/01/2016 – 07/03/2016

Date: 07/03/2016

Contents

1. Highlights in this reporting period

- Dataset pages are now appearing in Google rankings, so users searching for datasets and themes now have an improved chance of discovering EMODnet Human Activities.

- Aggregate extraction and dredging: new data from Belgium (2014) has been collected.

- On 11th January the questionnaire was activated and sent to 449 stakeholders. We collected users' feedback until the end of February. During this period 107 questionnaires were compiled. In the following weeks questionnaires' results will be analysed by our experts.

- Blog implementation: WordPress has been implemented and the current news articles have been migrated. Several blogs have been planned with SEO in mind (subject, key phrase etc.) related to Human Activities at sea and are in work by partners.

2. Work package updates

WP 2 – Development of the portal and maintenance (Lovell Johns ONLY)

Progress:

- SEO – Stage 1: Tagging
  - Dataset pages are now appearing in Google rankings, so users searching for datasets and themes now have an improved chance of discovering EMODnet Human Activities.
- SEO Stage 2: Implement Blog
  - WordPress has been implemented and the current news articles have been migrated.
  - RSS Feed of blog now available.
  - Several blogs have been planned with SEO in mind (subject, key phrase etc.) related to Human Activities at sea and are in work by partners.
- Social Media sharing tools have been added to the 'Share Map' tool, to allow direct sharing of a custom map view URL to Twitter, Facebook and LinkedIn.
- Questionnaire made live.
- WFS format now available as either XML or GeoJSON as proposed by the EMODnet Technical Working Group.

Next Steps:

- Updates of Shellfish and National Designated area datasets.
- Implementation of new datasets as they become available.
- Publishing of regular blogs

WP 3 – Data collection (All)

Aggregate extraction and dredging

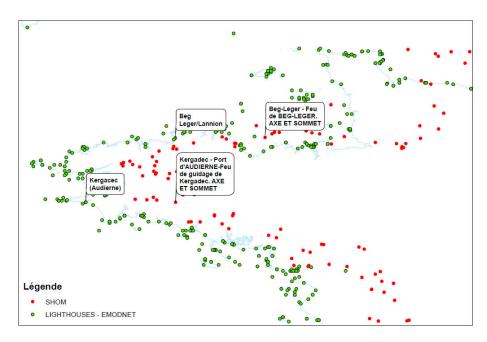New data from Belgium (2014) has been collected from the ICES WGEXT 2015 report. On the other hand, French data available in our dataset has been revised and corrected following some suggestions by Laure Simplet (IFREMER).

Cultural heritage

We had several answers from our interlocutors in the services we interrogated in order to improve the exactitude of the current coordinates and to add characterization elements.

The SHOM (French Navy's Hydrographic and Oceanographic Department) sent us a sample of data for the region Britain. The data only covers current lighthouses whereas the current dataset also provides information on destroyed and removed lighthouses. More importantly, there is an issue with the coordinates system (more details provided in the Data harmonization section) as seen on the map below (we are resolving the issue with them, answer is still pending). They can provide us database for all French lighthouses and a part of the Spanish Atlantic coast. There is a fee for data formatting. They can also provide a database of coastal fortification and wrecks.

Marine Traffic sent us a sample of data of several lighthouses in Europe. Their available database is not complete and the collected data is better in certain areas globally (they have, at least, the lighthouse's name and its location :see the table below). We asked for a cost estimate of the database, answer is still pending.

LIGHT_NAME	Chapel Rock	Lundy Island	Deal Pier	Akrotiri	Kouponisi Island	Aleria	Rotvær
ALT1	NULL	Old Light	NULL	NULL	Kouponisi	Drogheda	NULL
ALT2	NULL	NULL	NULL	NULL		NULL	NULL
LOCATION	West Coast of England	NULL	SouthEast Coast of England	Thira Island (Santorini)	Crete	East Coast	Bodø
COUNTRY	GB	SouthWest Coast of England	GB	GR	GR	IE	NO
TYPE	1	GB	1	1	2	1	1
STRUCTURE	NULL	1	NULL	Square, Stone	Metal Tower	NULL	NULL
STRUCTURE_COLOR	NULL	NULL	NULL			NULL	NULL
DESCRIPTION	NULL	NULL	NULL		lattice beacon	NULL	NULL
YEAR_BUILT	1907	NULL	2008	1892	0	1936	1914

LIGHT_NAME	Chapel Rock	Lundy Island	Deal Pier	Akrotiri	Kouponisi Island	Aleria	Rotvær
YEAR_INACTIVE	NULL	1820	NULL	NULL	0	NULL	NULL
OPERATIONAL	1	NULL	1	1	1	1	1
LON	-2.653417	0	1.408932	25.3569	26.14252	-6.238765	15.94544
LAT	51.60712	-4.673401	51.22377	36.35816	34.93375	53.72245	68.36779
HEIGHT_TOWER	8	51.16718	0	10	5	10	13
HEIGHT_FOCAL	6	0	7	100	73	11	22
POWER	NULL	0	NULL	0	0	NULL	NULL
FLASHING	Fl	NULL	F	Fl	Fl	Q	Occ
NUMBER_FLASHES	1		1	1	2	1	1
INTERVAL	2	1	0	10	16	0	6
COLOR		0	R	W	W	G	WRG
RANGE	NULL	W	NULL	24	10	NULL	NULL
ADMIRALTY	A5541	NULL	A0950		E-4830	A5912	L2785
ARLHS						IRE-136	NOR-189

The creator of Lighthousesrus.org has been contacted and his database is easily exportable. We are negotiating the kind of return we could offer him. Answer is still pending about the presence of text descriptions and picture of lighthouses in the database. This database, although it's made by non-professionals seems to be the most complete with elements on cultural heritage.

ARLHS (Amateur Radio Lighthouse Society) has been contacted to know if they have a database with precise coordinates of the lighthouses (the current database contain rounded values for the lighthouses coordinates), answer is still pending.

Dredging

New data from Spain and the Baltic Sea has been collected.

Mariculture

We had an answer of the French authority in charge of the sanitary register (Director : Didier Gueriaux), they uploaded the list on the French ministry of agriculture website : http://agriculture.gouv.fr/liste-des-etablissements-agrees-dans-les-domaines-de-la-conchyliculture-et-de-laquaculture.

There are 4 files for the sectors of fish, molluscs and crustaceans production and the sector of fish slaughtering. Information on sites location are poor, in the case of marine fish production, only two production sites out of thirteen have coordinates.

Ocean energy facilities

Considering the new data collected, this dataset has been divided into projects of maritime energy production and test sites for sea testing of energy production devices.

WP 5 – Data harmonisation (All)

Cultural heritage

Tests have been carried out on the new data provided by SHOM (French Navy's Hydrographic and Oceanographic Department) for lighthouses to compare coverage and analyse how these data could be joined with currently available data that have a wider geographic coverage (all of the EU against France and Atlantic coast of Spain. At this stage two main issues have arisen, preventing from including the new data in the current dataset:

- The SHOM metadata indicates that the coordinate systems used is WGS – 84, however this does not match with currently available data on lighthouses nor with the coastline layer from OpenStreetMap (see map in the data collection section). This is being discussed with SHOM.
- There are no common field to use to join the two datasets (e.g. identification number) and the names do not exactly match. If we want to use the SHOM data, which provides more detailed information on location, description and activity of lighthouses, we would probably have to entirely replace the current data for existing lighthouses in France by the SHOM data.

Data on wrecks still needs to be checked once we have solved the issue of the system of coordinates, but in any case, it will not be possible to join it with current data from SHPLASCOS, only available through the WMS protocol.

Mariculture

The Shellfish dataset has been updated according to the new naming guidelines and with updated data for Scotland (as of 17/02/2016).

The update of the marine finfish aquaculture dataset is ongoing.

WP 8 – Monitoring of effectiveness in addressing users' needs

On 11th January the questionnaire has been activated and sent to 449 stakeholders. We have been gathering users' feedback till the end of February. During this period 107 questionnaires has been compiled.

In the following weeks questionnaires' results will be analysed by our experts, and submitted to DG MARE, in order to identify possible modifications to improve the portal.

3. User Feedback

Date	Name	Organization	Type of user feedback (*e.g. technical, case study etc*)	Response time to address user request
13/01/2016	Emma Sullivan	National Oceanography Centre	Request for permission to use data provided by EMODnet Human Activities in a paper	1 day

4. 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	294				
	Finfish					
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)	Dumped munitions					
	Dredge spoil dumping					
Wind farms						
Fisheries	Fishery zones (FAO and ICES)					
	Fishery catches by FAO statistical area					

Hydrocarbon extraction	Boreholes					
	Active licenses					
	Offshore installations					
Pipelines and cables	Landing stations (cables)					
	Schematic cables					
	Actual route locations (cables)					
Environment	Protected areas			2163 new protected areas (CDDA), 292 of which are marine/coastal		
	State of bathing waters					
Commercial shipping, recreational shipping						
Major ports						

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

1ˢᵗ January 2016 to 29th February 2016

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

Wind Farms	18
Telecommunication Cables (actual)	16
Main Ports	15
Natura2000	15
Aggregate Extraction	13
Dredge Spoil Dumping	13
Hydrocarbon Extraction Active Licenses	12
Telecommunication Cables (schematic)	12
Finfish Production	11
Ocean Energy Facilities	10
Dredging	9
Offshore Installations	9
Shellfish Production	9
State of Bathing Waters	9

Fish Catches	7
Hydrocarbon Extraction Boreholes	5
Lighthouses	4
Telecommunication Landing Stations	4
CDDA	3
FAO Fishery Statistical Areas	3
Maritime Boundaries	3
Advisory Councils	2
Dumped Munitions	2
ICES Statistical Areas	2
Barcelona Convention	0
Bucharest Convention	0
HELCOM Maritime Area	0
OSPAR Maritime Area	0

Indicator 5 - Organisations that have downloaded each data type

Users are asked for their organisation name when downloading data or requesting WFS links. It is a non-mandatory field.

1st January 2016 to 29th February 2016

- ABPmer (Environment), UK
- AWI - Alfred-Wegener-Institut (Education), DE
- BP Crisis Management (Energy), US
- CEFAS - Centre for Environment , Fisheries and Aquaculture , Science (Fisheries and agriculture), UK
- Collecte Localisation Satellite (Environment), FR
- DeepOcean (Energy), UK
- Joint Research Centre – JRC (Research), IT
- European Food Safety Authority (Fisheries and agriculture), IT
- Fugro EMU (Environment), UK
- GMIT - Galway-Mayo Institute of Technology (Research), IE
- Ifremer (Research), FR
- IMARES - Institute for Marine Resources & Ecosystem Studies (Research), NL
- CNR-ISMAR - The Institute of Marine Sciences / National Research Council of Italy (Research), IT
- National Institute of Geophysics and Volcanology (Research), IT
- John Jay College (Education), US
- Marine Systems Institute at TUT - Tallinn University of Technology (Research), EE
- MARUM - Center for Marine Environmental Sciences (Research), DE
- MRAG (Fisheries and agriculture), UK

- National Institute of Marine Geology and Geoecology (Research), RO
- NIRAS Consulting (Environment), UK
- Periplus Group (Energy), NL
- Ramboll (Environment), DK
- Stantec (Environment), CA
- Statoil ASA (Energy), NO
- University of Malaga (Research), ES
- University of York (Environment), UK
- University of Naples (Environment), IT
- World Maritime University (Research), SE
- Xsealence (Environment), PT

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

1stJanuary 2016 to 29th February 2016

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-16	345	03:24	554	165	47.83%
Feb-16	369	03:02	584	147	39.84%

Home

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Jan-16	280	02:30	375	24	8.57%
Feb-16	150	01:03	184	37	24.67%

Search Data

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Jan-16	259	01:20	387	80	30.89%
Feb-16	237	00:57	333	120	50.63%

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 2016 to 29th February 2016

Users must select their sector when downloading data or requesting WFS links.

1	Environment	48.26%
2	Research	15.22%
3	Fisheries and agriculture	11.30%
4	Energy	9.57%
5	Education	6.52%
6	Demography	3.04%
7	Mining	2.61%
8	Other	2.17%
9	Physical planning	0.43%
=	Tourism	0.43%
=	Transport	0.43%

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

Link of EMODnet human activities to eurofish.dk and eurofishmagasine.com web pages.