

# EMODnet Thematic Lot n°3 – Seabed Habitats

EASME/EMFF/2020/3.1.11/Lot3/SI2.843624

Start date of the project: 25/09/2021 - (24 months)

**Centralisation Phase** 

### Quarterly Progress Report (3)

Reporting Period: 01/04/2022 - 30/06/2022



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#### Disclaimer

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# **1.** Highlights in this quarter

[List progress for each of the tasks specified in Section 1.4.1 of the Tender Specifications; provide an explanation for any tasks in which progress has not been noted. Provide in the table a list of all Milestones and Deliverables as from the technical workplan in numerical order, the date due and status. Max 2 pages]

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

- A new data exchange format, confidence assessment method and guidance document have been developed and published, which will ensure a common format for sharing essential fish habitat maps a new theme for this phase of EMODnet (D2.11).
- In response to the widening spatial (Caribbean and Caspian) and thematic (coastal wetlands) scope in the most recent phase, we were also required to review the data exchange format for seabed habitat maps. We have now developed and published an updated data exchange format that is able to accept coastal wetland maps and is generally more flexible about which classification systems are accepted. It also consolidates three separate data exchange formats that previously existing into a single format that will be easier to understand (D2.03, D2.08).

# 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

- For the new broad-scale seabed habitat map for the Caspian Sea:
  - environmental data layers have been prepared from existing data archives on KdPAR (light attenuation in the water column), wave wavelength, seabed temperature and salinity (D1.07).
  - Benthic species data were identified from literature and a statistical cluster analysis carried out to identify communities.
  - Ifremer and GeoEcoMar met in Constanta (Romania) for a two-day workshop to make progress in the definition of physical seabed habitats in the Caspian Sea (D1.05). Decisions were made about the broad habitat classes to map, input data to use and thresholds for classifying the input data (D1.10).
- We have drafted a summary of the composite data products that we plan to produce, and/or have the capacity to produce, which we intend to share with regional sea conventions and other stakeholders. The intention is to gather their feedback about requirements (D3.01).
- Through a subcontract with DHI, we now have a now one-year mean prediction for the depth to the halocline in the Baltic Sea (D1.09). The next step is to produce a multi-year mean for use in EUSeaMap.
- An online workshop was held in June to ensure that all partners understood what was required for formatting habitat maps and point data for submission to EMODnet, and to check progress (D2.01, D2.02).

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

• Connections to HELCOM Mapping and Data Service have been re-established following some changes at their end causing the linkages to break (D4.17).

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

• As a portal with a significantly large number of products on offer, both through its catalogue but also through its current thematic web mapper, we have worked with the Central portal team to produce a



list of layers to prioritise for transfer to the central portal, highlighting urgent/key datasets which MUST be transferred to the central portal before decommissioning of the thematic site, and remaining prioritised datasets which could be added in a future migration phase. In addition to this, we have worked to successfully provide merged options for some of its layers that appear in the current interactive map, again working with the Central team to identify merging opportunities, suitable technical solutions, and have begun trialling the creation of additional merged layers ready for centralisation in earnest.

• Prioritisation has successfully identified 81 key layers out of 258 currently available in the Seabed Habitats interactive map, and grouping has successfully reduced this number to around 50. We will continue to liaise with the central team in the next quarter to continue the centralisation efforts.

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

• We have agreed the final text for the Seabed Habitats information pages on the central portal.

#### Task 6: Ensure the involvement of regional sea conventions (RSC)

 Through discussion with OSPAR, we have embedded EMODnet Seabed Habitats into the 2022 data call for data on threatened and/or declining habitats in the northeast Atlantic by expliciting offering our services to gather and format data for compilation in the database. Furthermore, we have encouraged the use of an existing EMODnet product (Macroalgal canopy cover) to form the baseline dataset for a new habitat that has been added to the threatened and/or declining list: Kelp Forests.

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

- Based on a request from the OSPAR Intersessional Correspondence Group dealing with marine assessments, we have produced a translated version of the combined EUNIS habitat map for the northeast Atlantic that shows MSFD Benthic Broad Habitats. This was requested for use by Member States in their upcoming MSFD assessments.
- In May, we sent a formal letter to the four most relevant ICES Working Groups (Marine Habitat Mapping, Deep-water Ecology, Benthos Ecology and Biodiversity Science) to promote our products and services, and to show willingness to engage with them and their requirements. They all acknowledged receipt and committed to review (D5.03).

#### Task 8: Monitor quality/performance and deal with user feedback

- We receive instant alerts about web performance problems and resolve them as necessary.
- We have received several pieces of feedback through our web form and always respond and resolve any issues promptly (see User Feedback table).

#### Task 9: Maintain the existing thematic web portal for a maximum of 6 months from the start of the project

• We have continued to maintain the existing thematic web portal for even longer than 6 months.



Status of the Mi	leston	es and Delive	rables listed	in the workplan
			Status	
			(Delivered/	If Delayed: reason for delay and
Milestone/Deliverable	WP	Date due	Delayed)	expected delivery date
D1.01: Modified substrate data				
product including biogenic substrate				
and data not possible to include in				
EMODnet Geology product, but which				
would improve the broad-scale seabed habitat map for Europe (EUSeaMap)				
[dependent on new product from				
Geology]	1	25/05/2023		
D1.02: Confidence layer for modified	-	23/03/2023		
substrate data product published	1	25/05/2023		
D1.03: A ready-to-use DTM for	-	23/03/2023		
EUSeaMap	1	25/05/2023		
D1.04: Confidence layer for the DTM	_	,		
product published	1	25/05/2023		
D1.05: EUNIS-style habitat				
classification in the Caspian Sea for				
broad-scale habitat mapping	1	25/09/2022		
D1.06: EUNIS-style habitat				
classification in the Caribbean Sea for				
broad-scale habitat mapping	1	25/12/2022		
D1.07: Environmental layers for the				
Caspian Sea ready for EUSeaMap	1	25/12/2022		
D1.08: Environmental layers for the				
Caribbean Sea ready for EUSeaMap	1	25/12/2022		
				subcontractor requiring more time.
				New expected due date: end of
				09/2022. Nothing to worry about. The
				deliverable is internal to the project.
				It is an input to EUSeaMap, and
				having it ready after the planned deadline (05/2022) will not jeopardise
D1.09: Halocline layer for the Baltic				the delivery date of EUSeaMap
Sea ready for EUSeaMap	1	25/05/2022	Delayed	(09/2023).
D1.10: Thresholds for Caspian,	-	_0,00,2022	20.0100	(/====).
Caribbean, Baltic, and Mediterranean				
Seas	1	25/05/2023		
D1.11: Broad-scale seabed habitat				
map for Europe, Caribbean Sea, and				
Caspian, in EUNIS 2019 and MSFD				
broad habitat classifications, including				
a column that describes the habitat		05 /00 /000		
descriptor classes	1	25/09/2023		
D1.12: Confidence assessment for				
updated broad-scale seabed habitat		25/00/2022		
map in all considered classifications	1	25/09/2023		



D1.13: Confidence associated to all				
environmental layers published	1	25/09/2023		
D1.14: A R script automating the				
calculation of environmental layers at				
the seabed from a CMEMS product				
archives	1	25/09/2022		
D1.15: Technical report published	1	25/09/2023		
D1.16: Well-documented R code and				
ArcGIS models used to construct the				
broad-scale seabed habitat map	1	25/09/2023		
D1.17: For Swedish waters, a modelled				
habitat map based on Geology's novel				
type of seabed substrate map for				
habitat modelling [dependent on				
applicability if this new type of map to				
habitat modelling]	1	25/12/2022		
D2.01: An expanded library of maps of				
communities, biocenoses, biotopes				
and habitats for all of Europe,				
Caribbean Sea and Caspian Sea				
ingested and converted to a standard		25/2/22-		
format, with metadata for every map	2	25/8/23		
D2.02: An expanded collation of point				
records of communities, biocenoses,				
biotopes and habitats for all of Europe,				
Caribbean Sea and Caspian Sea				
ingested and converted to a standard				
format, with metadata for every		25/2/22-		
dataset	2	25/8/23		
D2.03: Updated and integrated				
templates for habitat map data				
exchange formats	2	25/11/2021	Delivered	Delivered
D2.04: Webinars, tutorials or other				
forms of training material on the				
EMODnet Seabed Habitats data				
submission process	2	25/12/2021	Delivered	Delivered
D2.05: An expanded library of				
modelled maps of specific habitats for				
all of Europe ingested and converted				
to a standard format, with metadata		25/2/22-		
for every dataset	2	25/8/23		
D2.06: Evidence of use of the				
EMODnet Ingestion and safe-keeping				
of marine data facility for ingesting				
data points, maps and models from				
third parties	2	25/09/2023		



				A final draft of a translation table between Ramsar wetlands and Habitats Directive Annex I habitats, accompanied by explanatory notes
D2.07: Translation tables for coastal wetland types into one or more				and justifications, has been shared with project partners from all regions for review. The final, reviewed version
standard classifications	2	25/01/2022	Delayed	is due to be published within weeks.
D2.08: A data submission process and			,	•
protocol for coastal wetlands types				
maps and points	2	25/01/2022	Delivered	Delivered
D2.09: Controlled vocabulary lists for				
classification systems published on		25/12/21-		
NERC Vocabulary Server, as required	2	25/08/23		
D2.10: A library of maps of Essential				
Fish habitats maps for major fish				
species in the Mediterranean, North				
East Atlantic and Baltic Sea ingested				
and converted to a standard format,	_	25/2/22-		
with metadata for every map	2	25/8/23		
D2.11: A data submission process and				
protocol for Essential Fish Habitats	h	25 /01 /2022	Delivered	Delivered
maps D2.12: Formal protocol for data	2	25/01/2022	Delivered	Delivered
sharing and identification of relevant				
benthic data between EMODnet				
Biology and EMODnet Seabed Habitats	2	25/09/2022		
D2.13: Updated data model and		-,, -		
guidance for benthic point data	2	25/09/2023		
D2.14: A standard transformation		<u> </u>		
between OSPAR T&D data schema and				
OBIS Schema to enable import into				
OBIS, including a test pilot run using				
the 2022 OSPAR T&D database	2	25/09/2022		
D2.15: Agree a protocol with the				
OSPAR commission for the continued				
archiving of the public database within				
the OBIS network, pending success of D2.14	2	25/09/2023		
D2.14 D2.16: List of point datasets, maps and	2	23/03/2023		
models available via machine-to-		25/11/21-		
machine connections	2	25/8/23		
D2.17: Progress log for the ingestion of	_	25/10/21-		
point data, maps and models	2	25/09/23	Delivered	Delivered
D3.01: A list of products to be created				
or updated and product specifications	3	25/03/2022		
D3.02: A combined, harmonized data				
product showing the best evidence for				
extent and distribution of the Essential				
Ocean Variable "Live hard coral cover"				
in Europe, with metadata (updated)	3	25/08/2023		



D3.03: A combined, harmonized data					
product showing the best evidence for					
extent and distribution of the Essential					
Ocean Variable "Seagrass cover" in	-	25/22/2222			
Europe, with metadata (updated)	3	25/08/2023			
D3.04: A combined, harmonized data					
product showing the best evidence for					
extent and distribution of the Essential					
Ocean Variable "Macroalgal canopy					
coral cover" in Europe, with metadata	3	25/08/2023			
(updated) D3.05: A combined, harmonized data	5	23/08/2023			
product showing the best evidence for					
the extent of wetland type in Europe,					
Caspian Sea and the Caribbean, with					
metadata (new)	3	25/04/2023			
D3.06: Data contributed to a		25/04/2025			
harmonized data product showing the					
best evidence for extent and					
distribution of the Essential Ocean					
Variable "Mangrove cover and					
composition", with metadata (new, if					
required)	3	25/08/2023			
D3.07: Evaluation of EFH approaches					
to determine map suitability to					
combine into products useful for					
fisheries management and biodiversity					
conservation	3	25/05/2023			
D3.08: Combined, harmonized data					
products showing the best evidence					
for extent and distribution of habitats					
defined in other classifications in all					
regions, with metadata, depending on					
stakeholder needs (new)	3	25/08/2023			
D3.09: An updated combined,					
harmonized data product showing the					
best evidence for the extent of					
biogenic substrate in all regions, with	2	25/04/2022			
metadata (updated)	3	25/01/2023			
D3.10: Report detailing the					
construction of the biogenic habitat data product (updated)	э	25/05/2023			
D3.11: Report(s) detailing the	3	25/05/2023			
construction of the data products					
defined by stakeholder needs (new)	3	25/09/2023			
D3.12: Report detailing the	3	25/05/2025			
construction of the Essential Ocean					
Variable data products (updated)	3	25/09/2023			
D4.01: A web portal including a digital	5	25,05,2023			
map, facilities for downloading data,					
metadata search and technical					
information	4	25/09/2021	Delivered	Delivered	



D4.02: Contribute to EMODnet		As		
Technical Working Group as necessary	4	necessary		
		Within 1		
D4.03: Minutes & actions from		month of		
Technical Working Group within 1		each		
month of meeting	4	meeting		
D4.04: Ad hoc changes to website and				
visual identity, as requested by		25/10/21-		
Secretariat	4	25/03/22		
D4.05: A set of data schema standards		23/03/22		
for the provision of habitat data, built		25/00/2021	Delivered	Delivered
upon international standard.	4	25/09/2021	Delivered	Delivered
D4.06: Method for indirect cascading				
of problematic external services prior				
to onward publication	4	25/12/2022		
				As explained in the previous quarter;
				progress is pending some changes to
D4.07: Habitat ground-truthing data				the EurOBIS toolsets, but we are on
from EurOBIS extracted via web				track for the revised delivery date of
services	4	25/12/2021	Delayed	25/09/23.
D4.08: IPT (or alternative)				
infrastructure for the publication of				
habitat data into EurOBIS	4	25/08/2023		
		23,00,2023		
D4.09: Internal database of				
unpublishable habitat data for use in		05/00/0004		
WP1 and to aid public discoverability	4	25/09/2021	Delivered	Delivered
D4.10: A GeoServer web-server for the				
provision of OGC spatial web-services				
(WMS, WFS, WCS)	4	25/09/2021	Delivered	Delivered
D4.11: A plan of action for the				
provision of key habitat datasets as				
attributed raster data	4	25/08/2022		
D4.12: A GeoNetwork INSPIRE-				
compliant metadata instance with				
OGC CSW capabilities	4	25/09/2021	Delivered	Delivered
D4.12. Dublication to the control of the		25/03/22		
D4.13: Publication to the central portal		with		
of relevant data and products		updates at		
collected and created under WP1 and		least every		
WP2	4	6 months		
D4.14: Website liaison and training				
node between lot partners/content				
creators and central portal team.	4	25/09/2021	Delivered	Delivered
D4.15: Transfer of key habitat mapping		. ,		
resources from the thematic portal to				
the central portal	4	25/09/2022		
D4.16: Direct link to the HELCOM	-	23/03/2022		
Mapping and Data Service, and similar				
services from other Regional Sea		25/02/2225		
Conventions where feasible	4	25/03/2022	Delivered	Delivered



D4.17. A direct data link to the ICESVulle database, providing access toVulle database, providing access toVullerable marine ecosystem data425/03/2022DeliveredDeliveredD4.18. Tracked issues and suggestionsregarding the portal and services, and425/09/2021DeliveredDeliveredD4.19. Abstracts submitted for annual4depends onConferenceDeliveredD4.20. Publication of relevant4depends onDeliveredD4.20. Publication of relevant425/12/2022UllevantDeliveredD4.21. Uncorrects, datasets and services225/09/2021DeliveredDeliveredD4.23. Provision of Matom (or similar as steered by secretariat) web analytics information to secretariat for reporting225/09/2021DeliveredDeliveredD4.24. Statistics from OGC webservice usage to be guided by secretariat.425/12/2021DeliveredDeliveredD5.01. Evidence of efforts to ensure maximum coherence with data delivery to and from regional sea conventions525/09/2023DeliveredDeliveredD5.02. Updated review of RSC needs525/01/2022DelayedDeliveredDeliveredD5.03. Liake with ICES in advance of annual WG meetings to ascertaria products they require for reporting525/03/2023DelayedDeliveredD5.03. Tubrials for creating mer mays products they require for reporting525/03/2023DelayedDeliveredD5.04. Tubrials for creating mer mays products they require					
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D5.08: Minutes of meeting(s) with EMODnet biology 5 25/03/2022 Delivered Delivered	-		25/01/22-		
EMODnet biology 5 25/03/2022 Delivered Delivered	to fulfil reporting obligations	5	25/09/23		
	D5.08: Minutes of meeting(s) with				
D5.09: Communications plan 5 25/01/2022 Delivered Delivered	EMODnet biology	5		Delivered	
	D5.09: Communications plan	5	25/01/2022	Delivered	Delivered



D5.10: New use cases on the EMODnet central portal	5	25/10/21- 25/09/23			
D5.11: A prominent summary of the data and data products available from EMODnet seabed Habitats web					
services	5	25/09/2022			
D5.12: Co-ordinated and sustained online presence: news stories, blogs, tweets, etc.	5	25/10/21- 25/09/23			
D5.13: Presentations and posters at	-	23,03,23			
conferences and cross-cutting		25/10/21-			
meetings	5	25/09/23			
D5.14: ESRI story maps / Infographics	5	25/03/2022	Delivered	Delivered	
D5.15: Record of all promotion and		25/10/21-	Delivered	Delivered	
outreach activities	5	25/09/23			
	5	23/09/23			
D6.01: Project management plan and	c	25 /40 /2024	Dellassed	Dellinered	
project initiation document	6	25/10/2021	Delivered	Delivered	
D6.02: Project quality management	~	25 /4 2 /2 2 2 4			
plan and project audit document	6	25/10/2021	Delivered	Delivered	
D6.03: Consortium Agreement	6	25/10/2021	Delivered	Delivered	
D6.04: Participation in EMODnet SC		As			
meetings as necessary	6	necessary			
D6.05: Minutes & actions from Steering Committee meetings within 1		Within 1 month of each			
month of meeting	6	meeting			
D6.06: Progress meeting 1 - WP leads	6	Mar-22	Delivered	Delivered	
D6.07: Minutes & actions from	c	Within 1 month of	Delivered	Delivered	
progress meeting 1	6	meeting	Delivered	Delivered	
D6.08: Progress meeting 2 - whole	~				
consortium	6	25-Mar			
		Within 1			
D6.09: Minutes & actions from	~	month of			
progress meeting 2	6	meeting			
		15 Jan, 15			
D6.10: Quarterly progress report to		Apr, 15 Jul			
EASME, DG-MARE and EMODnet		& 15 Oct			
Secretariat	6	each year			
D6.11: Interim report	6	25/09/2022			
D6.12: Submission of the invoice for					
the interim payment	6	25/09/2022			
D6.13: Final report	6	25/09/2023			
D6.14: Submission of the invoice for					
the final payment	6	25/09/2023			



# 2. Identified issues: status and actions taken

[Provide an **overview of issues** identified by CINEA (Table A) - new as well as pending ones, the status of those issues, and actions taken to address them and/or roadmap with remaining actions planned to resolve the issues. In Table B, provide information about any issues and challenges identified by yourself.]

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-591 (Task) SBH Layers in the Map Viewer Content Management System	pending	JNCC sought clarification on this request at the most recent centralisation meeting and are now working on providing the requested statistics. status according to JIRA: To Do	04/07/2022						
EM-570 (Sub-task) Feedback on CP Main Menu	resolved	JNCC provided some feedback as requested. status according to JIRA: Done	30/06/2022	27/04/2022					
EM-558 (Bug) Seabed Habitats Catalogue no longer has any public records	resolved	JNCC enquired with ICES who maintain the catalogue and they explained that they were carrying out a software update. status according to JIRA: Done	none	03/05/2022					
EM-539 (Task) Seabed Habitats products' centralisation	pending	This is a rather large task to help the central portal team to understand the seabed habitat data products and how they can be mapped across to the central portal map viewer. We have provided a list of products and summarised which are used in the map viewer. The central portal have just sent us something to review. status according to JIRA: In Progress	none						
EM-531 (Task) SBH - EMODnet Catalogue Tags	pending	We asked a question related to this issue and are waiting for a reply before progressing. status according to JIRA: In Progress	none						
EM-354 (Task) statistics for downloads and visitors for the whole EMODnet party for the last 12 months (per month)? > EM-495 (Sub-task) Seabed Habitats to report on number and volume of downloaded data and data products	resolved	JNCC provided the required statistics. status according to JIRA: Done	09/02/2022	09/02/2022					



EM-420 (Task): Log4jShell Critical Bug > EM-422 (Sub- task): Log4Jshell Update from SBH	pending	Secretariat has raised a critical security issue affecting all portals. JNCC is looking into it. Marked as 'In Progress' on JIRA.	none	
EM-389 (Task): Please review the new CP map viewer > EM- 391 (Sub-task): SBH review of the new CP Map Viewer	resolved	JNCC provided feedback on the new CP Map Viewer. Resolved as far as JNCC is concerned, although still marked as 'To Do' on JIRA.	none	01/12/2021
EM-384 (Task): SBH to produce an inventory ofproducts	resolved	JNCC provided a inventory of products. Resolved as far as JNCC is concerned, unless the Secretariat have further questions. Marked as 'In Review' on JIRA.	none	30/11/2021
EM-383 (Task): SBH Grafana dashboard stopped tracking webpage Search Metadata	resolved	the page URL had changed. JNCC confirmed the URL of the new page. marked as 'In Progress' on JIRA at time of writing this.	none	06/01/2021
EM-354 (Task): statistics for downloads and visitors for the whole EMODnet party for the last 12 months (per month)? > EM-363 (Sub-task): Seabed Habitats to report on number and volume of downloaded data and data products by 29th of October 2021	resolved	JNCC provided the requested statistics. Resolved as far as JNCC is concerned, unless the Secretariat have further questions. Marked as 'In Review' on JIRA.	none	27/10/2021
EM-350 (Bug): Missing attribute in eusm2019_full_800 layer of Seabed Habitat WMS service	resolved	JNCC updated the styling of this layer and resolved the bug. Marked as 'Done' on JIRA	none	07/10/2021
EM-340 (Task): Collect fields/forms used on Thematic Portals > EM-347 (Sub-task): Collect fields/forms used on Seabed Habitats Thematic Portal	resolved	a straightforward task to tell the Secretariat what forms are used on the website, which JNCC completed. Although the Secretariat have not marked it as 'Done' on JIRA yet (still 'To Do'.	none	28/11/2021
EM-326 (Task): Collect names of Portal editors for a possible DG COMM training > EM-339 (Sub-task): Collect names of Portal editors	resolved	a straightforward task to send a list of portal editors to the Secretariat, which JNCC completed. Marked as 'Done' on JIRA	none	29/11/2021



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				
Lack of an EMODnet DEM in the Caspian Sea for broad-scale habitat mapping. It is well known that a vital input layer into the broad-scale habitat map (EUSeaMap) is a digital elevation model provided by EMODnet Bathymetry. However, in this phase of the project Seabed Habitats has been asked to produce a broad-scale habitat map for the Caspian Sea, while Bathymetry were not asked to produce a DEM for that sea. As a result, we are forced to use GEBCO, which is of low resolution and quality in the Caspian Sea. We will be able to deliver the deliverable of a broad-scale habitat map for the Caspian Sea, but its quality will not be high.	pending	raised at the April Steering Committee meeting, which proposed a meeting between CINEA, Bathymetry and Seabed Habitats to discuss the issue.	none					
EM-515 (New Feature) Ability to filter habitat layers by habitat type or map ID	pending	This is a feature from the SH portal that we have requested for the central portal. Actions lie with the central portal development team. status according to JIRA: To Do	none					
EM-514 (Improvement) Return custom feature/pixel information when user clicks on a feature/pixel in the map	pending	This is a feature from the SH portal that we have requested for the central portal. Actions lie with the central portal development team. status according to JIRA: To Do	none					
EM-513 (New Feature) In the layer catalogue, add the ability toggle entire layer groups on or off	pending	This is a feature from the SH portal that we have requested for the central portal. Actions lie with the central portal development team. status according to JIRA: To Do	none					
EM-412 (New Feature) In the layer catalogue on new central portal, indicate which layer groups contain active layers	pending	This is a feature from the SH portal that we have requested for the central portal. Actions lie with the central portal development team. status according to JIRA: To Do	none					
EM-317 (Improvement) 'Seabed Habitats' missing from list of Topics on Newsroom	pending	status according to JIRA: In Progress	none					
EM-316 (Improvement) reorder EMODnet Themes on Reports page to force the 'active' themes to the top of the list	pending	status according to JIRA: Done	none	16/09/2 021				



### 3. User feedback

[Provide a list of all user feedback received in the reporting period in chronological order. Indicate the type of the feedback received, a clear description of the query, and the actions undertaken to resolve the issue (e.g. update of metadata, fixing a particular issue with the map viewer). Indicate the status of the query, and if not provide an explanation why. List any feedback you received on the portal that can be used to build EMODnet use cases.]

	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		
01/04/2022	Aqualicence	technical - The user was enquiring about some missing data in the EMODnet seabed substrate layer, which they were accessing via WMS.	web form	3 hours	resolved	it transpired that they were viewing an old version of the layer, which is still available via WMS but not on the map viewer. I directly her to the latest version, which she was happy to see had the gaps filled. I also promised to rename the WMS layers to make it clear if they were not the most recent version. This has been added to our internal technical issues log	resolved		
08/04/2022	SHOM	technical - The user was confused about the fact that there are EUSeaMap confidence layers on the map viewer, but when they clicked the download link they were taken to a link to download the EUSeaMap map package.	web form	3 hours	resolved	explained that the confidence layer is not available to download on its own via the download page, it is zipped up with the EUSeaMap habitat map.	resolved		
16/05/2022	Havochvatten - Swedish Agency for	technical - ICES metadata catalogue was down.	web form	1 hour	resolved	contacted ICES data centre to check status. They confirmed that the service was down termporarily due to system maintenance.	resolved		



EASME/EMFF/2020/3.1.11/Lot3/SI2.843624 – EMODnet Thematic Lot n°3 – Seabed Habitats

	Marine and Water Management						
16/06/2022	University of St Andrews	technical - The user was asking why there was substrate information missing from some coastal areas (e.g. Orkney Islands) in EUSeaMap 2021 when it was present in EUSeaMap 2016.	web form	2 hours	resolved	Responded to explain that this information disappeared from the EMODnet Geology seabed substrate layer and that JNCC were planning to discuss the issue with BGS	resolved
21/06/2022	Intertek	technical - The user informing us that the OSPAR points layer doesn't have a symbology in the legend for Oceanic Ridges	web form	1 day	resolved	The legend graphic was updated to show the missing habitat.	resolved



# 4. Meetings/events held/attended & planned

[List organisational meetings/events held/participated (incl. presentations, lectures, trainings, demonstrations, workshops, etc.) since the last quarterly report and planned in the future. Please add a short description on the meeting as well as the nature and volume of the audience.

When listing a meeting, please indicate whether it was an internal (i.e. within your partnership/lot) or external meeting (i.e. outside your partnership/lot).]

	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.)	
07/04/2022	Web	External Meeting	No	A	European Marine Board Working Group on Marine Habitat Mapping - kick- off meeting. The EMB WG on Marine Habitat Mapping should aim to highlight the science and policies needed to advance marine habitat mapping to fulfil the objectives of the European Green Deal, the EU Biodiversity Strategy for 2030, and international commitments on biodiversity and climate. The WG should also make links to the societal outcomes of the UN Decade of Ocean Science for Sustainable Development.	
14/04/2022	Web	Internal Meeting	No	0	Meeting on "D1.05 EUNIS-style habitat classification in the Caspian Sea for broad-scale habitat mapping". 3 participants. Discussions on Impact of the war on our work. Review of the list of environmental variables collated. Review of sample point data propects.	



26/04/2022	Web	External Meeting	Yes - Seabed Habitats portal update	A	EMODnet TWG.
27/04/2022	Web	External Meeting	Yes - Seabed Habitats general update	A	EMODnet Steering Committee.
06/05/2022	Web	External Meeting	No	A	EMODnet Central Portal Technical team meeting with Seabed Habitats - meeting 5. 11 participants. Central Portal team gained a better understanding of steps needed to incorporate the data and functionality of the Seabed Habitat portal into the Central Portal.
09/05/2022	Lisbon, PT	Internal Meeting	Yes - WP updates	0	EMODnet Seabed Habitats Project Management Group Meeting. 9 participants. Updates from each WP on the current phase and identification of issues regarding the deliverables. Planning commencement for potential next phase which will include a new project co-ordinator due to JNCC/UK status.
11/05/2022	Web	External Conference	Yes - OSPAR use case	A	EU Marine Data Services All-Atlantic Workshop - satellite event to the Ocean Decade Laboratory on the Outcome "An Accessible Ocean". 150 participants. This 2-hour webinar discussed how a future All-Atlantic Ocean Data Space could be realized by building on existing initiatives such as the two EU operational marine data services, i.e. Copernicus Marine Service and EMODnet.
16/05/2022	Venice, Italy	External Conference	No	A	GeoHab. 150 participants. GEOHAB is an international association of marine scientists studying and mapping geophysical, biophysical, and geomorphic indicators of benthic communities, species diversity, and distribution. Enhancing Visibility of ESH outputs.



23/05/2022	Web	Internal Meeting	No	0	Making progress on setting up the subcontract with Anguilla Community College. 5 participants. Anguilla Community College/Government of Anguilla gaining a better understanding of the requirements so they can recruit a new member of staff to work on the project.
25/05/2022	Web	Internal Meeting	Yes - summary of WP2 progress, guidance, templates	A	WP2 progress meeting (Europe region). 10 participants. To make sure everyone understood what was required for preparing habitat maps and point datasets for submission as part of WP2.
31/05/2022	Constanta, Romania	Internal Meeting	No	0	Workshop on "D1.05 EUNIS-style habitat classification in the Caspian Sea for broad-scale habitat mapping". 3 participants. A draft habitat classification for Caspian Sea
15/06/2022	Web	External Meeting	No	A	European Marine Board Working Group on Marine Habitat Mapping . The EMB WG on Marine Habitat Mapping should aim to highlight the science and policies needed to advance marine habitat mapping to fulfil the objectives of the European Green Deal, the EU Biodiversity Strategy for 2030, and international commitments on biodiversity and climate. The WG should also make links to the societal outcomes of the UN Decade of Ocean Science for Sustainable Development.
20/06/2022	Web	Internal Meeting	No	0	Making progress on setting up the subcontract with Anguilla Community College. 5 participants. Anguilla Community College/Government of Anguilla gaining a better understanding of the requirements so they can recruit a new member of staff to work on the project.
22/06/2022	Web	External Meeting	No	А	EMODnet Vision for the future, governance and business model. 15 participants.



EASME/EMFF/2020/3.1.11/Lot3/SI2.843624 – EMODnet Thematic Lot n°3 – Seabed Habitats

29/06/2022	Web	External Meeting	No	A	EMODnet Central Portal Technical team meeting with Seabed Habitats - meeting 6. 11 participants. Central Portal team gained a better understanding of steps needed to incorporate the data and functionality of the Seabed Habitat portal into the Central Portal.
SUM				0	Total # of meetings organised = 5
SUM				Α	Total # of meetings attended = 10



		В	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
13/07/2022	Web	External Meeting	A	European Marine Board Working Group on Marine Habitat Mapping . 9 participants. Catch-up on the drafting of a Future Science Brief on Marine Habitat Mapping in Europe
13/07/2022	Web	External Meeting	A	Meeting with new chair of MSFD EU TG Seabed about EUSeaMap. 5 participants. For TG Seabed to understand why the definition of mud and sand differs between EUNIS and EUSeaMap and for a general introduction
14/07/2022	Web	External Meeting	0	Meeting with the hosts of the NERC Vocabulary Server, BODC, to discuss to addition of new vocabularies for habitat classification systems. 4 participants. The get a better understand of how the NERC Vocabulary Server works and the process for adding new vocabularies.
29/08/2022	Reykjavik, IS / Web	External Meeting	A	ICES Working Group on Marine Habitat Mapping. To investigate the applicable uses of Habitat maps in policy / MSFD.
19/09/2022	Genova, IT	External Conference	A	Marine Key Habitats and Non-indigenous Species Symposia. The main objective of Symposia is to gather available knowledge on Marine Key Habitats at Mediterranean level.
19/09/2022	Dublin, IE	External Conference	А	ICES Annual Science Conference. To promote EUSeaMap and enhance engagement of ICES WGS/ EGS with ESH



# 5. Communication assets

[List all the relevant communication and dissemination products and assets you have developed in the reporting period (e.g. brochures, videos, press releases, newsletters, blogs) and are planning to do. At the bottom of the table, provide a summary from the actions on Twitter from (e.g. Twitter Analytics: number of Tweets and followers of Twitter account).]

		A. Communication pro	oducts 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)
29/4/2022	Article in EMODnet Newsletter	Promotion of products currently available from ESH mapper through a story map	Promote EMODnet Seabed Habitats Products	
17/5/2022	News Article	EMODnet news item entitled "Summarising the extents of MSFD benthic broad habitats per sub- region and country"	Promotion of new EMODnet Seabed Habitats tool to facilitate Member States with MSFD reporting requirements on D6 Seafloor	
19/5/2022	Tweet	ESH Attendance at Geohab	Promotion of ESH products and relevance of EMODnet to the wider EU research community	
31/5/2022	Article in EMODnet Newsletter	Summarising the extents of MSFD benthic broad habitats per sub-region and country	Promotion of new EMODnet Seabed Habitats tool to facilitate Member States with MSFD reporting requirements on D6 Seafloor	
08/6/2022	Tweet	ESH Products Promotion for World Ocean Day	Promotion of ESH products	
30/6/2022	Article in EMODnet Newsletter	ESH Attendance at Geohab	Promotion of ESH products and relevance of EMODnet to the wider EU research community	

**B.** Planned communication products



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Date	Communication material	Short description (of the material, title,) and/or link to the asset	Main results expected
08/2022	EMODnet Central Protocol for promoting new datasets	Release of coralligenous layer for Med	Promote EMODnet Seabed Habitats Products
08/2022	News Item on ESH website	Release of coralligenous layer for Med,	Promote EMODnet Seabed Habitats Products
08/2022	EMODnet Central Protocol for promoting new datasets	Release of biogenic substrate layer for Europe	Promote EMODnet Seabed Habitats Products
08/2022	News Item on ESH website	Release of biogenic substrate layer for Europe	Promote EMODnet Seabed Habitats Products



[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	ls it open access? Yes/No		
12/02/2022	Paper	Manolis Tsapakis, Ioanna Kalantzi, Alexandra Pavlidou, Nomiki Simboura, Konstantinos Tsiaras, Nikolaos Katsiaras & Maria Louiza Petre (2022). The Coastal Environmental Status of Argolikos Gulf. In: The Handbook of Environmental Chemistry. Springer, Berlin, Heidelberg.		https://doi.org/10.1007/698 2021 838	Yes		

	B. Other/non-peer reviewed types of publications (co-)authored in the quarter						
Date of publication	Type of publication	Full reference	ISBN	DOI	ls it open access? Yes/No		
01/05/2022	Spreadsheet	Vasquez, M. (2022). Summary of extents of MSFD benthic broad habitats per sub-region based on EUSeaMap 2021. Available online at <u>https://www.emodnet-seabedhabitats.eu/resources/documents-and- outreach</u>			Yes		

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



### 6. Monitoring indicators

[Refer to the standardised monitoring tool, i.e. Matomo/ Europa Analytics, to complete the indicators excel template, and provide a short explanation in the table below on the numbers and trends for each indicator when possible/applicable. Indicate clearly if monitoring was carried out using tools other than Matomo/Europa Analytics.]

Cor	Comments on the progress indicators in the indicators spreadsheet					
Progress indicator	Means of collecting figures	Comment				
<ol> <li>Current status and coverage of total available thematic data</li> <li>A) Volume and coverage of available data</li> </ol>	Custom postgresql views and geoserver layers including vocabulary keyword tagging) with python scripting	Note that a new method has been used to calculate these statistics in order to increase robustness, replicability and standardisation across periods. For this reason, numbers between this quarter and previous reports are not equivalent. Reporting regions used: EMODnet Biology reporting regions, obtained from marineregions.org Numbers continue to increase in good quantities relative to know data data sources, especially in areas historically lower in number (e.g. black sea), as a result of focus on these regions.				
What is your opinion on the data coverage within EMODnet for your thematic?		Point data coverage is concentrated in the EEZs of countries where project partners are based. There is likely to be much more data to be found in countries like Spain, Poland, Croatia, etc., which we may be able to target with dedicated subcontracts in year 2.				
B) Usage of data in this quarter	Custom geoserver layers (including vocabulary keyword tagging), with python scripting, geoserver server-side	Overall downloads of data lower than previous quarters - reason unknown as no correlating factors identified. Conversely, WMS requests are significantly higher, may be driven by external use of the services by OSPAR, ICES web mappers.				



	logging and data download web forms.	
<ul><li>2. Current status and coverage of total number of data products</li><li>A) Volume and coverage of available data products</li></ul>	Custom postgresql views and geoserver layers including vocabulary keyword tagging) with python scripting	<ul> <li>Note that a new method has been used to calculate these statistics in order to increase robustness, replicability and standardisation across periods. For this reason, numbers between this quarter and previous reports are not comparable.</li> <li>Reporting regions used: EMODnet Biology reporting regions, obtained from marineregions.org. This is the first month we have used these new regions.</li> <li>3 new habitat maps from survey added during this reporting round.</li> </ul>
B) Usage of data products in this quarter	Custom geoserver layers (including vocabulary keyword tagging), with python scripting, geoserver server-side logging and data download web forms.	Significant reduction in download of products across the board. Reasons uncertain (no change in site or service), but follows trend with habitat point data. Note that map visualisations and WMS requests are pooled across the entire service. Statistics marked with an asterisk * or dagger † symbol were grouped together in the previous reporting period, therefore the trend is presented here as total of each group against the previous quarter.
3. Internal and external organisations supplying/approached to supply data and data products within this quarter	Tracking tables in sharepoint.	
4. Online 'Web' interfaces to access or view data	N/A	no changes since last quarter.
5. Statistics on information volunteered through download forms	Download data forms along with python scripting and geoserver layer tagging.	Marginally higher Academic proportion this reporting round compared to previous reporting rounds. Regional statistics remain consistent.



6. Published use cases	Grafana dashboard	problems with Grafana mean that we have no information for this quarter.
8.1. Technical monitoring	Grafana dashboard	acceptable response time, better than last quarter.
9. Visibility & Analytics for web pages	Grafana dashboard	problems with Grafana mean that we only have information for a single web page.
10. Visibility & Analytics for web sections	Grafana dashboard	problems with Grafana mean that we have no information for this quarter.
11. Average visit duration for web pages	Grafana dashboard	problems with Grafana mean that we only have information for a single web page.

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

