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 (22)

Reporting Period: 01/07/2022 – 30/09/2022

Contents

Disclaimer

The information and views set out in this report are those of the author(s) and do not necessarily reflect the official opinion of the CINEA or of the European Commission. Neither the CINEA, nor the European Commission, guarantee the accuracy of the data included in this study. Neither the CINEA, the European Commission nor any person acting on the CINEA's or on the European Commission's behalf may be held responsible for the use which may be made of the information.

1. Highlights in this quarter

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

Updated data sets:

- Aggregate extraction (points and polygons)
- Ship wrecks
- Dredging
- Fish catches
- Fish sales
- Ocean energy facilities (projects and test sites)
- Urban wastewater treatment plants
- Urban wastewater discharge points
- MSP

New data sets:

- World database of protected areas: this is an entirely new data set that includes coastal and marine protected areas in the European seas for those countries that are not covered by the EEA's Common Database on Designated Areas (CDDA). The data set is entirely based on data from the World Database on Protected Areas and is fully harmonised with the EEA's data set.

Further, the freshwater aquaculture data set has been updated with new data for Poland, Scotland, Austria, Belgium, Croatia, Czechia, Norway, Estonia, Slovenia, Spain, Lithuania, Slovakia and Sweden. The update has not yet been made live. A new data set with production data by group of main species is being developed.

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 August 2022.

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

Successfully tested the serving of Vessel Density GeoTIFFs as ImageMosiacs in GeoServer. This allows Vessel Density raster data to be served as a single WMS for each vessel type with a time dimension. In the short term, this is a solution to allow us to publish the dataset in the Central Portal viewer until we can successfully serve Vessel Density in NetCDF format.

Created legend images in GeoServer for WMS and use by Central Portal.

Created HTML templating in GeoServer to return attribute data in a more concise manner.

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

All in good order for repatriation

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

Work to promote the MSP data set and data model is ongoing. See section on events for more info.

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 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
EMODCOM-136: EMODnet Human Activities: Frontex use case	Pending	The use case is ready, but Frontex are not yet releasing due to confidential information.	September 2022 Awaiting reply	
EMODCOM-137: EMODnet HA: method vessel density maps applied to Korea	Pending	Graduate from Korea Maritime and Ocean University has applied EMODnet HA's method to calculate vessel density to Korean Waters. She agreed to become a use case but asked to wait until she complete her dissertation	Undefined	
EM-629 Standardise the navigation menu for thematic portal subpage on left hand side	Resolved	Comments provided to the central portal team		
TWG4 - Action point 7: Implement support of time dimension in EMODnet Human Activites Geoserver (WMS-Time, WCS-Time)	Resolved	ImageMosaic was used to group GeoTIFFs. Note that this is a temporary fix as we're working to convert GeoTIFFs to NetCDF.		

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
05/07/2022	Individual	Data: user asked about construction date of wind farms	E-mail	Same day	Resolved	Explained that this information is not available for all wind farms	
12/07/2022	Individual	Technical: user reported an issue with exporting data on shellfish farm	E-mail	Same day	Resolved	Upon further investigation, it turned out that the issue was on the side of the user	
03/08/2022	Individual	Context information: user asked about activity constraints in wind farm area	E-mail	Same day	Resolved	Explained that EMODnet HA does not deal with legislation	
01/09/2022	Individual	Data: user asked to be given access to AIS data	E-mail	Same day	Resolved	Explained that this is not possible, as the data is property of a commercial provider	
02/09/2022	Individual	Data: user asked to include their company in the macroalgae database	E-mail	Same day	Pending	The data set is mantained by the JRC. The people	

						responsible are no longer working for the JRC.	
14/09/2022	Individual	Technical: user had issues with importing file geodatabase into QGIS	E-mail	Same day	Resolved	Explained how to do it	
19/09/2022	Individual	Technical: user asked how to retrieved coordinates from a shapefile	E-mail	Same day	Resolved	Explained how to do it	
20/09/2022	Individual	Visualization: user noted that in the MSP data set uses often overlap and it is not easy to tell them apart	E-mail	Same day	Pending	Visualization style should be adapted to avoid confusion	It is recommended to first finalize the repatriation and then work on small improvements.
20/09/2022	Individual	Data: user asked to be given access to AIS data	E-mail	Same day	Resolved	Explained that this is not possible, as the data is property of a commercial provider	
28/09/2022	Individual	Data: user need a graphic representation of the Nord Stream pipeline for a famous US newspaper	E-mail	Same day	Resolved	Explained how to obtain it from the shapefile available on EMODnet	

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.)
06-07/07/22	Las Palmas (Spain)	External meeting	Yes, Technical Expert Group on Maritime Spatial Planning data	A	Presentation of the development of the EU MSP Layer. EMODnet Human Activities portal in the frame of the TEG MSP data group of DG-MARE
13/07/2022	Online	Aquaculture Advisory Council and EMODnet on shellfish farming zoning	No. The meeting was aimed at discussing how to follow up on certain recommendations put forward by the AAC	A	Initial framework was established, but more meetings are needed.
09/09/22	Online	Community of Practice (workshop)	No	A	CoP-meeting of the Ocean Governance learning strand, organized by the "Emerging ecosystem-based Maritime Spatial Planning topics in North and Baltic Seas Region (eMSP NBSR) Project"
01/09/22	Online	Community of Practice (workshop)	No	A	The EMODnet HA Portal participates in the Community of Practice of the European project eMSP. The WS will also focus on terminology use in the different countries regarding MSP implementation as well as data needed for each eMSP-NBSR learning strands (Ocean Governance, Ecosystem based approach,

Date	Location	Type event	Description	A/O	Link
					Monitoring and evaluation and Sustainable blue economy). In the case of Denmark, they highlight the cooperation with EMODnet HA and acknowledge the data model for MSP developed in the frame of the TEG. They mention EMODnet (and Basemap – Helcom-) as the international initiatives where they adapt their MSP plan. In the case of Italy, they presented their MSP data model and explained that they are developing a tool to transform their national plan into the EMODnet HA data model for MSP.
20/09/2022	Online	EMODnet-for-business two-day workshop on Offshore energy sector	Yes. Live demonstration of EMODnet HA data for the offshore renewable energy industry	A	https://emodnet.ec.europa.eu/en/emodnet-business-two-day-workshop-offshore-energy-sector
SUM				**O**	**Total # of meetings organised =**
SUM				**A**	**Total # of meetings attended =**

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

[In Table A, list peer reviewed publications directly (co-)authored by consortium and project partners in the reporting period. In Table B, list all non-peer reviewed publications (co-)authored. In all cases, indicate the type of publication, provide the full reference incl. title, volume and issue etc., and whether the publication is open or closed access.]

A. (Co-)Authored 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-)authored 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; …				

EMODnet
European Marine
Observation and
Data Network

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	Volume goes up as several data sets received an update. Notable improvement in coverage of ship wrecks thanks to the addition of new sources.
What is your opinion on the data coverage within EMODnet for your thematic?		
B) Usage of data in this quarter		Usage goes down, but this is normal in Q3, which includes the month of July and August. Interestingly, web services requests increased.
2. Current status and coverage of total number of data products A) Volume and coverage of available data products		Volume increases by definition as route density maps receive regular updates each month. Coverage is 100% and can't increase.
B) Usage of data products in this quarter		Usage goes down, but this is normal in Q3, which includes the month of July and August. Interestingly, web services requests increased.
3. Internal and external organisations supplying/approached to supply data and data products within this quarter		3 new ship wrecks sources made it possible to improve coverage considerably
4. Online 'Web' interfaces to access or view data		Nothing to report

5. Statistics on information volunteered through download forms		Business users at 35%
6. Published use cases		Nothing to report
8.1. Technical monitoring		Nothing to report
9. Visibility & Analytics for web pages		Nothing to report
10. Visibility & Analytics for web sections		Downward trend, but this is to be expected in the summer months
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 and/or Europa Analytics, unless reported otherwise.

7. Annex: Other documentation attached

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