

EMODnet Thematic Lot n° 5 - Chemistry

EASME/EMFF/2020/3.1.11/Lot 5/SI2.846161

Start date of the project: 03/10/2021 (24 months)

Centralisation Phase

Quarterly Progress Report (2nd)

Reporting Period: 01/01/2022 - 31/03/2022



Contents

1. Highlights in this quarter	3
2. Identified issues: status and actions taken	8
3. User feedback	9
4. Meetings/events held/attended & planned	11
5. Communication assets	16
6. Monitoring indicators	21
7. Annex: Other documentation attached	23

Disclaimer

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



1. Highlights in this quarter

[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

During the reporting period, we noted a steady increase in the data held by EMODnet data centres and delivered in the data portal. Some data sets were enriched with new metadata fields, added to strengthen interoperability with EEA, CMEMS and the EU MSFD Technical Group on Contaminants. The existing data were completed with information related to the instrument, the platform, the monitoring purpose, etc., and amended according to the feedback received. The network of NODCs continued to be involved in managing micro-litter data collected by Member States as part of MSFD monitoring activity.

An updated beach litter dataset 2015-2020 was released to the EU MSFD Technical Group on Marine litter.

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

Following the technical proposal, new data products are expected to be released at M12. During this quarter, we updated the existing marine litter maps and the related description of the products in the catalogue.

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

The public discovery and access of all EMODnet Chemistry data sets is already arranged and operational through the CDI Data Discovery & Access service, that has a versatile user Interface, is INSPIRE compliant, and progress is being made as part of ENVRI-FAIR and Blue-Cloud projects with the development of an API for the CDI service.

EMODnet Chemistry products catalogue provides INSPIRE metadata fields, including a data URL and a metadata URL and this metadata description links users to OGC services available on the product, as WMS and WFS services. There is an OGC CSW service for the products catalogue itself.

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

During the reporting period, OGS, MARIS, ULg, AWI and IFREMER participated to the meetings organised by VLIZ with EMODnet Secretariat to identify the static content, available data and data products to be migrated and centralised. The purpose is to allow users to read about EMODnet Chemistry activity run during the five contracts (namely since 2009 till 2021), to find, view and download all its data and data products. The catalogue will describe all results while the last version will be visualised in the central map viewer.

Task 5: Contributing content to dedicated spaces in Central Portal:

During the reporting period, EMODnet Chemistry portal was kept up to date. In particular, the section ABOUT has been extended with new Guidelines (2 additions), Reports (2 additions) and Project Meetings (2 additions). The subsections "Who" and "When" were also updated, and a new page dedicated to the Phase V was added. Moreover, News (6 additions), Events and Presentations (3 additions) and Use Cases (1 addition) were updated in the PROMOTION section. Contents has also been regularly provided for the EMODnet news and use cases pages and for the monthly newsletters.

Task 6: Ensure the involvement of regional sea conventions:



In line with the ongoing dialogue with EC JRC, EMODnet Chemistry maintained support to the regional sea conventions carrying out a centralised reporting strategy for marine litter, based on a data management plan that is well defined, agreed and substantiated methodologically. In the reporting period, one extraction for beach litter was released to EC JRC, after data updating from EU Member States.

In addition, we received the confirmation to use EMODnet Chemistry for the HELCOM HOLAS III beach litter assessment with the request to collect new beach litter monitoring data in the HELCOM area for the period 2020 and 2021.

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

EMODnet Chemistry contributes to MSFD implementation by providing the data management hub for many kinds of marine litter data (beach, seafloor, floating microlitter and in the sediment). We established a close dialogue with the JRC and the D8/D9 Contaminants working group to evaluate MSFD reporting formats and how they fit with EMODnet Chemistry metadata schemas.

During this reporting period, we participated to the G20 MoEJ International Expert Meeting on Marine Plastic Litter Monitoring Data Sharing Project. The prototype System for Microplastics Data-sharing was discussed and tuned, together with the 'Data Entry Form Sheet' and the 'Data List Sheet' to collect marine litter data on a global scale.

Interactions also continued with the Global Partnership on Marine Litter Digital Platform (GPML), to tune EMODnet Chemistry contribution to the global system.

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

Procedures are up and running. A main updating was required to reformulate statistics following the MSFD-region approach. In particular, MSFD regions were reformulated in line with the polygons as retrieved from the EEA portal. These were used to geo-tag again all CDIs (>2.5 millions). These concern the CDI matrix of substances to report coverage of available datasets and Organisations supplying data. Moreover, implementing the procedures for extracting new KPIs to indicate quarterly CDI differences per data provider, per sea region, and #restriced;#unrestricted took quite some efforts. Download metrics for the map viewer, DOI landing pages, the data products catalogue and webODV Data Explorer and Extractor are collected when users access them through EMODnet Chemistry portal. User activities are not recorded for EMODnet Chemistry products described and made available through the Central Portal.

Task 9: Maintain the existing thematic web portal for a maximum of six months from the start of the projects:

EMODnet Chemistry portal is maintained up to date as described under Task 5. The alignment with the Central Portal is ensured by the activities described in Task 4.

Status of the Milestones and Deliverables listed in the workplan								
Milestone/Deliverable in numerical order	WP	Date due	Status (To do/ Delivered/ Delayed)	Date delivered	If Delayed: reason for delay and expected delivery date			
MS2 EMODnet Chemistry content contributed to the central portal	1	M3-M24	Delivered					



D1.1 Quarterly concise progress reports	1	M3, M6, M9, M12, M15, M18, M21	Delivered	M3 January 2022, M6 April 2022	
D1.2 Annual Interim report	1	M12 (3 October 2022)			
D1.3 Final report	1	M24 (3 October 2023)			
D1.4 Handover plan for service continuity	1	M24			
D1.5 <i>i</i> Consortium Agreement	1	M2 (December 2022)	Under finalisation		
D1.6 <i>i</i> Short minutes/action list of project meetings	1	M1, M6, M12, M18, M23	Delivered	M1 SC November 2021, M6 PFG December 2021, M6 SC End March 2022	
D1.7 Providing content to the central portal	1	Continuously	Delivered		
MS3 Chemistry (eutrophication, contaminants and microlitter) CDI metadata and data sets available from the central portal	2	M6, M18			
MS4 Marine litter data sets included in the EMODnet databases and available from the central portal	2	M12, M24			
D2.1 List of major rivers with identified data sources	2	M3 (January 2022)	Under finalization		
D2.2 Training activity for DC	2	M3 (January 2022)	Delivered		
D2.3i Data harvested for eutrophication, including rivers	2	M8, M17	Ongoing (M8 June 2022)		
D2.4i Data harvested for contaminants	2	M9, M20	Ongoing (M9 July 2022)		
D2.5i Data harvested for microlitter	2	M12 (3 October 2022)	Ongoing		
D2.6 Updates on marine litter guidelines	2	M6 (April 2022)	Under finalization		
MS5 High resolution DIVA maps near major river mouths available from central portal	3	M14			
MS6 Dedicated maps for contaminants available from central portal	3	M16			



MS7 Pan-European maps for	3	M18			
eutrophication available					
from central portal					
MS8 Concentration maps of	3	M20			
beach and seafloor litter					
available from central portal					
D3.1 Validated pan-European	3	M12, M21			
collections for					
eutrophication, including					
rivers					
D3.2 Validated collections for	3	M13, M22			
contaminants					
D3.3 Validated collections for	3	M19			
beach and seafloor litter					
D3.4 Validated collections for	3	M17			
microlitter					
D3.5 High-resolution DIVA	3	M16			
maps near river mouths					
D3.6 New maps for	3	M15, M24			
contaminants		-,			
D3.7 New pan-European	3	M14, M23			
DIVA maps for		1012 1, 10123			
eutrophication					
D3.8 New maps for	3	M23			
microlitter		14123			
D3.9 New maps for beach	3	M23			
and seafloor litter					
MS1 EMODnet Chemistry	4	M6	Delivered		
data and data products	•		20		
available from central portal					
D4.1 Standard machine- to-	4	M3	Ongoing		
machine services delivered	•		0808		
for common functionalities					
D4.2 Dedicated machine- to-	4	M6	Ongoing		
machine services and APIs	•		0808		
adapted / delivered for					
special functionalities					
D4.3 Upgraded databases for	4	M12	Ongoing		
new litter types					
D4.4 Improved services for	4	M10	Ongoing		
eutrophication					
D4.5 Improved services for	4	M10	Ongoing		
marine litter					
D4.6 Improved services for	4	M12			
contaminants					
D4.7 ODV Extractor with	4	M18	Ongoing		
expanded plots and					
integrated in central portal					
D4.8 Monitoring data about	4	Continuously	Delivered		
visits and usage					
D5.1 Operate Help-desk	5	Continuously	Delivered		
The state solb areas	-			1	l .



D5.2 Meetings of Board of MSFD experts	5	M6, M12, M18	Delayed	January 2023 (contaminants), February 2023 (eutrophication), September 2023 (litter) to be in line with the release of EMODnet Chemistry products (M14-15-16-23)
D5.3 International cooperation and interoperability	5	Continuously	Ongoing	
D5.4 Promotional material and up-to-date thematic space at central portal	5	Continuously	Ongoing	
D5.5 Presentations at relevant conferences	5	Regularly	Ongoing	



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 ar	ıd communic	cated by CINEA/ DG MARE/	SECRETARIA	АТ
Priority issue	Status (Pending/ Resolved)	Action(s) taken/ remaining actions planned	Date due	Date resolved
Chemistry to report on number and volume of downloaded data and data products by 29th of October 2021 (EM-359)	Resolved	Uploaded	29/10/21	05/11/21
Chemistry Quality of Service Monitoring (EM-144)	Resolved	Resolved by Ifremer	n.a.	14/01/22
Chemistry - EMODnet Catalogue Tags (EM-533)	Pending	Preparing the list	26/04/22	n.a.
Log4Jshell Update from Chemistry (EM-450)	Resolved	Done also the last step: upgrade to version 4 of GeoNetwork.	n.a.	25/01/22
Chemistry - Web Services MetadataUrl and DataUrl fields (EM-84)	Pending	Checking OGS GeoServer INSPIRE extension	n.a.	n.a.
TWG7 - Action 10: Chemistry to follow up on the updates to the Data products for the European Atlas of the Seas (EM-55)	Resolved	Revised draft	n.a.	15/03/22

B. Issue	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						
Wrong uptime metrics in Grafana (EM-438)	Pending	Still waiting for a solution from TRUST-IT.	14/01/22	n.a.						
Insert new Q1-2022 Chemistry use cases to Grafana (EM-548)	Pending	Still waiting for a solution from TRUST-IT.	14/03/22	n.a.						
Non harvested data products from Chemistry CSW (EM-551)	Pending	To be handled if still relevant once the Central Portal GeoNetwork update goes live (thus pending ticket EM-44)	n.a.	n.a.						



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 an	d/or requests	s received in	this quarte	er	
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
13/1	University of Victoria in Canada	Request for information: I am wondering if there are any documents that outline the framework or policies being used on the EMODnet data platform that have contributed to the harmonization of data and their collection methods	Indirect email since the user contacted both SeaDataNet and EMODnet, not directly EMODnet Chemistry	2:50 working hours	Resolved	Email response <u>.</u>	n.a.



17/2	n.a.	Technical: Unfortunately, when I download the following netcdf file, I get as title variable "Water_body_dissolved_oxygen_concentration_L2". So, I think there is a mistake here.	Email	6 working hours	Resolved	Email response: Unfortunately, as a project we don't produce products for organic Carbon.	n.a.
17/2	n.a.	Technical: Is there a possibility to get Dissolved Organic Carbon as a product?	Email	11 working hours	Resolved	Updating the product and email response: Thank you for your email. We apologise for this error! The record is updated	n.a.
30/3	Technopolis Group	Technical: error in webODV	Email	1 working hour	Resolved	Email response, resolving the issue and another email response for notifying that all is fine.	n.a.
31/3	University of Helsinki	,		6 minutes	Resolved	Email response: explanation.	n.a.



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.)					
13/01/2022	Online	Internal meeting	No	А	EMODnet Central Portal technical team meeting with Chemistry Participants: representatives of EMODnet Chemistry partnership (e.g. OGS, IFREMER, MARIS, AWI, ULg) VLIZ, EMODnet Secretariat Made steps forward to the EMODnet Chemistry centralization					
14/01/2022	Online	Internal meeting	Yes	0	Task force on contaminants to discuss marine contaminants: data & metadata needs expressed by JRC; QA/QC concerns for MSFD adoption. Participants: AU-DCE, AWI, HCMR, ICES, IFREMER, IMR, ISPRA, MARIS, MI, NIMRD, NOC, OGS, SMHI, ULg.					
17/01/2022	Online	External meeting	No	A	Arctic Regional Climate Centre Network ArcRCC – Nordic session, Participants: approx. 12 Introduced EMODnet					



17/01, 04/02, 7- 9/02/2022	Online	Hackathon competition + Training workshop	Yes, EutroWarn, the Early Warning System for Severe Eutrophication using EMODnet Chemistry data	A	Blue-Cloud Hackathon 2022 Innovation & ideation Workshops. 3-Day - Hacking time, coaching sessions, delivery proof of concepts, winners announcement Participants: 149, marine scientists & researchers, data scientists, ICT experts, innovators, and students Promoted the development of new technologies in line with the EU marine strategies and by using Blue-Cloud data and services (used EMODnet Chemistry eutrophication data)
24/01/2022	Online	External meeting	No	А	CMEMS INS TAC KOM - EMODnet Chemistry is attending the Advisory Board of CMEMS INSTAC
28/01/2022	Online	Internal meeting	No	A	Meeting between EMODnet Chemistry and Datras team to discuss seafloor litter data management. Participants: OGS and ICES Agreement on Datras metadata provided to ease alignment with EMODnet
01/02/2022	Online	Internal	Yes, state of the art of EMODnet rivers service	А	EUROGOOS - Coastal Working Group
14- 16/02/2022	Online	Conference	Yes (2) 1. How the marine data management at European scale can provide quality datasets to evaluate marine litter issues and contribute to the improvement of the existing monitoring processes 2. Harmonising and consolidating in Europe for a global engagement	A	IODE International Ocean Data Conference Participants: 590 online and 60 on-site marine data providers and managers Actionable recommendations aimed at realising the implementation of the ocean data and information "global commons" in the next future.
17/02/2022	Online	Webinar	No	A	Global Partnership on Marine Litter Action Track 5 and Digital Platform phase 3 release: Environmental Justice, Digital Transformation and Accessibility https://www.gpmarinelitter.org/events/conference/release-global-partnership-marine-litter-gpml-digital-platform-phase-3
17- 18/02/2022	Online	Conference	No	А	Copernicus Marine 2021-2028 Kick Off meeting



22/02/03	Online	External	Yes Leveraging Existing Marine Platforms for Ocean Observing	A	Session at Ocean Science 2022, OT04 Leveraging Existing Marine Platforms for Ocean Observing: Engaging Commercial and Professional Sectors on Local, Regional, and Global Scales. Participants: approx. 25 participants (commercial and professional sectors from local to global scale) Promoted EMODnet as a consolidate open data platform
02/03/2022	Online	External	Yes	A	H2020 - ARICE project General Assembly - to brief up the Assembly about on going collaboration and future data interoperability goals
03/032022	Online	Conference	Yes	A	Ocean Science Meeting - EMODnet presented on its activities to engage industries and citizen scientists - https://www.aslo.org/osm2022/scientific-sessions/
04/03/2022	Online	External technical meeting	Yes, EMODnet Chemistry: microlitter data management, formats, current use and future perspectives	А	G20 MoEJ International Expert Meeting on microplastics Participants: members of the G20 International Experts on Marine Plastic Litter Monitoring Data Sharing Project The exercise using EMODnet data on the prototype of MOEJ database have provided interesting outcomes for a further development of the cooperation and data linkage
14/03/2022	Online	Internal meeting	No	А	EMODnet Central Portal Technical Team meeting with EMODnet Chemistry Participants: representatives of EMODnet Chemistry partnership (e.g. OGS, IFREMER, MARIS, AWI, ULg) VLIZ, EMODnet Secretariat Made steps forward to the EMODnet Chemistry centralization
15/03/2022	Online	External	Yes	0	Meeting with Orsted on Offshore Wind and Ocean Data - EMODnet ingestion
22/03/2022	Online	External technical meeting	No	A	MarineLitterWatch use for MS Beach Litter data Participants: JRC, EEA and OGS Agreement on data sharing
23/03/2022	Online	Lecture	Yes the importance of sharing data, information and best practices	A	Advanced Master in Sustainable Blue Growth jointly organised by the University of Trieste and OGS.



28/03/2022 29/03/2022		External Internal meeting	No Yes	A A	Participants: 24 international students of European management studies, political sciences, environmental sciences The Master is contributing to the EU sustainable blue economy by offering concrete, high-level solutions to train new generations of scientists, technicians and operators in the marine and maritime sectors. EuroGOOS - DATAMEQ - periodic meeting. EMODnet meet and greet - Introducing MARE A1 Deputy Head of Unit Participants: DG MARE, OGS, MARIS
30-31/03/2022	Online	Internal meeting	Yes WP1 – Project coordination - Pending actions (OGS) WP2 – Metadata and data population by data providers: who has to catch up; making use of ICES for selected countries (MARIS) WP2 – Review of guidelines - updates on contaminants and acidification (OGS) WP2 – Formulating formats and vocabularies for marine litter (OGS) WP2 – Nutrients loads by major rivers (ETT) WP3 – Marine litter data collections (micro and macro) (OGS) WP4 – Migration to Central portal – progress (MARIS) WP4: Progress on webODV Development: API and Advanced Services for the Map Viewer (AWI) WP5 – Uptake, outreach, and interaction. Planning next EMODnet/ICES data integration for EEA indicators (ICES)	0	2nd EMODnet Chemistry V Steering Committee Participants: EMODnet Chemistry partners and subcontractors Made a list of actions concerning all the WPs and planned the timeline to get them done



SUM		0	Total # of meetings organised = 2
SUM		Α	Total # of meetings attended = 18

	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	
06/04/2022, 15/04/2022	online	Technical meeting	A	EMODnet Central Portal Technical Team meeting with EMODnet Chemistry Make steps toward to carry out the Centralization	
12- 13/04/2022	Genoa	Technical meeting	А	CMEMS INSTAC, EMODnet, EuroGOOS - Operational in situ data ingestion workshop	
April-June 2022	online	Internal meeting	0	Regional meetings on data harvesting Discuss status update and possible issues concerning the first data harvesting for contaminants and eutrophication Drawn up a list of actions needed to overcome raised problems, if any.	
April-June 2022	online	Internal meeting	0	Task force on contaminants meeting Make progress in revising vocabularies for contaminants and their interconnection according to the needs of key stakeholders	
April-June 2022	online	TBD	А	SHAREMED project-related events Inform on the EMODnet Chemistry contribution to this project	
19-20 May 2022	Ravenna, Italy	European Maritime day	A	The European Maritime Day (EMD) is the annual two-day event during which Europe's maritime community meet to network, discuss and outline joint action on maritime affairs and sustainable blue economy. Promote EMODnet Chemistry in a high level EU event dedicated to oceans and seas.	
08/06/2022	Online, Trieste (Italy)	External meeting	0	Celebrate World Oceans Day by drawing attention to the anniversary of the NODC. On this occasion, initiatives such as EMODnet Chemistry, which the NODC is working on, will have great results.	



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 products developed				
Date	Communication material	Short description (of the material, title,) of the asset	Main results	Name of event (if applicable)	
January 2022	Chemistry portal web news	Creation of the new page 'Fifth phase'	Add detailed information concerning the current EMODnet Chemistry phase		
January 2022	Chemistry portal web news	Update of the web pages 'Who' and 'When'	Adjust the existing web contents according to the ongoing phase		
10/01/2022	Chemistry portal web news	EMODnet Chemistry portal guidelines section: Updated guidelines for SeaDataNet ODV production. Eutrophication & Contaminants	Publish new guidelines		
10/01/2022	Chemistry portal web news	EMODnet Chemistry portal news section: Eutrophication and contaminants data: new guidelines are online	Notify that new guidelines are available		
11/01/2022	Chemistry portal web news	EMODnet Chemistry portal news section: Happy new year from EMODnet Chemistry: 2021 top 5	Inform on the 2021 main achievements		
17/01/2022	Chemistry portal web news	EMODnet Chemistry portal project meeting section: 5th Phase Task force on contaminants: 14 January 2022	Inform the partnership and users on the main topic discussed during a specific internal meeting and the resulting agreements		
17/01/2022	Chemistry portal web news	EMODnet Chemistry portal reports to EU section: 5th Phase: 2021Q4 Trimonthly Report, Oct-Dec	Inform on the periodic upgrade delivered to the EC		
07/02/2022	<u>Abstract</u>	Blue-Cloud Hackathon 2022 - deliverable 1: EutroWarn, the Early Warning System for Severe Eutrophication using EMODnet Chemistry data	Hand over the first deliverable of the Blue-Cloud Hackathon 2022	Blue-Cloud Hackathon 2022	
08/02/2022	Chemistry portal web news	EMODnet Chemistry portal reports to EU section: Final Report, 2019-2021	Inform on the periodic upgrade delivered to the EC		



08/02/2022	Presentation	Blue-Cloud Hackathon 2022- deliverable 2: EutroWarn, the Early Warning System for Severe Eutrophication using EMODnet Chemistry data	Hand over the second deliverable of the Blue-Cloud Hackathon 2022	Blue-Cloud Hackathon 2022
09/02/2022	<u>Video</u>	Blue-Cloud Hackathon 2022- deliverable 3: EutroWarn, the Early Warning System for Severe Eutrophication using EMODnet Chemistry data	Hand over the third deliverable of the Blue-Cloud Hackathon 2022	Blue-Cloud Hackathon 2022
11/02/2022	Chemistry portal web news	EMODnet Chemistry portal news section: Blue-Cloud Hackathon: 7-9 February 2022	Inform on the promotional events attended by the partnership	
Feb/2022	EMODnet newsletter	EMODnet Chemistry at the Blue-Cloud Hackathon 2022	Provide an informative on the latest news/events on a monthly basis	
Feb/2022	EMODnet web news	Blue-Cloud Hackathon: EMODnet Chemistry for 'Early Warning System for Severe Eutrophication'	Provide an informative on the latest news/events	
10/02/2022	OGS/NODC web news	OGS at the Blue-Cloud Hackathon 2022	Provide an informative on the latest news/events	
15/02/2022	presentation	How the marine data management at European scale can provide quality datasets to evaluate marine litter issues and contribute to the improvement of the existing monitoring processes	Participate in the IODE International Ocean Data Conference, sub session 2.3 'Data Science: scientific insight through data management'	IODE International Ocean Data Conference: 14- 16 February 2022
15/02/2022	presentation	Harmonising and consolidating in Europe for a global engagement	Participate in the IODE International Ocean Data Conference, sub session 3.3 'Expanding the pool: new partnerships (private sector, other digital stakeholder groups'	IODE International Ocean Data Conference: 14- 16 February 2022
17/02/2022	Chemistry portal web news	EMODnet Chemistry portal news section: IODE International Ocean Data Conference: 14-16 February 2022	Inform on the international events attended by the partnership	
03/03/2022	Chemistry portal web news	EMODnet Chemistry portal guidelines section: Marine Litter Manager: user manual 2022	Publish new guidelines	
04/03/2022	web news	EMODnet Chemistry portal news section: Read the new User Manual for Marine Litter Manager!	Notify that new guidelines are available	
18/03/2022	Chemistry portal web news	Q&A: Why are data collections quite challenging?	Draw the attention on specific activities of EMODnet Chemistry by interviewing	



			partners dealing with the topic	
18/03/2022	Chemistry portal web news	EMODnet Chemistry use case section: The Global Partnership on Marine Litter platform integrates EMODnet Chemistry data products	Inform on the latest use cases	
March 2022	EMODnet newsletter	The Manual for the Marine Litter Manager tool is online	Provide an informative on the latest news/events on a monthly basis	
March 2022	EMODnet web news	The Manual for the Marine Litter Manager tool is online	Provide an informative on the latest news/events on a monthly basis	
March 2022	EMODnet web news, section use cases	EMODnet Chemistry enriches the Global Partnership on Marine Litter platform	Inform on the latest use cases	
25 March 2022	Chemistry portal Web news	Master in Sustainable Blue Growth: lecture on sharing data, information and best practices	Inform on the latest events where EMODnet was extensively presented	
25 March 2022	Short video (included in the above mentioned Chemistry portal web news)	Lecture on sharing data, information and best practices	Give exhaustive information on the importance of sharing data and the main EU data platforms	
28 March 2022	OGS/NODC portal Web news	Master in Sustainable Blue Growth: lecture on sharing data, information and best practices	Inform on the latest events where EMODnet was extensively presented	
28 March 2022	Short video (included in the above mentioned OGS/NODC portal web news)	Lecture on sharing data, information and best practices	Give exhaustive information on the importance of sharing data and the main EU data platforms	

	B. Planned communication products					
Date	Communication material	Short description (of the material, title,) and/or link to the asset	Main results expected			
April- June 2022	Chemistry portal web news	EMODnet Chemistry use case regarding SHAREMED project	Inform on the latest usage of EMODnet Chemistry data and data products			
April- June 2022	Chemistry portal web news	SHAREMED project event during which EMODnet Chemistry contribution was stressed	Inform on the latest event during which EMODnet Chemistry was promoted			



A!!		FMOD at Charita and the time of	1.6
April- June 2022	presentation	EMODnet Chemistry contribution to the SHAREMED project	Inform on the EMODnet Chemistry synergy with SHAREMED project
April 2022	Chemistry portal web news	30-31 March Steering Committee project meeting	Inform on the latest internal meeting
April 2022	web news	Publication of the latest quarterly report to EU (Q1 2022)	Inform on the periodic upgrade delivered to the EC
May 2022	presentations	European Maritime day - Ravenna	Participate in a high level EU event dedicated to oceans and seas.
May 2022	web news	European Maritime day - Ravenna	Inform on the EMODnet Chemistry contribution to the European Maritime day
April- June 2022	web news	Regional meeting on data harvesting	Inform on the latest internal meeting
April- June 2022	web news	Task force on contaminants meeting	Inform on the latest internal meeting
June 2022	press release	20th anniversary of the NODC at OGS: The NODC will extensively talk about EMODnet Chemistry.	Inform media on the 20th anniversary of the NODC at OGS and its main achievements
June 2022	web news	20th anniversary of the NODC at OGS: The NODC will extensively talk about EMODnet Chemistry.	Inform EMODnet Chemistry portal users and visitors on the 20th anniversary of the NODC at OGS and its main achievements
June 2022	post on the OGS social media	20th anniversary of the NODC at OGS: The NODC will extensively talk about EMODnet Chemistry.	Inform on the 20th anniversary of the NODC at OGS and its main achievements via social media
June 2022	post on the OGS/NODC social media	20th anniversary of the NODC at OGS: The NODC will extensively talk about EMODnet Chemistry.	Inform on the 20th anniversary of the NODC at OGS and its main achievements via social media
June 2022	news on the OGS website	20th anniversary of the NODC at OGS: The NODC will extensively talk about EMODnet Chemistry.	Inform on the 20th anniversary of the NODC at OGS and its main achievements via social media
June 2022	news on the OGS/NODC website	20th anniversary of the NODC at OGS: The NODC will extensively talk about EMODnet Chemistry.	Inform on the 20th anniversary of the NODC at OGS and its main achievements via social media
June 2022	web news	20th anniversary of the NODC at OGS: The NODC will extensively talk about EMODnet Chemistry.	Inform on the 20th anniversary of the NODC at OGS and its main achievements via social media



[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 publica	tions in the quarter		
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access? Yes/No
10/01/2022	Guidelines	M. Lipizer, M.E. Molina Jack, L. Buga, L. Fyrberg, J. Gatti, A. Iona, G. Moncoiffe, A. K. Østrem, R. Schlitzer, K. Wesslander, A. Giorgetti 2022 EMODnet Phase V - Updated guidelines for SeaDataNet ODV production. Eutrophication & Contaminants, 10/01/2022		https://doi.org/10.13120/c1933032- 9fa9-4678-8539-effa1560921c	Yes
08/03/2022	Manual	M. Vinci, A. Altenburger, M. E. Molina Jack, E. C. Partescano, A. Giorgetti, Marine Litter Manager Manual. 08/03/2022		https://doi.org/10.13120/21addf37- 7e82-4a55-b040-3d3d87115ac0	Yes

	B. Other/non-peer reviewed types of publications (co-)authored in the quarter					
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access? Yes/No	
	e.g. paper; conference proceedings; book chapter;					

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			
Current status and coverage of total available thematic data A) Volume and coverage of available data	Matomo/ Europe Analytics/ other Please specify	Several new data sets have been entered, resulting in a steady increase of data. Coming quarter more new data are expected as we are nearing a harvest deadline end May 2022.			
What is your opinion on the data coverage within EMODnet for your thematic?		Data coverage is highly depending on parameter type. Only nutrients and dissolved gasses are covering coastal and open sea areas of all sea basins, in a quite homogeneous way (non-EU areas are still uncovered, for example in the southern Mediterranean Sea). The Chemicals by Region Matrix provides a rough overview: https://emodnet-chemistry.maris.nl/matrix			
B) Usage of data in this quarter		For CDIs, this quarter the number of requests for CDI data files has reduced considerably. While the number of users reduced only slightly from 16 to 15.			
Current status and coverage of total number of data products A) Volume and coverage of available data products		Three new map litter maps were added in the reported period.			
B) Usage of data products in this quarter		There is a big increase in Eutrophication DIVA and aggregated datasets manual downloads values, especially for fertilisers. However, there is a big decrease in the downloads of 'Contaminants maps and aggregated datasets', and a smaller decrease for marine litter maps and aggregated datasets.			



	As for map visualisations, there is an increase for dissolved gases DIVA and aggregated datasets, but most of the other products have a big decrease.
3. Internal and external organisations supplying/approached to supply data and data products within this quarter	Several new data sets (ca 18000) have been entered by 10 regular data providers, giving a steady increase of data.
4. Online 'Web' interfaces to access or view data	Nothing to report
5. Statistics on information volunteered through download forms	For CDIs, number of users is almost the same as in previous quarter, while number of CDIs is considerably lower. Except 1 all users from Europe. Data products interfaces: Organisation type 'Business and Private company' is almost third of the 'Map viewer' users! It's also dominant for the 'webODV Data Explorer and Extractor'. 'Map viewer' has more non-European users (39.7%) than any other interface."
6. Published use cases	"Highest number of views on Central Portal is: 'EMODnet partners with Copernicus Marine for a joint data catalogue supporting evaluation of Good Environmental Status for the Marine Strategy Framework Directive (15/06/2021)', while on Chemistry Portal it's 'EMODnet Chemistry contributed to the Joint List of Litter Categories for Marine Macrolitter Monitoring (16/04/2021)'. In both tables around half of the cases have no views. The tables are published as-is even though there is a missing use case from March 2022, as we've reported (JIRA EM-548)."
8.1. Technical monitoring	The above uptime graph is provided as-is, but as we've reported (JIRA EM-438), it's completely wrong! The correct uptime value is always 100%.
9. Visibility & Analytics for web pages	There is a traffic decrease for all pages.
10. Visibility & Analytics for web sections	Minor decrease: Products, major decrease: all other pages.
11. Average visit duration for web pages	Minor increase: Promotion, minor decrease: Help, Major decrease: all other pages.

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



7. Annex: Other documentation attached

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

