



EMODnet



European Marine
Observation and
Data Network

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 (48 months)

Operational Phase

Quarterly Progress Report 15

Reporting Period: 01/10/2025 – 31/12/2025



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1. Highlights in this quarter

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

The Data Submission Service continues to successfully operate in production. The service is accessed exclusively via the Central Portal, while the machine-to-machine (M2M) communication and data-exchange mechanisms are also operational. Service operation is continuously monitored and overseen by system administrators. In this context, a bug in the API—affecting status changes following a Data Submitter’s amendment request—was successfully fixed and deployed.

Updated help guides for Data Submitters and Data Centres are now available on the Central Portal’s Data Submission Service page (<https://emodnet.ec.europa.eu/en/data-ingestion#data-submission-service>). These guides provide step-by-step instructions for the new authentication mechanism, including EU Login account creation and linking to former MarineID accounts.

The Helpdesk Service has remained actively engaged, providing ongoing support—albeit with fewer cases—to returning Data Submitters as they create EU Login (ECAS) accounts and link them to their existing identifiers (MarineID), ensuring a smooth transition and uninterrupted user experience.

Task 2: Implement pathways for delivering data to final repositories

The total number of received submissions increased from 1998 to 2045, while the number of processed and published data submissions increased from 1772 to 1826, and of which, the number of fully elaborated data submissions went from 803 to 846 data. The KPI excel sheet provides more details. The Viewing Service is synced every time with the Products Catalogue service at the EMODnet Portal. This implicates that all 1826 submissions at the end of Q4 2025 were also present in the EMODnet Products Catalogue.

Task 3: Facilitate machine-to-machine transfers

A key milestone of the period was the joint Ingestion–Physics–Chemistry meeting held in Brussels, during the EMODnet Jamboree. The event, attended by more than 60 participants, provided an opportunity not only to discuss and review the progress achieved, but also to hold an open and constructive exchange between EMODnet partners and colleagues from the AMRIT project on the metadata model to be used by operational oceanographic networks for improving the data exchange. This discussion helped to clarify requirements, identify common challenges, and explore possible alignments, laying the groundwork for future harmonization and collaboration as part of EuroGOOS and with the AMRIT project.

Concerning newly ingested data sources, during the reporting period the team expanded the datasets available across all interfaces and services supporting the EMODnet Ingestion operational data flow management. The ingestion ERDDAP service (<https://ingestion-erddap.emodnet-physics.eu/erddap>), which provides users with an easy and unified way to access the latest ingested real-time (RT) collections, reached a total of 2,722 datasets.

New operational platform delivering data to EMODnet Physics since 1/10/2025:

	#platforms	ins tac	as is	days of rec
ArgoBGC	67	0	67	3992
Argo/Profiler	215	0	215	13810
DriftingBuoys	238	171	67	24314
Ferrybox/Ship	1	0	1	323

FishingVessels	450	0	450	695
Gliders	40	2	38	1239
HFRadarRadial	5	0	5	5
MiniLogger	117	117	0	4844
Mooring	56	46	10	3606
RiverStation	20	0	20	2383
SeaMammals	21	21	0	769
Thermosalinographers	271	271	0	6872
TideGauge	35	4	31	1909
VoluntaryObservingShips	16	0	16	16

Table 1. new data sets added to EMODnet Physics

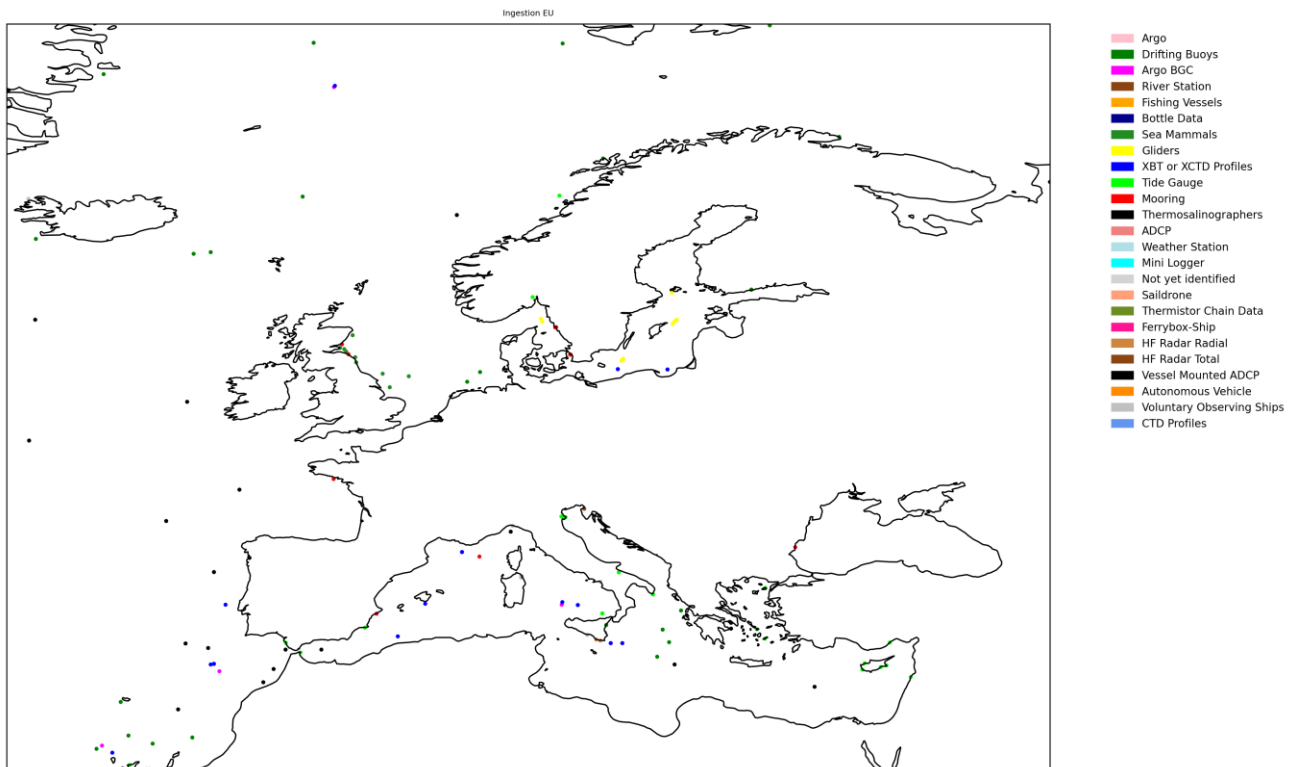


Figure 1a: new operational data sets added to EMODnet Physics Db for European waters

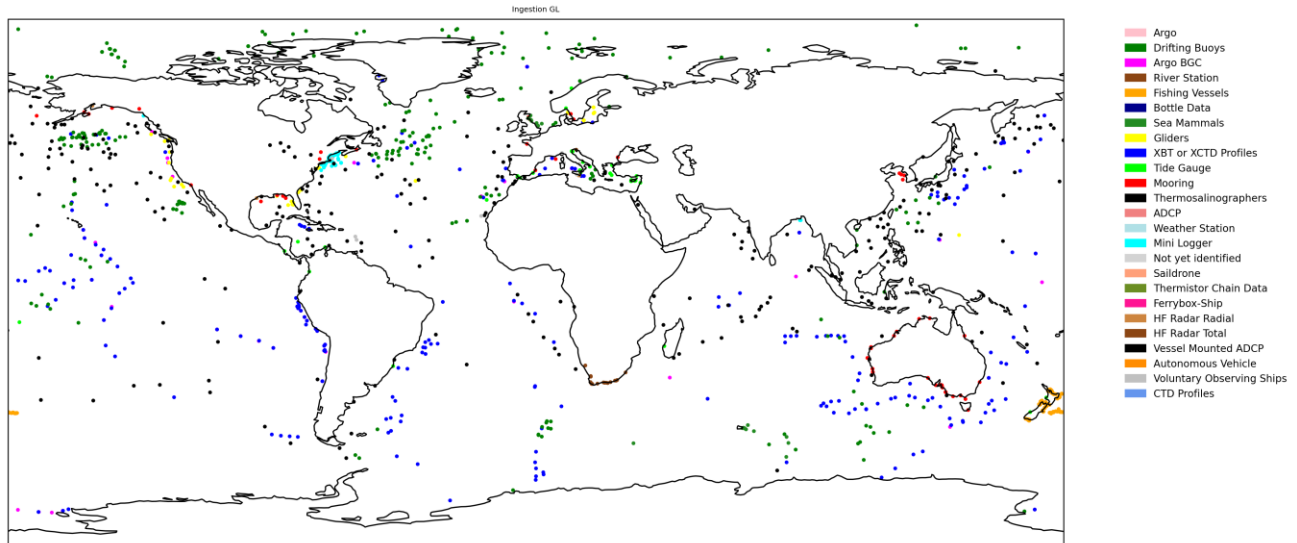


Figure 1b: new operational data sets added to EMODnet Physics DB globally

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

Since the migration, use is now made of forms, which users can complete on the EMODnet Portal. These are registered in JIRA tickets and are assigned to Thematics / Ingestion by the EMODnet Secretariat. Responses will then also be given through JIRA tickets. In the reporting period 5 JIRA helpdesk requests (EMODNET-2143, 2155, 2140, 2016, and 2227) were received and these have been completed. In addition, two EMODCOM tickets were processed (EMODCOM-240 “uploading of 2 ingestion manuals’ and EMODCOM “Creating and providing EDMO codes for EMODnet (associate) partners that had no EDMO code yet. This was a co-production with the EMODnet secretariat”.

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

All coordinators of EMODnet Thematic projects are partners in EMODnet Ingestion which guarantees a mutual tuning with EMODnet Ingestion. Moreover, EMODnet Ingestion coordinators are involved in the communication of the EMODnet Steering Committee and Technical Working Group.

Task 7: Maintain a summary record of data delivered

This function is offered by the EMODnet Products Catalogue service. Each completed submission is harvested by the GeoNetwork service and then published. Before submitting new completed submissions for harvesting, editing activities take place aimed at replacing so-called orphan data for organizations 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 8: Engage in outreach activities towards significant holders of marine data whose data are not yet available.

The central document compiling all outreach activities and events conducted by partners to promote the project continues to be regularly updated with input directly from contributors. A comprehensive overview

will be included in the final project report. The current version of the document is available here: [EMODnet-Ingestion3 2024-2026-Outreach InputFINALreport - Google Docs](#).

During the reporting period, EMODnet Ingestion partners actively engaged in a broad range of international and national meetings, conferences, workshops, and educational events, targeting potential data providers from academia, industry, public authorities, and the student community.

EMODnet Ingestion was represented at 14 events, several of which included formal presentations (>10), posters, and dedicated sessions on EMODnet services, and data ingestion processes. These events included the IRISCC Annual Meeting in Marseille, the COSPAR Conference in Nicosia, the CMA Black Sea Stakeholders Conference in Constanta, the EMODnet Geology phase 6 kick-off meeting, and multiple EMODnet-organised events in Brussels, particularly the EMODnet Partnership Jamboree, the EMODnet Open Conference, and the Digital Ocean Forum. The Brussels-based events in November provided a strong platform for outreach, with several partners delivering presentations and engaging directly with stakeholders

Targeted stakeholder engagement was also carried out through thematic workshops and meetings, such as the “Taken at the Flood” workshop in London, the MEDIN Open Meeting in Exeter focusing on metadata delivery and data management challenges, the JTF-VISIO meeting in Oulu and a focus group meeting at the University of Liège. These activities specifically addressed emerging marine data types and engaged communities not traditionally connected to established data repositories.

Regarding education and capacity building the University of Malta organised a week-long student bootcamp in Gozo, during which Master’s students were trained in field-based oceanographic measurements and the use of existing marine data repositories, with a strong emphasis on EMODnet, while EMODnet Geology and EMODnet Ingestion were advertised during lecture at the University of Helsinki.

Several communication products were produced and disseminated during the period. These included social media posts sharing EMODnet newsletters via Facebook and LinkedIn, as well as the production of updated promotional materials (stickers, postcards, and foldable poster) that were widely distributed in Brussels meeting in November.

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

During this period, Deltares continued to advance the development of the Roadmap for the Harmonization of Data Management within Offshore Licensing Procedures, building on insights gained from the pilot case interviews.

Project Partner Workshop

On November 2024 a partner workshop was conducted during the EMODnet Jamboree at a combined meeting with Physics and Chemistry. The workshop was well attended with over 60 participants. During this event Deltares presented the steps of the draft roadmap and shared the results of the pilot case interviews. Afterwards, participants were asked to provide feedback, best practices and tips based on the identified challenges which arose from the interviews. The input and best practices gathered varied from tips for harmonisation, relevant EU projects, and relevant tools. This input will be incorporated in the next version of the roadmap.

Pilot Case Workshop

As a next step, a workshop on Harmonizing Data Management in Offshore Licensing will be hosted for national policy makers and other relevant stakeholders. This workshop will take place online on 20 January 2026. The objective of this workshop is to present and discuss the draft roadmap with relevant representatives at both national and EU levels.

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. The Q13 report has been prepared and submitted which was accepted by the EU.

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, M25	D0.1-a,b,c,d, e,f Delivered	M4, M7, M10, M13, M16, M19, M22	
D0.2: Interim report	0.1	M12	Delivered and accepted	M14	
D0.3: Final report	0.1	M24	To do		
D0.4: Transition and hand over protocol	0.1	M24	To do		
<i>D0.5i: Consortium Agreement and subcontracts</i>	0.1	M1	Subcontracts done		
<i>D0.6i: Short minutes - action lists of internal coordination meetings</i>	0.1	Regularly			
D1.1: Migrated Ingestion site maintained at Central Portal	1.1	M6 – M24	Delivered: new site opened and operational	M14 and further	
D1.2: Users migrated from Marine-ID to ECAS (EU Login)	1.2	M6	Delivered: arranged for consortium members; for users it will be part of the operations	M14 and further	
D1.3: Migrated Data Submission Service operational	1.3	M6 – M24	Delivered	M14 and further	
D1.4: Data tracking service operational	1.3	M1 – M24	Delivered	Operational since M0	
D1.5: Migrated View Submissions service operational	1.4	M1 – M24	Delivered	Operational since M0	

D2.1: Pathways operational	2.1	M1 – M24	Delivered	Operational since M0	
D2.2: Many submissions processed and published at phase 1 and 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, tools, and procedure for NRT and RT data published	3.1	M12, M24	Delivered: integrated in Interim Report	M14	
D3.2: Connections with new NRT and RT monitoring stations operational	3.1	M12, M24	Underway		
D3.3: Upgraded Viewing service for NRT and RT stations operational	3.2	M6 – M24	Done	M4 and further	
D4.1: Inventory of data providers and use cases engaged in EMODnet Ingestion	4.1	M12, M24	Delivered: integrated in Interim Report	M14	
D4.2: Updated promotion material	4.3	M12, M24	First set delivered: integrated in Interim Report	M13	
D4.3: Pilot cases selected for interviews about licensing data	4.2	M9	Delivered	M12	
D4.4: Interviews done with selected pilot case stakeholders	4.2	M16	Delivered	M15	
D4.5: Pilot case Workshop hosted	4.2	M22	To do		
D4.6: Final Webinar hosted	4.2	M23	To do		
D4.7: Roadmap for harmonisation of Data	4.2	M24	To do		

Management within Offshore Licensing Procedures					
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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
EM-1189 Query to Product Catalogue does not provide full answer	Pending	Action required by CP Team	October 2025	

3. Communication assets

[In Table A, list peer reviewed publications directly (co-)authored by consortium and project partners in the reporting period. In Table B, list all non-peer reviewed publications (co-)authored. In all cases, indicate the type of publication, provide the full reference incl. title, volume and issue etc., and whether the publication is open or closed access.]

A. (Co-)Authored peer-reviewed publications in the quarter					
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access? Yes/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 comprehensive overview of publications referring to/making use of EMODnet data and/or data products, please consult Google Scholar.

4. Monitoring indicators

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

Comments on the progress indicators in the indicators spreadsheet		
Progress indicator	Means of collecting figures	Comment
1. Current status and coverage of total available thematic data A) Volume and coverage of available data	Submission Viewing service	The total number of new phase 1 + phase 2 submissions in the current quarter is 54 and of this 43 were elaborated to phase 2. The overall number of published submissions went from 1772 to 1826.
What is your opinion on the data coverage within EMODnet for your thematic?		Overall, EMODnet Ingestion brings together an excellent data collection, covering data from all over the world and many disciplines, compiled by many data providers from academic/research, government, industry, and NGOs.
B) Usage of data in this quarter	Cloud storage of Submission Viewing service	The total number of download transactions is circa 24% lower with 1005 downloaded data files than in the previous quarter.
3. Internal and external organisations supplying/approached to supply data and data products within this quarter	Submission Viewing service	54 new data submissions were received and published from 23 organisations, mostly academic and research.
10. Visibility & Analytics for web pages	Matomo / grafana	EMODnet Ingestion has migrated to the EMODnet portal per end of April 2025. After that the grafana stats have halted.
11. Visibility & Analytics for web sections	Matomo / grafana	EMODnet Ingestion has migrated to the EMODnet portal per end of April 2025. After that the grafana stats have halted.
12. Average visit duration for web pages	Matomo /grafana	EMODnet Ingestion has migrated to the EMODnet portal per end of April 2025. After that the grafana stats have halted.
5.1 Daily number of page views of EMODnet Thematic entry page	Europa Analytics	The Ingestion website has been migrated in April 2025 to the EMODnet Portal. Initially, it reaches circa 80 visitors per day, but later it stabilizes to circa 20 visitors per day which is continued in the current quarter.

Comments on the progress indicators in the indicators spreadsheet

Progress indicator	Means of collecting figures	Comment
5.2 Quarterly total number of visitors, page views, unique page views and percentage of returning visitors	Europa Analytics	EMODnet Ingestion has been migrated in April 2025 and reached in the first months higher numbers than in the last quarter.

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

5. Annex: Other documentation attached

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