



EMODnet - Ingestion and safe-keeping of marine data

CINEA/EMFAF/2021/3.4.10/02/SI2.868290

Start date of the project: 30/03/2022 (24 months)

Centralisation Phase

Quarterly Progress Report (1)

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



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1. Highlights in this quarter

On 30th March 2022 the new contract for EMODnet Ingestion 3 was duly signed between EU CINEA and MARIS and this marked the official start of the new 2-year maintenance contract. Since then further contractual activities are undertaken by the coordinator for drafting and getting agreement and signatures for the partner contract with HCMR and bilateral subcontracts with the 42 other members of the EMODnet Ingestion 3 consortium. In the meantime, partner HCMR and nearly all subcontractors (38) have signed, while remaining subcontractors (4) have indicated to make progress with their administrations. On 16-17 June 2022 a kick-off meeting took place in Athens, Greece, splendidly hosted by HCMR. This meeting brought onsite 40 representatives of consortium members, while another 24 joined online. Overall, participants were very happy to meet again onsite as that makes quite a difference in acting and solving challenges as a team.



Image: Kick-off meeting with on-site participants with Poseidon in their midst.



Image: Kick-off meeting with online participants.

Task 1: Maintain, further develop and migrate a web-portal

The EMODnet Ingestion portal has been kept operational and maintained since the previous contract, which ended 30 Sept 2021, while the new contract has started end March 2022. In that period, care was taken that all services kept functioning as required. Although the Data Wanted service has been taken out of service and deleted from the main menu and sitemap as it was not popular among users. This de-activation is part of the agreed actions in the new contract.

Another new planned action is to analyse how the Ingestion portal and its services could be migrated to the Central Portal like all other EMODnet thematic lots. However, at the kick-off meeting of the coordination team (MARIS and HCMR) with CINEA and DG-MARE it was agreed that this analysis will not start before 2023 as the full focus of the migration is now on releasing the Central Portal with all thematics integrated by end 2022.

Task 2: Implement pathways for delivering data to final repositories

EMODnet Ingestion 3 has a network of 48 data centres which act as 'assigned data centres' for processing received data submissions. These data centres have continued with processing incoming data submissions, even in the period between the end of the EMODnet Ingestion 2 contract, i.e. 30 September 2021, and the start of the new contract, i.e. 30 March 2022. In the interim period of 6 months, the number of published submissions increased from 916 to 1002, while the number of elaborated submissions went up from 399 to 448 submissions, for which data sets are now processed into common standards and included in the European data management infrastructures (such as SeaDataNet, EuroOBIS, ..) which feed into EMODnet. In the first quarter of the new contract, these increased again from 1002 to 1072 published submissions and from 448 to 486 elaborated submissions.

A major contribution came from the exchange with the SeaDataNet SEANOE data citing service (<https://www.seadatanet.org/Software/SEANOE>). In practice, EMODnet Ingestion partners encourage researchers to submit their scientific papers and associated data collections first to SEANOE in return for a DOI which promotes their wider citation. As a next step, the SEANOE submissions are exchanged with EMODnet Ingestion for further metadata completion, publishing 'as-is', and further elaboration aimed at inclusion in national and European portals. Since the start of this dynamic exchange more than 160 SEANOE submissions have been processed and published at EMODnet Ingestion, of which 25 have been elaborated to common standards.

Moreover, there is a cooperation with the H2020 Eurofleets+ project which organizes scientific cruises with research vessels from the European fleet as transnational access activities. Eurofleets+ has an open data policy which requires scientific teams to publish their metadata and data in the established national and European portals. Thereby, scientific teams are encouraged to submit their data submissions to EMODnet Ingestion as an effective way for reaching the expert data centres. So far, this has resulted in 11 published data submissions of which 4 have been elaborated to common standards.

EMODnet Ingestion is setting up comparable cooperations with more EU projects, starting with giving guidance and support for drafting project Data Management Plans and aiming for making arrangements for sharing their collected data sets with EMODnet. However, a prerequisite is that these projects themselves guarantee sufficient manpower for the actual preparations for getting acquainted with the data management standards, services, tools, and procedures, so that they get educated and that the elaboration is not just left over to the EMODnet Ingestion partnership.

Furthermore, activities are undertaken to establish a dynamic coupling between EMODnet Ingestion and the Marine Data Exchange (MDE) of Crown Estate in the United Kingdom. Already, several submissions have been received from MDE and have been elaborated. A dynamic exchange like with SEANOE will result in more and regular entries. For the implementation use will be made of the coupling of MDE with MEDIN, whereby already a filter is applied for selecting interesting marine environmental data sets. So, in practice, the Submission service of EMODnet Ingestion will be coupled with MEDIN, involving activities by NOC-BODC, HCMR, and MARIS.

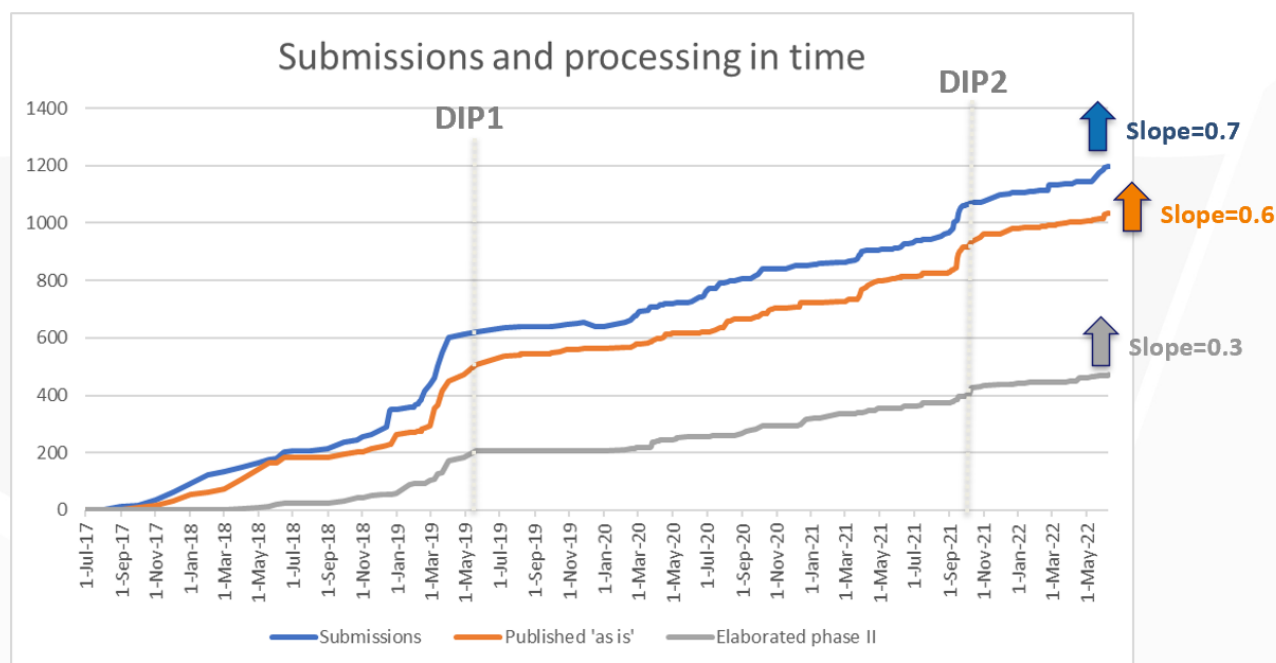


Image: number of submissions and phase 1 and phase 2 publications over the 3 contracts

Task 3: Facilitate machine-to-machine transfers

The goal of the task is to continue facilitating faster availability of data by establishing direct connections between oceanographic operational monitoring stations and repositories and towards EMODnet by machine-

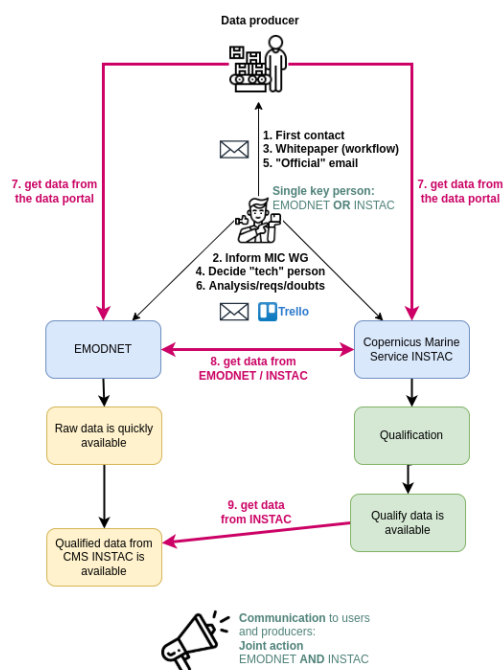
to-machine transfers and expand and upgrade the Sensor Web Enablement (SWE) demonstrator. Like other tasks, also this task has not really halted end of September 2021 but continued, also supported by the cooperation with EMODnet Physics. Since October 2021, new data sources have been connected and the following main results have been achieved:

- 1) River data – from Norway, France, Italy, and Scotland were linked in the operational river outflow product;
- 2) MELOA data project – were connected via ERDDAP1– MELOA is deploying drifting wave buoy;
- 3) ARICE Metadata and data model analysis is ongoing and preliminary data (AWI – Polarstern)² are now linked in EMODnet Physics catalogue.
- 4) Gliders data from VOTO (Voice of the Ocean) Foundation

Moreover, since November 2021 the Marine Insitu Collaboration Technical Working Group (MIC TWG) is functioning. It joins together key actors from EMODnet Ingestion, Physics, Chemistry, Copernicus Marine Service In Situ TAC, EuroGOOS office and EuroGOOS Task Teams, SeaDataNet/SeaDataCloud, for working together on the further harmonization of standards, procedures and workflow for ingesting and sharing operational data. The main scopus is to be one single voice towards newcomers. The MIC TWG is using shared common tools (e.g. defined workflow, trello ...) and it is working on:

- review of metadata (global attributes)
- guidelines
- tools

The figure gives the promoted workflow.



The MIC TWG is working on recommendations for metadata global attributes:

- Identification

descr		
Platform identification.	Each platform/station should be identified by a unique ID	WMO code - https://www.ocean-ops.org/ ICES – SHIPC https://vocab.ices.dk/?ref=315

¹<https://erddap.emodnet-physics.eu/erddap/search/index.html?page=1&itemsPerPage=1000&searchFor=MELOA>

²<https://erddap.emodnet-physics.eu/erddap/search/index.html?page=1&itemsPerPage=1000&searchFor=ARICE>

Variable	<p>basic metadata to be associated with the variables are: the measuring device (instrument type) used, the precise definition of the variable, its standard name and abbreviation, the unit used and the quality flag associated.</p>	<p>Instrument type, refer to SDN L22 (i.e. NETZZZZ or TOOLZZZ) https://vocab.seadatanet.org/v_bodc_vocab_v2/search.asp?lib=L22</p> <p>Definition of variable, refer to SDN P01 & subset (i.e. SDN:P01::VVVZZXX) https://vocab.seadatanet.org/bandit/browse_step.php</p> <p>Standard name following the CF convention https://cfconventions.org/Data/cf-standard-names/79/build/cf-standard-name-table.html</p> <p>Unit of the variable, refer to SDN P06 (i.e. ZZZZ, 4 uppercase letters) https://vocab.nerc.ac.uk/collection/P06/current/</p> <p>Quality flag, refer to SDN L20 (i.e. number between 0 and 9 or letter: A, B, Q) https://vocab.seadatanet.org/v_bodc_vocab_v2/search.asp?lib=L20</p>
Time	The time associated to the data	<p>ISO 8601 format where</p> <p>Date is expressed as YYYY-MM-DD</p> <p>time is in 24-hour mode and UTC, e.g. T13:05:15Z meaning 13 hours 5 minutes 15 seconds UTC (representing by Z)</p>
Geographical position	latitude and longitude coordinates	The reference coordinate system to be used to characterise the data is the WGS84

- Citation

Dataset.	The datasets should be identified by a DOI, persistent identifier for object and ISO standard.	DOI publishers in Europe are ZENODO (https://help.zenodo.org/) for any research fields (and including data, papers, software ...) and SEANOE (https://www.seanoe.org/html/doi-complementarity-with-databases.htm) for marine research data
Institution identification	The institution responsible for the marine in situ data should be displayed.	This should be done thanks to EDMO code that references marine institutions all over the world. The information and any organisation code can be found on SeaDataNet website https://edmo.seadatanet.org/results
Person.	ctors associated to the data	persistent digital identifier or ORCID code. Refer to https://orcid.org/
Project	Projects and/or Programs that supported the data acquisition	EDMERP code. The code (5 digits) of a project can be found or obtained for a new project on SeaDataNet website (https://www.seadatanet.org/Metadata/EDMERP-Projects)
Licence	When possible, to give open and free access to the data. Note that this access can be	The licence "Creative Commons" (CC) gathers these characteristics. It lists 6 different licence types from most to least permissive with the common point that credits must be given to the

done through authorisation or authentication if needed.	creator. The most permissive: CC-BY (which the only limitation that credit must be given to creator) should be preferred.
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Task 3 is also supporting the adoption of ERDDAP. Initiated by NOAA, ERDDAP nowadays is promoted by GOOS and adopted by a large community for making a machine-to-machine exchanges. EMODnet Ingestion partners (ETT, MI among the others) are contributing to new features development and dockerization. A EMODnet docker package is already available to any organization willing to adopt it. This was successfully used by VOTO (Voice of the Ocean) to set up their ERDDAP instance and get connected to EMODnet.

Furthermore, an open dialog takes place with EMANEDS – European Marina Networks of Environmental Data Stations – to support the group on interoperability and data flow towards EMODnet.

Finally, the WP3 team of ETT, CNR, and 52North has started actions to upgrade the SWE demonstrator.

Task 4: Operate a help-service for users to provide their data in the most appropriate format

The portal has a service-desk, which is operated on working days. Users can either email their questions or ask for a call back. Emails are sent to a generic service desk mailbox. All queries are saved and tracked in the Open-source Ticket Request System (OTRS), allowing providing statistics on the questions received. Recorded queries are analysed in order to elaborate a Frequently Asked Questions (FAQ) page at the portal. In the period from end September 2021 to end March 2022 a total of 7 questions were received and answered, while in the reporting quarter no questions were received.

Task 5: Allow providers of data to track the progress of their data from submission through to their storage in a repository

Data providers can follow the processing of their data submissions in the Submission Service, which is done in several steps each indicated by a status field. Data providers are contacted by assigned data centres, in case there are additional questions about the ingested data sets.

Task 6: Participate in discussions with EMODnet partners in order to improve the efficiency of the whole collection, assembly and dissemination process

The coordinating team of EMODnet Ingestion 3 (MARIS + HCMR) had a meet and greet with the new Deputy-Head of EU DG MARE to introduce him to the EMODnet Ingestion goals and activities. They also had a kick-off meeting with CINEA and DG MARE to discuss the new contract and its priorities. They also participated and presented the project progress in the EMODnet Steering Committee and Technical Working Group hybrid meetings which took place in the period of 26 – 28 May 2022.

Task 7: Maintain a summary record of data delivered

This function is offered by the View Submissions service. Each completed submission is migrated to that service for publishing as part of a discovery and access service. Distinction is made in phase I and II which is one of the search facets. Editing activities take place aimed at replacing so-called orphan data for organisations from free text into controlled EDMO terms, orphan data for projects into controlled EDMERP terms, and orphan terms for Cruises into controlled Cruise Summary Reports (CSR) terms in order to improve the integrity and richness of the metadata. Task 2 and chapter 6 give information about the statistics.

Task 8: Engage in outreach activities towards significant holders of marine data whose data are not yet available.

During the period between the end of the second phase and June 2022, two new use cases were prepared and outreach activities focused on promoting the 9+2 use cases in social networks, on the web and in

newsletters. No less than 22 tweets and 3 publications on LinkedIn took place, as well as the publication of three news items in the EMODnet News Digest, which has now become a regular target for the dissemination of the project activities. The table in Chapter 5 gives more details.

A booklet with the first ten use cases was printed and distributed at two events in June in Portugal and at the kick-off meeting of the project. At these three physical events, RBINS was able to disseminate outreach material sent by classic mail prior to the meeting (stickers, bookmarks, flyers, Ingestion pins, the remaining A0 posters “Wake up your marine data” printed on polyester), along with EMODnet reports provided by the Secretariat and notebooks.

During the EMODnet Ingestion 3 kick-off meeting, the activity schedule was presented. Partners were also invited to publish their work in scientific social networks; fine tuning on how to link the publications to the EMODnet Ingestion project is still to be done. In the coming months, 4 more use cases will be added to the series. After that, RBINS will prepare a briefing to allow the data ambassadors of the case studies to record a video presentation and publish the video series on a YT playlist dedicated to EMODnet Ingestion on the EMODnet YT channel.

Now that the physical meetings have resumed, it is also planned to print a new R/V leaflet with two flagship case studies, particularly in support of the objective of mobilising coastal and off-shore licensing data.

Partners undertook various outreach activities at conferences, workshops, and bilateral meetings, partly onsite, mostly remote, which are listed in Chapter 4. Several of these activities have resulted in actual data submissions, which then have been followed-up for publishing.

One activity under task 8 is to update the inventory of potential data sources (D4.1) which has to be delivered by M8 (November 2022). An initial version of this inventory was made in the previous contract and served as a guidance for partners to identify and mobilise new data providers and new data submissions. In the new contract, this exercise for building an inventory with contributions from all EMODnet “ambassadors” will be repeated, thereby making use of the lessons learned so far. The activity is led by RBINS and their approach was discussed at the recent project kick-off meeting. Soon, RBINS will distribute to all partners a guidelines document, including lessons learned and instructions, and a reporting template for the inventory. Most probably, the actual activities will start for many partners in September 2022 after the holiday period.

Task 9: Improve and document the availability of data provided for coastal and offshore licensing.

A new challenge is to engage with public authorities in Member States who receive data from licensing procedures for coastal or offshore activities, with particular emphasis on aquaculture and offshore energy. The tender requirements mention that work shall include:

- Promoting common reporting standards that facilitate data ingestion;
- Documenting in a searchable database the parameters, specifications and accessibility of the data from each country;
- Organising a workshop on license data with a view to starting the road towards a more harmonised approach.

This activity is led by Deltares and requires input from all partners concerning their national situation. A first step (M1 – M6) is to identify potential stakeholders (e.g. public authorities). Identified stakeholders have to be described in an inventory to ensure a proper representation of the regional/country situation and the needs in terms of data on coastal and offshore activities. This inventory will then be used for the second step which deals with establishing a baseline Assessment or Inventory of Data Collection and Licensing Processes in each country (M7 – M12). This should be followed by setting up a Database: (M12-M18) and Initiating development of a Roadmap towards a more harmonised approach: (M12-M22).

This approach was presented by Deltares and discussed at the project kick-off meeting, whereby it appeared that there might be multiple stakeholders and arrangements per country, but also large differences between countries. Moreover, it was not yet clear to all partners what we understand by stakeholders in the given context. Therefore, it was agreed that a straw man document will be prepared and circulated to all partners together with a simple survey to help each partner on their way in understanding our aims and to gather the local information as initially needed for the inventory.

Task 10: Service continuity during operation and for transition

Coordination of the consortium is undertaken by MARIS and HCMR to ensure the continuity of the EMODnet Ingestion portal and its array of services.

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
D0.1: Quarterly concise progress reports	0.1	M4, M7, M10, M13, M16, M19, M22, M24	D0.1-a delivered; others to do	M4	
D0.2: Interim report	0.1	M12	To do		
D0.3: Final report	0.1	M24	To do		
D0.4: Transition and hand over protocol	0.1	M24	To do		
D0.5i: Agreement and subcontracts	0.1	M1	Almost done		
D0.6i: Short minutes - action lists of internal coordination meetings	0.1	Regularly	Underway		
D1.1: Web portal operational, incl extranet	1.1	M1 – M24	Delivered	Operational since M0	
D1.2: Guidelines, manuals, handbooks on portal	1.1	M1 – M24	Delivered	Operational since M0	
D1.3: User Management service operational (Marine-ID /EU Login)	1.2	M1 – M24	Delivered	Operational since M0	
D1.4: Data Submission Service operational	1.3	M1 – M24	Delivered	Operational since M0	

D1.5: Data Submission Service upgraded	1.3	M1 – M8	Underway		
D1.6: Data tracking service operational	1.4	M1 – M24	Delivered	Operational since M0	
D1.7: View Submissions service operational	1.5	M1 – M24	Delivered	Operational since M0	
D1.7: Portal and services moved to Central Portal	1.1 – 1.5	M1 – M12 ³	To do		
D2.1: Pathways operational	2.1	M1 – M24	Delivered	Operational since M0	
D2.2: Many submissions processed and published 'as is' (phase 1) and at EMODnet thematic services (phase 2)	2.1	M12, M24	Underway		
D2.3: Help service operational	2.2	M1 – M24	Delivered	Operational since M0	
D3.1: Updated documentation, standards and procedure for NRT and RT data published	3.1	M12, M24	To do		
D3.2: Connections with new NRT and RT monitoring stations operational	3.1	M12, M24	Underway		
D3.3: ERDDAP installation package	3.1	M12	To do		
D3.4: DAB installation package	3.1	M12	To do		
D3.5: SWE to ERDDAP software module	3.2	M22	To do		

³ Depending on start of migration process by Contracting Authority and complexity

D3.6: Upgraded Viewing service for NRT and RT stations	3.2	M12	To do		
D4.1: Inventory updated of potential data sources and providers in European countries and priorities	4.1	M8	Underway		
D4.2: Updated promotion material	4.4	M12, M24	Underway		
D4.3: Results of marketing and outreach activities	4.2	M12, M20	To do		
D4.4: Inventory of identified stakeholders for licensing data	4.3	M6	Underway		
D4.5: Inventory of current license data practices	4.3	M14	To do		
D4.6: Database about availability of license data per country	4.3	M18	To do		
D4.7: Reporting on license data Workshop	4.3	M22	To do		

2. Identified issues: status and actions taken

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

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

3. User feedback

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

4. Meetings/events held/attended & planned

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.)
Mar – Dec 2021	3 * online	External meetings with ANEMONE project coordination team	Yes.	O	NIMRD: General presentation of EMODnet Ingestion project and Data submission procedure given. Romanian data obtained during the project (Eutrophication / acidification / contaminants / Floating litter / Beach litter) were submitted to EMODnet Ingestion and partly directly to EMODnet Chemistry.
18 Oct 2021	online	Meeting - OceanEye with MARIS, Ifremer, OGS, HCMR	No	A	MARIS+IFREMER+GS+HCMR: To discuss about steps for ingestion of OceanEye data for marine litter
18-22 Oct 2021	Aarhus, Denmark	Baltic Sea Science Congress	Yes	A	AU-DCE: The EMODNET Ingestion 'Wake up your data' promotion material has been handed out to relevant participants to the event as The Danish Environmental Protection Agency and poster was presented. The result was 2 new datasets from the Ministry of Environment plus the agreement of future cooperation.
29 Oct 2021	online	Meeting - SBM Offshore with MARIS, ETT, SMHI, HCMR	No	A	MARIS+HCMR+ETT+SMHI: To continue discussion on equipping SBM Offshore installations as oceanographic stations and setting up operational data exchange
Oct 2021	Reykjavík, Iceland	Symposia – The Icelandic Biological Society meeting	No	A	FMRI: Informal introduction of EMODnet Ingestion and distribution of flyers

16 Nov 2021	Online	EMODnet 10 th SC	Yes	A	HCMR + MARIS: Periodic meeting of the EMODnet Steering committee
30 Nov 2021	Varna, Bulgaria	BSHC-annual seminar: http://bshc.bg/structure/General_Presentation.htm	Yes	A	IO-BAS: It is the annual event of the BSHC to report activities of projects and programs. IO-BAS presented EMODnet Data Ingestion and distribute flyers and posters.
Nov 2021	Hafnarfjörður, Iceland	Workshop – The Icelandic Oceanographic consortia meeting	Yes	O	FMRI: Introduction of EMODnet Ingestion and data dissemination possibilities was given
Dec 2021	online	Internal meeting: LitOUTer project	No	A	NIMRD: During the meeting initiated by Romanian NGO “Mare Nostrum” it was decided that Beach litter data obtained by Romanian partners will be submitted to EMODnet Ingestion.
22 Jan 2022	online	training class on open data and marine infrastructures (EMODnet, SeaDataNet, CMEMS)	Yes	A	INGV: The class was targeted to undergrad students of the University of Bologna, Environmental Science department, with the goal to spread open data principles, the marine data value chain, the main marine data infrastructures, EMODnet thematic lots and the Data Ingestion service. The EMODnet portals and relative products have been presented to facilitate their uptake for the undergraduate thesis preparation. Title: title: Marine Open Data a way forward to increase multidisciplinary ocean knowledge and support the Blue Growth.
28 Jan 2022	online	Internal Seminar	Yes	A	INGV: The seminar presented the SeaDataCloud products, the data workflow and value chain and the open data principles. EMODnet and its data ingestion service was presented too. Title: title: SeaDataCloud data products and value chain through a collaborative approach.
Jan 2022	e-mail contacts	Positive feedback of a dissemination action started time ago	No	O	ENEA: cooperation with Azzurro Ernesto et al., ClimateFish: Abundance of selected coastal fish species as candidate indicators of climate change in the Mediterranean Sea. The ClimateFish database includes fish counts collected along 3.142 transects carried out in seven Mediterranean

					countries between 2009 and 2021. Data published in the SeaNOE system in April 2022.
Jan 2022	Online	Presentation during internal meetings with the work team of the MedFever project	No	A	ENEA: The MedFever team agreed to publish the time series of temperature sampled, during 2021, in 12 points of measurements in the Tyrrhenian Sea, about 78 Mb of data. Data published in the SeaNOE system in Feb 22.
14-16 Feb 2022	Online	IODE - International Ocean Data Conference 2022 The data We Need for the Ocean We Want	Yes	A	HCMR: Recorded poster presentation on EMODnet data Ingestion
27 Feb 2022	Gandia (Spain)	Master's class "The IEO Observing system in the European framework for oceanographic data management"	Yes	O	IEO: Lectures given to Master's students.
Feb 2022	e-mail contacts	Positive feedback of a dissemination action started time ago	No	O	ENEA: Cooperation with Azzurro Ernesto, Sonia Smeraldo, Manuela D'Amen (2022). ORMEF: Occurrence Records of Mediterranean Exotic Fishes database. The ORMEF database is a comprehensive, and robust compilation of exotic fish observations recorded in the entire Mediterranean Region from 1896 to 2020. Data published in the SeaNOE system in March 2022.
10 Mar 2022	Online	Internal Webinar	yes	O	INGV: The webinar aimed at raise awareness about data and data products publication, DOI and relative landing pages in line with the INGV data policy. The goal of sharing this data with the main marina data infrastructures such as EMODnet has been presented too. Title: title: Data Management in MACMAP project.

05 Apr 2022	web	external	no	A	ETT: Joining webinar on Best Practice in Aquaculture
08 April 2022	Sweden	external	yes	A	SMHI: Meeting of Swedish National Committee for Ocean Decade with attention to EMODnet and Ingestion.
11 Apr - 2022	Online	External Webinar	Yes	A	VLIZ: NCK Data Day: https://www.nck-web.org/upcoming-events/108-the-value-of-measurements-and-monitoring . Given presentation: https://www.nck-web.org/content/documents/2022/Theme_Day_Measurements/pitch9_EMODnet_Biology_JoanaBeja_VLIZ.pdf High level overview about EMODnet Biology's activities and services. Recording: https://www.nck-web.org/past-events/all-events/108-the-value-of-measurements-and-monitoring Session dedicated to the topic “The value of measurements and monitoring” A slide with the data flow (including EMODnet Ingestion was presented)
12 Apr 2022	Online	Meeting – MARE A1 Deputy Head of Unit with MARIS, HCMR	yes	A	MARIS + HCMR: To introduce the project to the new MARE Deputy head
12-13 Apr 2022	Genova, Italy	Meeting	yes	O	ETT: Marine Insitu Collaboration - MIC TWG - to streamline data flow between main EU marine data operators and integrators
14 Apr 2021	Split, Croatia	Soundscape project internal meeting, Interreg programme CBC Italy – Croatia	no	A	IOF: Discussion on the publishing of collected data on underwater noise in the Soundscape project The decision was to publish 20 seconds averaged sound pressure data sets from all stations in the North part of the Adriatic Sea from March 2020 – June 2021. Proposed is using EMODNET Data Ingestion and SeaDataNet service SEANOE for data publishing with DOI.

Apr 2022	Online/La Spezia	Internal meeting with the DLTM working team for the LabMare initiative	no	A	ENEA: The Ligurian DLTM Consortium (CNR, ENEA, IIM, INGV, etc.) has installed a coastal-cabled monitoring station, in the Eastern Ligurian Sea in the S. Teresa Bay (La Spezia)). ENEA published on behalf of the DLTM consortium in the SeaNOE system a time series of about 2 years about temperature, pressure, water conductivity and salinity. Data published in the SeaNOE system in April 2022.
25 Apr 2022	Online	Meeting – Kick off CINEA/EMFAF with MARIS, HCMR	no	A	MARIS + HCMR: To discuss with EU CINEA and DG MARE the new contact
26-27 Apr 2022	Online	Hybrid meeting: EMODnet 11th TWG	no	A	MARIS + HCMR: To discuss the EMODnet centralization and its progress
Apr 2022	e-mail contacts and phone calls	Dissemination activity in the B-Blue project in which ENEA is responsible	Yes	A	ENEA: Agreed to present the EMODnet Data Ingestion portal by means of videos and a short document in a web site used by a huge Mediterranean community of the Blue Biotechnologies (BBt).
May 9, 2022	Constanta, Romania	External Meeting: EMD in My Country 2022, Science Fair on Blue Economy in the Black Sea Region, organized by Black Sea Universities Network	Yes.	A	NIMRD: EMODnet Ingestion and the workflow process from data to EMODnet Portal were presented to the audience. By means of poster and EMODnet Ingestion promotion materials
09-10 May 2022	Sweden, Malmö	External	yes	O	SMHI: International Ocean Literacy Conference organised in Sweden, One Ocean – One Planet: Ocean Literacy Action 2022. Organised a parallel session on Citizen Science and Ocean Literacy. ~25 attendees
11 May 2022	Online	webinar - EU Marine Data Services EMODnet and COPERNICUS Marine in the context of An All Atlantic	no	A	HCMR: Panelist on behalf of EMODnet data Ingestion at the discussion for the data sharing

		Ocean Data Space 2030 and global ocean data ecosystem			
11 May 2022	Sweden, Malmö	External	no	O	SMHI: National marine infrastructure and data mapping workshop. ~45 attendees
9-13 May 2022	web + Cadiz, Spain	workshop	yes	A	ETT: participating in EuroSEA workshops week + GA
16 May 2022	Bizkaia (Spain)	Conference. Training	Yes.	(A)	CSIC: conference for university students in the framework of a conference cycle about: ROVs, offshore eolica and geology. Focus on morphosedimentary features and sedimentary systems making up the continental margins. EMODnet was introduced to show how a rapid access to reliable and accurate information is possible. Title: The seafloor geomorphology and sedimentation on continental margins. The colleagues at the meeting have no information to ingest because they are not data originators. A general conference will be arranged after summer to explain with more detail EMODnet.
May 17, 2022	Zagreb, Croatia	Internal meeting Croatian Marine referral centre (RMC) with the Ministry of the economy and sustainable development (MESD) and Croatian waters (HV)	Yes	A	IOF: Short presentation on EMONnet and discussion on declassification of data collected in the framework of MSFD (MESD) and WFD (HV) monitoring .The conclusion was that RMC sent an official letter to MESD and HV with a request to join all data collected in the framework of MSFD and WFD in two mirroring databases (located in RMC and HV) and their declassification.
19 May 2022	Online	MEDIN Data Archive Centres Meeting	No	A	BGS: MEDIN DAC meeting including BGS, BODC and other DACs

19-20 May 2022	Ravenna, Italy	conference	yes	A	MARIS + ETT: Participating in European Maritime Days - https://ec.europa.eu/maritimeaffairs/maritimeday/conference_en . MARIS chaired a panel on European marine data management. EU4Ocean @ EMD - https://european-maritime-day-2022.b2match.io/agenda?session=c2Vzc2lrbjoxMTI1OTA%3D&track_id=19933
19 May 2022	Sweden, Gothenburg	External	yes	A	SMHI: National marine Citizen Science workshop. ~25 attendees. Presenting on national CS initiatives, cooperation and data flows
19-20 May 2022	Constanta, Romania	External Meeting: The 8 th International Scientific Conference SEA-CONF 2022, "Sailing to the future" Fair, organized by "Mircea cel Batran" Naval Academy	Yes	A	NIMRD: EMODnet Ingestion was presented to the audience using poster and EMODnet Ingestion promotion materials.
26 May 2022	Online	Meeting – Trans Europe Marinas with ETT, SHMI, HCMR	no	A	HCMR+ETT+SMHI: To discuss on new sensors installed to the Trans Europe Marinas network and later data ingestion into EMODnet
30 May 2022	Online	Preparatory meeting- EMODnet Vision 2030	no	O	HCMR: To discuss the EMODnet Vision for the future, government and business model
30 May 2022	Genova, Italy	meeting	yes	O	ETT: meeting with CIMA foundation (https://www.cimafoundation.org/) - to discuss about synergies
May 2022	Hafnarfjörður	Internal meeting at MFRI	No	A/O	FMRI: A meeting on releasing CTD data from fisheries cruises
06-10 Jun 2022	New York, USA	External Meeting	Yes	A	VLIZ: Participated to 22 nd meeting of the United Nations Open-ended Informal Consultative Process on Oceans and the Law of the Sea. EMODnet Biology was invited to present the European perspective on

					"Strengthening ocean observation value chain through regional cooperation: lessons from EMODnet Biology". It included a slide with the data flow including EMODnet Ingestion.
6-7 Jun 2022	Vieira de Leiria, Portugal	Symposia organised by APOCEAN – Portuguese association of Oceanography	Yes	A	IHPT: Encontro de Oceanografia 2022 (https://apocean.wordpress.com/inscricoes/); Poster "Wake up your data" was presented + stand with promotion material as received from RBINS.
10 Jun 2022	Online	Meeting – EMODnet Ocean Decade coordination group	no	A	HCMR: To discuss EMODnet involvement and contribution in Ocean decade activities
07 Jun 2022	Sweden, Norrköping	External	yes	A	SMHI: RV Svea open day for SMHI employees. General EMODnet presentation given
16 Jun 2022	Genova, Italy	workshop	no	A	ETT: GESmartCity - Blue District - workshop to discuss about synergies between projects to support the municipality blue and smart projects - about 30 attenders
16-17 Jun 2022	Glyfada, Athens, Greece	Kick-Off Meeting EMODnet Data Ingestion 3	Yes	O	Kick-Off Meeting EMODnet Data Ingestion 3 with 40 in-situ and 24 remote participants, to discuss the new phase goals and activities
17 Jun 2022	Online	Meeting	No	A	COGEA: Meeting in the framework of iAtlantic industry data exchange. The meeting aimed at exchanging offshore oil and gas data with Brazil. It was recommended to submit the layers through the EMODnet Data Ingestion portal.
21 Jun 2022	Online	Meeting – Trans Europe Marinas/EMANEDS project	no	A	HCMR+ETT+SMHI: To discuss concept paper on sensors characterization and prioritisation for including into EMANEDS project
21 Jun 2022	Online	Meeting	No	A	COGEA: Meeting to discuss the final report of contract: CINEA/EMFF/2020/3.1.16/Lot2/SI2.850940 - Vessel Density. EMODnet Human Activities is the steering committee. The contract has produced a method and map layers to account for loss of SAT-AIS messages due to

					collisions. The layers will be uploaded on the EMODnet Data Ingestion portal.
21 Jun 2022	web	external	no	O	ETT: CCMALR - to discuss about interoperability
21 Jun 2022	Brest, France	Internal meeting	Yes	O	Shom: meeting for sharing experience on European Projects. 17 participants. Presentation of EMODNet Data Ingestion given.
22 Jun 2022	Brest, France	External meeting	No	O	Shom : JIST « Journée d'information scientifique et technique » - 150 participants. Data Ingestion promotional material distributed.
22 Jun 2022	Online	EMODnet Vision 2030	no	A	MARIS + HCMR: Internal consultation & planning meeting for EMODnet Vision 2030
21-23 Jun 2022	Lisbon, Portugal	Symposia co-organised by Hydrographic Institute, Navy Authority and State Laboratory, and the Hydrographic Institute of the Spanish Navy	Yes	O	IHPT : 7as Jornadas de Engenharia Hidrográfica/ 2as Jornadas Luso-Espanholas de Hidrografia (https://jornadas.hidrografico.pt/index/pt) Poster "Wake up your data" presented + stand with promotion material sent by RBINS.
27 Jun – 01 Jul 2022	Portugal, Lisbon	Conference	no	A	SMHI: Participating in UN Ocean Conference
27-28 Jun 2022	Online	Hybrid meeting: EMODnet 16th SC	no	A	MARIS + HCMR: Periodic meeting of the EMODnet Steering committee - To discuss the EMODnet Ingestion update and the centralization
28 Jun 2022	Online	Meeting	Yes:	A	COGEA: It was an internal meeting organized by DG MARE to understand to what extent EMODnet can support the offshore energy sector and Maritime Spatial Planning. As specifically regards MSP, it was highlighted that some Member States have already submitted their spatial plans via EMODnet Data Ingestion, and these plans have ended up on EMODnet Human Activities. It was added that EMODnet Data Ingestion has potential

					for filling a gap (without passing new legislation) in the MSP Directive, which does not set out rules, standards and formats for data transmission. Full availability was given to assist Member States in submitting their plans via EMODnet Data Ingestion. MARE and the EU MSP Platform will follow up with MSs. presentation of EMODnet Human Activities for offshore energy and MSP. It was highlighted that the Data Ingestion facility should become the preferred vehicle for Member States to transmit their spatial plans to the Commission
SUM				O	Total # of meetings organised = 17
SUM				A	Total # of meetings attended = 43

Note: the coverage includes the period since end September 2021 when the EMODnet Ingestion no 2 contract was finished, in order to keep a continuous overview.

Date	Location	Type event (meeting, training (workshop), etc.)	Meeting to be attended (A) / organised (O)	Short description and main expected outcomes
05 Jul 2022	Batumi, Georgia	National event	O	TSU: will present and exhibit visual and video material for promotion of the goals and results of EMODnet Ingestion and EMODnet Chemistry projects. The national event is organized under the auspice of government of Georgia dedicated to the Black Sea affairs, problems, achievements etc.
7-9 Jul 2022	Bilbao, Spain	Symposia about the Atlantic Iberian margin. External	A	CSIC: Gemma Ercilla belongs to the Scientific Committee. Title of abstract: EMODnet: geospatial information node for the analysis and modelling of different processes in the marine environment.
11 Jul 2022.	OIKON LLC, Zagreb, Croatia	Workshop	A	IOF: Presentation of EMODnet Data Ingestion and how to submit data through EDI Portal
11 – 15 Jul 2022	Portugal, Azores	Workshop	A	SMHI: 2022 Marine Robotics Summer School. Presentation on European data flows and Data Management
19 Jul 2022.	University of Dubrovnik, Croatia	Workshop	A	IOF: Presentation of EMODnet Data Ingestion Project and how to submit data through the DIP Portal
19 Jul 2022	Online	internal meeting	O&A	INGV: meeting with INGV Palermo team that manages the Panarea bottom observatory to proceed with the publication and ingestion of 2015-2021 time series of T, pH, S, CO ₂ , O ₂ and P

21 Jul 2022	Online	MEDIN Standards Meeting	A	BGS: MEDIN Standards Meeting including BGS, BODC and other DACs
Jul 2022	Online	internal meeting	O&A	INGV: meeting with INGV Lerici team that holds Marine litter density per meter square 2018 to submit the data to the data ingestion service
16-18 Aug 2022	Aalborg, Denmark	The Danish Marine Research Annual Conference & meeting	A	AU-DCE: Probably a presentation will be given depending on the schedule availability provided by the organisers. There are plans to contact potential data providers from participant institutions and organisations at the conference such as the University of Copenhagen and the Ministry of Environment
16-20 Sep 2022	Porto Heli, Argolida, Greece	Marine and Inland Waters Research Symposium	A	HCMR: To present EMODnet Ingestion at the Panhellenic Symposium, the biggest event in Greece concerning the marine environment
16-20 Sep 2022 (date not fixed yet)	Porto Heli, Argolida, Greece	Meeting at the Marine and Inland Waters Research Symposium with the underwater noise group of the Hellenic Hydrocarbon Resources Management	A	HCMR: To discuss options for sharing noise and other data types with HCMR and EMODnet Ingestion

26-30 Sep 2022	Brest	Conference	O	Shom: SeaTechWeek 2022. Shom workshop to be organized during the conference.
03-05 Oct 2022	Milazzo, Italy	workshop	O	ETT+SMHI: Organising session: https://www.metrosea.org/special-sessions
Sep – Dec 2022	Deltares, Delft, Netherlands / Online	Workshops, webinar and/or symposia	O	Deltares: During the Deltares Software Days (DSD), attended by different stakeholders from Europe and beyond, it is planned to further promote the activities of EMODnet Ingestion.
Oct 2022	Reykjavík, Iceland	Aquaculture Conference Iceland – Aqua Ice	A	FMRI: Introduction of EMODnet Ingestion with a poster
Oct/Nov 2022	Constanta, Romania	Meeting	O	NIMRD: Meeting with DOORS project coordination team: To decide if the data obtained during the project by Romanian partners will be submitted to the EMODNet Ingestion
Nov 2022	Reykjavík, Iceland	The Seafood Conference Iceland	A	FMRI: Introduction of EMODnet Ingestion with a flyers
6-8 Dec 2022	Monaco	Conference	A	Shom: HYDRO22 Conference – organized by IFHS (International Federation of Hydrographic Societies)
2022-2023	The Netherlands/Online	Meeting	A	Deltares: Regular meetings with the Directorate-General for Public Works and Water Management (Rijkswaterstaat) which is part of the Ministry of Infrastructure and Water Management of the Netherlands are planned. These meetings are intended to discuss making data available.
TBD	TBD	Workshop on data	O	Deltares: A workshop will be organised together with representatives of stakeholders and EMODnet Ingestion

		management for offshore license related data collection in EU member states		members to present and discuss the findings on current practices and approaches in different Member State countries. This will help to refine the understanding of EMODnet Ingestion and stakeholders about data acquisition and management in the framework of governmental license procedures in their countries. This should drive a discussion whether a more harmonised approach between and possibly also within Member States might be desirable and feasible. This could lay the basis for support from stakeholders for initiating development of a roadmap for a more harmonised approach.
TBD	Online/La Spezia, Italy	Internal meetings with the DLTM working team for the LabMare initiative	A	ENEA is confident that the time series that is going to be collected as part of LabMare initiative this year will be shared too.
TBD	Online	Internal meetings with the working team of the MedFever project	A	ENEA is confident that the time series that is going to be collected as part of MedFever project this year will be shared too.
TBD	Online	Online meetings	O	ENEA: Contacts with a team of a racing boat that is going to collect oceanographic data.
TBD	Online	Online meetings	O	ENEA: Contacts with colleagues involved in the Blue Lakes project that collected microplastics data in the main Italian lakes.

5. Communication assets

A. Communication products developed				
Date	Communication material	Short description (of the material, title, ...) of the asset	Main results	Name of event at which material was disseminated (if applicable)
17 Jun 2021	ResearchGate publication	Challenges to convince data providers to share data for EMODNET ingestion portal DOI: 10.13140/RG.2.2.26262.47683	Promotion of EMODnet Ingestion to ResearchGate users	Abstract + poster in PDF
Oct21	Use case	Case 10. Marine litter data fit for reporting to EU marine strategies		Promotion on 28/12 on EMODnet Chemistry website
Oct21	Use case	Case 11. 137Caesium activity contents in seabed sediments in the Baltic Sea		
4 Oct 2022	LinkedIn post	WAKE UP YOUR MARINE DATA!	Promotion of 1 st video and Ingestion portal	Account Marianne Schlessler Impressions: 448 Reactions: 12 Shares : 3
04 Oct 2021	Twitter post	More than ever: YOUR DATA, WORK IT ! at #EMODnet http://Ingestion.EU →Have a look at the new video clip presenting some of our success stories	Promotion of the 2 nd video on Ingestion use cases	Account @MarianneBMDC Impressions: 232 Engagement: 18 Likes: 5 Retweet: 2
5 Oct 2022	Twitter post	#EMODnet keeps your data future proof #BlueEconomy Get inspired by stories of (sleeping) #marine_data openly shared for safekeeping, further distribution & analysis Discover our collaborations with companies, governments, research institutes & NGO's https://bit.ly/3uBu74Q	Promotion of the collection of 9 success stories	Account @MarianneBMDC Impressions: 77 Engagement: 15 Likes: 3
6 Oct 2022	Twitter post	YOUR DATA, WORK IT ! https://youtube.com/watch?v=EEjoSgFBOOA Wake up your marine data at https://emodnet-ingestion.eu	Promotion of the animation movie on Ingestion use cases	Account @MarianneBMDC Impressions: 301 Engagement: 29 Likes: 6 Retweet: 1
11 Oct 2021	Twitter post	A perspective for national navies Case 4: Fourteen years of CTD, turbidity and chlorophyll #data collected during 880 missions across Europe for port protection & mine hunting operations were shared by #TheBelgianNavy and	Promotion use case 4	Account @MarianneBMDC Impressions: 840 Engagement: 54

		published to the #EMODnet Ingestion portal by #RBINS		Likes: 11 Retweet: 1 Details: 20
11 Oct 2021	Twitter post	Can you catch HQ data for the #Sustainable #BlueEconomy while fishing? Have a look at this: Case 3: By integrating sensors with nets, #BerringDataCollective is collecting data from 78 vessels & sharing them near-real time with #EMODnet for ocean forecasting & CC monitoring	Promotion use case 3	Account @MarianneBMDC Impressions: 546 Engagement: 12 Likes: 3 Retweet: 1
11 Oct 2021	Twitter post	Series of 15 successes at http://EMODnet-Ingestion.EU Case 2: The EC Joint Research Center & #EMODnet #Human_Activities have brought the algae production business on the map #COGEA Alessandro Pittito @EU_MARE #Sustainable #Blue #BioEconomy #OceanDecade https://youtube.com/watch?v=EEjoSgFBOOA	Promotion use case 2	Account @MarianneBMDC Impressions: 184 Engagement: 7 Likes: 2
11 Oct 2021	Twitter post	EMODnet-Ingestion.EU is delighted to present a series of 15 successes Case1: Marine Scotland Science is a champion in the provision of numerous datasets to #EMODnet, with support of the @BODC acting as Data Ambassador  https://youtube.com/watch?v=EEjoSgFBOOA #BlueEconomy #OceanDecade	Promotion MSC use case 1	Account @MarianneBMDC Impressions: 848 Engagement: 23 Likes: 6 Retweet: 3
14 Oct 2021	Twitter post	Case 9 : Raising awareness of #OpenData & access to existing data convinced the ESGEMAR company to become an Associated Partner making use of & contributing #MarineData to #EMODnet #Bathymetry →win-win @CSIC #BlueEconomy http://esgemar.com/index.php	Promotion use case 9	Account @MarianneBMDC Impressions: 184 Engagement: 5 Likes: 2 Retweet: 1
14 Oct 2021	Twitter post	Would you consider using #EMODnet #MarineData for assessments that require cross-border observations? Success Case 8: Dutch long term #macrobenthos monitoring data 1991-2015 were published to @EMODnet #Biology after harmonization + matching of the taxonomic names to @WoRMS	Promotion use case 8	Account @MarianneBMDC Impressions: 399 Engagement: 14 Likes: 8 Retweet: 2
14 Oct 2021	Twitter post	The Poti Laboratory Research Centre Ltd is sharing its #marine #monitoring #data with #EMODnet #Chemistry Case 7: Stages of a long-term collaboration with a data provider in Georgia Check the ingredient of this Data Ingestion success @wocean3	Promotion use case 7	Account @MarianneBMDC Impressions: 266 Engagement: 19 Likes: 6 Retweet: 2

14 Oct 2021	Twitter post	Time invested in #OpenData sharing is outweighed by the use of #EMODnet 's products & services. Case 6: #microplastics in sediments fit for reporting to the #MarineStrategy Discover how #marinelitter #data submitted to EMODnet #Chemistry can work for Aarhus University	Promotion use case 6	Account @MarianneBMDC Impressions: 368 Engagement: 11 Likes: 3 Retweet: 2
14 Oct 2021	Twitter post	When data providers become data users, and even #EMODnet Associated Partners => http://CORESbg.EU win-win solutions Case 5: The Black Sea - Danube Coastal Association shared coastal #bathymetry #data of the fishing port of Varna with the support of IO-BAS (Bulgaria)	Promotion use case 5	Account @MarianneBMDC Impressions: 101 Engagement: 7 Likes: 1 Details: 3
15 Oct 2021	LINKEDIN post	#EMODnet keeps your data future proof #BlueEconomy. Get inspired by stories of (sleeping) #marine_data openly shared for safekeeping, further distribution & analysis. - Watch this 2 min #video on three of our success stories https://lnkd.in/d6K85Q58 - Find out more about our collaborations with companies, governments, research institutes and NGOs through this collection of cases: https://lnkd.in/dfadY92X - Join us at EMODnet-Ingestion.EU - Browse through our available data at emodnet.ec.europa.eu #OceanDecade #EMODnet #SeaDataNet #marine #data #research #future #innovation		Account Marianne Schlesser Impressions: 526 Reactions: 15 Shares : 6
19 Oct /2021	Twitter post	When data publishing to @EMODnet #Ingestion leads to a joint publication Aarno Kotilainen & STUK (Finland) Case 1: ¹³⁷ Caesium peak in the sedimentary records of the Baltic Sea is used to define recent rates of sedimentation in #EMODnet #Geology	Promotion use case 11	Account @MarianneBMDC Impressions: 204 Engagement: 14 Likes: 2 Retweet: 1
22 Oct 2021	Twitter post	#MarineLitter data from 8 research surveys, monitoring & cleaning initiatives of NGO's are accessible via #EMODnet #Chemistry EELTBGROSIHTRCY Case 11: Marine litter #data shared with @EMODnet #Ingestion and fit for #MSFD reporting @OGS @TalTech @lheilv @tudavtudav	Promotion use case 10	Account @MarianneBMDC Impressions: 1780 Engagement: 79 Likes: 18 Retweet: 8
22 Oct 2021	Twitter post	#MarineLitter data from 8 research surveys, monitoring & cleaning initiatives of NGO's are accessible via #EMODnet #Chemistry EELTBGROSIHTRCY Case 11: Marine litter #data shared with @EMODnet #Ingestion and fit for #MSFD reporting @OGS @TalTech @lheilv @tudavtudav	Promotion use case 10	Account @MarianneBMDC Impressions: 1780 Engagement: 79 Likes: 18 Retweet: 8

28 Dec 2021	Web page EMODnet Chemistry + twitter	EMODnet Chemistry Marine litter: a new successful story for EMODnet Ingestion	Promotion of DIP to EMODnet Chemistry users	Chiara Altobelli
28 Apr 2022	LinkedIn Post	Easter bells brought us #EMODnet Data Ingestion III project.	Promotion DIP III project start	Account Marianne Schlessner Impressions: 315 Reactions: 5
28 Apr 2022	Twitter Post	Easter bells brought us #EMODnet Data Ingestion III project. This confirms the unwavering support of the team work of 43 organizations for streamlining the #MarineData ingestion process and release them for subsequent distribution as #OpenData https://tinyurl.com/2p934d7p	Promotion DIP III project start	Account @MarianneBMDC Impressions: 603 Engagement: 19 Likes: 9 Retweet: 4
28 Apr 2022	Web page	Announcement of the objectives of DIP3 project as a science news on RBINS intranet	Internal RBINS promotion	
29 Apr 2022	Web page	News on the EMODnet website and in the NewsDigest on the start of DIP3	Promotion DIP III project start	
13 May 2022	Twitter Post	See how easy it is to share your data with @EMODnet #Ingestion https://youtube.com/watch?v=p3vwngxyXuo Want to become our next success story? → https://youtube.com/watch?v=EEJoSgFBOOA #EMODnet #MakeEUBlue #UNOceanDecade	Quote from Sissy Iona + promotion of the two animation movies	Account @MarianneBMDC Impressions: 318 Engagement: 10 Likes: 3 Retweet: 2
1 Jun 2022	Web page on CSIC website	Also, the EMODnet ingestion -3 has been updated in the Organisation website. The link is: https://www.icm.csic.es/ca/emodnet	Promotion DIP3 to CSIC network	
16 Jun 2022	Twitter post	Our colleagues @MarianneBMDC & @rubenperper presenting the contributions & future plans of @RBINSmuseum & @VLIZnews to @EMODnet #Ingestion during the Phase 3 kickoff meeting #today #WakeUpYourData #FAIRdata #OpenScience #MarineScience		@EurOBIS Followers : 793 Impressions: 364 Engagements: 38 Details: 5 Likes: 13 Retweets: 6
16 Jun 2022	Twitter post	Today and tomorrow @EMODnet #Ingestion kicks off the third phase of the project. About 40 partners and #MarineData ambassadors are welcomed by @HcmrInOcean in Glyfada, another 15 are participating remotely @IFREMER @SeaDataNet @EuroBIS @METU_IMS @GHER @VLIZnews @bodc colleagues!	Information on DIP3 start	Account @MarianneBMDC Impressions: 820 Engagement: 95 Likes: 22 Retweet: 7 Details: 16
16 Jun 2022	Twitter post	Group pictures (remote and on-site!) of the @EMODnet Data Ingestion 3 kickoff meeting, organised by our @HcmrInOcean colleagues! @SeaDataNet @bodc @MarianneBMDC @Ifremer_fr @VLIZnews @METU_IMS		@GHER_ULiege Followers: 658 Impressions: 1,276 Engagements: 84

				Detail expands: 19 Profile visits: 4
17 Jun 2022	Twitter post	We are all set for a second day of hybrid @EMODnet #Ingestion kick-off meeting and presentation of national progress report of partners on local marketing activities & potential #marine #dataset mobilisation in this third phase of the project	Information on DIP3 start	Account @MarianneBMDC Impressions: 158 Engagement: 95 Likes: 5 Retweet: 2 Details: 7
29 Jun 2022	EMODnet News	Setting sail for EMODnet Data Ingestion III	Information on DIP3 to the EMODnet network	Taken up in the NewsDigest disseminated by mail on 5/7/22
29 Jun 2022	LinkedIn post	All sails set for #EMODnet Data #Ingestion III project Get a flavor of the kick-off meeting we had last week in Athens with #MarineData ambassadors from 43 institutions in 26 countries, led by Dick M.A. Schaap (MARIS) & Sissy Iona (HCMR). https://lnkd.in/ea5teCPC	Information on DIP3 start	Account Marianne Schlessler Followers 967 Impressions 356 Likes 3
29 Jun 2022	Web page	https://www.emodnet-ingestion.eu/promotion/news/all-sails-set-for-emodnet-data-ingestion-iii/38	News for the Ingestion network	
29 Jun 2022	Twitter post	All sails set for @EMODnet Data #Ingestion III project with #MarineData ambassadors from 43 institutions in 26 countries, led by MARIS & @HcmrInOcean 👉 Get a flavour of the kick-off meeting https://tinyurl.com/52txdtz8	Promotion of article on the Ingestion portal	Account @MarianneBMDC Impressions: 449 Engagement: 56 Likes:11 Retweet: 4 Details: 8
Jun 2022		Promotion material sent by RBINS to IHPT for two events		
Jun 2022	Booklet	Collection of the first 10 use cases published in the form of an A5 booklet	Visibility of Ingestion use cases	Two conferences in Portugal + DIP3 kickoff meeting
		#followers @MarianneBMDC 178	#Tweets 20	

B. Planned communication products

Date	Communication material	Short description (of the material, title, ...) and/or link to the asset	Main results expected
Oct. 22	Use case #12	Offshore wind parks ecological monitoring data - Biology (Fish and Benthos monitoring)	
Oct. 22	Use case #13	Swedish marine beach litter data and data from the Baltic marine litter project MARLIN	
Oct. 22	Use case #14	Learning by doing: How starting with the ingestion of a small dataset can lead to promising collaborations	BODC (UK) & European Marine Energy Center (EMEC)

Oct. 22	Use case #15	Can the EMODnet network deal with raw data? (with VLIZ)	
Start Dec.22	Videos	Feed a YT playlist for Ingestions videos + invite colleagues to present their case studies in a series of selfrecorded presentations with Zoom. A good briefing will be prepared.	
Jan 23	Leaflet A4 R/V	Update leafletA4 R/V with two new use cases in support of the objectives of WP4.2 and 4.3 (Off-shore licensing data)	
2023	ResearchGate	Publication of EMODnet Ingestion posters	Visibility of the project in Science SocialMedia (several EMODnet publications available)
2023	Academia.edu	Publication of EMODnet Ingestion posters	Visibility of the project in Science SocialMedia (several EMODnet publications available)

A. (Co-)Authored peer-reviewed publications in the quarter					
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access ? Yes/No
6 Dec 2021	Collective positionin g paper	Cappelletto M., Santoleri R., Evangelista L., ..., A. Giorgetti,..., M. Fichaut, ..., Simoncelli S. et al. (2021). The Mediterranean Sea we want. Ocean Coast. Res. 69 (suppl 1)		http://dx.doi.org/10.1590/2675-2824069.21019mc	Yes
11 Oct 2021	book chapter	S. Simoncelli, G.M.R. Manzella, A. Storto, A. Pisano, M. Lipizer, A. Barth, V. Myroshnychenko, T. Boyer, C. Troupin, C. Coatanoan, A. Pititto, R. Schlitzer, D.M.A. Schaap, S. Diggs (2022) "A collaborative framework among data producers, managers, and users". Book Chapter in "Ocean Science Data". Ed. Manzella, G.M.R. and Novellino A., Elsevier.	978-0-12-823427-3	http://dx.doi.org/10.1016/B978-0-12-823427-3.00001-3	no
2022	Paper	D.DEMETRASHVILI,K.BILASHVILI,N.MACHITADZE,N.TSINTSADZE,V.GVAKHARIA N.GELASHVILI, V.TRAPAI DZE, I.KUZANOVA "NUMERICAL MODELING OF MARINE LITTER DISTRIBUTION IN GEORGIAN COASTAL WATERS OF THE BLACK SEA, Journal of Environmental Protection and Ecology, Vol. 23, No 2 (2022), p.p. 531-542.	ISSN 1311-5065		No

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

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

6. Monitoring indicators

Comments on the progress indicators in the indicators spreadsheet		
Progress indicator	Means of collecting figures	Comment
1A) Volume and coverage of available data	Submission Viewing service	The total number of new phase 1 + phase 2 submissions in the current quarter is 74 and of this 39 were elaborated to phase 2. The overall number of published submissions went from 999 to 1073.
1B) Usage of data in this quarter	Cloud storage of Submission Viewing service	The total number of download transactions and volume increased compared to the previous quarter. However, the volume of downloads is quite exceptional high this quarter with circa 190 GB from circa 300 downloads.
3) Organisations supplying/ approached to supply data and data products	Submission Viewing service	There is a good mix in organisation types and countries. The total number of data providers has increased with 20 in the last quarter to 184.
9. Visibility & Analytics for web pages	Grafana	The grafana application has not been updated for the last quarter. Therefore, there is an action in JIRA for Trust-IT to look into this.
10. Visibility & Analytics for web sections	Grafana	The grafana application shows the visit stats of several sections, namely Guidelines, Viewer and Operational data. The monitoring of the Submission service is still missing. The Viewer gets most visits.
11. Average visit duration for web pages	Grafana	The grafana application shows the visit durations for several sections. The last quarter is missing.

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.]