

EMODnet



European Marine
Observation and
Data Network

EMODnet Thematic Lot n° 4 - Chemistry

EASME/EMFF/2018/1.3.1.8

Start date of the project: 03/10/2019 - (24 months)

EMODnet Phase IV - Quarterly Progress Report (8th)

Reporting Period: 01/07/2021 - 30/09/2021



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1. Highlights in this quarter

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

This report covers the third quarter of 2021. In the following, the highlights for the period July-September 2021 are outlined for each of the tasks specified in Section 1.4.1 of the Tender Specifications:

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

- All EMODnet data centres continued populating EMODnet Chemistry data services with new raw chemistry data, gathered from many sources, and completing or amending the datasets already available in the portal. During the last three months, we registered a 4.6 % increase, meaning an addition of ca 50.000 CDI datasets in the system (an average of ~ 16.000 datasets/month). Following the request done by EU MSFD Technical Group on Marine litter to use EMODnet Chemistry data platform to collect MSFD monitoring data by all Member States, in this quarter the network of NODCs started gathering floating microlitter data.

Measurement data are available through the CDI Data Discovery and Access service that allows users to browse data sets in more detail, to narrow down their query and to download a selection of data sets. As part of the EMODnet Chemistry product workflow, collections of raw data are validated and elaborated into aggregated, standardized, validated data collections and other derived data products.

The special menu “Global” in webODV Data Explorer and Extractor allows users to easily explore, subset, visualize, and extract data in multiple formats from these aggregated, standardized, validated data collections on eutrophication, while it is now also possible for those collections on contamination. In the product catalogue a direct link connects each EMODnet Chemistry regional data collection to the webODV Data Explorer and Extractor. This connection avoids that users start downloading the quite large collections for exploring them offline with ODV Software.

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

- The EMODnet Marine Litter Visualization Products have been designed to consistently represent data within the limits of compatibility of the data sampling methodologies. During the period the guidelines “EMODnet Visualization products for Sea Floor Litter data” were published. This document describes the data management and computation methods used to produce the EMODnet Chemistry seafloor litter visualization products.

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: Develop a web portal allowing users to find, visualise and download data:

- The EMODnet Chemistry portal has earlier been reviewed and restyled following the observations received from the EU DG MARE and the EMODnet Secretariat. During the reporting period, the section ABOUT has been extended with new Guidelines (1 addition), Reports (1 addition) and Project Meetings (1 addition). The webODV has been made fully operational, linked, and described in all its functionalities. News and events (13 additions) and Publications (2 additions) were updated in the PROMOTION section. The new **EMODnet Chemistry: the treasure box for marine strategies** video was released on YouTube with subtitles in 2 UN languages: English and French. It was also translated in Russian, Chinese, Spanish, Italian, Dutch, and German by many EMODnet Chemistry partners and ambassadors; these subtitles were published at the beginning of October.

Task 5: Ensure the involvement of regional sea conventions:

- The EMODnet Chemistry involvement in implementing the Ecosystem Approach Roadmap, agreed by the Contracting Parties to the Barcelona Convention, was confirmed during the latest consultation regarding the 2023 UNEP/MAP Mediterranean Quality Status Report delivery. In this occasion EMODnet Chemistry explained its crucial contribution to the specific Ecological Objectives EO5 (eutrophication), EO9 (contaminants) and EO10 (marine litter).

Following the EC JRC request, EMODnet Chemistry, along with Human Activities, confirmed their availability to support a core group of experts in carrying out a centralised reporting strategy, based on a data management plan that is well defined, agreed and substantiated methodologically. The group of experts, brought together also to overcome this issue, involves the EC JRC, the Regional Sea Conventions, the European Maritime Safety Agency, and the EC Directorate General MOVE - Mobility and Transport, which implements the EC Directive of ship-source pollution.

EMODnet Chemistry agreed to act as data platform for marine litter data management within HELCOM. During the reporting period, a dedicated data flow was established.

Task 6: Facilitate interoperability with data distributed by non-EU organisations:

- EMODnet Chemistry gave its contribution to the 5th Community Workshop of the IOC-UNESCO Ocean Best Practices System, entitled “An Ocean of Values”. The workshop was aimed at exchanging ideas and discussing topical issues with the OBP community and disseminate the outputs. EMODnet Chemistry illustrated its marine litter data management experience as a contribution to the EU data harmonisation efforts for policy purposes and possible global perspectives. Further contacts are established to evaluate how EMODnet can contribute to GPML, the Global Partnership on Marine Litter Digital Platform launched at the United Nations Conference on Sustainable Development (Rio+20).

EMODnet Chemistry participated in activities for transparent and accessible seas and oceans (linked to the UN Ocean Decade) and in the periodic meetings of groups of experts engaged in the implementation of global data platforms in support of the sea-related objectives of the UN Agenda 2030 for Sustainable Development.

Task 7: Install a process to monitor performance and deal with user feedback:

- Procedures are up and running. COVID-19 emergency did not affect the functionality. The new web service developed by OGS has collected download metrics for the map viewer, DOI landing pages, the data products catalogue and webODV Data Explorer and Extractor. Unfortunately, user activities are not recorded for EMODnet Chemistry products described and made available through the Central Portal. Further analysis is needed to ensure complete monitoring forwards.

Task 8: Operate a help desk offering support to users:

The helpdesk is kept operational in the reporting period. COVID-19 emergency did not affect the functionality. All support requests received via the Help desk are listed in Section 4.

Status of the Milestones and Deliverables listed in the workplan				
Deliverable	WP	Date due	Status (Delivered/ Delayed)	If Delayed: reason for delay and expected delivery date
D1.1: Quarterly concise progress reports	WP1	M3, M6, M9, M12, M15, M18, M21	Delivered	-
D1.2: Annual Interim report	WP1	M12	Delivered	-
D1.5: Consortium Agreement	WP1	M2	Delivered	-
D1.6: Short minutes/action list of Coordination Group Meetings	WP1	M1, M6, M12, M18, M23	Delivered	-
D2.1: Revised guidelines for contaminants data management	WP2	M2	Delivered	-
D2.2: Remote technical workshop to train DC in contaminants data management	WP2	M2	Delivered	-
D2.3: Guidelines for QC for contaminants	WP2	M6	Delivered	-
D2.4: Close data harvesting for contaminants	WP2	M6	Done	-
D2.5: Close data harvesting for eutrophication	WP2	M6	Done	-
D2.6: Guidelines for new marine litter formats (floating macro and microplastics)	WP2	M6	Delivered	-
D3.1: Release of validated collections for contaminants to EEA	WP3	M12	Delivered	-
D3.2: Presentation of draft new maps for contaminants as viewing service to MSFD board	WP3	M15	Delivered	-
D3.3: Public release of new maps for contaminants as viewing service	WP3	M18	Delayed	The public release of new contaminants maps is pending and will be done during November 2021.
D3.4: Release of validated collections for eutrophication to EEA	WP3	M12	Delivered	-

D3.5: Higher resolution DIVA maps near major river mouths	WP3	M18	Delivered	
D3.6: Presentation of updated DIVA maps for eutrophication to MSFD board	WP3	M18	Delivered	
D3.7: Public release of updated DIVA maps for eutrophication	WP3	M21	Delivered	
D3.8: First version concentration maps of marine and beach litter	WP3	M12	Delivered	
D3.9: Release of aggregated and validated marine litter data collections	WP3	M18	Delivered	
D3.10 Presentation of draft marine litter maps, new and updated to MSFD board	WP3	M21	Delivered	
D3.11: Public release of marine litter maps, new and updated	WP3	M23	Delivered	
D4.1: EMODnet Chemistry portal upgraded with extra functionalities	WP4	M6	Delivered	
D4.2: Upgraded databases for marine litter	WP4	M10	Done	
D4.3: Improved viewing services in OceanBrowser	WP4	M15	Done	
D4.4: Set-up viewing services for contaminants	WP4	M12	Done	
D4.5: Adoption of SDC CVE prototype	WP4	M12	Delivered	
D4.6: On-line ODV application as part of operational CVE	WP4	M15	Done	
D4.7: Monitoring data about visits and usage	WP4	Continuously	Done	
D5.1: Operate Help-desk	WP5	Continuously	Done	
D5.2: Meetings of Board of MSFD experts	WP5	M15 , M18, M21	Done	

D5.3: International cooperation and interoperability	WP5	continuously	Done	
D6.1: Promotional plan, with listing of events	WP6	M3	Done	
D6.2: Promotional material handout	WP6	M6, M12	Delivered	
D6.3: Implementation of promotional plan	WP6	M6-M24	Done	
D6.4: Animation with existing products	WP6	M12, M24	Delivered	
D6.5: Presentations at relevant conferences	WP6	regularly	Done	

Status of the Milestones and Deliverables listed in the workplan

Milestone	WP	Date due	Status (Delivered/ Delayed)	If Delayed: reason for delay and expected delivery date
MS1: Chemistry (contaminants and eutrophication) CDI metadata and data sets included in CDI Service	WP2	M6	Done	
MS2: Marine litter and microlitter data sets included in the EMODnet databases	WP2	M12	Done	
MS3: First version concentration maps of marine and beach litter and microplastics	WP3	M12	Done	
MS4: Updated data collections for contaminants and eutrophication to EEA	WP3	M12	Delivered	
MS5: Updated dedicated maps for contaminants in viewing service	WP3	M15	Delayed	The review of new contaminants results by MS revealed issues in data coverage that took time to be solved
MS6: Updated DIVA maps for eutrophication and high-resolution pilots near major river mouths	WP3	M18	Done	
MS7: Updated marine litter maps for marine litter and microplastics	Wp3	M21	Done	
MS8: On-line ODV application as part of operational initial CVE	WP4	M15	Done	
MS9: Implementation of the promotional plan	WP6	M6-M24	On-going	

2. Identified issues: status and actions taken

[Provide an overview of the issues identified by CINEA (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 CINEA/ DG MARE/ SECRETARIAT				
Priority issue	Status (Pending/Resolved)	Action(s) taken / remaining actions planned	Date due	Date resolved
Constant monitoring of Matomo's traffic. Not urgent but a better coordination is needed	Resolved as final solution will be set after repatriation.	To be discussed and agreed at the TWG	Sept 2021	

B. Issues / challenges identified by the thematic assembly group itself				
Priority issue / challenge	Status (Pending/Resolved)	Action(s) taken / remaining actions planned	Date due	Date resolved
Harmonisation of items (Types, Topics, Keywords, Formats, Resolution, Progress code) in the Products catalogue of the Central Portal	Pending	Discusses at the TWG. Need of shared guidelines		
Request to the Central Portal to extend the list of keywords to all terms as it is now for CONTACTS	Pending			

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
2/7/2021	MEDPOL - UNEP/MAP	Regarding case study of use of EMODnet Chemistry data (eutrophication): request of information on metadata	e-mail	Less than 1 day	resolved	Personal contact	resolved
14/07/2021	European Commission Joint Research Centre	Zoi Konstantinou, Policy Officer of EC DG MARE inform OGS that EC JRC (Georg Hanke and Victoria Tornero) expressed their interest to work with EMODnet regarding Descriptor 8 (Contaminants) of the MSFD and more	email	1 day	resolved	During a dedicated meeting and via email, OGS communicated its availability to work with EC JRC also regarding acute pollution events.	

		specifically acute pollution events (oil and other contaminant spills)					
8/8/2021	MEDPOL - UNEP/MAP	Regarding case study of use of EMODnet Chemistry data (contaminants): request of data quality check verification	e-mail	1 day	resolved	Personal contact with user which required consequent extensive interaction with data originator	resolved
23/8/2021	EU - JRC	Regarding case study of use of EMODnet Chemistry data (contaminants): request of information on data and metadata	e-mail	Less than 2 hours	Resolved	Personal contact, dedicated meeting	Resolved, but dialogue to consolidate interactions and collaboration is ongoing
24/08/2021	The Italian Institute for Environmental Protection and Research (ISPRA)	Invitation to sign the declaration of intent on joining the Plastic Busters Network for tackling marine plastic pollution in the Mediterranean, with special emphasis on Marine Protected Areas	email	2 days	resolved	OGS sent the signed declaration to ISPRA	
14/09/2021	EU UNITED project and the NORA workgroup	Brecht Stechele asked whether EMODnet provides a service to extract spatial data	email	3 days	resolved	Clear instructions were provided to access the proper	

		series for the North Sea (total coverage) for the following parameters for a 10 years series: chlorophyll A, SPM (or POM/POc), SST and SSS.				EMODnet Chemistry Service	
16/09/2021	National Institute of Geophysics and Volcanology (INGV)	Request to discuss in what way data of chemical oceanography from the fixed station "Pegaso", located in Panarea Island (Sicily), could be ingested into the EMODnet Chemistry portal	email	2 days	pending	OGS notified via mail its availability to discuss the data ingestion	INGV notified OGS that the data owners are still discussing the feasibility internally. As soon as they come to an agreement, they are going to contact OGS again.
21/09/2021	JRC	Provide overview about incoming floating microlitter data. Table with progress update	e-mail	1 week	Resolved	Extract information from the database in the given format	
22/09/2021	Clean coast Bonaire	Carolyn Caporusso, involved in defining a strategy for harmonization of beach litter monitoring within the Wider Caribbean	email	3 days	resolved	A dedicated meeting has been set for the first days of October	22/09/2021

		Region, contacted OGS to discuss potential collaboration with EMODnet Chemistry concerning the data management system.					
15/9/2021	Interreg Med SHAREMED	Regarding case study of use of EMODnet Chemistry data (contaminants): request of information on data and metadata	e-mail	1 day	Resolved	Personal contact, dedicated meeting	Resolved
05/10/2021	JRC	Provide progress report on litter data collection	e-mail	20 min. & 1 day	Resolved	Extract information from the database in the given format	

4. Meetings/events held/attended & planned

[Organisational meetings/events held/participated (incl. presentations, lectures, trainings, demonstrations, workshops, etc.) by the contractor 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.)
25/06/2021	virtual	internal meeting	Yes (current chemical groupings and the reason for a revision)	O	Experts meeting to revise the chemical groupings Participants: international chemical experts
01/07/2021	virtual	external meeting	Yes (EMODnet Chemistry contribution to provide FAIR data)	A	HarmoNIA Network meeting Participants: HarmoNIA Network
09/07/2021	virtual	meeting	NO	O	Informal meeting with OSPAR experts to agree on micro-litter vocabulary terms
09/07/2021	virtual	external meeting upon invitation entitled "We Are All Ocean Citizens", a side-event of the high-level political forum on sustainable development.	NO	A	The event launched the Sulitest SDG 14 module in partnership with UN Department of Economic and Social Affairs (DESA) and Mercator Ocean International. EMODnet EMODnet Chemistry took part to the development of the module and promoted it's launch. Participants: Sulitest SDG14 Working group and ambassadors
15/07/2021	virtual	meeting	NO	A	Informal meeting with DG MARE and Human Activities to share views on Oil Spill data
20 - 22/07/2021	Tbilisi (Georgia, Caucaso)	external meeting	Yes (The presentation introduced by TSU was dedicated to the modelling of the distribution of the Marine	O	The meeting was organised within the EU BSB programme (project BSB552 RedMarLitter). Participants: EU BSB programme network

			litter in the Georgian Black Sea coastal area, where the EMODnet data on ML was used.)		
02/09/2021	virtual	consultation	Yes (EMODnet Chemistry contribution to EO5, EO9; EO10)	A	Consultation on the 2023 UNEP/MAP MED QSR Participants: international marine experts and data managers
07/09/2021	virtual	workshop	NO, input sent prior the meeting to drive discussion	A	SDG 14.3.1 Data Portal and federated data system workshop
07/09/2021	virtual	training workshop	NO	A	“Value chains in public marine data, a UK Study”. The webinar was aimed at disseminating the inspiring results of an original survey of UK marine data users, conducted by GOOS, OECD and MEDIN Participants: international marine experts and data managers
08-09-10/09/2021	virtual	project meeting	Yes, presentations on Key updates and forward look + Discussion on the Product Catalogue	A	EMODnet SC + MKEG + TWG
14/09/2021	virtual	workshop	Yes (EMODnet Chemistry expertise in marine litter data management was presented)	A	“Healthy Mediterranean Sea - Unlocking the potential of Ports and Harbours in preventing and reducing the effects of Marine LitterBlueMed workshop”. BlueMed workshop. EMODnet was invited to participate in the workshop to share its expertise in marine litter data management.
23/09/2021	virtual	workshop	NO	A	“Global Partnership on Marine Litter: New platform release & interoperability with the OBPS” the 5 th Community Workshop of the IOC-UNESCO Ocean Best Practices System. Participants: BlueMed network
23/09/2021	virtual	workshop	Yes (EMODnet Chemistry expertise in marine litter data management was presented)	A	“An Ocean of Values”, the 5 th Community Workshop of the IOC-UNESCO Ocean Best Practices System. It is aimed at exchanging ideas and discussing topical issues with the OBP community and disseminate the outputs.

					Participants: OBP community
24/09/2021	Trieste and virtual	festival	NO	O	During the event “Open science: because knowing is good for the environment”, at the Trieste Next Festival, Alessandra Giorgetti was interviewed to explain what open science is about. EMODnet Chemistry was brought as an example. Participants: general public
1/10/2021	virtual	meeting	Yes (EMODnet Chemistry services for contaminants were presented)	A	Meeting JRC - EMODnet on Contaminants data
SUM				O	Total # of meetings organised = 4
SUM				A	Total # of meetings attended = 11

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_November 2021	Batumi, Georgia	Science picnic with TSU	O	Science picnic – science popularisation country-wide event (TSU will have its own facility, where results of all ongoing marine projects (including EMODnet Ingestion, EMODnet Chemistry) will be introduced.
05/10/2021	virtual	meeting	O	Harmonization of Caribbean beach litter monitoring data
14/10/2021	virtual	meeting	O	EMODnet Chemistry and GPML Digital Platform collaboration
19/10/2021	virtual	meeting	A	TG ML sea floor litter core group
25-29/10/ 2021	virtual	training course	A	“Implementing the Ocean Data and Information System (ODIS) architecture”. During this course, participants will be trained in how to link their

				systems into ODIS and to make them a more visible and actionable part of the ocean's digital ecosystem.
25/10/2021	virtual	meeting	A	EMODnet/ICES WG Marine litter meeting
26-28 October 2021	virtual	workshop	A	"Annual MONGOOS General Assembly and Workshop". It is aimed at integrating science-based knowledge and promoting solution-oriented research in the Mediterranean Sea. (EMODnet cited in the SHAREMED WS report)
26-27/10/2021	virtual	workshop	A	MSFD microliter workshop organised by JRC
12/11/2021	virtual	Project meeting	O	EMODnet Chemistry Steering Committee
TBD	virtual	workshop	A	Marine Litter and Plastic Pollution Ontology peer review process
TBD	virtual	meeting	A	PANGEA meeting
January or February 2022	TBD	meeting	A	ICES WG Marine litter
14-16/02/2022	hybrid	conference	A	International Ocean Data Conference

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)
July 2021	web news / central portal	2 EMODnet news digest - EMODnet Chemistry reaches one million datasets EMODnet Chemistry, new maps!	Briefly inform EMODnet partnership and users on main EMODnet Chemistry monthly achievements	
01/07/2021	presentation	4th Phase: Experts meeting to revise the chemical groupings	Revise the chemical groupings with chemical experts	Meeting on chemical groupings with chemical experts
01/07/2021	web news	4th Phase: Experts meeting to revise the chemical groupings EMODnet Chemistry portal project meeting section	Inform the partnership and users on the main topic discussed during a specific meeting and the resulting agreements and actions.	
02/07/2021	presentation	HarmonIA Network meeting: 1 July 2021 EMODnet Chemistry portal event section	Stress the key role played by EMODnet Chemistry in the HarMONIA project	HarmonIA Network meeting
02/07/2021	web news	HarmonIA Network meeting: 1 July 2021 EMODnet Chemistry portal event section	Inform the partnership and users on the main events attended	

			and/or organized by EMODnet Chemistry	
09/07/2021	LinkedIn post Account Marianne Schlessner #Followers 946	#WeAreAllOceanCitizens Post to promote the release of the Sulitest: #WeAreAllOceanCitizens Test your #OceanLiteracy skills with #SulitestSDG14 http://sulitest.org See below how participants to the HLPF on Sustainable Development performed today during the launch of the Sulitest module on #SDG14 => We can all improve our knowledge of the #ocean #SDG14 #Youth4Ocean #OceanDecade #EU4Ocean #EMODnet #environment #sustainabledevelopme nt @Children4Oceans @TheBlueLeaders @SophieMirgaux @UNBiodiversity @Sulitest @EU_Mare @CMEMS_EU @OGS_IT	Increase visibility of the Sulitest to the network of colleagues # likes / support 8 # views 301	
09/07/2021	Twitter post	#WeAreAllOceanCitizens Vague Test your #OceanLiteracy skills with #SulitestSDG14 http://sulitest.org See below how participants to the launch of the module on #SDG14 performed today	Increase visibility of the Sulitest to the network of colleagues #Impression 174 #Engagements 18 #Reshare 1 #Likes 3	

		<p>We can all improve our knowledge of the #ocean</p> <p>#SDG14 #Youth4Ocean #OceanDecade #EU4Ocean</p>		
16/07/2021	web publication UE report	<p>4th Phase: 2021Q2 Trimonthly Report, Apr-June EMODnet Chemistry portal report to EU section</p>	<p>Inform the partnership and users on the past 3 months achievements reported to the EC</p>	
16/07/2021	web news	<p>Q&A: How does EMODnet Chemistry contribute to address marine litter pollution?</p> <p>EMODnet Chemistry portal news section</p>	<p>Keep partnership and users updated on the main EMODnet Chemistry objectives and achievements</p>	
August 2021	web news / central portal	<p>1 EMODnet news digest</p>	<p>Briefly inform EMODnet partnership and users on main EMODnet Chemistry monthly achievements</p>	
04/08/2021	<p>LinkedIn post</p> <p>Account Marianne Schlessner #Followers 946</p>	<p>Q&A: How does EMODnet-Chemistry contribute to address marine litter pollution? Read the points of view of two experts, from EC JRC and IFREMER</p> <p>https://lnkd.in/dPXFf3Pq</p> <p>#OurOcean #MarineData #OpenData #FAIRdata</p>	<p>Increase visibility of web news and the two videos “EMODnet for Policy” and Chemistry promotion video.</p> <p># Likes / support 2 # Views 247</p>	
04/08/2021	<p>Twitter post</p>	<p>Fighting oil spills: #EMODnetChemistry and #EMODnetHumanActivities were called in by EC JRC to provide their expertise in #MarineData management for data of acute #pollution events</p>	<p>Increase visibility of web news and the</p> <p>#Impression 508 #Engagements 14 #Reshare 2 #Likes 4</p>	


		<p>Discover how Flèche vers la droite https://emodnet-chemistry.eu/promotion/news/EMODnet_Chemistry_and_Human_Activities_against_contaminant_spills @EU_Mare @OGS_IT @EMODnet Photo by V.Kharlashkin</p>		
20/08/2021	web news	<p>The new EMODnet Chemistry phase: confirmed the Consortium. EMODnet Chemistry portal news section</p>	Keep partnership and users updated on the main EMODnet Chemistry objectives and achievements	
23/08/2021	web publication	<p>EMODnet Visualization products for Sea Floor Litter data EMODnet Chemistry portal guidelines section</p>	Provide detailed technical information on visualization products for Sea Floor Litter data	
23/08/2021	web news	<p>EMODnet Chemistry and Human Activities against contaminant spills. EMODnet Chemistry portal news section</p>	Keep partnership and users updated on the main EMODnet Chemistry objectives and achievements	
25/08/2021	<p>LinkedIn post Account Marianne Schlessner #Followers 946</p>	<p>Fighting oil spills: #EMODnetChemistry and #EMODnetHumanActivities were called in by EC JRC to provide their expertise in #MarineData management for data of acute #pollution events Discover how  https://lnkd.in/diC-Rsvr @EU_Mare @OGS_IT @EMODnet</p>	<p>Increase visibility of web news # Reactions 3 # Views 187</p>	

		Photo by V.Kharlashkin		
04/08/2021	Twitter post	<p>Q&A: How does #EMODnet #Chemistry contribute to address marine litter pollution? #OurOcean #MarineData</p> <p>Read the points of view of two experts, from EC JRC and IFREMER https://emodnet-chemistry.eu/promotion/news/Q&A_How_does_EMODnet_Chemistry_contribute_to%20address_marine_litter_pollution</p> <p>Watch the video =>https://youtube.com/watch?v=QRkWe6Uy9Vg&t=12s</p> <p>=>https://youtube.com/watch?v=4NobECD4k18</p> <p>@EU_Mare @OGS_IT</p>	<p>Increase visibility of web news and the two videos “EMODnet for Policy” and Chemistry promotion video.</p> <p>#Impression 136</p> <p>#Engagements 6</p> <p>#Reshare 1</p> <p>#Likes 3</p>	
25/08/2021	web news	<p>Q&A: Why is standardization so crucial for unlocking science? And what has EMODnet Chemistry been doing for?</p> <p>EMODnet Chemistry portal news section</p>	<p>Keep partnership and users updated on the main EMODnet Chemistry objectives and achievements</p>	
03/09/2021	presentation	<p>Consultation on the 2023 UNEP/MAP MED QSR, 2 September 2021</p> <p>EMODnet Chemistry portal event section</p>	<p>Show possible contribution of EMODnet Chemistry to the 2023 UNEP/MAP MED QSR</p>	<p>Consultation on the 2023 UNEP/MAP MED QSR</p>
03/09/2021	web news	<p>Consultation on the 2023 UNEP/MAP MED QSR, 2 September 2021</p> <p>EMODnet Chemistry portal event section</p>	<p>Inform the partnership and users on the main events attended and/or organized by EMODnet Chemistry</p>	

06/09/2021	News (SOCIB institutional website)	New SOCIB "CANALES" cruises BGC datasets available in SeaDataNet and Emodnet chemistry https://www.socib.es/index.php?seccion=detalle_noticia&id_noticia=488&language=en_GB	42 page views, 00:01:39 average time on page	
06/09/2021	News (SOCIB institutional account)	📌 New #SOCIB #CANALES Cruises BGC #Datasets available in @SeaDataNet and @EMODnet chemistry Know more👁️ https://cutt.ly/rWTDRIh #ICTSNews #OceanData #OpenAccess https://twitter.com/socib_icts/status/1434825619217567744	779 impressions, 31 interactions	
08/09/2021	web news	Webinar on public marine data, 7 September 2021 EMODnet Chemistry portal event section	Inform the partnership and users on the main events attended and/or organized by EMODnet Chemistry	Webinar on public marine data
September 2021	web news / central portal	2 EMODnet news digest	Briefly inform EMODnet partnership and users on main EMODnet Chemistry monthly achievements	
14/09/2021	web news	The EMODnet 15th Steering Committee Meeting: Autumn 2021 EMODnet Chemistry portal event section	Inform the partnership and users on the main events attended and/or organized by EMODnet Chemistry	
15/09/2021	presentation	Unlocking the potential of Ports and Harbours against Marine Litter: BlueMed workshop, 14 September 2021 EMODnet Chemistry portal event section	Stress the key role played by EMODnet Chemistry in the ML data management and its openness to new collaborations	BlueMed workshop

			and fields of application	
15/09/2021	web news	Unlocking the potential of Ports and Harbours against Marine Litter: BlueMed workshop, 14 September 2021 EMODnet Chemistry portal event section	Inform the partnership and users on the main events attended and/or organized by EMODnet Chemistry	
24/09/2021	Abstract + presentation	IOC-UNESCO Ocean Best Practices Workshop 2021: 20-24 September EMODnet Chemistry portal event section	Stress the key role played by EMODnet Chemistry in the ML data management and the latest best practices developed	IOC-UNESCO Ocean Best Practices Workshop
24/09/2021	web news	IOC-UNESCO Ocean Best Practices Workshop 2021: 20-24 September EMODnet Chemistry portal event section	Inform the partnership and users on the main events attended and/or organized by EMODnet Chemistry	
25/09/2021	web news	UNESCO Ocean Best Practices Workshop 2021: 20-24 September OGS-NODC website news section	Inform OGS-NODC website users on the main events that are also dealing with EMODnet Chemistry initiative	
27/09/2021	web news	Q&A: How are citizens contributing to EMODnet Chemistry? EMODnet Chemistry portal news section	Keep partnership and users updated on the main EMODnet Chemistry objectives and achievements	
27/09/2021	web news	Trieste next 2021: open science at OGS OGS-NODC website news section	Inform OGS-NODC website users on the main events that are also dealing with EMODnet Chemistry initiative	
27/09/2021	web news	Trieste next 2021: EMODnet Chemistry, an example of open science EMODnet Chemistry portal event section	Inform the partnership and users on the main events attended and/or organized by EMODnet Chemistry	

30/09/2021	web publication	Frontiers e-book: The Environmental Hazards of Toxic Metals Pollution. EMODnet Chemistry portal publication section	Promote the latest scientific articles based on EMODnet chemistry data	
30/09/2021	web news	EMODnet Chemistry on the Frontiers e-book: The Environmental Hazards of Toxic Metals Pollution. EMODnet Chemistry portal news section	Promote the latest scientific articles based on EMODnet chemistry data	
July-September/2021	Promotion Video on YouTube	With the help of EMODnet Chemistry partners, subtitles in EN/FR have been added to the promotional video	Facilitate access to the work done by EMODnet Chemistry in U.N. languages (EN / FR)	

B. Planned communication products

Date	Communication material	Short description (of the material, title, ...) and/or link to the asset	Main results expected
October 2021	Promotion Video on YouTube	With the help of EMODnet Chemistry partners, subtitles in other UN languages RU/ ES + Chinese and further European languages (IT / DE / NL) will be added.	Facilitated access to the work done by EMODnet Chemistry in five U.N. languages (EN / FR / RU / ES + Chinese) and additional European languages (IT / DE / NL).
October /2021	Publication of an article	Q&A with A. Giorgetti in Horizon Magazine	Promotion through media in collaboration with Secretariat
Oct_Dec /2021	Web promotional material	OGS: EMODnet Chemistry ML data success story in EMODnet Ingestion. EMODnet Ingestion	Promote EMODnet Chemistry by means of other EMODnet promotion channels
Oct_Dec /2021	Web promotional material	EMODnet Chemistry ML extended use case. EMODnet Ingestion	Promote EMODnet Chemistry by means of other EMODnet promotion channels
Oct_Dec /2021	Video	Updated movie on webODV with a tutorial dedicated to contaminants	Step-by-step tutorial
Oct_Dec /2021	Web news + Socialmedia posts + Email	Additional Chemistry use cases and key achievements in EMODnet monthly News Digest / on the Chemistry portal / in social media + Email	Routinely outreach and communication activities

[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)
23/08/2021	Methodology document describing the data management and calculation methods used to produce the EMODnet Chemistry seafloor litter visualization products.	Visualization products for Seafloor Litter data – DOI: https://doi.org/10.13120/c622d045-94ed-4b6a-9c78-404e86b8b9a3	Thomas A., Le Moigne M., Quimbert E., Molina Jack M. E., Vinci M., Cociancich A., Barth A., Holdworth N., Giorgetti A., Galgani F.	Ifremer, OGS, ICES, University of Liège
September 2021	Frontiers	The Environmental Hazards of Toxic Metals Pollution https://doi.org/10.3389/978-2-88971-343-1	Dragana S. Đorđević, Bernardo Duarte, Senthil Kumar Ponnusamy	University of Belgrade, Center for Marine and Environmental Sciences; SSN College of Engineering
25 September 2021	Marine Pollution Bulletin	Data quality and FAIR principles applied to marine litter data in Europe https://doi.org/10.1016/j.marpolbul.2021.112965	Partescano E., Molina Jack M.E., Vinci M., Cociancich A., Altenburger A., Giorgetti A., Galgani F.	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS); Institut Français de Recherche pour l'Exploitation de la Mer (Ifremer).

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)	Several new data sets have been entered. Overall, this has resulted in a steady increase of data. Also, the revised marine litter entries have been re-added.
B) Usage of data in this quarter	CDI RSM service	For CDIs, this quarter the number of requests for CDI data files is decreased by half compared to previous quarter. Also, number of users is considerably lower, 16 versus 27. Could be due to summertime holiday period.
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?	Sextant Catalogue forms	Many new and updated data products. Mainly Eutrophication DIVA products.
B) Usage of data products in this quarter	Matomo + Sextant Catalogue forms	There is a big decrease in map visualisations. possibly due to summertime holiday period. The same for manual downloads. However, the download trend for the marine litter products is very positive: + 85.37%.

		As for the total volume downloaded, we see that this time the highest value belongs to Acidity, not to Fertilisers, comparing to the previous report.
3. Organisations supplying/approached to supply data and data products within this quarter	CDI service	Several new data sets have been entered by a number of data providers. Also, SOCIB joined as data provider. Overall, this has resulted in a steady increase of data.
4. Online 'Web' interfaces to access or view data		No changes in this period.
5. Statistics on information volunteered through download forms	CDI RSM service and Sextant catalogue forms	Data – CDI service: number of users is about 60% as in previous quarter and also number of CDIs requested is about 50% less as previous period. Possibly, due to holiday period. Data products interfaces: Organisation type 'NGOs/Civil society' is almost half of the 'webODV Data Explorer and Extractor' users! It's also dominant for the 'Catalogue'. webODV Data Explorer and Extractor' has no non European users. South America: no data products download, only data. An interesting use case via the DOI interface: Artistic/musical creation based on oceanographic data."
6. Published use cases		Highest number of views both on Chemistry and on Central: 'EMODnet Chemistry contributed to the Joint List of Litter Categories for Marine Macrolitter Monitoring'.
8.1. Technical monitoring	Grafana	Excellent.
8.2. Portal user-friendliness (Visual harmonization score)	Report Trust-IT	There is no change in the good harmonisation score.
9. Visibility & Analytics for web pages	Grafana	Small traffic decrease for all pages in the graphs, bigger for the help page. Could be due to summertime holiday period.

10. Visibility & Analytics for web sections	Grafana	Web sections changes: big increase for About, Help and Data; small decrease fo Products and Promotion. Almost same value for Marine Litter. Could be due to summertime holiday period.
11. Average visit duration for web pages	Grafana	Web pages visit duration: small increase for About; small decreases for all other pages in the graphs. Could be due to summertime holiday period.

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.]