



EMODnet



European Marine
Observation and
Data Network

EMODnet Ingestion and safe-keeping of marine data n.2

EASME/EMFF/2018/1.3.1.8/01/SI2.810021

Start date of the project: 11/10/2019 - (24 months)

EMODnet Phase IV – Quarterly Progress Report

Reporting Period: 01/04/2021 – 30/06/2021



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1. Highlights in this quarter

Task 1. Maintain and further develop the existing web portal and its services:

The EMODnet Ingestion portal has been maintained in the reporting period, whereby also care is taken that all services keep functioning as required. A new module has been developed (similar to Key Indicators of the Submission service), named "Processing Stats" that will provide access to the processing time required to reach individual statuses. The module is currently in a draft mode and is available under the test service. In addition, a dedicated endpoint has been developed to retrieve the downloadable volumes per submission as requested for the quarterly key indicators.

Task 2. Implement pathways for delivering data to final repositories, on condition that they are made freely available and that open access to the data is ensured:

EMODnet Ingestion 2 has a network of 50 data centres which act as 'assigned data centres' for processing received data submissions. In the reporting period 30 new submissions have been recorded, bringing the total of submissions at 933 at the end of June 2021. For the new submissions, data centres have been assigned. Moreover, HCMR as scientific coordinator has interacted with several data centres, either through email exchanges or webconference meetings, to progress with the processing and publishing process which has resulted in 23 phase I publications and 22 phase II publications. Of the 933 submissions, now 815 have been processed and published as phase 1 (452) and phase 2 (363) records. More details about population can be found in Chapter 6.

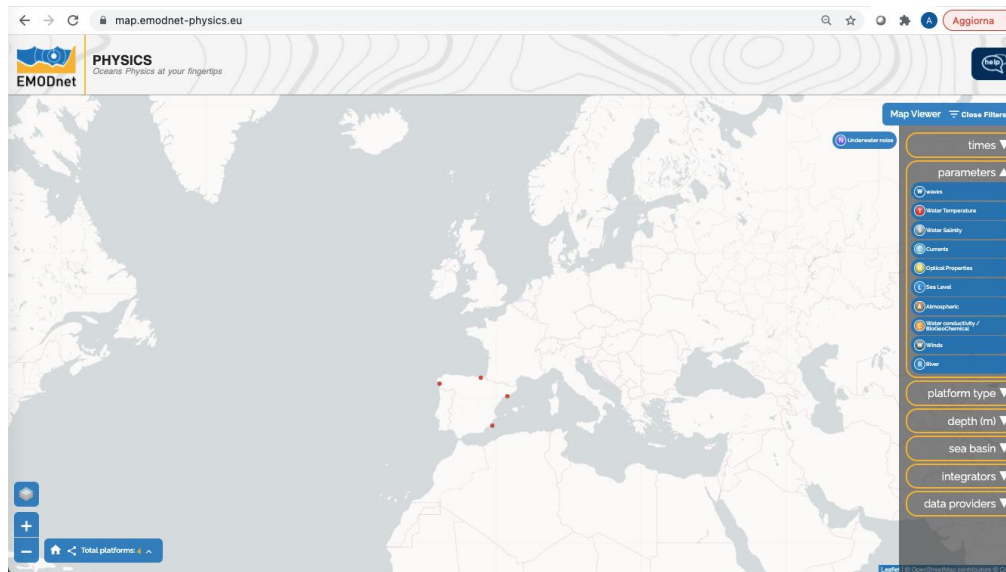
Task 3. Facilitate machine-to-machine transfers:

Progress was made in the cooperation between EMODnet Ingestion and EMODnet Physics towards identifying and convincing more Near Real Time operational oceanography sources (operators, platforms, sensors) to get connected to the European ocean data exchange which is organised together with CMEMS-INSTAC for NRT data and SeaDataNet for archived data. A summary of activities is given:

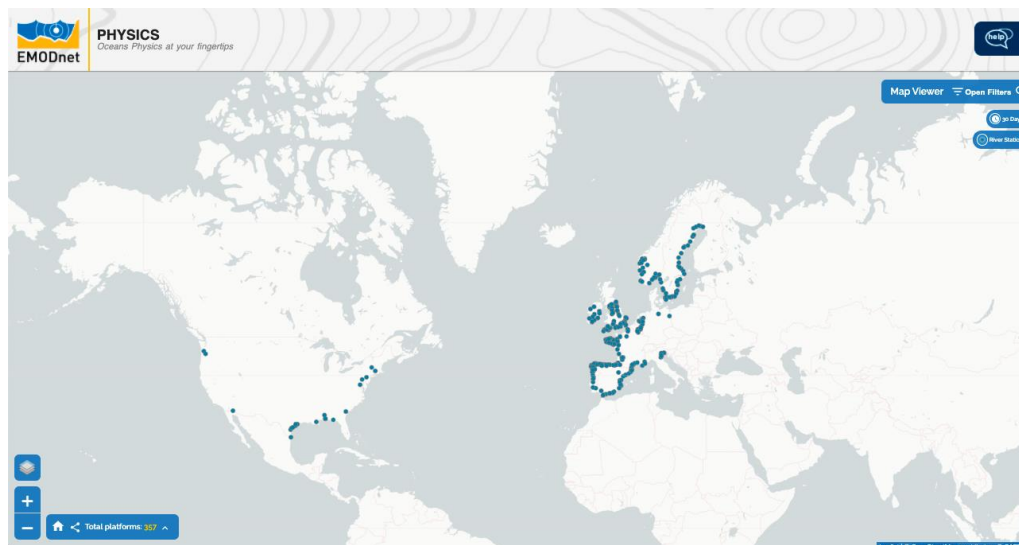
- A possible collaboration between the ARICE project (<https://www.arice.eu/>) and EMODnet Ingestion - Physics projects was officially presented and positively discussed with the ARICE board. As follow-up, there is analysis and mapping ongoing of the available data and defining of the M2M channel to harvest ARICE metadata (first step) and data (second step); importantly the ARICE consortium has been awarded with a new project grant (Arctic PASSION) that represents the basis for an important middle-term collaboration.
- Ocean Race Europe: contacts have been made with the organising committee of the Ocean Race Europe, a major offshore sailing competition. The Volvo Ocean 65 boats will be equipped with sensors to collect ocean data during competitions and discussion is aimed at how to implement an operational data exchange with EMODnet
- EuroFleets+ project – further progress is made with the configuration of the underway data dashboard, using SWE, and with roll-out of the system towards multiple research vessels.
- LAMMA (Tuscany Italy) – LAMMA is planning to update its infrastructure and install new M2M services. As follow up of meetings (previous reporting period), exchanges, and further brainstorming, LAMMA decided to go for ERDDAP and they are now configuring their services. As soon as the new infrastructure will be deployed and validated, (new) data will be immediately linked and made available in EMODnet.

Moreover, in collaboration with EMODnet Physics the following datasets were added/linked and are available under the EMODnet Physics ERDDAP catalogue:

- Underwater noise: CTN Marine Technology Centre dataset
https://erddap.emodnet-physics.eu/erddap/search/index.html?page=1&itemsPerPage=1000&searchFor=CTN_UWN_CABODEPALOS_TS_HOURLY



- Rivers: the following providers were linked DEFRA UK, Arpa Veneto Italy, US Geological Survey and data operational data are available from more than 350 river stations.



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 reporting period four questions were received and answered.

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. Include a "data wanted" function that allows users seeking certain types of information to specify their needs:

This function is offered by the Data Wanted service which facilitates users to submit post-its, which are then matched with published datasets. Users will receive alert messages every time new matches have been established.

Task 7. Participate in discussions with EMODnet partners in order to improve the efficiency of the whole collection, assembly and dissemination process. Including participating to EMODnet Steering Committee meetings and EMODnet stakeholder conferences:

Coordination mostly took place by e-mail and short web conference. The EMODnet Ingestion 2 consortium also comprises the coordinators of each of the thematic lots, which allows for tuning with their project activities.

Task 8. 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 has been added as a new search facet. Editing activities take place aimed at replacing so-called orphan data for organisations from free text into controlled EDMO terms and orphan data for projects into controlled EDMERP terms in order to improve the integrity and richness of the metadata. See Chapter 6 for statistics.

Task 9. Engage in outreach activities towards significant holders of marine data whose data are not already available:

Despite the difficulties of the COVID crisis, multiple meetings and web presentations have taken place which are instrumental for increasing data submissions. These events and meetings are listed in Chapter 4. For instance, a Workshop took place with RGI – Renewable Grid Initiative and various of their members to discuss further how to arrange data sharing from e.g. marine windfarms and how to adopt best practices for data management for streamlining the data sharing to EMODnet Ingestion. As result it has been agreed that RGI will make a data inventory together with its members of those data sets that might be shared. Once this is available, a next Workshop will be organized to discuss how EMODnet Ingestion data centres can assist to make the data fit for sharing and also to educate data providers for a more efficient data management in the near future. For that purpose, MARIS also had a meeting with a consultant of RGI, discussing how to improve data acquisition for specific data types and its documentation. Data centres have made further actions to follow-up the potential leads that they had indicated earlier in the inventory of national potential.

RBINS made progress with updating, expanding and disseminating the material as used for promoting EMODnet Ingestion, tuning with the EMODnet Secretariat. Most activity was undertaken in the perspective of the EMODnet Open Conference – Jamboree held on 14-16 June 2021, which was joined by most partners, whereby several had an active role in different sessions.

- All EMODnet Data Ingestion partners received a "gift pack" with new promotional material at their (home) address for use during online and physical meetings. The shipment prepared by RBINS contained an assortment of the new EMODnet Ingestion pins, the updated ingestion poster printed on polyester (easy to carry in a handbag), project stickers and bookmarks in 4 variations.
- Complementing the very successful animation movie "Wake Up Your Data!" (3,5 min) a new short (2 min) animation movie has been produced and published on 11 June 2021 on the EMODnet YouTube channel with the title "Your Data, Work It". This movie gives the achieved results of the project in numbers and showcases a selection of three success stories of EMODnet Ingestion, illustrating how data sets from several data

providers were submitted and have been elaborated with the help of expert data centres of EMODnet Ingestion into standard formats for inclusion in the EMODnet data collections and derived data products. The production was joined by MARIS and HCMR contributing to the scenario and illustrations.

- RBINS also produced a poster highlighting nine success stories of the project for use in promotion, interacting with consortium members who were leading specific use cases.
 - The home page of the portal has been updated by MARIS with banners for the new promotion movie and the poster of success stories. Further development is ongoing for adding a success story section to the online CMS which will allow to present an overview page (like the poster) and an individual detail page per success story.
 - The promotion of the two movies and two posters included in the EMODnet Open Conference Virtual Exhibition was done in the social media (Twitter & LinkedIn) and during the Conference (via the presentations and, each day, in the chat of the online conference).
 - Two short animation teasers (1 min each) have been produced for the two posters + the new movie. They can be easily shown during oral presentations or as introduction to the posters if used in future conferences. They served as pitch for the introduction of the posters during the plenary of the Open Conference.
 - More than fifteen use cases have been collected by RBINS from the Ingestion partners using a template validated by the Secretariat. These additional use cases are being reworked for publication on the Ingestion website in the coming weeks.
 - EMODnet Ingestion was presented at the Jamboree by an oral presentation of HCMR, while several posters were included in the exhibition. Moreover, MARIS chaired a session with panel discussion on the European marine data exchange landscape, whereby attention was given to the roles of EMODnet Ingestion. ETT and SMHI organized a session on citizen science data whereby also a major future role is foreseen for EMODnet Ingestion.
 - EMODnet Biology has been tweeting datasets once they become available online. Some of those tweets relate to datasets that were originally submitted via EMODnet Ingestion. So far, no #Ingestion tag was added, but this will be corrected in the near future. The datasets/tweets published within the reporting period are:
 - https://twitter.com/EurOBIS_VLIZ/status/1400059862680231949?s=20
 - https://twitter.com/EurOBIS_VLIZ/status/1397885494512467970?s=20
- EMODnet Ingestion datasets are also highlighted in the quarterly reports of EMODnet Biology (indicators spreadsheet) whenever they have been made available online via EMODnet Biology.
- MARIS has been involved in a number of Blue-Cloud events, such as an All-Atlantic Workshop and synergy meetings with e.g. the EuroSea project in which the role and usefulness of the EMODnet Ingestion facility and network have been promoted.
 - See also Chapter 5.

Task 10. Service continuity:

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

2. Identified issues: status and actions taken

A. Priority issues identified and communicated by CINEA/ DG MARE/ SECRETARIAT

Priority issue	Status (Pending/Resolved)	Action(s) taken / remaining actions planned	Date due
EM-234: Data Ingestion - Update of Data Protection Notices	Resolved	Amendments made	14 June 2021
EM-254: DIP - Banner UPDATE - deadline extension	Resolved	Survey Banner placed for specific period, extended, and removed	9 July 2021

B. Issues / challenges identified by the thematic assembly group itself

(Priority) issue / challenge	Status (Pending/Resolved)	Action(s) taken / remaining actions planned	Date due
The EMODnet Ingestion contract runs till 10 October 2021 and there is no news yet whether the option for another 2 years continuation under the same ToR will be used by CINEA.	Pending	Will require action from CINEA	According to contract article 1.3.5 a continuation with another 24 months should be communicated 3 months in advance of the end of the current contract period. Which would implicate 10 July 2021.
GRAFANA reporting is not functioning as it should as several sections of the portal are not monitored / reported.	Pending	Will require action from Trust-IT	ASAP

3. User feedback (Contact Us form, online chat & other communication means)

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
07/05/2021	Danish Maritime Authority	Request to share their data on their maritime spatial plan	Helpdesk email	One week	resolved	Guidance given for data submission	
08/05/2021	Belgian Federal Public Service Economy	Question about missing backscatter data	Helpdesk email	6 days	resolved	Explanation given: backscatter acquisition and processing methodology is not mature enough to be able to provide a "unified product"	
07/06/2021	Expeditions Med	Request to submit one dataset to include a link in a publication	Helpdesk email	Next day	resolved	Recommendation to use SEANOE to have a DOI, then the dataset will be sent to EMODnet ingestion	
15/06/2021	oceaneye	Request to share their data and question about the deadline for submission of metadata regarding the end of the project in October 2021	Helpdesk email	2 weeks	resolved	Guidance given for data submission	

4. Meetings/events held/attended & planned

A. Meetings/events Organized and attended					
Date	Location	Type event (internal or external meeting, training/workshop)	Indicate if a ppt was given (yes/no + short description)	Meeting attended (A) / organised (O)	Short description and main results (# participants, agreements made, etc.)
1 April 2021	online	Blue-Cloud – EuroSea synergy meeting with MARIS	no	A	To discuss potential synergy between the 2 projects. Including role of EMODnet Ingestion in the European data exchange.
7 th April 2021	online	Meeting of CNR with data producers	yes	O	Meeting with researchers from CNR, Stazione Zoologica Anton Dohrn and ISPRA
8 April 2021	online	Internal meeting with MSI	yes	A	Meeting with Ministry of the Environment – Marine Environment Department. Introducing and promoting ongoing projects ie. JERICO, EMODnet Physics and Ingestion.
12- 14 April 2021	On line	IMDIS – International Conference on Marine Data and Information Systems	yes	A	This year IMDIS recorded its highest number of attenders (more than 500 participants - https://imdis.seadatanet.org/Conference-Information/Participants) and EMODnet Ingestion and lots were presented and discussed. Active participation by many Ingestion partners in sessions. EMODnet Ingestion has been presented by HCMR
13 – 14 April 2021	online	NAUTILOS 2 nd Consortium Meeting with ETT	No	A	The NAUTILOS project is developing new sensors (https://nautilus-h2020.eu/) and EMODnet (Ingestion) will receive/be linked to the new data (once validated).
19 – 21 April 2021	online	EMODnet Technical Working Group and Steering Committee	No	A	periodic EMODnet SC and TWG progress meeting

19 April 2021	online	Thematic Webinar WOZEP on Ecosystems effects by extend of future large windfarms in the North sea with RWS and Deltares		O	RWS and Deltares organized this WOZEP thematic webinar on Ecosystems effects that is part of the WOZEP program, where a lot of data are delivered. Promotion of EMODnet Ingestion.
19- 21 April 2021	online	H2020 JERICO S3 GA with MARIS	no	A	Annual General Assembly – JERICO S3 is developing and organizing the data flow from coastal platforms and EMODnet is one key project stakeholder.
20 April 2021	online	EuroSea Workshop during BlueWeek with MARIS	yes	A	MARIS presented European landscape of marine data management with role of EMODnet Ingestion and participated in panel discussions
24 April 2021	Brest, France / Remote	Internal meeting by Shom on European-funded projects.	yes	O	Presenting European-funded projects in which Shom is currently involved. Sharing experience and best practices.
28 April 2021	online	Ingestion Workshop with RGI with MARIS, HCMR, IFREMER, ETT, and SMHI	yes	O	To explore further possible data sharing and adoption of best practices with RGI stakeholders
3 -5 May 2021	online	EuroGOOS International conference with ETT, MARIS, and SMHI		A	The conference provided a forum for a broad range of implementers and users of operational oceanography services, including marine scientists and technologists, private companies, and policymakers, with both European and international partners and stakeholders. https://eurogoos.ifremer.fr/
4 May 2021	online	Meeting with consultant of RGI about approach to data acquisition and documentation by MARIS	yes	O	RGI has hired a consultant as part of the process for improved data management. MARIS explained the European data exchange and what standards to adopt

6 May 2021	online	MEDIN Data Archive Centres Meeting with BGS and BODC		A	MEDIN DAC meeting including BGS, BODC and other DACs
20 - 21 May 2021	online	European Maritime Day 2021 with COGEA, MARIS, and others	no	A	Included a session by SSBE on European marine data exchange with attention for EMODnet Ingestion
21 May 2021	online	EMODnet Biology Phase IV kick off meeting (2 nd day) with VLIZ	yes	O	Internal meeting for EMODnet Biology IV partners, EMODnet Ingestion was highlighted in the plenary discussions. Report due in August 2021
27 May 2021	online	TG-ML meeting about gathering of micro litter with OGS and MARIS	no	A	Discussing with Member States the process for gathering micro litter data and role of EMODnet Ingestion
31 May 2021	Online	Tech meeting with CNR ISP (Institute for Polar Science) with ETT	No	O	CNR ISP is the contact point for the ARICE project and the meeting was organized to discuss about data flow and related tech issues.
3 June 2021	online	All-Atlantic Forum with MARIS	yes	A	Major international conference organised by EU about ocean governance, including focus on data exchange and digital twin of the ocean. MARIS present European marine data landscape and role of EMODnet Ingestion
8 June 2021	online	SeaRICA Underwater Noise with ETT and SMHI	No	A	Webinar on sea noise organised by SeaRICA and Seas at Risk. Underwater noise was one of the agenda items and the workshop was attended in order to check shared insights and outcomes.
14 -18 June 2021	online	EMODnet Open Conference and Jamboree	Yes	O	EMODnet partners, data providers and users. EMODnet Physics and Ingestion organized the session - EMODnet dialogue: Citizen Science. Many partners of Ingestion were also active in

					<p>other sessions and in presenting EMODnet Ingestion by presentation and posters.</p> <p>MARIS chaired a session on the European marine data exchange landscape with attention for EMODnet Ingestion</p> <p>Poster & abstract highlighting nine success stories of EMODnet Ingestion + new animation produced by RBINS "YOUR DATA, WORK IT" (2 min)</p> <p>Presentation of the updated poster and a 1 min teaser of the animation produced by RBINS "WAKE UP YOUR MARINE DATA". Abstract entitled "Wake up, safeguard and share your marine data with EMODnet-Ingestion.EU"</p>
17 June 2021	Online	MEDIN Standards group meeting with BGS and BODC	no	A	MEDIN Standards group meeting
28th June 2021	Online	OECD Access to research data from public funding: The case of marine data? With BGS	no	A/O	Access to research data from public funding: The case of marine data', organised by the OECD and co-hosted by GOOS and MEDIN)
29 June 2021	Online	3 rd General Meeting of SeaDataNet AISBL with many EMODnet Ingestion partners	no	O	31 member organisations of SeaDataNet AISBL are committed to sustain ingestion of European marine data from different sources in the long term.
30 June 2021	On line	EuroGOOS Tide Gauge Task Team meeting with ETT and SMHI	No	A	Periodic meeting of the Task Team to discuss on actions and progresses on sea level data management.

A. Meetings/events planned in the future				
Date	Location	Type event (meeting, training (workshop), etc.)	Meeting to be attended (A) / organised (O)	Short description and main expected outcomes
6 July 2021	On line	Meeting – CNR ISP	O	Follow up on linking ARICE project data
21st July 2021	Online	Geospatial Commission Coastal Zone Mapping Presentation with BGS	A	This project focused on understanding the data landscape of agencies involved in the collection and use of geospatial data in the coastal zone
September 2021	Online	Plenary project meeting EMODnet Ingestion	O	To discuss results of project and finalising present contract phase
8-10 September 2021	On line/hybrid	EMODnet SC and TWG	A	EMODnet Steering Committee and Technical Working Group meetings
21 September 2021	Batumi, Georgia	Science picnic with TSU	O	Science picnic – science popularisation country-wide event (TSU will have its own facility, where results of all ongoing marine projects (including EMODnet Ingestion) will be introduced.
22-24 September 2021	On line	Workshop – Polar Data Forum with ETT and SMHI	A	https://polar-data-forum.org/ - it is a place where polar data holders get together and make more use of data.
28 September-1 October 2021	La Spezia (Italy) in person	Sea Future -exhibition with ENEA	A	ENEA is going to be present with a poster during this event to promote EMODnet Data Ingestion services
October 2021	online	B-Blue meeting with ENEA	O	ENEA is going to promote the EMODnet Data Ingestion portal in the B-Blue project towards

					Blue Biotechnology community of the Mediterranean area, including sharing of informative material
19-21 January 2022	Aalborg University, Aalborg, Denmark	The Danish Marine Research Meeting	A		AU-DCE is planning to participate with a poster and/or dissemination of EMODnet brochures and promotion of EMODnet Ingestion to the The Danish Marine Research Meeting
TBC	Gandia (Spain)	Master class at Univ Polit. Valencia	A		IEO giving lecture to master students and their profesors at university
TBC	Madrid (Spain)	Master class at Univ Compl. Madrid	A		IEO giving lecture to master students and their profesors at university
TBC	Hatay, Turkey	Clean Sea Hatay Project Meeting	O		METU-IMS will promote EMODnet Ingestion. Meeting is about new monitoring stations in Iskenderun bay
TBC	Antalya, Turkey	Clean Sea Antalya Project Meeting	O		METU-IMS will promote EMODnet Ingestion. Meeting is about new monitoring stations in Antalya bay
TBC	Strandbúnaður, Iceland	Aquaculture Conferenc	A		Annual conference with discussion between all those who are involved in the aquaculture industry in Iceland. MFRI will give presentation including EMODnet Ingestion and data sharing.
TBC	Iceland	The Icelandic Biology conference	A/O		MFRI will distribute flyers and poster introducing EMODnet Ingestion. Targeted against the science community.
TBC	Reykjavik, Iceland	MFRI annual public meeting	A/O		MFRI will promote EMODnet Ingestion
TBC	Vitoria, Spain	10 th Spanish Geological Congress	A		CSIC plans to present EMODnet and EMODnet Ingestion to the Marine Geoscience Community in Spain. An abstract has been submitted.
TBC	La Spezia, Italy	33 rd Mariperman	A		It is the annual event of the Italian Navy to PA services presentation and demonstration. The

				event hosts a scientific/dissemination session to present relevant projects and programs. ETT plans to present EMODnet Physics and Data Ingestion
TBC	Gandia (Spain)	Master class at Univ Polit. Valencia	A	IEO giving lecture to master students and their profesors at university
TBC	Madrid (Spain)	Master class at Univ Compl. Madrid	A	IEO giving lecture to master students and their profesors at university
TBC	Hatay, Turkey	Clean Sea Hatay Project Meeting	O	METU-IMS will promote EMODnet Ingestion. Meeting is about new monitoring stations in Iskenderun bay
TBC	Antalya, Turkey	Clean Sea Antalya Project Meeting	O	METU-IMS will promote EMODnet Ingestion. Meeting is about new monitoring stations in Antalya bay

5. Communication assets

A. Communication products				
Date	Communication material	Short description (of the material, title, ...) of the asset	Main results	Name of event at which material was disseminated (if applicable)
April 2021	Enamel Pins	EMODnet Ingestion logo on pin to wear at any occasion, and for online meetings / webinars	Branding	By classic mail to home or office addresses of EMODnet partners for use during the Open Conference and future online or physical meetings
May 2021	New video	Final version of "Your Data, Work It". New promotion animation complementing the first movie with the achieved results of the project in numbers and showcases a selection of three success stories	Promotion	Publication on Youtube and advertisement on website, by mails, shown at conferences (Open Conference in June 2021)
June 2021	Poster / Leaflet	Poster highlighting nine success stories of the project	Promotion	EMODnet Open Conference in June 2021 and at website
June 2021	Two short video teasers	A 1 min teaser was produced for the two animation movies for use in oral presentation and for online poster sessions.	Branding and promotion	The two teasers were shown during the plenary of the Open Conference and remain accessible in the Virtual Exhibition room until Oct. 2021. They are also published on the Ingestion portal

B. Planned communication products			
Date	Communication material	Short description (of the material, title, ...) and/or link to the asset	Main results expected
September 2021	Leaflet	New (digital) leaflet to promote some of the recent success stories	Advertisement on website, shown at conference and printed when physical conferences will be held again.

List of known publications using EMODnet data or data products

Date	Type and name of journal, conference, ...	Publication title including DOI (if known)	Author(s)	Organisation(s)
TBC	Geotemas Journal. 10 th Spanish Geological Congress. New date for the celebration: July 5th to 7 th, 2021.	EMODNET project, the Ingestion Portal and the relevance of the Database and Spatial Data Infrastructure	Javier Valencia, Gemma Ercilla	Institute of Marine Science. CSIC
TBC	Marine Pollution Bulletin	Marine macrolitter on the Greek coasts (in preparation)	Kaberi H., Zeri C., Tsangaris C., Papathanassiou V., Vlachogianni T	Hellenic Centre for Marine Research (HCMR)
May 2021	XVII International scientific conference "The modern methods and tools for oceanographic research". Moscow SIO RAS.	Modern means for oceanographic data Exchange	Evgenii Viazilov, Alexander Vikheev	RIHMI-WDC

6. Monitoring indicators

Comments on the progress indicators in the excel template		
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 last quarter is 45 which is almost conform the earlier quarters with 49 and 47 new phase 1 + 2 submissions. The overall number of published submissions went from 770 to 815.
1B) Usage of data in this quarter	Cloud storage of Submission Viewing service	The total number of download transactions increased almost 10 times to 1200+ and the total downloaded volume went up 40 times to 80+ GB.
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 11 in the last quarter to 144
9. Visibility & Analytics for web pages	Grafana	The grafana application has just been configured for Ingestion so there is not much yet to report in trends. Only the homepage is reported. It shows around 1K unique pageviews per quarter.
10. Visibility & Analytics for web sections	Grafana	The grafana application shows the visit stats of several sections, such as the Guidelines and Operational data. The total quarterly data views are moderate, but this is also expected as EMODnet Ingestion is more a dedicated site to get new data providers in. Unfortunately, the grafana monitoring of the data viewer is not working well as it reports zero quarterly visits while there are many downloads reported on the same data viewer. This requires further action from Trust-IT. Also there is no monitoring on the Data Submission service reported while this is a major service.
11. Average visit duration for web pages	Grafana	The grafana application only shows the visit durations for the homepage while this functions more as a menu for starting, while real action takes place at other pages. This also needs further action by Trust-IT as it now misses data

Some additional statistics on Submissions.

In the reporting period, the number of **Submissions** went **from 903 to 933**, the number of **published data submissions 'as is'** in the View Submissions service increased **from 770 to 815** (metadata forms and related data

sets), while the number of **submissions** that have been elaborated to **phase II**, implicating uptake in national and European marine data infrastructures, feeding into EMODnet, increased **from 341 to 363**. The following figures give characteristics of those published submissions.

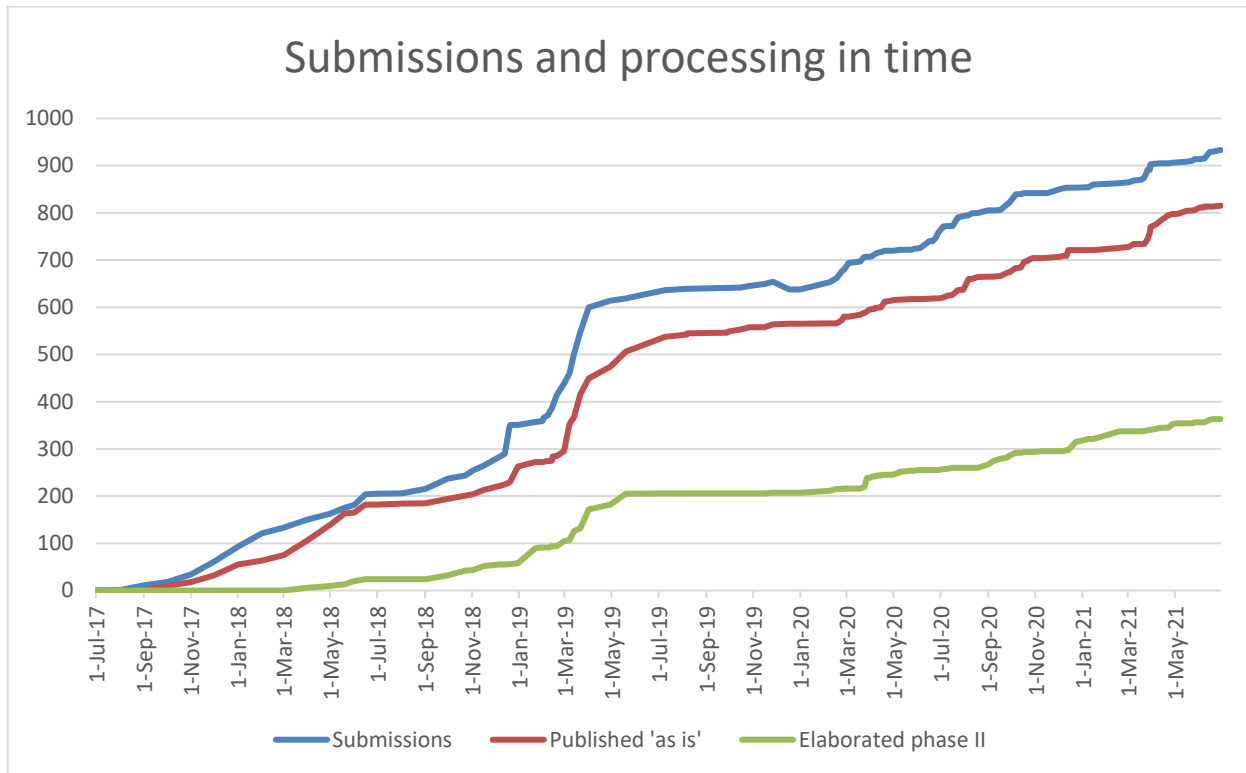


Image: Submissions and processing in time

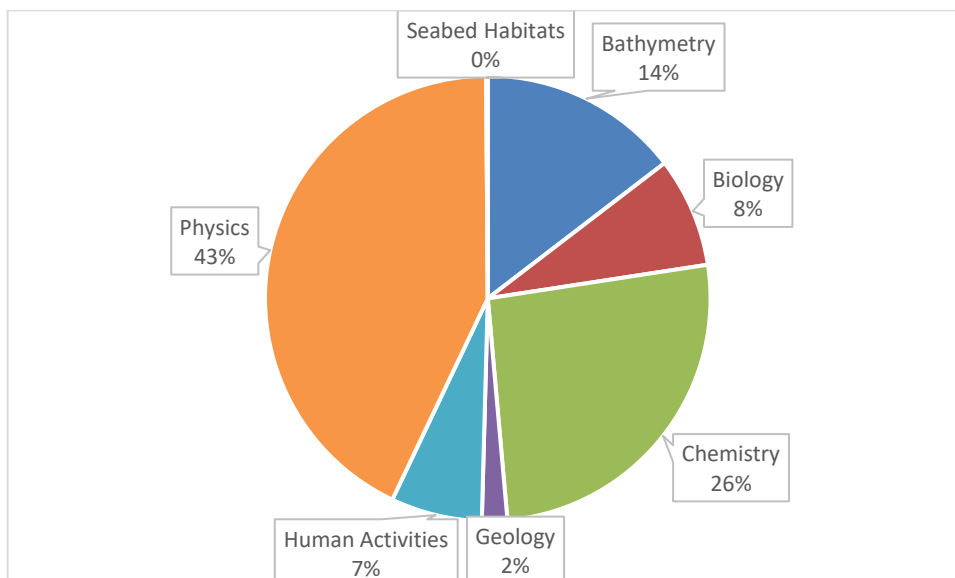


Image: Published submissions (815) by theme

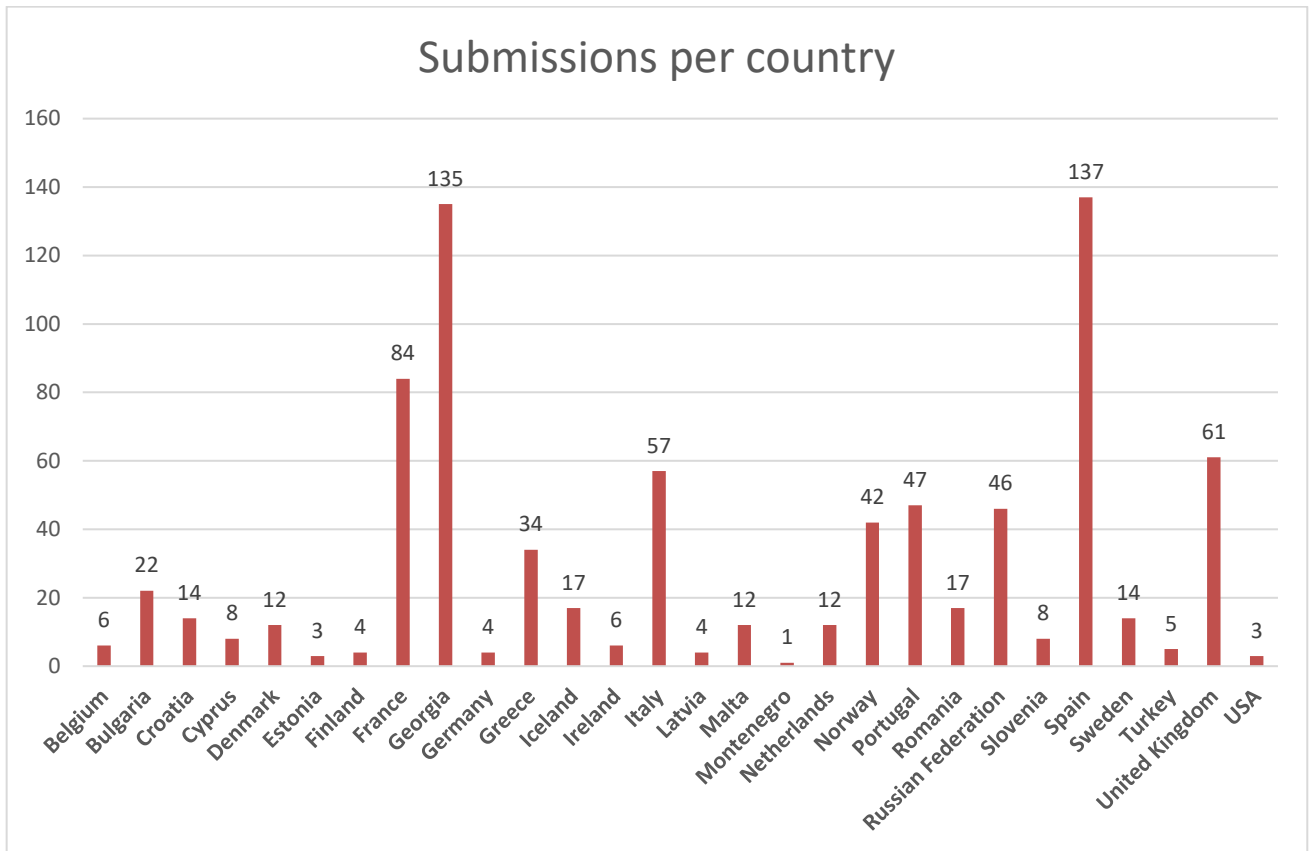


Image: Published submissions (815) by country of submission

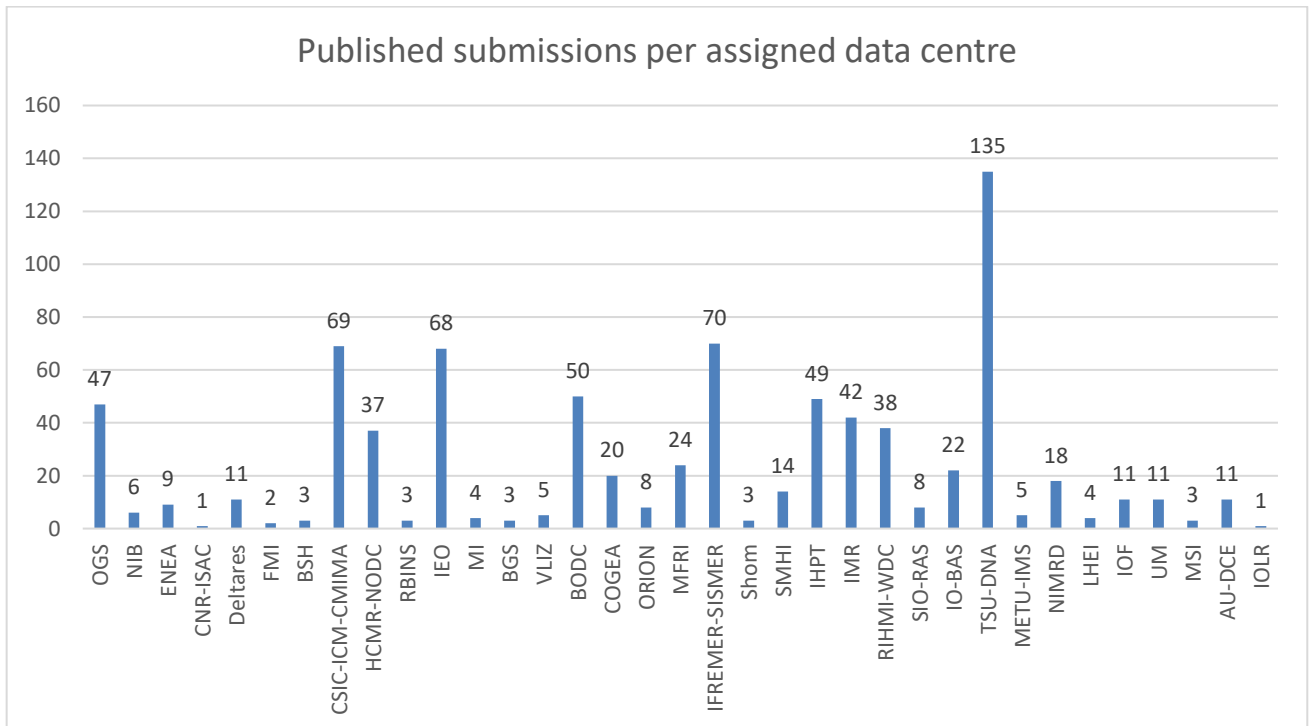


Image: Published submissions (815) by assigned data centres

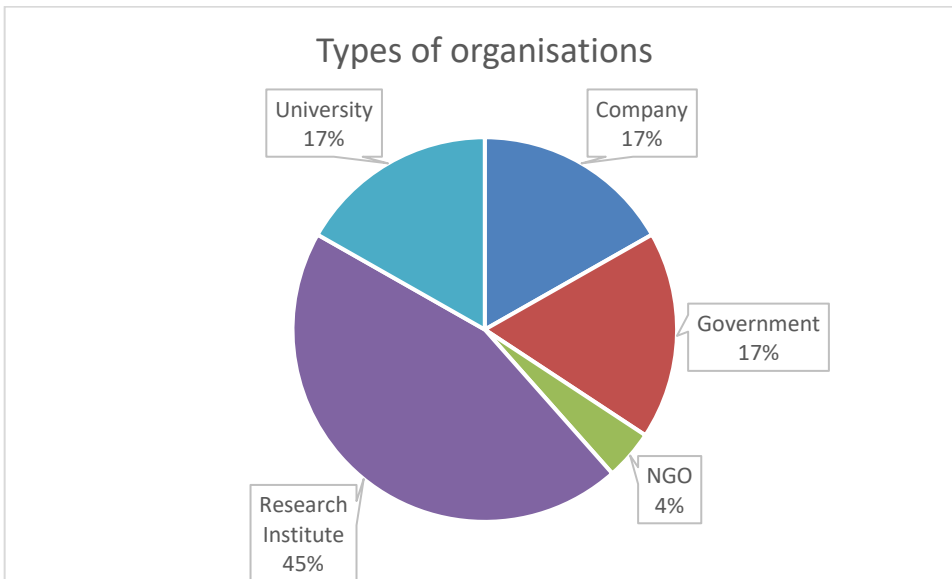


Figure: Division by sector of organisations (144) for data originators and holding centres

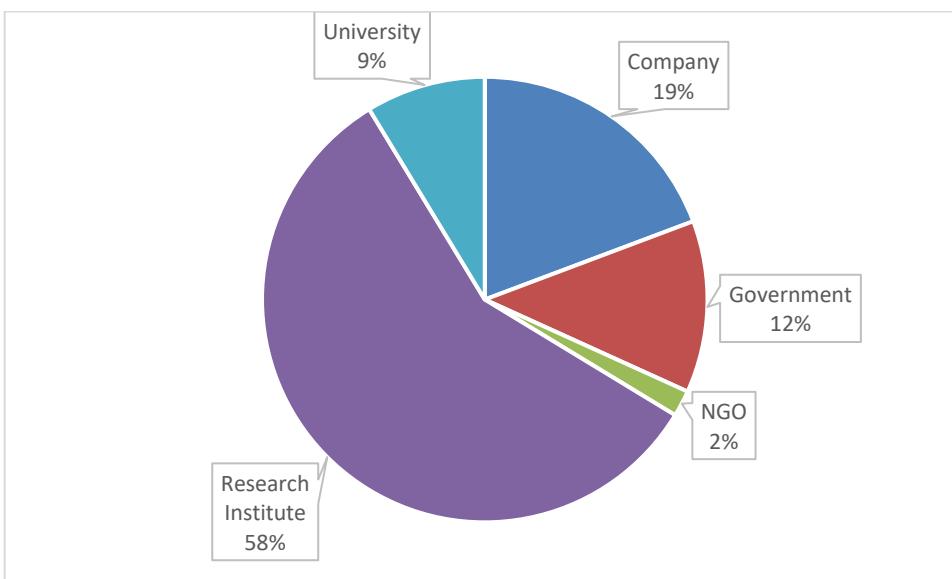


Figure: Division of number of submissions (815) by sector of data originators and holding centres

The above reported Ingestions all concern submissions of data sets made to the Submission service and then completed for publishing at the View Submission service which total 815 records with 452 records at Phase I publication and 363 records at Phase II publication.

Differences over the reporting quarter:

	Begin Q2 2021 Phase 1	End Q2 2021 Phase 1	Begin Q2 2021 Phase 2	End Q2 2021 Phase 2	Total Begin Q2 2021 Phase 1 - 2	Total End Q2 2021 Phase 1 - 2
Theme						
Bathymetry	74	84	35	35	109	119
Biology	48	50	15	15	63	65
Chemistry	68	62	132	150	200	212
Geology	13	14	1	1	14	15
Human Activities	43	47	7	7	50	54
Physics	182	194	151	155	333	349
Seabed Habitats	1	1	0	0	1	1
TOTAL	429	452	341	363	770	815

Table: number of submissions in phase 1 and 2 per theme at begin and end of reporting quarter

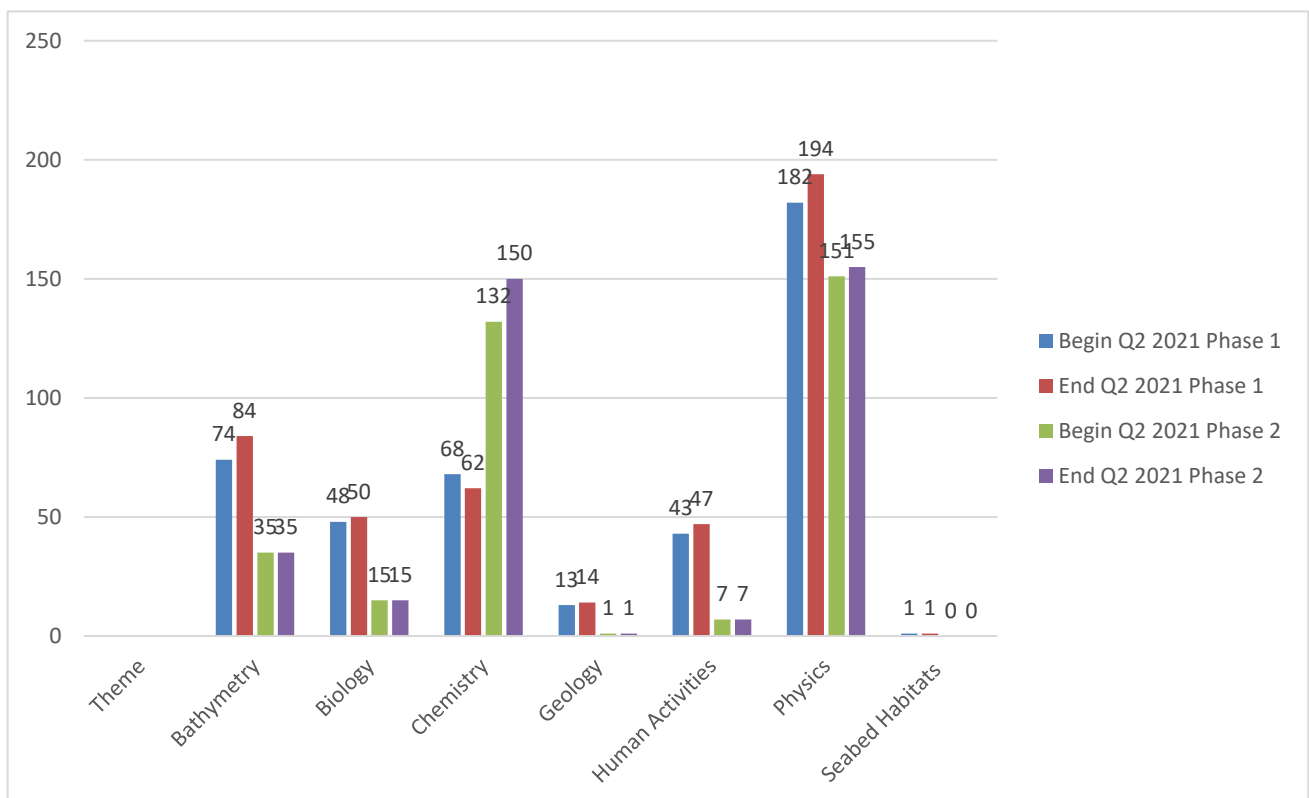


Image: number of submissions in phase 1 and 2 per theme at begin and end of reporting quarter