



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 14

Reporting Period: 01/07/2025 – 30/09/2025



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1. Highlights in this quarter

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

Migration to EMODnet Portal

The Data Submission Service has successfully transitioned into full production phase. Access to the Service is now exclusively provided via the EMODnet Portal, while the machine-to-machine (M2M) communication and data exchange mechanisms have also been fully deployed and are operational.

A series of targeted interventions to the notification subsystem have been implemented to resolve issues related to non-generated email notifications under specific form statuses.

The helpdesk service has remained actively engaged, providing continuous support to returning Data Submitters in the process of creating ECAS accounts and linking them with their existing identifiers (MarineID), ensuring a smooth transition and uninterrupted user experience.

Regarding MEDIN integration, previously identified issues—such as data malformations affecting selected records—have been successfully resolved. The mapping and ingestion workflows have been thoroughly tested in the production environment. As part of this validation process, four (4) records have been ingested as pilot cases. These records are currently undergoing Data Centre (DC) evaluation and processing. Upon successful validation and approval, the automated data exchange between the two systems will be fully established.

Task 2: Implement pathways for delivering data to final repositories

The total number of received submissions increased from 1929 to 1998, while the number of processed and published data submissions increased from 1745 to 1772, and of which, the number of fully elaborated data submissions went from 786 to 803 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 1772 submissions at the end of Q3 2025 were also present in the EMODnet Products Catalogue. Earlier the Product Catalogue service did not publish the full contents, but the deployment of a new version of GeoNetWork (V4.4) has worked and the Ingestion publications are now fully available, also including active links to supporting Vocabularies and Directories. In addition, all EMODnet lots are requested to contribute to testing the new set-up, and to formulating improved facet search options, where useful and possible. In this framework it was found that a search on EDMO for Ingestion records does not take into account the organisation role = Point of Contact. For that purpose a JIRA ticket (EM-1189) has been submitted, which is pending.

Task 3: Facilitate machine-to-machine transfers

During the period the team worked on both the promotion (proactively attending several events) and on ingesting new data sources, supporting the CP to include the Ingestion activities and layers.

The ingestion of a new operational source is a step-wise process which interconnects data by different machine-to-machine technologies (ERDDAP, FTP file access to web APIs for real-time exchange, Data Access Broker – DAB, etc.), harmonizes the metadata, makes these new sources discoverable into the Central Portal, initiates further data qualification and validation to expand EMODnet thematic data collections.

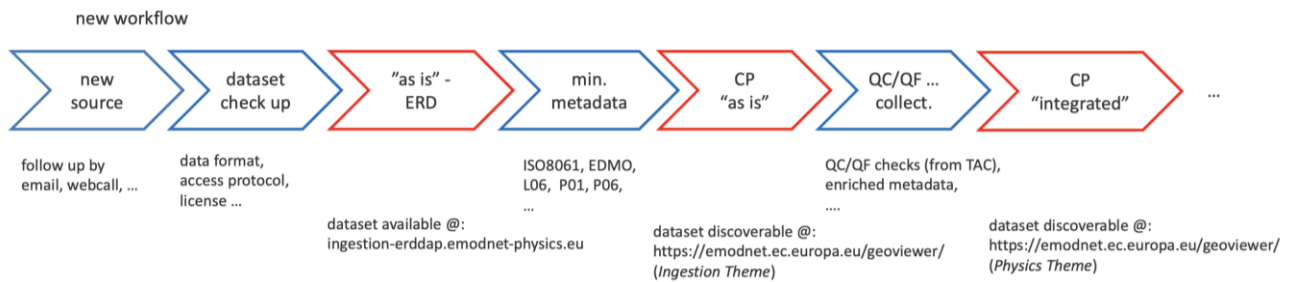


Figure 1. ingestion workflow

The "ingestion-erddap.emodnet-physics.eu/erddap" platform provides users with an easy way to interact with the latest ingested real-time (RT) collections.

Some duplicates were cleaned and some new sources were added. Currently the instance hosts about 2.700 datasets. Among many others, the user can now find data from: OSHEN – Hurricane Monitoring 2025, SWANHELLENIC - citizen science campaign aboard the Swan Hellenic SH Vega – 2024/2025, SCUBA NETWORK - logged dives data along 23 sites (2023 – 2025), BLUE MALTA - OCEANOGRAPHY MALTA RESEARCH GROUP – currents and waves (data since April 2025), RHE-MEDIation project.

Connected sources keeps providing new data on operational base and during the reporting period 2374 new data sets were made available from the connected platforms.

	newly	as is	ins tac
Argo BGC	85	85	
Argo/Profiler	188	188	
CTD Profiles	56289	56289	
Drifting Buoys	298	77	221
Ferrybox/Ship	1	0	1
Fishing Vessels	519	519	
Gliders	93	81	12
HF Radar Radial	16	16	
Mini Logger	124	0	124
Mooring	22	3	19
Saildrone	7	0	7
Sea Mammals	11006	11002	4
Thermosalinographers	323	0	323

Table 1. new data sets added to EMODnet Physics

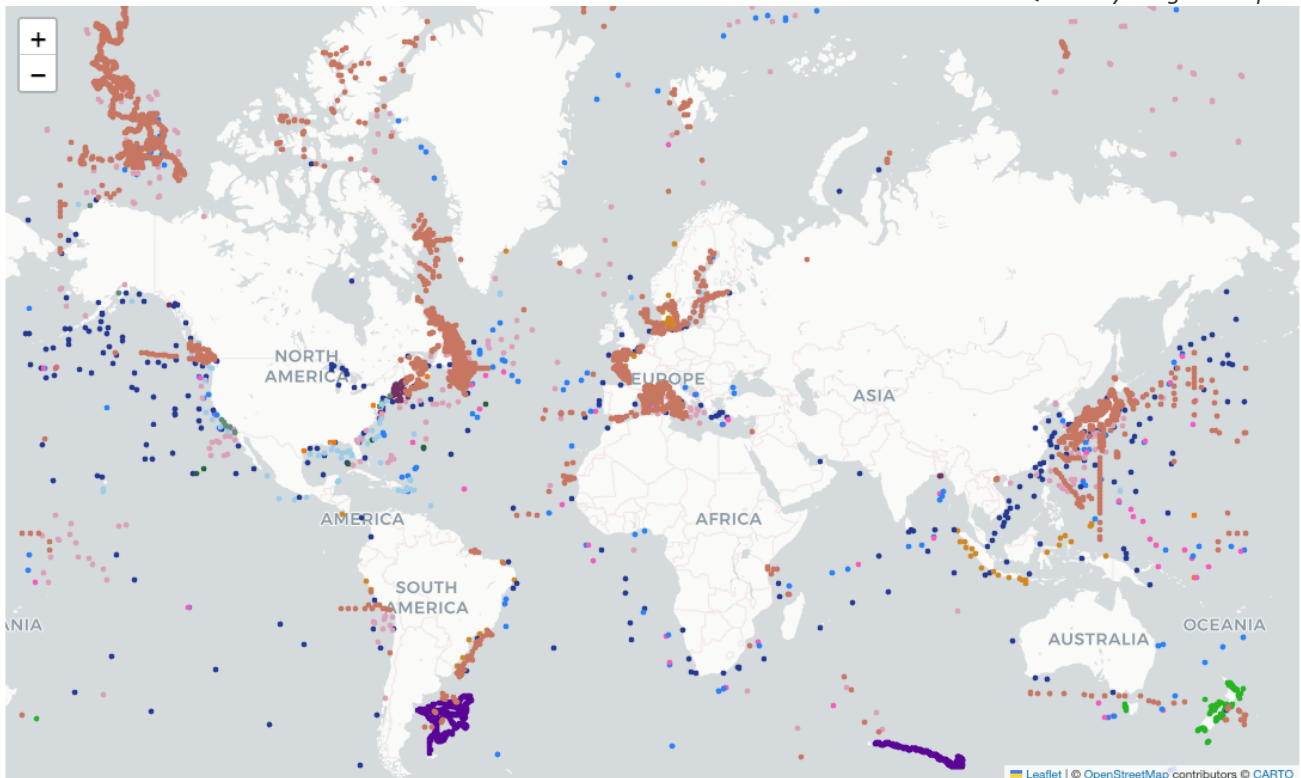


Figure 1: new data sets added to EMODnet Physics

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 6 JIRA helpdesk requests (EMODNET-2066, 2016, 2048, 2074, 2076, and 20783) were received and these have been completed. In addition, several Ingestion partners have been supported for migrating from Marine-ID to ECAS accounts.

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 now 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 interim and final project reports. The current version of the document is available here: [EMODnet-Ingestion3_2024-2026-Outreach_InputFINALreport - Google Docs](#).

During the reporting period, EMODnet Ingestion partners participated in 9 events, including 2 that they organised, giving at least 6 presentations, including oral communications and posters. These activities included a few international events (such as organised by Lifewatch) and several national meetings, and targeted outreach actions such as educational events, internal webinars, and meetings with student organisations and policy stakeholders. It also included contributing to the EMODnet and NGO Workshop which was organised by the EMODnet Secretariat.

Notably, TSU and Batumi State Maritime Academy organised educational events for students on World Oceans Day and during a seasonal school programme, actively promoting EMODnet among youth and educators. UMalta maintained active outreach through participation in public events like *Science in the Citadel*, where EMODnet stickers and posters were showcased. UM also led educational initiatives, such as a joint webinar with Scottish partners on embedding marine data in teaching, and contributed to a local TV programme segment highlighting EMODnet's role as a European marine data repository.

Looking ahead, communication for the next quarter will focus mainly on EU RTD projects, for which work has been initiated to gather the information to write the stories, and to create visual supports to efficiently communicate on new success stories.

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

This quarter, Deltares has 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.

The four pilot cases and corresponding authorities are:

- Estonia – Consumer Protection and Technical Regulatory Authority
- Malta – Department of Fisheries and Aquaculture
- France – Directorate General for Maritime Affairs, Fisheries and Aquaculture
- Netherlands – Rijkswaterstaat and the Marine Information and Data Centre

In addition, relevant background information was gathered through meetings with UK representatives from The Crown Estate and the Marine Management Organisation.

Pilot Case Workshop

The pilot case workshop was originally planned for early October of this year. The objective of this workshop is to present and discuss the draft roadmap with relevant representatives at both national and EU levels. However, due to staff changes in 2 out of 4 pilot cases, the number of participants would have been too low for a meaningful workshop. We are currently updating contact information and engaging new contact persons to raise awareness about the project and its activities. Additionally, we are identifying a suitable new date for this workshop as soon as possible.

Project Partner Workshop

A workshop for project partners is scheduled to introduce and discuss the draft roadmap. This session will allow partners to provide feedback and share insights. It is planned for November 2025 and will take place in-person during the EMODnet Jamboree. In this way we can maximise opportunities to gather input and increase awareness of the roadmap.

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	
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 Management within Offshore Licensing Procedures	4.2	M24	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
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 27 and of this 17 were elaborated to phase 2. The overall number of published submissions went from 1745 to 1772.
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 40% lower with 1327 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	27 new data submissions were received and published from 16 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.]