



EMODnet



European Marine
Observation and
Data Network

EMODnet Thematic Lot n° 2 - Seabed Habitats

EASME/EMFF/2018/1.3.1.8/Lot2/SI2.810241

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

EMODnet Phase III – Quarterly Progress Report (14)

Reporting Period: 01/10/2020 – 31/12/2020



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1. Highlights in this quarter

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

- All partners are working on growing the number of maps from survey and ground-truthing point datasets. One-to-one meetings will take place in January in order for individual partner to update the WP2 “Data collation” leader (ISPRA) on progress and workplan until the end of the contract (25 September 2021)

Task 2: construct products

EUSeaMap (i.e. broad-scale seabed habitat map) has had some progress:

- A report on “Mapping seabed habitats over large areas: prospects and limits” has been published (deliverable D1.15). In the bid the title was “ways to improve EUSeaMap”. Improving EUSeaMap is largely addressed in the report, but other aspects are discussed such as alternative techniques, and the opportunity to combine EUSeaMap with other data products such as fine-scale data products from survey.
- A report for the translation in the new version of EUNIS is in preparation (deliverable D1.06)
- At the request of the DG/MARE, we are working on providing EUSeaMap in EUNIS 2007-11 level 2
- EMODnet Seabed Habitat and Geology will meet in early February to discuss the format and delivery date for an early copy of the seabed substrate product, which is a key input to EUSeaMap
-

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

- The pilot import of UK marine benthic points (including species and habitats) into OBIS, for subsequent extraction has been delayed due to non-harvesting by OBIS from the UK OBIS node. Minor technical issues were not communicated to the UK OBIS node (DASSH/Marine Biological Association), which meant that they could not be corrected prior to harvest. These issues have now been communicated and the data should be ready for re-harvesting Feb/March 2021. As soon as the harvest is successful, we can publish the drafted guidance on entering habitat data into obis (D2.08), however, this has been subsequently delayed until it is certain that habitat data can practically be entered into OBIS in this pre-agreed manner. Delivery of D4.04 (use of OBIS m2m connections to harvest habitat data from OBIS) will be squeezed somewhat, but should hopefully not be delayed.
- Significant progress has being made on the JIRA 33 issue (Now JIRA EM-88) on the Web Services Metadata Url and Data Url fields. Of the 194 layers highlighted in the validation report 161 have been checked and/or amended to fix their issues. The remaining issues may take some more time to fix. For example, some of the metadata cannot be checked because it is private in the ICES geonetwork. We are laising with ICES and working to fix the remaining layers and a spreadsheet of updates will be uploaded in due course on JIRA.

Task 4: maintain and further develop a thematic web portal

- Personal data processing issue due to UK leaving the EU the 1st of January 2021 and JNCC processing personal data.
 - The issue has been resolved (See section 2, table B, issue INT01), and we would like to thank the European Commission and VLIZ for their invaluable contribution in finding a technical solution.

- The email recipient for all portal queries has been moved from EMODnetSeabedHabitats@jncc.gov.uk to EMODnetSeabedHabitats@ifremer.fr. All reference to EMODnetSeabedHabitats@jncc.gov.uk on the portal have been replaced (for example, the 'Contact Us' page). Additionally, notifications for data downloads will be received by the Ifremer email domain.
- The users information on the download form was de-activated temporarily because a precautionary approach to GDPR was taken after Brexit whilst we worked on compliance. We are now re-instating it so that user information can be captured. There will be a small drop out in indicator 6.
- The EMODnet Seabed Habitats privacy policy has been updated to reflect:
 - the new data processing entity from JNCC to Ifremer
 - the removal of any reference to the Live Chat system as the system has been disabled and removed
 - the storage of email addresses on the download forms as this information is no longer captured
- The Cookie Policy has been updated to remove references to the following cookies:
 - Cookies that relate to the live chat system, as the live chat functionality has been disabled and removed from the portal
 - Cookies that relate to the ReCapcha forms on the 'contact us' page that helped to filter out spam.
 - Google Open Street Map cookies
 - Minor technical issues remain and our worked on as a priority
- Regular business
 - With the agreement of EASME, a [FAQ](#) has been published instead of the expected deliverable, i.e. real-time user questions and answers (D4.09)
 - Two new items have been published in the news section of the portal, the details of which are listed in Section 5.

Task 5: ensure the involvement of regional sea conventions

- The report on the stakeholder needs for combined harmonised seabed habitat data products in Europe [has been published online](#). This document comprises deliverables D1.09 and D3.07. The latter was planned to be internal to the partnership, but we decided to publish it.
- EMODnet Seabed Habitats was invited to make a [presentation](#) at the 4th meeting of the HELCOM EN-Benthic (Expert network on Benthic Habitats). It was also an opportunity to gather feedback on requirement for habitat mapping products in the future and discuss synergies in data collation.

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

- Due to the personal data processing issue (See section 2, table B, issue INT01), responsibility for processing the emails from users was transferred from JNCC over to Ifremer.

Task 7: operate a help desk offering support to users

- This task is operated routinely

Status of the Milestones and Deliverables listed in the workplan

Milestone/Deliverable	WP	Date due	Status	If Delayed: reason for delay and expected delivery date
D1.06: Method for classifying EUSeaMap according to the new version of EUNIS [dependent on new EUNIS being publishing]	WP1	24/12/2020	Delayed	Report drafted. Required a more thorough examination than expected in the Mediterranean region Will be delivered the 29 th of January
D1.09: Review of stakeholder needs and feasibility of classifying EUSeaMap to regional classifications, such as HUB	WP1	24/03/2020	Delivered	
D1.10: Method for classifying EUSeaMap according to regional classifications	WP1	24/05/2020	Pending	<p>The rationale of D1.10 and D1.11 was that the Baltic and the Mediterranean regional classifications were quite different from EUSeaMap's reference classification, EUNIS.</p> <p>But EUNIS was recently transformed, and it was suspected to be more in line with these regional classifications. Hence translating the current version of EUSeaMap would have been unnecessary, because next version of EUSeaMap will be translated in this new EUNIS.</p> <p>Our recent analysis of the new EUNIS, carried out as part of D1.06, confirms that</p> <ul style="list-style-type: none"> - the new EUNIS Mediterranean habitats are strictly those of the Mediterranean regional classification (same codes, same wording) - the new EUNIS Baltic habitats are not exactly the same as the Baltic regional classification (i.e. not the same wording) but fully compatible (i.e. there is a one-to-one crosswalk) <p>In the new EUNIS the discrepancy between EUNIS and the regional classifications is therefore no longer an issue, and in order not to make unnecessary efforts, we propose:</p> <ul style="list-style-type: none"> - to remove D1.10, and briefly mention the above-mentioned findings in D1.06 (published soon, see above) - to delay D1.11, i.e. publish next iteration of EUSeaMap (sept 2021) in the new EUNIS <u>and</u> the Baltic regional classification
D1.11: EUSeaMap classified according to regional classifications, and metadata	WP1	24/09/2020	Pending	See D1.10
D1.15: Report describing ways in which EUSeaMap may be improved if funds become available	WP1	24/11/2020	Delivered	

D2.08: Guidelines for submitting habitat point data to OBIS	WP2	24/04/2020	Delayed	The guidelines are drafted, but not yet published. Due to causes out of our control, regarding QC communication between EurOBIS and the UK OBIS node (who are not at fault), EUROObis did not harvest the pilot datasets as planned. As the pilot dataset is therefore currently not yet accepted, the agreed method for adding habitat data to EUNIS is not yet confirmed and we will await this before publishing any guidelines.
D3.07: A review of stakeholder needs for combined, harmonized data products for seabed habitats in Europe	WP3	24/03/2020	Delivered	
D4.05: Seamless display of habitat maps stored locally and those accessed via machine-to-machine connections	WP4	24/11/2020	Delayed	This has been impacted by Covid and resourcing within the responsible organisations. A process an plan has been made to access identified remote mapping datasets, and it will be implemented early in the next quarter.
D4.09: User questions and answers on the portal and through RSS so they can be listed on the central EMODnet portal	WP4	24/08/2020	Delivered	

2. Identified issues: status and actions taken

A. Priority issue(s) identified and communicated by EASME/ DG MARE/ SECRETARIAT				
Priority issue	Status	Action(s) taken / remaining actions planned	Date due	Date resolved
JIRA EM-132 - Seabed Habitats to report on number and volume of downloaded data and data products by 6th of January	Resolved			06/01/2021
JIRA EM-107 Seabed Habitats - Removal of Brexit content disclaimer	Resolved			27/11/2020
JIRA EM-88 Seabed Habitats - Web Services MetadataUrl and DataUrl fields	Pending	<p>161 (out of 194) layers have been checked and/or amended to fix their issues. The remaining layers are very likely to have no online resource available. In that case, it the dataURL does not need to be documented (confirmed by the secretariat in JIRA discussions).</p> <p>We are undertaking a review to check and ensure that the remaining layers without a dataURL have no online resource available. This may take some more time.</p> <p>For example, some of the metadata cannot be checked because it is private in the ICES geonetwork. We are laising with ICES and working to fix the remaining layers and a spreadsheet of updates will be uploaded in due course on JIRA.</p>		
JIRA EM-80 - Seabed Habitats to report on status or plans to support INSPIRE Compliant CSW	Pending	<p>Request from the secretariat.</p> <p>We use the ICES GeoNetwork instance. Discussions are planned with the ICES team.</p>		

B. Issues / challenges identified by the thematic assembly group itself

Priority issue / challenge	Status	Action(s) taken / remaining actions planned	Date due	Date resolved
<p>INT 03 - covid, back to full lockdown confinement in the UK, with school closed</p> <p>Everything takes longer due to slow network speeds or having to take addition time off to look after children</p>	Pending	More days allocated to these tasks; although this will inevitably mean that fewer days will be available for other tasks later on in the project.		
<p>JIRA EM 93 - GDPR Compliance for Seabed Habitats</p>	Pending	<p>Cookies that relate to the live chat system, as the live chat functionality has been disabled and removed from the portal</p> <p>Cookies that relate to the ReCaptcha forms on the 'contact us' page that helped to filter out spam.</p> <p>Google Open Street Map cookies</p> <p>Minor technical issues remain and our worked on as a priority</p>		
<p>INT 01 - Personal data processing issue: due to UK leaving the EU the 1st of January 2021 and JNCC processing personal data, EMODnet Seabed Habitats would no longer have been compliant with the contractual clauses stating that no personal data can be processes outside the EU</p>	Resolved	<p>Responsibility for processing the emails from users was transferred from JNCC over to Ifremer.</p> <p>The server has been relocated in Europe</p> <p>The server logs from both the website and the geoserver have been deleted as they contain IP addresses</p> <p>The server logs for both website and geoserver have been configured not to record log IP addresses going forward</p> <p>The download capture form has also been configured not to record IP addresses</p>		10/12/2020
<p>INT 02 - Deliverable D4.09 (corresponding to a tender requirement - Section 2.1.3.8. User feedback): User questions and answers on the portal and through RSS so they can be listed on the central EMODnet portal</p>	Resolved	EASME agreed that EMODnet Seabed Habitats would publish an FAQ online instead of an exhaustive list of questions and answers, which are otherwise regularly reported in the progress reports		05/11/2020

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
07/10/2020	EMODnet Central	Technical - The map viewer is broken, it does not allow you to accept cookies and therefore the mapper doesn't work	Email	1 day	Resolved	Replied via email	Resolved
03/11/2020	VLIZ	General - Is it possible to get EUSeaMap and MSFD classes in a raster format?	Email	1 hour	Resolved	Replied via email	Resolved
04/11/2020	Bioconsult	General - I have some BH3 data I am preparing for OSPAR. Please could you point me to the correct contact.	Contact Form	10 minutes	Resolved	Replied via email	Resolved

24/11/2020	Department for Housing, Ireland	General - Update given on the progress of Irish data for the EUNIS OSPAR data call.	Email	30 minutes	Resolved	Replied via email	Resolved
07/12/2020	IBER-BAS, Bulgaria	General - Submission of three EUNIS maps to the EMODnet portal	Email	30 minutes	Resolved	Replied via email	Resolved
17/12/2020	HCMR	Technical - New GUI's needed for Greek habitat maps. Some assistance also required for confidence.	Contact Form	1 hour	Resolved	Replied via email	Resolved

4. Meetings/events held/attended & planned

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.)
08/10/2020	Toulouse, France	meeting		O	Meeting with Dominique Obaton (Head of Mercator Ocean's Operations & Services Department) - Organised by Ifremer and CMEMS - Partners attending: Ifremer We have agreed that CMEMS would include EUSeaMap 2019 in their MSFD portfolio, which is a portfolio that Dominique has initiated with EMODnet Chemistry
09/10/2020	Videoconf	workshop		A	EMODnet biology Transatlantic data products workshop - Organised by Emodnet biology - Partners attending: JNCC - EMODnet biology Transatlantic data products workshop - how can we applying US/Canadian data to the product workflows
14/10/2020	Videoconf	workshop	Presentation	A	Oral Presentation of Mickaël Vasquez at Copernicus user uptake workshop 'Using Earth Observation for Water Quality Monitoring' – Presentation title: Using Earth Observation for Seabed habitat mapping - The workshop is funded by 'Copernicus User Uptake' funds to deliver collaborative projects and events which are aimed at increasing the use of Copernicus satellite data for

					environmental applications. EMODnet Seabed habitats is going to participate from the perspective of end users and give a presentation on the first day.
09-10/11/2020	Videoconf	meeting		A	13th EMODnet Steering Committee Meeting
12-13/11/2020	Videoconf	meeting		A	8th EMODnet Technical Working Group Meeting
11-13/11/2020	Videoconf	HELCOM Secretariat	Presentation	A	4th meeting of the HELCOM Expert network on Benthic Habitats Emodnet Seabed habitats has been invited to present and ask comments from regional experts in HELCOM EN-benthic expert group on our planned work - and future work
23/11/2020	Videoconf	Internal meeting		O	5th Project Management Team meeting - Organised by JNCC - Partners attending: Ifremer, ISPRA, JNCC - The Project Management Team comprises WP leaders (Ifremer, ISPRA, JNCC), meets every 3 months and its task is to implement the scientific and technical activities
24-26/11/2020	Videoconf	conference	Presentation Poster Book of abstracts	A	MeriGéo: French Marine GIS and remote sensing conference (occurs every 2 years). Oral Presentation of Mickaël Vasquez and Thierry Schmitt (EMODnet Bathymetry). Title: "Synergies between EMODnet Seabed Habitat et EMODnet Bathymetry".

					Poster. Title: "A European web portal to access spatial data on benthic habitats: EMODnet Seabed Habitats".
10/12/2020	Videoconf	Internal meeting		O	3rd project meeting - Organised by Ifremer - Partners attending: All Partners - Occurs every 6 months - WP leaders present updates of their WP
10/12/2020	Videoconf	Meeting		A	Meeting EASME / DG-MARE / VLIZ / EMODnet Seabed Habitats, organised by EASME - technical solution to GDPR and contractual issues on data protection at the end of the Brexit transition A technical solution was proposed by EASME and agreed by EMODnet Seabed Habitats
10/12/2020	Videoconf	webinar		A	JNCC Science Talks Series. Kate Larkin from EMODnet Secretariat presented a history of EMODnet initiative and its future, and take question from the audience. ESH achievement was also highlighted.
SUM				O	Total # of meetings organised = 3
SUM				A	Total # of meetings attended = 8

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
14/01/2021	Videoconf	Meeting	O	JNCC meeting ICES data managers to discuss metadata in ICES GeoDatane트워크
01/2021	Videoconf	As part of WP2 (data collation), a series of one-to-one meetings are organised by ISPRA (WP leader) in order for each partner to update on their inputs and plans until the end of the contract	O	
02/02/2021	Videoconf	Meeting	O (co-organisation EMODnet Geology and Seabed Habitats)	Cross thematic meeting to ensure that Geology's product "seabed substrate" early delivery to Seabed Habitats suits our needs (this product is a key input to EUSeaMap)

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)
16/12/2020	CEEMS' MSFD catalogue	CEEMS has sent to DG-DEFI a first version of the MSFD catalogue, elaborated with EMODnet chemistry and Seabed Habitats. When achieved, the catalog will gather in the same place CEEMS and EMODnet information that is of interest for the MSFD. The next step is CEEMS to contact the MSFD chairs of the technical or expert groups to refine the information that is useful for each MSFD descriptor.	EMODnet Seabed Habitats' contribution to strengthening the links between EMODnet and CEEMS. When the catalogue is achieved, EUSeaMap will be promoted through a CEEMS catalogue	
November 2020	News item on ESH website	A news item on the participation of ESH to Copernicus users uptake seminars on the use Earth Observation for water quality monitoring with links to presentation by ESH and webinar recording	Promotion of links with Copernicus project and how the two initiatives benefit each other	
November 2020	Report	Stakeholder review report published on ESH website and on ARCHIMER	Inform users and stakeholder of plan for ESH products creation	
November 2020	News item on the EMODnet newsletter	Addition of new datasets to the portal	Inform users of updates also more traffic to the portal and promotion of the portal	

B. Planned communication products			
Date	Communication material	Short description (of the material, title, ...) and/or link to the asset	Main results expected
01/2021	1 Story map published on the website	2 story maps related to making habitat maps and using EUSeaMap for MSP	Provide access to resources on habitat mapping
01/ 2021	1 Story map published on the website	a story maps on an example of using EUSeaMap for Marine spatial planning	Provide access to resources on habitat mapping and a use case for EUSeaMap
01/ 2021	EMODnet Seabed Habitats Use cases on EMODnet central portal	All EMODnet Seabed Habitats Use cases so far reformatted, with added images to be published on EMODnet central portal	Provide access to the Seabed habitats use cases from the central portal

03/2020	News item on ESH website	Addition of new datasets to the portal	Inform users of updates also more traffic to the portal and promotion of the portal
03/2020	Tweet	Addition of new datasets to the portal – user of the story map in the tweet	More traffic to the portal and promotion of the portal
04/2021	Tweet	Meeting EMODnet biology on ingestion of habitat data into EuroOBIS	Promote the activities of both lots
04/2021	News item on ESH website	Meeting EMODnet biology on ingestion of habitat data into EuroOBIS	Promote the activities of both lots

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)
12/2020	ETC/ICM Report	ETC/ICM Report 3/2020: Spatial Analysis of Marine Protected Area Networks in Europe's Seas III Link		
11/2020	Regional Studies in Marine Science	Assessment of Romanian circalittoral soft bottom benthic habitats under Danube River influence DOI		
11/2020	Environmental Monitoring and Assessment	Developing benthic monitoring programmes to support precise and representative status assessments: a case study from the Baltic Sea DOI		
11/2020	Frontiers in Marine Science	A Methodology and Tool for Mapping the Risk of Cumulative Effects on Benthic Habitats DOI		
01/2020	ETC/ICM Report	ETC/ICM Report 4/2019: Multiple pressures and their combined effects in Europe's seas Link		
11/2018	Scientific report	National Pilot Monitoring Studies and Joint Open Sea Surveys in Georgia, Russian Federation and Ukraine, 2017		

		Link		
12/2017	Scientific report	Link National Pilot Monitoring Studies and Joint Open Sea Surveys in Georgia, Russian Federation and Ukraine, 2016 Link		

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	Other. Internally calculated based on data stored within backend databases, and updates made within that quarter.	No new data have been added in the current quarter, as data provision has been planned for the next two subsequent quarters. Work has already begun to prepare incoming datasets for delivery by the next quarterly reporting. Sea basin figures: Seabed Habitats uses a combination of ways to calculate the figures. Units are provided alongside each respective data/data product. For example, number of records for ground-truthing points, km2 coverage of EUSeaMap, number of datasets etc. Further information on a standard geospatial reference with which to generate these figures (though geospatial joins or operations such as unions etc) would still be welcomed, to produce both a consistent output between portals and a more automated process.
B) Usage of data in this quarter	Other. Internally calculated based on data stored within backend databases, and updates made within that quarter. Logs extracted from manual download forms and GeoServer requests to provide number of OGC requests.	Large increase in number of points downloaded, predominantly accessed via the Download page. This may be due to increased knowledge of the points in general (they were relatively new dataset last quarter), but also increased advertising both within EMODnet and within partner organisations. All other trends remain relatively stable, which is interesting as December is usually expected to see a dip due to increased holidays.
2. Current status and coverage of total number of data products A) Volume and coverage of available data products	Same as indicator 1.	No new data have been added in the current quarter, as data provision has been planned for the next two subsequent quarters. Work has already begun to prepare incoming datasets for delivery by the next quarterly reporting.

B) Usage of data products in this quarter	Same as indicator 1.	<p>There is a difference in calculation methods since last time, which may result in download size (GB) showing differences that are sourced other than number of downloads. The download sizes for manual packages are now based off of the zipped data size, which will be substantially lower due to compression amount. This has been done to improve automation and consistency in reporting.</p> <p>There has been a noticeable increase in the number of downloads of the individual habitat maps from survey, somewhat based off of increased prevalence of users selecting the "Download all" option on the manual download page, but which could also be driven through upcoming EU and other environmental assessments leading to a drive in the need for habitat coverage evidence, and also increased publicity, for example the 10 years of EMODnet webinar</p>
3. Organisations supplying/approached to supply data and data products within this quarter	Manual	No new data this quarter, this will be updated in the following quarter as per indicator 1
4. Online 'Web' interfaces to access or view data	Manual (but see comments)	<p>As per the previous reporting, this has been presented as a list of OGC endpoints.</p> <p>However, a new process has been developed to automate the gathering of percentage availability of datasets across service levels. This process is necessary due to the number of layers provided by the Geoserver, which negates manual collation. This process has finished the drafting phase, with initial results, but has not been quality checked and tested for full reporting, as such the figures have not been presented here. The figures should however be available for the next reporting period.</p>
5. Statistics on information volunteered through download forms	Other. Logs extracted from manual download forms	<p>The numbers remain fairly stable from the last reporting period with no noticeable large changes.</p> <p>The main noticeable item is the use of the data for "ICES benchmark" – the portal will endeavour to follow this up with ICES to understand the full reasoning for this use and determine if we can assist in the future to increase collaboration between the two organisations.</p>

6. Published use cases	Other. Extraction of use cases from both websites and manual reconciliation.	Large effort undertaken to synchronise use cases between the two portals, an inventory check will be taken in the next quarter and remaining use cases reconciled. Views per use-case cannot be achieved on the thematic portal due to multiple use-cases existing as subsections on a single page (covering a theme such as "Research"). Thus view statistics are not relevant. Unfortunately at the time of reporting, the central Matomo instance was not providing page-view statistics on use-cases for the previous quarter. This has been queried with Trust-IT and should hopefully be fixed in the next reporting quarter.
8.1. Technical monitoring	Matomo	Average response time has increased in the portal, we will investigate this on our side, but welcome comments from the secretariat on this.
8.2. Portal user-friendliness (Visual harmonization score)	Trust-IT supplied	Harmonisation score remains stable. We will raise the header/footer width with central to determine the course of action on this, we have noticed that a full width header/footer is common across most thematic portals and thus it would be beneficial to gain a single resolution.
9. Visibility & Analytics for web pages	Matomo	Statistics are relatively stable with a general slight increase, which is again surprising considering the Christmas/December effect. Data Exchange Format pages show the greatest increase which could possibly indicate an upcoming appetite for data supply, but similarly could be tied in with data use, with end-users visiting the pages for reference in the use of the data for e.g. assessments as described in indicator 2.
10. Visibility & Analytics for web sections	Matomo	Relatively stable in total page views, though the average daily number shows a general increase. It is hard to separate reasons for these two situations which initially would seem counterintuitive
11. Average visit duration for web pages	Matomo	Generally relatively stable. Two notable exceptions are: Data Exchange Formats, which has a decrease in duration, which is interesting considering the increase in number. Potentially users aiming for specific information on the page. Data submission process has significantly increased, which again potentially indicates an upcoming tranche of third-party data being supplied.

		As previously mentioned, the colouring of the charts does make differentiating the classes difficult, but with the number of classes, we appreciate that a perfect solution cannot be met here.

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.]