



EMODnet



European Marine
Observation and
Data Network

EMODnet Thematic Lot n° 1 - Geology

EASME/EMFF/2018/1.3.1.8 - Lot 1/SI2.811048

Start date of the project: 25/09/2019 - (24 months)

EMODnet Phase III – Quarterly Progress Report (number 5/8)

Reporting Period: 01/07/2020 – 30/09/2020



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1. Highlights in this quarter

Task 1: Develop a common method of access to data held in repositories:

This reporting period has focused on participating in coordination meetings with the EMODnet Secretariat on standardising the midterm and quarterly reporting.

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

Several data products hold temporal components in the form of geological time aspects. Submerged landscapes being last in terms of recent ages. In this quarter, an update of the minerals data products was released.

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

In this reporting period, several data products underwent quality assessment and synchronization with EGDI.

Task 4: Maintain and further develop a thematic web portal allowing users to find, visualise and download data and promote the data and data products of the portal:

The EMODnet Geology portal received content updates to reflect the current state of available data products. In corporation with GeoERA, the web-GIS improved with minor bug fixes and usability improvements. Users can now search through layers to find relevant layers.

Task 5: Ensure the involvement of regional sea conventions.

No activity, mainly due to lockdown in Europe.

Task 6: Install a process to monitor performance and deal with user feedback:

We are linked to a monitoring system hosted by the main portal (Piwik/Matomo). Here we can login and extract performance and user statistics. The portal offers users the possibility to write feedback. We participate in all statistical initiatives put forward by the EMODnet Secretariat and Steering Committee.

Task 7: Operate a help desk offering support to users:

We continuously run our help desk according to rules set in the Tender Specifications. No change.

Highlights of the different workpackages

WP1. Project Management. Many changes in plans due to the COVID-19 pandemic, see later in report.

WP1. Project Management. At the kick-off meeting in Athens in October 2019 general work plans for the entire project and detailed activities for the next six to twelve months were decided upon. These were to be checked and updated at the next project meeting in April 2020 in Utrecht, the Netherlands. That meeting was cancelled due to the COVID-19 pandemic and a video meeting with all partners was instead held in week 39 in September. Actions between the meetings were communicated by the coordination and the work package leads, and at the remote meeting in September it was noticed that the project is running according to set plans. Most data products have been updated and process on testing and QC are running for the moment. Updates of most of the maps are expected to be released on the portal during next six months.

WP1. Project Management. All task guides and updated guidelines, vocabularies and new feature types which have been distributed to partners earlier during the project were discussed during our September project meeting and WP leads illustrated how to handle different data issues and how the different tasks will be handled during the coming months.

WP1. Project Management. The EMODnet Geology Coordinator has actively coordinated the work of the Caspian Sea task together with the Russian partner VSEGEI (EMODnet Geology subcontractor), who acts as the regional coordinator of the Caspian Sea task. VSEGEI made in early stage contacts with organisations in the Caspian Sea countries Kazakhstan, Azerbaijan, Iran and Turkmenistan. Subcontracts with organisations in these

countries are in different stages, some delayed, mainly due to the COVID-19 pandemic. The only problem encountered is Turkmenistan from where we have not got response. Luckily there are a number of modern publications from that area which will allow, if it is not possible to attract the Turkmenistan organisation to work on the EMODnet-Geology project, to create sets of geological maps for this part of the Caspian Sea in accordance with our tender specifications.

WP1. Project Management. Many scientific contributions from the different WP's to two different Geological Society of London publications highlighting the work thus far. For accepted papers see chapter 5 of this report.

WP2. Geological data specification and sourcing. Partners and subcontractors were at the kick-off meeting asked to report new data and metadata, which have been collected by the WP's. The same applies to the Caspian Sea subtask where VSEGEI has collected Russian data and is for the moment collecting data from the other Caspian Sea countries. **Some delays are still to be expected due to the Corona virus.**

WP3. Seabed substrates. EMODnet Geology WP3 representatives (GTK) participated in the EMODNet Data Ingestion 2 Plenary Meeting, Online Zoom-meeting, 30th September 2020.

The partners harmonised seabed substrate datasets, which were not already compatible with the EMODnet seabed substrate requirements. By the end of September 2020 8 partners have distributed their seabed substrate data, scale of 1:100 000 or finer, to GTK. Additionally, 5 partners have provided data at lower resolution to be updated later in the project.

WP3 has updated the seabed substrate multiscale product with data at 1:100 000, 1:50 000 scales and included a new layer at 1: 25 000 scale. Data has been delivered to partners for final check and comments.

WP 3 has developed the usability of the data products by updating seabed substrate attribute table.

WP4. Sea-Floor Geology. WP lead BGR has developed an application of EMODnet WP 4 data on the BGR Geoviewer, which was launched in September.

New data deliveries for geomorphology, Quaternary and pre-Quaternary has been received from several partners.

Continuation of harmonisation in prototype areas in Baltic Sea and Irish Sea as well as a study on Harmonisation in Southern North Sea.

Further progress on editing the Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm: see chapter 5. WP 4 lead is the corresponding editor of the SI.

WP6. Geological Events and Probabilities. New deliveries received from partners.

Susceptibility layer shared with partners for their evaluation.

WP6 contribution to 10 years of EMODnet webinar

Conclusion of revisions of submitted dissemination papers

WP7. Marine Minerals. WP7 data have been submitted from 10 EMODnet geology partners. This data has since been merged and all 12 merged marine mineral datasets were by sent to GEUS to update the EMODnet Geology Portal for WP7. The Minerals package was updated on the portal by 7. October 2020.

WP8. Submerged landscapes. WP8 has received 8 new submissions during Q3. Of particular note are submissions pertaining to the stated objective to create palaeogeographic reconstructions for the following timeframes: 20,000, 9000 and 6000 ka BP.

WP8 held a dedicated breakout session at the recent EMODnet-geology meeting attended by all project partners.

A case study for the Baltic Sea region was presented at the recent EMODnet geology meeting. Using the existing EMODnet geology WP8 database a preliminary palaeogeographic reconstruction was presented for the 9000 ka BP timeframe.

2. Identified issues: status and actions taken

[Provide an overview of the issues identified by EASME (Table A), if any, since the start of the project phase (provide date), 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 issues and challenges identified by yourself, if any.]

A. Priority issue(s) identified and communicated by EASME/ DG MARE/ SECRETARIAT				
Priority issue	Status (Pending/Resolved)	Action(s) taken / remaining actions planned	Date due	Date resolved

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
The ongoing spread of the Covid-19 virus all over Europe might affect the progress of the project, especially staying on schedule/meeting the deadlines.	Resolved (partly)	We organized the EMODnet Geology project meeting and workshop on 23-25 September 2020 as a remote meeting	-	-
Some partners have encountered challenges in using necessary tools (e.g. software) caused by enforced remote working due to Covid-19.	Resolved (Partly)	There is flexibility in the schedule and deadlines.	-	-
WP5. Coastal Behavior. Quality control revealed several issues with the planned services for field-based coastline migration and coastal type.	Pending	WP5 release postponed to November. One of the two projection issues fixed, order-of-magnitude error for one country fixed, overestimation of coastal type in areas with few data points fixed.	November 2020	November 2020
WP5. Collating and mapping coastal resilience/vulnerability very time-consuming.	Resolved	Partner Edge Hill University hired two work students for the academic year 2020-	May 2021	September 2020

		2021. Under guidance of consortium members, they will do much of the GIS work.		
WP5. Finding a way to merge the field-based and satellite-based data products in the portal view, using the field-based data, where available and up to date, and the satellite data where reliable to fill the gaps.	Pending	Currently, focus on technical implementation	February 2021	October 2020
COVID-19 and full network meeting.	Resolved	Tests and procedures were developed to ensure a smooth, online web meeting with 70+ participants. MS Teams was chosen. Pre-meetings were tested. Partners were invited to join for testing their equipment. Recommended setup info was distributed.	23.9.2020	23.9.2020
Metadata change-management is difficult	Resolved	During the latest data product update of minerals, metadata records in Geonetworks had to be updated. The data owner decided to rename the data sub-themes for better usability. This turned out to be a major manual process.	September 2020	

3. User feedback (Contact Us form, online chat & other communication means)

[Provide a list of all user feedback received on your portal in chronological order since the start of the project (provide date). 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 (i.e. has the query been resolved or not yet), 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
	Technical University Braunschweig (TU Braunschweig)	Question on data	Email via the Geology portal	7 h 05 min	resolved	Extensive answer which received thanks and positive feedback	
2020-07-14	noc.ac.uk	Problems downloading	portal contacted	24 hrs	Resolved	Support	
2020-08-10	Payette	QGIS question	"	< 24 hrs	Resolved	Support	
2020-08-30	Private	Download question	"	< 24 hrs	Resolved	Support	
2020-09-10	Private	ArcGIS question	"	< 24 hrs	Resolved	Support	
2020-09-22	TU-Brauns.	Data question	"	< 24 hrs	Resolved	Support	
2020-09-30	LR.org	WMS timeout	"	< 24 hrs	Resolved	Geoserver re-config	

4. Meetings/events held/attended & planned

[Organisational meetings/events held/participated (incl. presentations, lectures, trainings, demonstrations, workshops, etc.) by the contractant 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						
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.)	
1.7.2020	Online meeting	EMODnet Geology Steering Group Meeting, internal	no	A	Discussions on upcoming EMODnet Geology Project Meeting	
16.07.2020	Online meeting	EMODnet Geology Steering Group Meeting, internal	no	A	Discussion of EMODnet Geology issues	
20.7.2020	Online meeting	EMODnet Geology Steering Group Meeting, internal	no	A	Discussion of EMODnet Geology issues	
29.7.2020	Online meeting	Internal meeting	yes	O	WP4 Harmonization Meeting 4, case study southern North Sea (organized by RBINS, with participation from TNO, BGS, BRGM (5 people). Discussion of national classification and agreement on transnational map corrections.	
30.8.2020	Online meeting	External meeting, and follow-up meetings on Resourcing Europe (September 8), Climate Change & Decarbonization (September 9), Europe's Digital Twin (September 10) and Safety, Security & Well-being (September 11).	no	A	Ensuring that marine geology and EMODnet are incorporated into and closely linked to a new initiative to set up a Geological Service for Europe. Ca. 25 people attending from 20 European geological surveys. Marine experts to provide ideas on future projects that would fit into the collaborative program.	

1.9.2020	Online Teams-Meeting	Internal EMODnet Geology 4 WP3 meeting	no	O	Planning of the future work, 4 participants
02.09.2020	Online meeting	On-line meeting of WP4 Harmonisation Working Group on Southern North Sea, internal	yes	O	WP4 Harmonization Meeting 5, case study southern North Sea (organized by RBINS, with participation from TNO, BGS, BRGM (5 people). Discussion of transnational map corrections.
8.9.2020	Online Teams-Meeting	EMODnet Geology Steering Group meeting, internal	no	A	Discussions related to project progress
9.9.2020	Online meeting	External meeting	no	A	Ensuring that EMODnet Geology is represented in a bid for Green Deal call LC-GD-9-3-2020: A transparent & accessible ocean: Towards a Digital Twin of the Ocean.
22.9.2020	Online Teams-Meeting	Internal EMODnet 4 Geology, GTK Meeting	no	O	Planning of the EMODnet Geology 4 meeting, 5 participants
22.9.2020	Online Meeting	EMODnet: A decade of achievements connecting marine data to knowledge	no	A	Conference highlighting EMODnet achievements
23.-25.9.2020	GTK, Espoo, Finland and Online Teams-Meeting	EMODnet Geology 4 Project Meeting, internal	yes; EMODnet Geology 4, WP3 Seabed Substrate presentation	O	Annual EMODnet Geology 4 project meeting, ca. 65 participants. Presentations of all work packages, new actions. Update on Project progresses and discussion with all Partners of any problem occurred
23.09.2020	Online meeting	EMODnet Geology WP 4 Harmonization workshop, internal		O	Introduction of new data, discussion of harmonisation issues
25.9.2020	MS Teams online	Dedicated Workpackage 8 Submerged Landscapes thematic session. Internal.	Yes. Overview of the vision for the workpackage, progress to date, presentation of the case study and milestones for the coming 6 months.	A	Attended by all EMODnet-geology project partners online (part of the wider project meeting 23-25 th September 2020). The milestones were agreed upon and way forward clarified.

30.9.2020	Online Meeting	Zoom-	EMODnet – Ingestion and safe-keeping of marine data 2 - plenary meeting, external.	yes, EMODnet Data Ingestion 2, Progress Report FINLAND	A	Annual EMODnet – Ingestion and safe-keeping of marine data 2 project meeting, 57 participants
SUM					O	Total # of meetings organised = 6
SUM					A	Total # of meetings attended = 9

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
October	On-lines	EMODnet Geology WP 4 Harmonization workshop	O	Harmonisation of Prototype aread Baltic sea: participanst from Denmark, Sweden, Finland, Poland and Germany
	Ireland (Virtual)	INFOMAR Seminar 2020	Geological Survey Ireland	Annual Seminar
	Ireland (virtual)	Geoscience 2020	Geological Survey Ireland	Annual Seminar
Early December 2020 TBC	Online/Virtual	½ day dedicated WP8 workshop to progress work on palaeogeographic reconstructions.	A	A dedicated short meeting to organise and take forward creation of a Pan-European 20,000 ka BP (Last Glacial Maximum) palaeogeographic reconstruction. This will be the first time this will have been undertaken at a pan-european level. Furthermore, dedicated regional case study areas (e.g. Sea of Marmara, Gulf of Corinth, Black Sea) will be discussed.
April/May 2021	Online/Virtual	½ day dedicated WP8 workshop to progress work on palaeogeographic reconstructions.	A	Meeting to check progress, identify barriers to progress and monitor timeline for 20,000 ka BP reconstruction work and work of the regional case study areas.

5. Communication assets

[List all the relevant communication and dissemination products and assets you have developed since the start of the project phase (provide date) (e.g. brochures, videos, press releases, newsletters, blogs) and are planning to do. At the bottom of the table, provide a total number for every type of communication product you have developed (e.g. total # of press releases, etc.) or provide a summary from the actions on Twitter from (e.g. Twitter Analytics: number of Tweets and followers of Twitter account).]

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
December 2020	Twitter, EMODnet website article	Announcement coincident with the next update to the WP8 Submerged Landscapes database.	Increase in hits on the website and downloads of database.
April 2021	Twitter, EMODnet website article	Announcement coincident with the next update to the WP8 Submerged Landscapes database.	Increase in hits on the website and downloads of database.
August / September 2021	Twitter, EMODnet website article, press release	WP8. Announcement for the first pan-European palaeogeographic reconstruction for the 20,000 ka BP timeframe.	Increase in hits on the website. Raising awareness. Academic interest. Peer-review article.

[For the reporting period, please list all publications, e.g. peer-reviewed journals, book chapters, conference papers, etc.) of which you are aware, within the reporting period, including a reference to the EMODnet data or data products which is being discussed.]

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)
First papers published	Geological Society of London Special Issue	From Continental Shelf to Slope - Mapping the Oceanic Realm	Editors. <u>Asch. K.</u> *) Kitazato, H. **), Vallius, H. ***) *) corresponding editor	*) Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Hannover, Germany; **) Tokyo University of Marine Science and Technology, ***) Geological Survey of Finland (GTK), Espoo, Finland
published	Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm	Discover Europe's seabed geology. The EMODnet concept of uniform collection and harmonization of marine data	Henry Tapani Valdemar Vallius, Ph.D.; Aarno T Kotilainen; Kristine Charlotte Asch; Andrea Fiorentino; Silvana D'Angelo; Maria Judge; Heather A. Stewart; Bjarni Pjetursson	Geological Survey of Finland (GTK), Federal Institute for Geosciences and Natural Resources (BGR), Italian Institute for Environmental Protection and Research (ISPRA), Geological Survey of Ireland (GSI), British Geological Survey (BGS), Geological Survey of Denmark and Greenland (GEUS)
published 09.07.2020	Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm	Revealing the secrets of Norway's seafloor – geological mapping in the MAREANO programme and in coastal areas	Reidulv Bøe; Lilja Rún Bjarnadóttir; Sigrid Elvenes; Margaret Dolan; Valérie Bellec; Terje Thorsnes; Aave Lepland; Oddvar Longva	Norwegian Geological Survey (NGU).
accepted	Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm	High resolution geological mapping – towards understanding of postglacial development and Holocene sedimentation processes in the eastern Gulf of Finland (EMODnet-geology case study)	Daria Ryabchuck, Ph.D.; Alexander Sergeev; Vladimir Zhamoida; Leonid Budanov; Alexander Krek; Igor Neevin; Ekaterina Bubnova; Alexander Danchenkov; Olga Kovaleva	A.P. Karpinsky Russian Geological Research Institute (VSEGEI,)
accepted	Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm	Mapping Ireland's coastal, shelf and deep-water environments using illustrative case studies to	Ronan O'Toole; Maria Judge; Fabio Sachetti; Thomas Furey; Eoin Mac Craith; Kevin Sheehan; Sheila Kelly;	Geological Survey of Ireland (GSI)

		highlight the impact of seabed mapping on the generation of blue knowledge	Sean Cullen; Fergal McGrath; Xavier Monteys	
accepted	Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm	Integrated thematic geological mapping of the Atlantic Margin of Iberia	Pedro Terrinha, Ph.D; Teresa Medialdea; Luis Batista; Luis Somoza; Vitor Magalhães; Francisco Javier Gonzalez; João Noiva; Ana Lobato; Marcos Rosa; Egidio Marino; Pedro Brito; Marta Neres; Carlos Ribeiro	Portuguese Institute for Sea and Atmosphere (IPMA), Geological and Mining Institute of Spain (IGME)
accepted	Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm	Geological mapping of coastal and offshore Japan (by GSJ-AIST): collecting and utilizing the geologic information	Kohsaku Arai	Geological Service of Japan (National Institute of Advanced Industrial Science and Technology (AIST))
2020	GSLSpecPub2019-100	Integrated geophysical and sedimentological datasets for assessment of Offshore Borrow Areas: The CHIMERA project (Western Portuguese Coast)	Mario Mil-Homens; Pedro Terrinha, Ph.D; Pedro Brito; Vitor Magalhães; Marcos Rosa; Marta Neres; Marta Silva; Emília Salgueiro; Teresa Drago; Ana Isabel Rodrigues; Miriam Tuaty Guerra; Maria José Gaudêncio; Eveline Almeida; Mariana Silva; Mafalda Freitas; Celso Aleixo Pinto	IPMA (Portugal)
2020	Geological Society of London Special Publication (GSLSpecPub) "From Continental Shelf to Slope - Mapping the Oceanic Realm" 2019-102	The Pliocene deposits of the Black Sea shelf east of the Danube river delta	Petro F. Gozhik; Valery Ye. Rokitsky	IGS-NAS-UKR, (Ukraine)
In progress three more papers	Geological Society of London Special Issue: From Continental Shelf to Slope - Mapping the Oceanic Realm	A first approach to a Geomorphological Map of the German Seas	Breuer, Sonja*) & Asch, Kristine **)	*) Landesamt für Bergbau, Energie und Rohstoffe (LBEG): **) Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Hannover, Germany
21.07.2020	Quarterly Journal of Engineering Geology and Hydrogeology	Mapping Geological events in submerged areas. Technical note: "Environmental management; Geohazards "	Battaglini L., D'Angelo S. & Fiorentino A.	Geological Survey of Italy (ISPRA)

		doi.org/10.1144/qjegh2020-031		
08/09/2020	Quarterly Journal of Engineering Geology and Hydrogeology	Submarine landslide: mapping the susceptibility in European seas dx.doi.org/10.1144/qjegh2020-027	Innocenti C., Battaglini L., D'Angelo S. & Fiorentino A.	Geological Survey of Italy (ISPRA)
2020	Quarterly Journal of Engineering Geology and Hydrogeology (QJEGH)	Mapping the Geology and Topography of the European Seas (European Marine Observation Data Network, EMODnet). Perspective paper.	Cherith Moses, Henry Vallius	Edge Hill University, GTK
2020 With Editor (revision submitted)	Quarterly Journal of Engineering Geology and Hydrogeology (QJEGH)	Uncertainty assessment applied to marine subsurface datasets	Lars Kint, Vasilis Hademenos, Robin De Mol, Jan Stafleu, Sytze van Heteren & Vera Van Lancker	RBINS, Ghent University, TNO
2020 Revision	Quarterly Journal of Engineering Geology and Hydrogeology (QJEGH)	Interaction between Geological Events: a few examples from Italian seas. Technical note: "GIS; Landslides; Slope processes "	A. Fiorentino*, L. Battaglini and S. D'Angelo	Geological Survey of Italy (ISPRA)
2020 Revision	Quarterly Journal of Engineering Geology and Hydrogeology (QJEGH)	Submarine landslide: mapping the susceptibility in European seas. Research article	C. Innocenti, L. Battaglini, S. D'Angelo, A. Fiorentino	Geological Survey of Italy (ISPRA)
2020	OKEANOS	Pesca, energías marinas, recursos minerales y la planificación espacial marina. Revista de la Sociedad Atlántica de Oceanógrafos	I. Herrera, D. Mentado Rodríguez, F.J. González.	Geological Survey of Spain (IGME)
16/09/2020 new revision submitted	Geological Society of London Special Publication (GSLSpecPub) "From Continental Shelf to Slope - Mapping the Oceanic Realm"	Collating European data on geological events in submerged areas. Examples of correlation and interpretation from Italy.	S. D'Angelo, L. Battaglini & A. Fiorentino	Geological Survey of Italy (ISPRA)

6. Monitoring indicators

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

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 If you don't use the provided sea-basin figures, please indicate why you do not use them, as from when, and what do you use instead and why?	Matomo/ other (Please state which monitoring tool was used to collate the information in each case)	We do not acquire <u>data</u> in this project.
B) Usage of data in this quarter		We do not acquire <u>data</u> in this project.
2. Current status and coverage of total number of data products A) Volume and coverage of available data products If you don't use the provided sea-basin figures, please indicate why you do not use them, as from when, and what do you use instead and why?		No change since last report.
B) Usage of data products in this quarter		No change since last report.
3. Organisations supplying/approached to supply data and data products within this quarter		No change since last report.
4. Online 'Web' interfaces to access or view data		Map requests are implicit in WMS stats. We see a dip usage. Possibly caused by seasonal fluctuations and COVID-19.
5. Statistics on information volunteered through download forms		Download count is down this quarter due to public holidays and mid-year. Users are not required to state country of residence. Address is freetext.
6. Published use cases		No published use-cases during this reporting period.
8.1. Technical monitoring		The technical setup of monitoring is working satisfactory.

8.2. Portal user-friendliness (Visual harmonization score)		All scores are fine
9. Visibility & Analytics for web pages		Satisfactory response times.
10. Visibility & Analytics for web sections		Decrease in contribute page view after making the page less prominent.
11. Average visit duration for web pages		The trend is stable.

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.]