



EMODnet



European Marine
Observation and
Data Network

EMODnet Thematic Lot n°7 – Human Activities

EASME/EMFF/2019/1.3.1.9/Lot 7/SI2.835999

Start date of the project: 03/03/2021 (24 months)

Centralisation Phase

Quarterly Progress Report (23)

Reporting Period: 01/10/2022 – 31/12/2022



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1. Highlights in this quarter

Task 1: Maintain and improve a common method of access to data held in repositories

Updated datasets:

- Oil and gas licences
- Port traffic (goods, passengers, vessels)
- Freshwater aquaculture
- Pipelines
- Wind farms
- Military areas

Enquiry into possible new datasets to address the AAC's recommendations as regards the various regulations defining relevant areas for shellfish farming:

- o Areas classified from a health point of view under the Hygiene Package (Regulation (EC) No 854/2004) (replaced by Reg. 2017/625).
- o Areas designated under the Water Framework Directive 2000/60/EC for the protection of economically significant aquaculture species.

Enquiry into possible new data products related to cultural heritage, based on data sent through Data Ingestion Services by the Irish Marine Institute, in particular the World Heritage List of the UNESCO (not specifically marine, but marine and coastal sites could be extracted from the full list of sites).

Task 2: Construct products from one or more data sources that provide users with information about the distribution and quality of parameters in time and space

Route density maps updated to December 2022.

Update of vessel density map due in Q1 2023

Task 3: Develop procedures for machine-to-machine connections to data and data products

- Completion of the serving of Vessel Density and Route Density GeoTIFFs as ImageMosaics in GeoServer allowing the data to be served as a single WMS for each vessel type with a time dimension, both to the Central Portal and direct to users.
- Tested download and web service request logs via GeoNetwork which will form the basis of statistics going forward.

Task 4: Contribute data, data products and content to a central portal that allows users to find, view and download data and data products

- Implementation of redirects from the Human Activities portal to the Central Portal.

Task 5: Contribute content to dedicated spaces in the Central Portal

Nothing to report

Task 6: Ensure the involvement of Regional Sea Conventions

Interviews with RSCs are being scheduled as part of this task.

Task 7: Contribute to the implementation of EU legislation and broader initiative for open data

An online meeting with the US Coast Guard took place in December 2022. The US Coast Guard is using EMODnet method for vessel density mapping to work on a waterway risk model. It was agreed that they will be the subject of a use case.

Task 8: Monitoring quality / performance and deal with user feedback

Nothing to report

Task 9: Maintain the existing thematic web portal for a maximum of six months from the start of the project

- Retirement of the dedicated Human Activities portal.
- Back up of the blog database and images for possible future republication on the Central Portal.

Status of the Milestones and Deliverables listed in the workplan					
Milestone/Deliverable in numerical order	WP	Date due	Status (To do/ Delivered/ Delayed)	Date delivered	If Delayed: reason for delay and expected delivery date
e.g. M1: xxx	WP1	Dd/mm/yyyy	Delivered	Dd/mm/yyyy	...
e.g. D1.1: xxx	WP1	Dd/mm/yyyy	Delayed		...

E.g. EMODnet Human Activities work plan is not structured around milestones, as the project is managed as an iterative and incremental process.

2. Identified issues: status and actions taken

A. Priority issue(s) identified and communicated by CINEA/ DG MARE/ SECRETARIAT				
Priority issue	Status (Pending/ Resolved)	Action(s) taken/ remaining actions planned	Date due	Date resolved
EM-670 HA to check if the link to the Wind Farm layer is indeed the correct link	Resolved	Confirmed the layer is the correct one		
EM-632 Human Activities to provide input to the Tools & Guidelines section	Pending	A tutorial on how to plot vessel density maps in ArcGIS, QGIS and R was provided. The vessel density method is being rewritten to the EC template for documents so to get a DOI		

B. Issues / challenges identified by the thematic assembly group itself				
Priority issue / challenge	Status (Pending/ Resolved)	Action(s) taken / remaining actions planned	Date due	Date resolved

3. User feedback

Overview of user feedback and/or requests received in this quarter							
Date	Organisation	Type of user feedback (e.g. technical, case study, etc.) and short description of the feedback received	Means of contact	Response time	Status of user query (Resolved/ Pending)	Measures taken to resolve the query	Status: if not (yet) resolved/ pending, explain reason why and expected timeline
24/10/22	Individual	Data: User asked to add their shellfish farm to the data set	E-mail	Same day	Resolved	Farm added to the data set. Will be included as from the next release	
08/11/22	US Coast Guard	Technical: user asked about technicalities of the vessel density method.	E-mail	Same day	Resolved	Explanation provided. A call was organized to strengthen cooperation with the US Coast Guard	
10/11/22	Individual	User noticed that a pipeline reported as “planned” was never built, and so it should be removed from the data set	E-mail	Same day	Resolved	Pipeline deleted	
10/11/22	Individual	Technical: user asked to be given aquaculture data in csv format to import them into Matlab	E-mail	Same day	Resolved	Data sent as a csv file	

Overview of user feedback and/or requests received in this quarter							
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20/12/22	Individual	Data: user asked to be given access to raw AIS data	E-mail	Same day	Resolved	Explained that this is not possible as per our licence terms	
29/12/22	Individual	Technical: user asked how about to plot vessel density rasters in ArcGIS and QGIS	E-mail	Same day	Resolved	Explained how to do so	

4. Meetings/events held/attended & planned

A. Meetings/events organised and attended in the quarter					
Date	Location	Type event (internal or external meeting; training/ workshop)	Was a presentation given? (yes/no + short description)	Meeting attended (A) / organised (O)	Short description and main results (# participants, agreements made, etc.)
19/10/22	Virtual	ORE & MSP Data sharing	Live demonstration of EMODnet Human Activities	A	
05/12/2022	Virtual	Technical Expert Group - MSP Data	Yes, Presentation on Spatial overlap between human activities and seabed habitats in European Seas: Insights into EMODnet's data for management purposes. Based on paper https://doi.org/10.1016/j.marpol.2021.104551	A	https://maritime-spatial-planning.ec.europa.eu/msp-resources/technical-expert-group-teg-data-msp
14/12/2022	Virtual	Call with US Coast Guard	No, the meeting was aimed at discussed how to use EMODnet's method for vessel density mapping	O	It was agreed that the US Coast Guard will become a use case for EMODnet
SUM				O	Total # of meetings organised = 1
SUM				A	Total # of meetings attended = 2

B. Meetings/events planned in the future				
Date	Location	Type event (meeting, training (workshop), etc.)	Meeting to be attended (A) / organised (O)	Short description and main expected outcomes

5. Communication assets

A. Communication products developed				
Date	Communication material	Short description (of the material, title, ...) of the asset	Main results	Name of event at which material was disseminated (if applicable)

B. Planned communication products			
Date	Communication material	Short description (of the material, title, ...) and/or link to the asset	Main results expected

A. (Co-)Authoried peer-reviewed publications in the quarter					
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access? Yes/No
	e.g. paper; conference proceedings; book chapter; ...				

B. Other/non-peer reviewed types of publications (co-)authoried in the quarter					
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access? Yes/No
	e.g. paper; conference proceedings; book chapter; ...				

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For a compressive overview of publications referring to/making use of EMODnet data and/or data products, please consult Google Scholar.

6. Monitoring indicators

Comments on the progress indicators in the indicators spreadsheet		
Progress indicator	Means of collecting figures	Comment
1. Current status and coverage of total available thematic data A) Volume and coverage of available data	Matomo	10 data sets updated. Some of them now include fewer records. This is normal for Human Activities, as an update may result in less data (e.g. if a project is cancelled)
What is your opinion on the data coverage within EMODnet for your thematic?		Nothing to add compared with previous report. To be noted that Telegeography, a US company that used to provide data on cables (schematic routes) decided to cease extending EMODnet's right to use their data. As a result the data set had to be removed.
B) Usage of data in this quarter		No. of downloads on a markedly upward trend. This in line with previous years, as Q4 comes right after the summer.
2. Current status and coverage of total number of data products A) Volume and coverage of available data products		Vessel density maps receive an update once a year in Q1. Route density maps receive monthly update, so their volume increase by definition. Coverage is 100% in both cases
B) Usage of data products in this quarter		No. of downloads on a markedly upward trend. This in line with previous years, as Q4 comes right after the summer.
3. Internal and external organisations supplying/approached to supply data and data products within this quarter		Nothing to report
4. Online 'Web' interfaces to access or view data		Nothing to report

5. Statistics on information volunteered through download forms		Business users stable at ~26%
6. Published use cases		Nothing to report
8.1. Technical monitoring		Nothing to report
9. Visibility & Analytics for web pages		Upward trend in Q4 in line with past years
10. Visibility & Analytics for web sections		Upward trend in Q4 in line with past years
11. Average visit duration for web pages		Stable trend

The monitoring numbers reported as part of the progress monitoring of EMODnet performance are collected through Matomo and/or Europa Analytics, unless reported otherwise.

7. Annex: Other documentation attached

PPT with TEG presentation attached as a separate annex.