



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)

EMODnet Phase III – Quarterly Progress Report (19)

Reporting Period: 01/10/2021 – 31/12/2021



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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 data sets:
 - o Aggregate extraction (point and areas)
 - o Fish catches
 - o Fishing intensity (now includes North Sea and Baltic)
 - o Port traffic
 - o Algae production
 - o Shellfish production
 - o Wind farms
 - o MSP (now includes Latvia's spatial plan)
- Cultural heritage
 - o Data harmonisation for Wrecks in England and in the Mediterranean Sea has been completed.
 - o Data harmonisation for wrecks in Ireland is ongoing
- Aquaculture
 - o New data for Spain and Slovenia has been processed for the Shellfish dataset.
 - o Updated data for Ireland, Scotland, Norway, Denmark and Greece has been processed for the Shellfish dataset
 - o Contacts have been made with the Associazione Piscicoltori Italiani to build up collaboration to have access to Italian data on farm locations. The API has accepted to provide EMODnet team with data on farms locations in a progressive manner.
 - o Update of the freshwater dataset is ongoing

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 2021
- 2021 AIS data acquired to update vessel density maps

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

- All web services have been migrated to an EU-based server, using the latest version of GeoServer
- GeoNetwork is installed and metadata has been imported.
- GeoNetwork available under SSL (<https://ows.emodnet-humanactivities.eu/>)
- We have enabled cross origin resource sharing for OGC webserver (requested by EMODnet Seabed Habitats)
- We have demonstrated that NetCDF can work effectively in Geoserver using a time series

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

- Revision of the central portal map viewer in progress

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

Nothing to report

Task 6: Ensure the involvement of Regional Sea Conventions

Nothing to report

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

- Meeting held with the Italian institute that is developing Italy's MSP
- TEG MSP meeting to discuss progress
- Organisation and attendance to two session's internal workshops for the presentation, testing and discussion on the implementation of a single data model (EHA model designed in the first quarter of 2021) for all (or most) EMODnet human activities layers more closely conformant to INSPIRE and MSP data models.

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

Nothing to report

Status of the Milestones and Deliverables listed in the workplan

Milestone/Deliverable	WP	Date due	Status (Delivered/Delayed)	If Delayed: reason for delay and expected delivery date
e.g. M1: xxx	WP1	Dd/mm/yyyy		
e.g. D1.1: xxx				

N.B. the workplan of EMODnet Human Activities is not structured around milestones, other than project deliverables.

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
Human Activities to report on number and volume of downloaded data and data products by 29th of October 2021	Resolved			27/10/2021
Review of the Central Portal Map Viewer	Pending	Review to be completed		

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 (Contact Us form, online chat & other communication means)

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
09/10/2021	Individual	Info: user asked whether vessel density maps would be updated to 2021	E-mail	Same day	Resolved	Answered positively	
12/10/2021	Individual	Technical: users asked to obtain the routes generated to make the density maps	E-mail	Same day	Resolved	Explained this is not possible as the data are property of a commercial provider	
13/10/2021	Individual	Technical: user asked for maritime boundaries data in GeoJSON format	E-mail	Same day	Resolved	Convert the data set from shp to GeoJSON	
14/10/2021	Individual	Technical: user asked why he couldn't download submerged archaeology data	E-mail	Same day	Resolved	Explained that the data provider only agreed to make data available as WMS	
14/10/2021	Individual	User asked if he could use a screenshot in a publication	E-mail	Same day	Resolved	Answered positively and shared a link to the terms of use	

Overview of user feedback and/or requests received in this quarter							
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29/10/2021	Individual	Technical: user needed historical AIS data	E-mail	Same day	Resolved	Explained these are not available	
01/11/2021	Individual	Technical: user couldn't find an extraction area list on EMODnet on the primary source's website	E-mail	One day	Resolved	Explained where to find it	
02/11/2021	OSPAR	User asked clarification to incorporate wastewater data into their portal	Via EMODnet Secretariat	Same day	Resolved	Explained	
03/11/2021	Individual	Technical: user asked why he couldn't download submerged archaeology data	E-mail	Same day	Resolved	Explained that the data provider only agreed to make data available as WMS	
05/11/2021	Individual	Technical: user needed to import a gdb into QGIS	E-mail	Same day	Resolved	Explained how to do it	
16/11/2021	Individual	Technical: user asked to be given raw AIS data	E-mail	Same day	Resolved	Explained that the raw data is property of a commercial provider	

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
03/12/2021	Individual	Technical: user asked how to download fishing vessel density maps	E-mail	Same day	Resolved	Explained	
03/12/2021	Individual	Technical: user noticed an issue with the protected areas WMS	E-mail	Same day	Resolved	Fixed	

4. Meetings/events held/attended & planned

N.B.: meetings with the Secretariat and / or the central portal are not listed below

A. Meetings/events organised and attended					
Date	Location	Type event (internal or external meeting, training/workshop)	Indicate if a ppt was given (yes/no + short description)	Meeting attended (A) / organised (O)	Short description and main results (# participants, agreements made, etc.)
25/10/2021	Online	External	no	A	Support to Italian MSP and 'ingestion' to the EMODnet Portal. They agreed on the adoption of the EMODnet HA MSP data model for the Italian MSP plan
23/11/2021	Online	External	Yes, short description of the work developed in the sub-group of the socioeconomic impact of MSP	A	Technical Expert Group of Marine Spatial Planning at European level. Sub-groups about metadata, MSFD and socio-economic (among others) explained their advances.
18/10/2021	Remote	Internal workshop	yes	O	First session of Workshop for Emodnet human activities' single model proposal: Participants EMODNETs human activities partners. Objective: Presentation and practical testing of the EHA single model for human activities layers in EMODnet portal.
19/11/2021	Remote	Internal Workshop	yes	O	Second session on of Workshop for Emodnet human activities' single

A. Meetings/events organised and attended					
Date	Location	Type event (internal or external meeting, training/workshop)	Indicate if a ppt was given (yes/no + short description)	Meeting attended (A) / organised (O)	Short description and main results (# participants, agreements made, etc.)
					<p>model proposal: Participants EMODNETs human activities partners.</p> <p>Objective: Follow on on discussions and practical testing of the EHA single model for human activities layers in EMODnet portal.</p>
SUM				O	Total # of meetings organised = 2
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
20 January 2022	Remote meeting	MedOsmosis workshop	A	Presentation of EMODnet HA

5. Communication assets

A. Communication products				
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

List of known publications using EMODnet data or data products

Date	Type and name of journal, conference, ...	Publication title including DOI (if known)	Author(s)	Organisation(s)
14/11/2021	Marine drugs	Microalgae as Sustainable Biofactories to Produce High-Value Lipids: Biodiversity, Exploitation, and Biotechnological Applications (https://doi.org/10.3390/md19100573)	Fernandes T., Cordeiro N.	Laboratory of Bioanalysis, Biomaterials, and Biotechnology (LB3), Faculty of Exact Sciences and Engineering, University of Madeira; Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), University of Porto
October 2021	n.a.	Suitability Analysis for the Identification of Allocated Zones for Aquaculture (AZAs) in the Tyrrhenian Sea, Italy (10.13140/RG.2.2.23154.6368)	Cardia F. et al.	ISPRA
6 November 2021	Remote Sensing	A Multidisciplinary Approach for the Mapping, Automatic Detection and Morphometric Analysis of Ancient Submerged Coastal Installations: The Case Study of the Ancient Aegina Harbour Complex (https://doi.org/10.3390/rs13214462)	Georgiou N. et al.	Laboratory of Marine Geology and Physical Oceanography, Department of Geology, University of Patras
19 December 2021	Journal of Marine Science and Engineering	Characteristics of the Wind and Wave Climate along the European Seas Focusing on the Main Maritime Routes (https://doi.org/10.3390/jmse10010075)	Chirosca A-M., Rusu L.	Department of Mechanical Engineering, Faculty of Engineering, "Dunarea de Jos" University of Galati
October 2021	Wageningen Research Report	Cumulative impacts of wind farms on the North Sea ecosystem (https://doi.org/10.18174/556024)	Piet G.J., Tamis J.E., van der Wal J.T., Jongbloed R.H	Wageningen University

23/09/2021	Transaction on Maritime Science	Impact of Spoofing of Navigation Systems on Maritime Situational Awareness (10.7225/toms.v10.n02.w08)	Androjna A., Perkovič M.	University of Ljubljana,
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6. Monitoring indicators

Comments on the progress indicators in the excel template		
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/ other (Please state which monitoring tool was used to collate the information in each case)	Increased volume, as a result of updating aggregate extractio, fish catches, fishing intensity, main ports, algae production, shellfish production, wind farms and MSP
B) Usage of data in this quarter		Increased usage compared with the previous quarter. The upward trend was expected, as the previous quarter covered the summer months
2. Current status and coverage of total number of data products A) Volume and coverage of available data products		Route density increases volume as a result of monthly updates. Vessel density will be updated in Q1 2022
B) Usage of data products in this quarter		Increased usage for vessel density after the summer months. Route density on a downward trend for no apparent reason
3. 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		17% users from North America is interesting – if it is genuine information. Difficult to understand why
6. Published use cases		Nothing to report
8.1. Technical monitoring		Nothing to report
8.2. Portal user-friendliness (Visual harmonization score)		Nothing to report
9. Visibility & Analytics for web pages		Visibility slightly increasing after the summer months, as expected
10. Visibility & Analytics for web sections		Blog visibility decreasing as no new posts were released
11. Average visit duration for web pages		Nothing to report

The monitoring numbers reported as part of the progress monitoring of EMODnet performance are collected through Matomo. In some cases, numbers from other monitoring systems may also be reported (e.g. Awstats, Google Analytics), and if so, must be reported in the table above. Each system uses different technical approaches and therefore has its strengths and shortcomings. Therefore, results are indicative and care should be taken when interpreting absolute numbers or comparing results from different tools. It is often more sensible to consider trends over time collected by the same monitoring tool.

7. Annex: Other documentation attached

[List in Annex if you wish to provide any additional information.]