EMODnet Thematic Lot n° 7 - Human Activities

12th Bi-monthly Report

Reporting Period: 09/09/2015 – 03/11/2015

Date: 03/11/2015

Contents

1. Highlights in this reporting period

- A work programme for the third year was agreed during an internal meeting with project partners

- New datasets have been made available online: offshore installations, state of bathing waters and lighthouses

- Various datasets have been updated: ocean energy, aggregate extraction, wind farms, dredging.

2. Meetings held since last report

- EMODnet – MODEG and Steering Committee: Ostend, 19 October 2015
- EMODnet Open Conference "*Consolidating the Foundations, Building the Future*": Ostend, 20 October 2015
- Thematic lot partner meetings at InnovOcean: Ostend 21 October 2015
- EMODnet Italian Day - conference call with other thematic lots: 26 October 2015

3. Work package updates

WP 1 – Project Management

During an internal meeting with project partners, which took place in Ostend on 21 October 2015, a work programme for the third year was agreed. The programme includes:

- **Data update**: prepare a data model for each dataset that will be used by data providers to send us the data; define the list of dataset that could be sent with WFS using an agreed data model; for all the datasets that cannot be send through WFS identify another method of data transmission; formalise data transmission (WFS or different method) with a Memorandum of Understanding

- **New data**: we should keep collecting data where we have poor coverage.

- **Monitoring of effectiveness in addressing users' needs (WP 8):** during the third year we will distribute a questionnaire to key stakeholders to get their feedback. Users categories have been defined and a draft questionnaire has been presented. The feedback from stakeholders will feed into a fine-tuning plan.

- **Search Engine Optimisation strategy:** in order to get more visitors we will implement an SEO strategy. We'll work on keywords, description tags and social media content. The possibility to open a 'blog section' on the Human Activities portal is under consideration.

WP 2 – Development of the portal and maintenance

Progress:

- New Datasets and metadata added:
    - o Offshore Installations
    - o State of Bathing Waters
    - o Lighthouses

- Various datasets updated:
    - o Ocean energy updated with new classifications
    - o Aggregates
    - o Wind farms
    - o Dredging

Next Steps:

- SEO – Stage 1: Propose, agree and implement method to improve keyword and description tags

- Investigate issue when importing WFS into GeoServer

- Investigate the automation of 'distance to coast' calculation

- Implementation of new datasets as they become available

WP 3 – Data collection

Aggregate extraction and dredging

Thanks to the information provided by Zomenia Zomeni (Cyprus Geological Survey), involved in EMODnet Geology, contacts have been established with the Department of Public Works (Cyprus) to improve the information on these activities in Cyprus, since their coverage on the Human Activities portal is really poor.

Cultural heritage

Underwater heritage

We received the link to MACHU database on underwater archaeology from JohanOopdebeeck on September 17ᵗʰ. Links with data were provided through WMS or WFS protocols.

A new potential source has been identified in Italy: http://www.archeomar.it/archeomar/index.php?lang=en Archeomar project mapped several submerged sites in Italy. Although the data is no more on line, it is likely that the database still exists. A contact with the Italian Ministry has been planned in order to assess the feasibility of getting access to this database.

Lighthouses

New demands were made to the following sources in order to refine the coordinates of the current database established from ARLS

- LighthousesRus www.lighthousesrus.org has been contacted again by e-mail in order to obtain their database ;
- Marine Traffic (Vessel positions tracking based on AIS data) has been asked for a financial offer for getting access to their lighthouses database : http://www.marinetraffic.com/en/ .

Replies are still pending.

Mariculture

Main facts concerning data collection on mariculture during September-october are as follows:

German Veterinary Services forwarded our request to the Federal States of Lower Saxony, Schleswig-Holstein and Mecklenburg-Pomerania. Datasets were expected to be be received at beginning of September 2015 (for German shellfish production sites). No reply was received at this time.

New request for information on finfish farms were transmitted to French authorities. Reply is still pending.

Ocean energy facilities

Information available from the Scottish Government web page (Marine Renewable Energy Projects) and the European Atlas of the Sea is being revised in order to update our data base.

WP 5 – Data harmonisation

Cultural heritage

Data transmitted through WMS or WFS protocols for SPLASHCOS and MACHU project were tested. They appears to be compatible with our procedures to integrate them into the Human Activities portal.

Links with WMS/WFS tools were thus transmitted to Lovell Johns.

Minor harmonisations have been carried out based on the stakeholders feedback:

Data / Layer	Country	Source
Other Forms of Area Management/Designation. Maritime Boundaries	Ireland	Department of Communications, Energy and Natural Resources
Maritime Boundaries: EEZ	Spain	www.marineregions.org
Dredge Spoil Dumping	Cyprus	Department of Fisheries and Marine Research. Republic of Cyprus.
Munitions dumping sites	Cyprus	Department of Fisheries and Marine Research. Republic of Cyprus.
Dredge Spoil Dumping	Croatia	Independent Public Relations and Publishing Department Ministry of Defence of the Republic of Croatia
Dredge Spoil Dumping	Greece	Panagiotis Gkionis, Lt Cdr HN Head of Geographic Policy and International Affairs Office Hellenic Navy Hydrographic Service TGN 1040, Athens. Greece.
Munitions dumping sites	Italy	Servizio emergenze ambientali in mare (SEAM).
Dredge Spoil Dumping	Portugal	Direção de Serviços de Ambiente Marinho e Sustentabilidade. Direção-Geral de Recursos Naturais, Segurança e Serviços Marítimos

4. User Feedback

Date	Name	Organization	Type of user feedback (*e.g. technical, case study etc*)	Response time to address user request
13/10/2015	Chris Moulton	OSPAR	Technical (problem with WFS)	Issue is being investigated

5. Outreach and communication activities

Date	Media	Title	Short description and/or link to the activity
21/09/2015	Ppt Presentation	Impact on the shipping industry of integrating dynamic routing with the environmental aspects of Maritime Spatial Planning	EMODnet Human Activities has been presented during the MONALISA Workshop in Genoa.

6. 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					
Aggregate extraction		261			1 related table containing 835 records	
Dredging (e.g. navigational)		891			1 related table containing 3.884 records	
Ocean energy facility		121			1 related table containing 165 records	
Other forms of area management/designation						
Waste disposal (solids, including dredge material, dumped munitions, marine constructions)	Dumped munitions					
	Dredge spoil dumping					
Wind farms		28		137		
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			118.332		
	State of bathing waters					
Commercial shipping, recreational shipping						
Major ports						

Aggregates, Dredging, Wind farms and Protected areas datasets have been completely reviewed. We consider all the stored features and related records as new data.

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

1st September 2015 to 31st October 2015

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

Wind Farms	15
Hydrocarbon Extraction Active Licenses	13
Dredging	9
Natura2000	9
Telecommunication Cables (actual)	8
Aggregate Extraction	7
Hydrocarbon Extraction Boreholes	7
Main Ports	7
Dumped Munitions	6
Finfish Production	6
Shellfish Production	5
CDDA	4
Dredge Spoil Dumping	4
Offshore Installations	4
Fish Catches	3
Ocean Energy Facilities	3
Maritime Boundaries	2
Telecommunication Landing Stations	2
Telecommunication Cables (schematic)	1
Advisory Councils	0
Barcelona Convention	0
Bucharest Convention	0
FAO Fishery Statistical Areas	0
HELCOM Maritime Area	0
ICES Statistical Areas	0
Lighthouses	0
OSPAR Maritime Area	0
State of Bathing Waters	0

Indicator 5 - Organisations that have downloaded each data type

1st September 2015 to 31st October 2015

- Ecologic Institute (Environment), DE
- EuroGOOS (Research), BE
- HELCOM (Environment), FI
- ICL (Research), UK
- INGV (Environment), IT
- Institute for Water of the Republic of Slovenia (Environment), SI
- Made Smart (Energy), NE
- Michael Carder Ltd (Other), UK
- Navionics (Other), IT
- Norwegian Coastal Administration (Transport), NO
- OSPAR (Other), UK
- Periplus Consultancy (Mining), NE
- The GIS Institute (Education), US
- The Intergovernmental Oceanographic Commission of UNESCO (Environment), FR
- Unimar (Fisheries and agriculture), IT
- Aix-Marseille University (Research), FR
- University of Southampton (Education), UK
- World Maritime University (Research), SE

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

1st September 2015 to 31st October 2015

Statistics include all visitors including partners.

View Data

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Sep-15	249	02:32	400	102	40.96%
Oct-15	199	02:14	311	129	64.82%

Home

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Sep-15	209	00:58	280	96	45.93%
Oct-15	228	04:17	280	86	37.72%

Search Data

Month	Unique Page Views	Avg. Time on Page (mm:ss)	Page Views	New Visitors	% New Visitors
Sep-15	135	02:09	394	38	28.15%
Oct-15	117	01:12	340	52	44.44%

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 September 2015 to 31st October 2015

Statistics exclude Human Activities and Central Portal partners

1	Environment	25.58%
2	Research	24.81%
3	Education	17.83%
4	Other	16.28%
5	Energy	6.98%
6	Mining	6.20%
7	Fisheries and agriculture	1.55%
8	Transport	0.78%