



EMODnet Ingestion and safe-keeping of marine data

11th Quarterly Report

Reporting Period: 01/01/2019 – 31/03/2019

Date: 10/04/2019

Contents

1. Highlights in this reporting period.....	3
2. Work package progress	3
WP0 – Project Management:	4
WP1 – Construct and operate central Data Ingestion portal with services:.....	5
WP2 – Implement pathways to forward submitted data to the appropriate repository:.....	6
WP3 – Facilitate machine-to-machine transfers:.....	7
WP4 – Marketing and outreach activities:.....	8
3. Unexpected difficulties encountered	20

1. Highlights in this reporting period

- The number of **published data submissions ‘as is’** in the **View Submissions service** (aka Summary Records service) has increased largely from **263 to 449 submissions** (metadata forms and related data sets) and of these **172 submissions** (was **57**) have been elaborated **to Phase II** and their data sets are now also available at national and European portals;
- Partners have made further progress with promoting EMODnet Ingestion and encouraging data submitters. Next to the **449** published submissions **151** additional submissions are under processing and also further activities are underway for phase II elaboration on already published submissions;
- The tenth quarterly progress report was submitted at 15th January 2019 to EASME, EU DG MARE and EMODnet Secretariate.

2. Work package progress

The EU Tender specifications requested the following Tasks:

Task 1	Construct a web-portal
Task 2	Implement pathways for delivering data to final repositories
Task 3	Facilitate machine-to-machine transfers
Task 4	Operate a help-service for users to provide their data in the most appropriate format
Task 5	Allow providers of data to track the progress of their data from submission through to their storage in a repository
Task 6	Include a ‘data wanted’ function that allows users seeking certain types of information to specify their needs
Task 7	Participate in discussions with EMODnet partners in order to improve the efficiency of the whole collection, assembly and dissemination process
Task 8	Maintain a summary record of data delivered
Task 9	Engage in outreach activities towards significant holders of marine data whose data are not yet already available
Task 10	Service continuity
Task 11	Project Management

The EMODnet Ingestion consortium proposed a Work Plan that groups specific tasks, comparable in nature, under the same Work Packages (WP), also to make the execution with the large consortium easier and more effective.

Work Package No.	Work Package title	Covering tasks	WP leader
WP0	Project Management	Task 7 – EMODnet tuning Task 10 – service continuity Task 11 – Project Management	MARIS
WP1	Construct and operate central Data Ingestion portal with services	Task 1 - web-portal Task 5 – tracking service Task 6 – data wanted service Task 8 – summary service	HCMR
WP2	Implement and operate pathways	Task 2 – pathways Task 4 – help service	IFREMER
WP3	Facilitate machine-to-machine transfers	Task 3 – machine-to-machine	ETT
WP4	Marketing and outreach	Task 9 - outreach	RBINS

Progress on the Work packages and related tasks are described in the following pages.

WP0 – Project Management:

As part of task 11 the coordinator prepared the 10th quarterly progress report which was accepted by the EU (EASME and DG MARE). In the 11th quarterly reporting period the coordinator of EMODnet Ingestion has made arrangements for the final plenary project meeting:

Date	Location	Topic	Short Description
3 – 4 April 2019	Rome - Italy	EMODnet Ingestion Final plenary project meeting	All consortium members will report on their activities which will provide necessary input for the final project report.

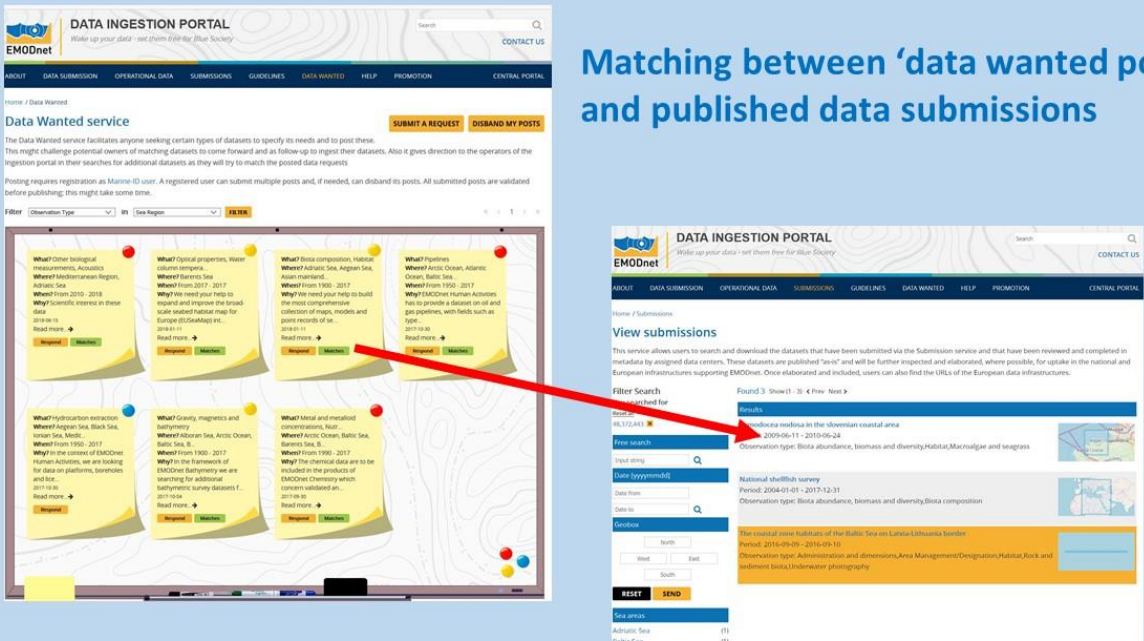
The EMODnet Ingestion contract will run till 19th May 2019 and contractually a draft final report was planned 2 months before the end. However there was no option for planning the final plenary project

meeting earlier, while this meeting is necessary for organising the input from all consortium members to the final report. Therefore the coordinator will request EASME for a delay of the draft final report till early May 2019. This will also apply for the transfer protocol as the delay will allow to wait for the response of EASME to the discussion document on transfer for EMODnet Bathymetry as this will set the conditions for all EMODnet lots.

WP1 – Construct and operate central Data Ingestion portal with services:

As part of task 1 (web-portal) the EMODnet Ingestion portal has been maintained in the present quarter. Moreover as part of task 8 (summary service) editing activities have taken place for the View Submissions service concerning replacing so-called orphan data for organisations from free text into controlled EDMO terms. This improves the integrity of the metadata of the published data submissions for searches, reports and detailed pages.

Furthermore very good progress has been made with developing the ‘matching service’ for data-wanted post-its.



The figure illustrates the 'Matching service' between 'data wanted post-its' and published data submissions. It shows two screenshots of the EMODnet Data Ingestion Portal. The left screenshot displays the 'Data Wanted service' page, which lists various data requests as 'post-it' cards. The right screenshot shows the 'View submissions' page, which displays search results for data submissions. A red arrow points from a specific 'Data Wanted' post-it card to a corresponding search result in the 'View submissions' page, demonstrating the matching process.

Figure: Matching service

In practice a matching is made between published data submissions and data wanted post-its by means of a dynamic coupling table. If applicable, data wanted posts now feature a matching button which links directly to a subset of submissions in the View Submissions service. Originators of post-its will be alerted by email on a weekly basis and only if new matches have become available in that week, so that it will not be experienced as 'spamming'. The matching function is already active at the portal (see figure above) and the alert mailing service will be activated before the middle of April 2019. This way the last outstanding contract requirement will be fulfilled.

WP2 – Implement pathways to forward submitted data to the appropriate repository:

Concerning task 2 (pathways) the number of qualified data centres from the EMODnet Ingestion network and EMODnet Thematic networks that are included in the Data Centre Matrix of engaged data centres has increased from 49 to 50. Many of them have been actively involved in the processing of data submissions that were relevant for their expertise and country. This can be seen in detail in the analyses in the report on WP4.

During the reporting quarter further progress has been made with achieving data submissions and with completing these by assigned data centres to be published 'as is' in the View Submissions service. The number of published submissions has increased from **263** to **449**. The features of these submissions will be further described under WP4. Moreover an increasing number have been elaborated and populated into European data infrastructures driving EMODnet portals, namely from **57** to **172** submissions. In several cases this has resulted in very valuable and extensive populations whereby 1 submission translated into tens to thousands of entries in the SeaDataNet or EuroBIS systems which underpin several EMODnet Thematic portals.

Further steps were made with the (semi-)automatic coupling of SEANOE and EMODnet Ingestion. Originally, SEANOE is a French national science ingestion portal (www.seanoe.org) operated by IFREMER. SEANOE has been adopted as extra service at the SeaDataNet portal, inviting European scientists to publish their scientific papers and associated data collections in return for a DOI which will facilitate their wider citation. The plan is to forward (selected) scientific submissions to SEANOE to EMODnet Ingestion for further processing of the associated data collections for inclusion and publishing in national and European portals. Recently the mapping between the data models of SEANOE and the EMODnet Submission service has been fully finalized and agreed between IFREMER and HCMR and as a consequence a few amendments will be made to the submission service, adding some extra metadata fields. This will be done on short term in order to facilitate that more than 50 SEANOE submissions will be exchanged for further population and elaboration before the end of the current contract.

As part of the North Sea wind energy use case Deltares has finalised the AQUO – SeaDataNet and AQUA – EurOBIS conversion procedures and has applied this for:

- converting a large volume of chemical and physical data sets from the national Rijkswaterstaat marine database into SeaDataNet formats. More than 8.500 CDI records have been generated and populated into the CDI service. In particular it concerns water quality data, namely for eutrophication which is highly relevant for EMODnet Chemistry. More CDIs are underway for contaminants data and physical parameters;
- elaborating a number of ingestion submissions for biological data acquired in the context of the monitoring of wind farm impacts in the Netherlands North Sea sector into populations for EuroBIS in EMODnet Biology. This is illustrated in the image below.

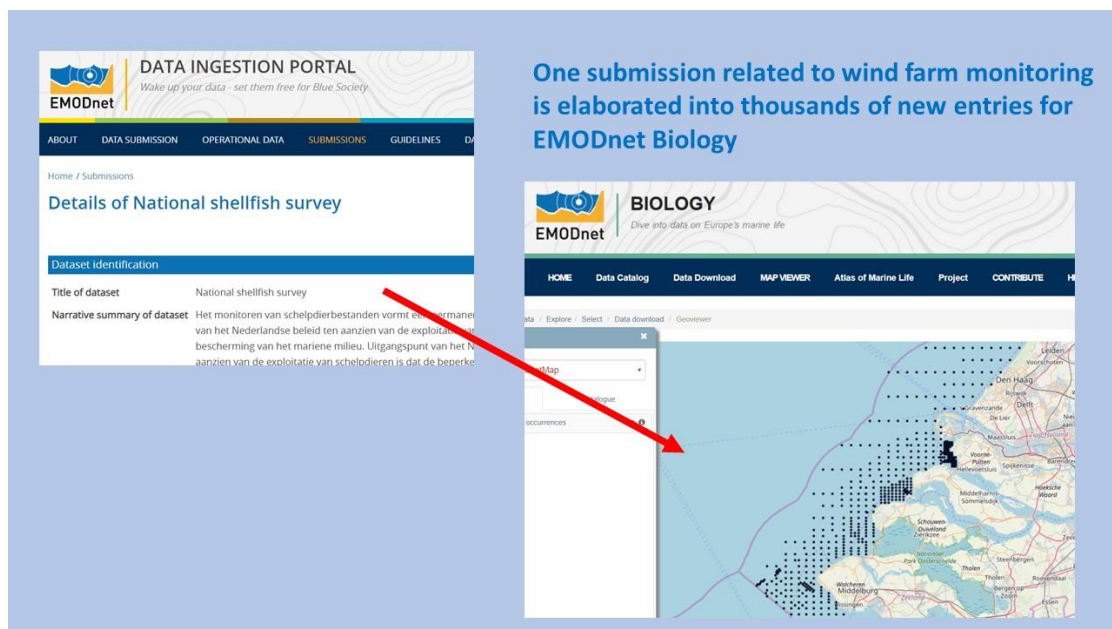


Figure: Example of submission elaborated into multiple entries in EMODnet portal

For task 4 (help service) more requests were received and answered, bringing the total number of feedback messages to 25 since the start. Following the requests another item has been added to the FAQ.

WP3 – Facilitate machine-to-machine transfers:

The task 3 (machine-to-machine) **NRT machine-to-machine ingestion** aims at identifying and arranging additional NRT data stations for EMODnet Physics. These can originate from additional operators that are willing to get connected and share their NRT data freely in EMODnet Physics. The portal explains how the NRT exchange is organised between operators of observing stations and EuroGOOS –

Copernicus and it gives a link to the EMODnet Physics portal to show how NRT stations can be displayed and used. In the reporting period additional providers were connected as NRT data streams to EMODnet Physics:

NRT stations	Operator
3 Ferrybox lines	NIVA, Norway
8 moorings	IZOR, Croatia
2 hydrophones	AZTI - Spain
2 MO buoys, Portofino – Capo Mele	ARPAL, Italy
2 ATM stations	UPC, Spain
2 MO buoys	UNITUSCIA, Italy
170 River Stations	various
HFR data	PLOCAN, Spain

In addition activities are underway for: *15 Lighthouses Ireland, 2 more gliders, Russian stations, RU NODC, 8 Icelandic stations, HFR data, Norway, and 4 MO buoys, Malta*

A major event is planned by means of the International FerryBox Workshop (Genova – Italy 24-26/4/2019). At the event EMODnet will be presented and in particular EMODnet Physics and EMODnet Ingestion. Another aim is to engage the audience of operators for harmonisation of data format and data flow and for facilitating to join open data distribution.

WP4 – Marketing and outreach activities:

Marketing and outreach activities are undertaken as part of task 9 (outreach) by all consortium members and aim at promoting the EMODnet Ingestion portal and services as well as identifying, encouraging and supporting potential data providers to submit relevant marine data sets by means of the Ingestion portal. It is done in synergy with the central promotion as undertaken by the EMODnet Secretariat and making also use of the EMODnet Thematic networks which are deeply involved in the pathways of processing and uptake of submitted data sets. The aim is to engage different communities by understanding their needs and establishing win – win situations.

In the present quarter promotion was made at a number of events, such as:

- 9 February 2019 – Trondheim – Norway – MIM (MAREANO – INFOMAR – MARE MAP) Meeting: UKRI- BGS promoted EMODnet and the use of EMODnet Ingestion at this meeting of MIM

researchers to discuss the diverse approaches to deal with the similar challenges shared by all three mapping programmes. The agenda for this group was to focus on three topics; seabed geomorphology, seabed sampling approaches, and automated seafloor mapping;

- 26 February 2019 – Helsinki – Finland - FINMARI Researcher Day 2019: FMI promoted EMODnet Ingestion and its network of qualified data centres at FINMARI which is a cross-institutional consortium in Finland assembling research institutes, universities and a state-owned company, all with a strong interest in marine research;
- 27 February 2019 – Brussels – Belgium - Community of Practice Workshop Algae production in Europe: COGEA participated and promoted EMODnet as a platform for presenting maps relevant for the algae production community. COGEA also promoted EMODnet Ingestion as already a few submissions about algae production have been achieved;
- 5 – 7 March 2019 – Tallinn – Estonia - INTERREG CW Pharma meeting: LHEI promoted using EMODnet Ingestion and its network of qualified data centres for distribution of project results and sustainability of data from the project;
- 13 March 2019 – Athens – Greece: HCMR promoted EMODnet Chemistry marine litter data management and exploring options for data sharing through the EMODnet Data Ingestion in a meeting with the Cooperation Network for the Marine Environment of the A.C. Laskaridis Charitable Foundation;
- 18 – 21 March 2019 – Paphos – Cyprus - Seventh International Conference on Remote Sensing and Geoinformation of Environment. ORION promoted EMODnet and options of EMODnet Ingestion to the network of leading experts in the field of Remote Sensing and Geo-information.

Promotion of EMODnet Ingestion is planned at several events such as:

- 16 - 17 May 2019 – Lisbon – Portugal – Maritime Day by COGEA;
- 7 – 12 April 2019 – Vienna – Austria - EGU 2019 Conference with presentations by several partners such as MARIS, ETT, and BODC;
- 24 – 26 April 2019 – Genova – Italy - Ferrybox workshop with EMODnet presentations planned by ETT and SMHI;
- 23 June 2019 – Croatia - National Committee for the Development and Implementation of the Marine and Coastal Management Strategy with EMODnet presentation planned by IOF;
- 18 – 19 July 2019 – Rijeka – Croatia – SOUNDSCAPE project meeting with EMODnet presentation planned by IOF

Furthermore, several partners had contacts with potential data submitters to make them aware of the Ingestion service and to give them guidance and support for the actual submission.

Key indicators:

Portal statistics:

All EMODnet Thematic portals and the Central EMODnet portal have included references and links to the EMODnet Ingestion portal.

Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan-19	2,097	2,752	52,163	66,683	1.29 GB
Feb-19	2,059	3,945	50,399	64,380	1.29 GB
Mar-19	1,853	2,557	68,136	89,209	1.70 GB

Statistics of submissions.

End of March 2019 there are **600** submissions in the Submission service, of which **449** already have been published in the Summary service. The following figures give characteristics of those published submissions.

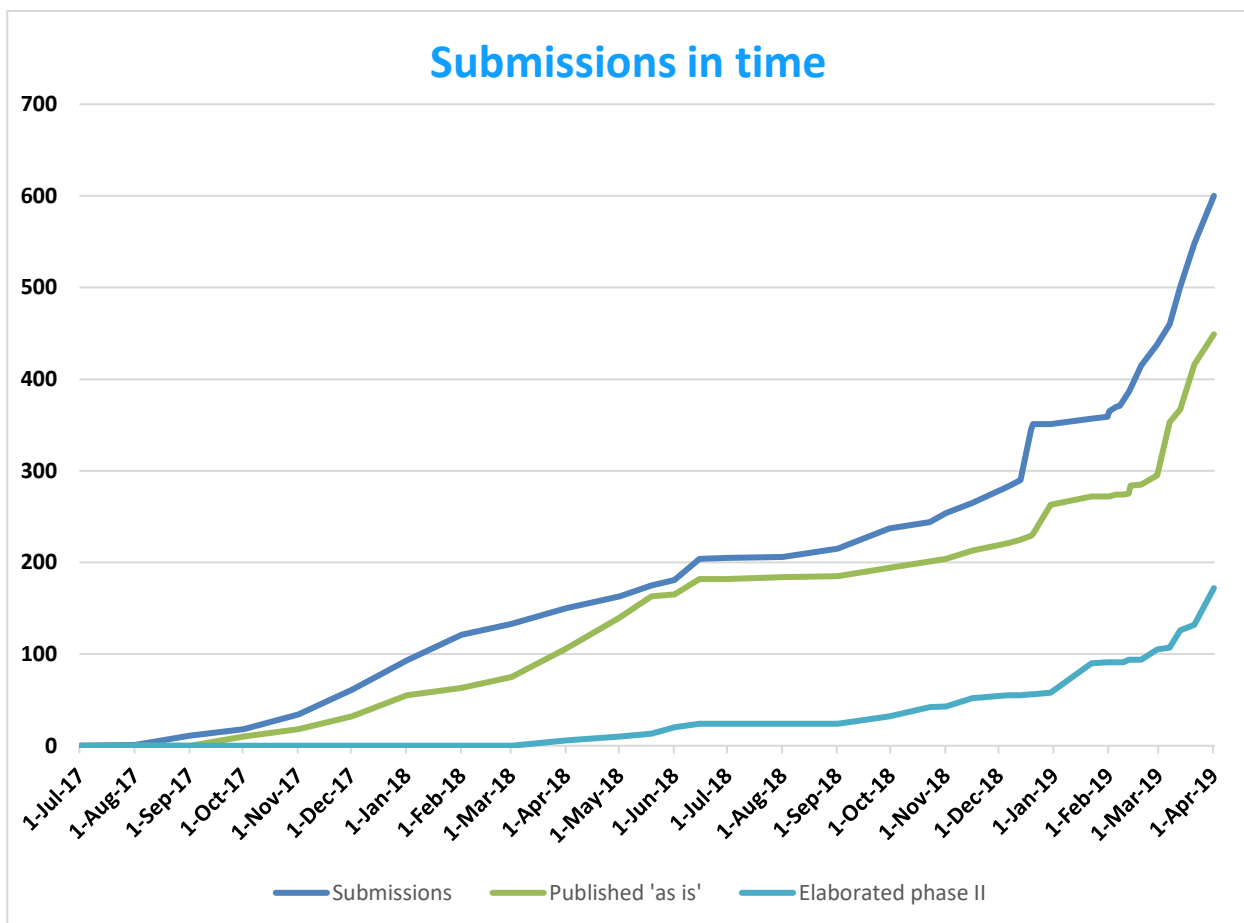


Image: Submissions and processing in time

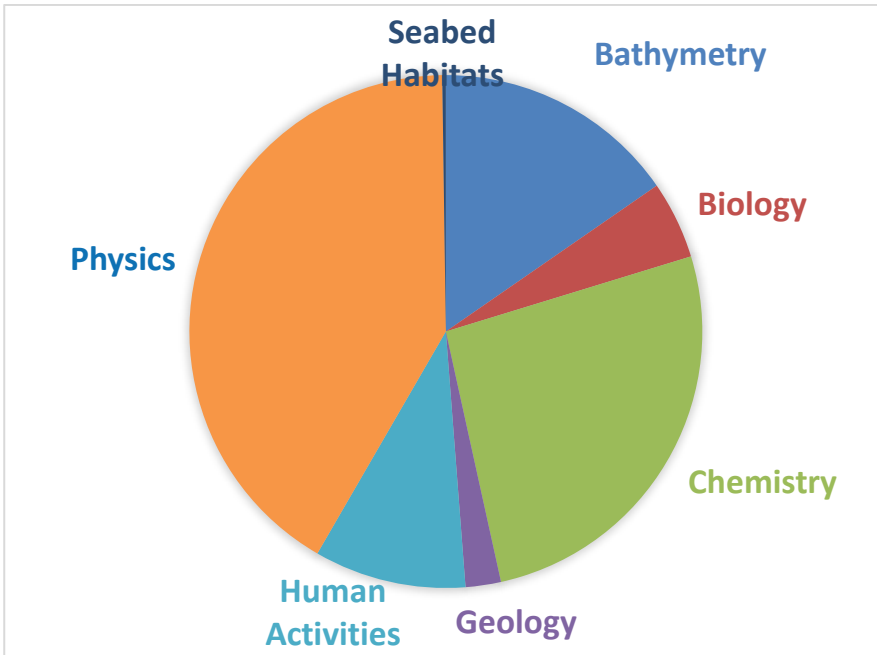


Image: Published submissions by theme

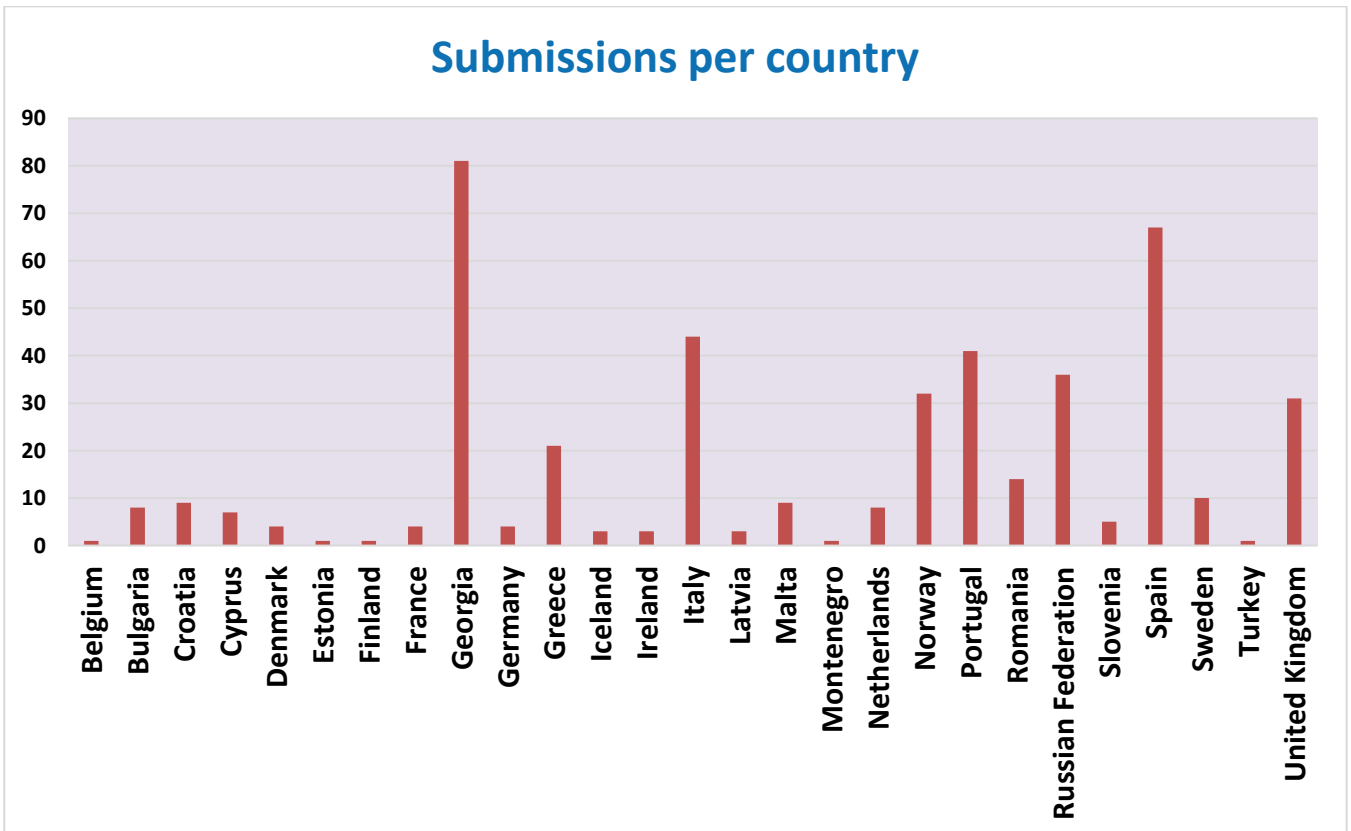


Image: Published submissions by country of submission

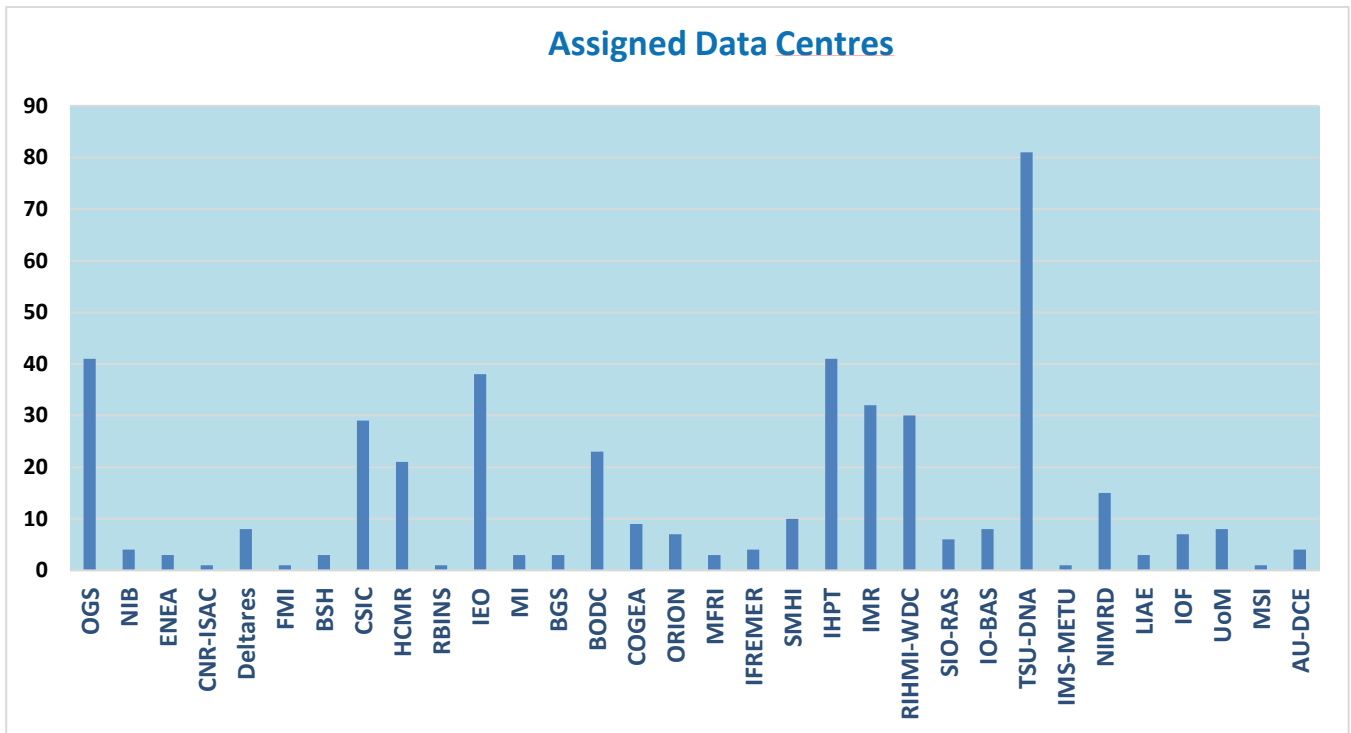


Image: Published submissions by assigned data centres

EDMO	ORIGINATOR / HOLDING CENTRE	No	SECTOR	COUNTRY
4882	AQUA4C	1	Company	Belgium
1032	Black Sea Basin Directorate	1	Government	Bulgaria
1165	Black Sea NGO Network	1	NGO	Bulgaria
4727	NGO MARINE SOUND	2	NGO	Bulgaria
4730	GeoMarine Ltd.	1	Company	Bulgaria
5031	Petro Celtic Varna Office	1	Company	Bulgaria
700	Institute of Oceanography and Fisheries	9	Research Institute	Croatia
249	Department of Fisheries and Marine Research, Division of Marine Biology and Ecology	1	Government	Cyprus
4537	ORION	6	NGO	Cyprus
4748	University of Kyrenia	1	University	Cyprus
729	Aarhus University, Department of Bioscience, Marine Ecology Roskilde	4	University	Denmark
3979	Estonian Environmental Research Centre	1	Research Institute	Estonia
1104	Finnish Environment Institute	1	Research Institute	Finland
1725	Finnish Meteorological Institute	1	Research Institute	Finland

EDMO	ORIGINATOR / HOLDING CENTRE	No	SECTOR	COUNTRY
1046	LABORATORY OF SCIENCES OF MARINE ENVIRONMENT (LEMAR)	1	Research Institute	France
1054	IFREMER	1	Research Institute	France
3187	CNRS Paris Institute of Earth Physics, Marine Geoscience Laboratory	1	Research Institute	France
4536	Ocean Physics and Satellite oceanography laboratory (LOPS) - UMR 6523 CNRS-Ifremer-IRD-UBO	2	Research Institute	France
1265	Scientific - Research Firm "GAMMA"	18	Company	Georgia
4877	Laboratory research centre LTD	54	Company	Georgia
4999	Napirdatsva Ltd	9	Company	Georgia
100	Baltic Sea Research Institute Warnemuende (IOW)	1	Research Institute	Germany
116	Baltic Sea Research Institute Warnemuende (IOW), Marine Geology	1	Research Institute	Germany
2947	GEOMAR Helmholtz Centre for Ocean Research Kiel	1	Research Institute	Germany
3324	University of Leipzig	1	University	Germany
3453	University Bayreuth	2	University	Germany
164	Hellenic Centre for Marine Research, Institute of Oceanography (HCMR/IO)	18	Research Institute	Greece
269	Hellenic Centre for Marine Research, Hellenic National Oceanographic Data Centre (HCMR/HNODC)	3	Research Institute	Greece
4766	Marine and Freshwater Research Institute	3	Research Institute	Iceland
396	Marine Institute	3	Research Institute	Ireland
134	CNR, Institute of Marine Sciences S.S. of Lerici (SP)	3	Research Institute	Italy
136	ENEA Centro Ricerche Ambiente Marino - La Spezia	9	Research Institute	Italy
642	Joint Research Centre (JRC)	5	Research Institute	Italy
1130	ARPA Emilia-Romagna - Struttura Oceanografica Daphne	2	Government	Italy
1631	University of Tuscia-Viterbo	3	University	Italy
3009	ISPRA-Institute for Environmental Protection and Research	17	Government	Italy
4809	National Research Council of Italy - Institute for Marine and Coastal Environment (IAMC) (Sezione Capo Granitola)	1	Research Institute	Italy
4881	University of Rome Tor Vergata	1	University	Italy

EMODnet Ingestion and safe-keeping of marine data 11th Quarterly report

EDMO	ORIGINATOR / HOLDING CENTRE	No	SECTOR	COUNTRY
4938	Portofino Marine Protected Area	2	Government	Italy
5046	ARPA Liguria	1	Government	Italy
698	Latvian Institute of Aquatic Ecology	1	Research Institute	Latvia
4762	Foundation for Environmental Education — Latvia	1	Government	Latvia
5017	Institute of Electronics and Computer Science	1	Research Institute	latvia
179	Malta Environment and Planning Authority - Environment Protection Directorate	1	Government	Malta
706	Transport Malta - Maritime Division (ex. Malta Maritime Authority)	1	Government	Malta
708	International Ocean Institute - Malta Operational Centre (University Of Malta) / Physical Oceanography Unit	8	University	Malta
4750	Water Services Corporation	3	Company	Malta
4751	Environment and Resources Authority	4	Government	Malta
2432	Institute of Marine Biology (IMBK)	1	Research Institute	Montenegro
1340	IMARES, Wageningen UR, Institute for Marine Resources and Ecosystem Studies, IJmuiden	2	Research Institute	Netherlands
1357	NoordzeeWind BV	5	Company	Netherlands
1526	Rijkswaterstaat Water, Traffic and Environment	7	Government	Netherlands
1528	Deltares	6	Research Institute	Netherlands
5045	Bureau Waardenburg BV	1	Company	Netherlands
612	Institute of Marine Research - Norwegian Marine Data Centre (NMD)	1	Research Institute	Norway
1212	Norwegian Meteorological Institute	28	Research Institute	Norway
1417	Norwegian Institute of Water Research (NIVA)	3	Research Institute	Norway
3348	Portuguese Environment Agency	4	Government	Portugal
4609	Directorate-General for Territorial Development	4	Government	Portugal
4880	Marine and Environmental Sciences Centre - Faculty of Sciences of the University of Lisbon	2	University	Portugal
5047	Director General of Health - Information and Analysis Services Directorate	33	Government	Portugal
697	National Institute for Marine Research and Development "Grigore Antipa"	14	Research Institute	Romania
4729	Black Sea–Danube Coastal Association for Research and Development	1	Research Institute	Romania
681	All-Russia Research Institute of Hydrometeorological Information - World Data Centre (RIHMI-WDC) National Oceanographic Data Centre (NODC)	29	Research Institute	Russian Federation
682	Atlantic Scientific Research Institute for Marine Fishery and Oceanography	12	Research Institute	Russian Federation
684	Arctic and Antarctic Research Institute, Roshydromet (Saint-Petersburg)	1	Research Institute	Russian Federation

EDMO	ORIGINATOR / HOLDING CENTRE	No	SECTOR	COUNTRY
685	P.P.Shirshov Institute of Oceanology, RAS	7	Research Institute	Russian Federation
686	P.P.Shirshov Institute of Oceanology, Southern branch	4	Research Institute	Russian Federation
949	World Data Centre-B For Oceanography	7	Research Institute	Russian Federation
1229	National Institute of Biology - Marine Biology Station	1	Research Institute	Slovenia
1755	Environmental Agency of the Republic of Slovenia	1	Government	Slovenia
4878	Institute for Water of the Republic of Slovenia	2	Research Institute	Slovenia
4879	Ministry of Agriculture, Forestry and Food of Republic of Slovenia	1	Government	Slovenia
280	CSIC-ICM/ Institute of Marine Sciences	12	Research Institute	Spain
310	IGME, Geological Survey of Spain	5	Research Institute	Spain
342	ULPGC/ Las Palmas University. Department of Physics	1	University	Spain
353	IEO/ Spanish Oceanographic Institute	16	Research Institute	Spain
354	PdE/ Harbours Authority. Physical Environment Department	1	Government	Spain
1396	Andalusian Institute of Earth Sciences (IACT). CSIC and University of Granada	5	Research Institute	Spain
1402	IEO/ Santander Experimental Aquaculture Facilities	1	Research Institute	Spain
1404	IEO/ Vigo Oceanographic Centre	10	Research Institute	Spain
1405	IEO/ Malaga Oceanographic Centre	1	Research Institute	Spain
1408	IEO/ Murcia Experimental Aquaculture Facilities	19	Research Institute	Spain
1746	ESGEMAR/ Esgemar S.A. Estudios geologicos marinos	7	Company	Spain
2163	UVIGO/ University of Vigo	5	University	Spain
2550	Institute of Marine Sciences, Barcelona	7	Research Institute	Spain
4883	ULPGC-IOCAG/ Institute of Oceanography and Global Change	1	Research Institute	Spain
4937	IISTA/ Andalousian Interuniversity Institute for the Reseach on the Earth System	1	University	Spain
5043	Eco-Dive	1	Company	Spain
545	Swedish Meteorological and Hydrological Institute	7	Research Institute	Sweden
2209	Stockholm University, Department of Meteorology	1	Research Institute	Sweden
4840	The Keep Sweden Tidy Foundation	2	NGO	Sweden
696	Institute of Marine Sciences, Middle East Technical University	1	University	Turkey
28	Centre for Environment, Fisheries and Aquaculture Science, Lowestoft Laboratory	3	Research Institute	United Kingdom

EDMO	ORIGINATOR / HOLDING CENTRE	No	SECTOR	COUNTRY
2657	GEMS Survey Ltd	1	Company	United Kingdom
42	British Geological Survey, Edinburgh	3	Research Institute	United Kingdom
1604	The Crown Estate	7	Government	United Kingdom
2135	Marine Scotland Science	21	Research Institute	United Kingdom
3006	SSE Renewables	1	Company	United Kingdom
4171	Partrac - Head office	1	Company	United Kingdom

Table: Overview of data originators and holding centres with number of related submissions

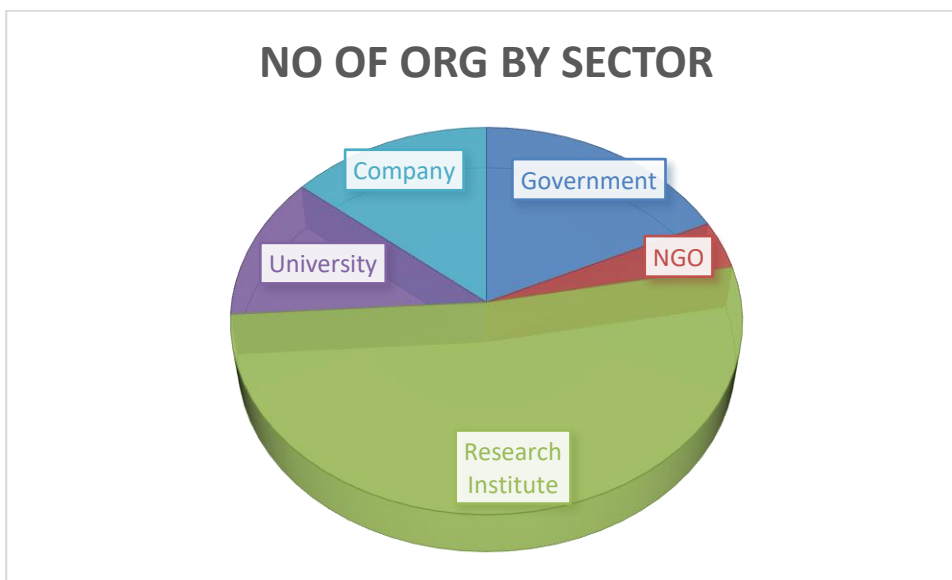


Figure: Division by sector of organisations for data originators and holding centres

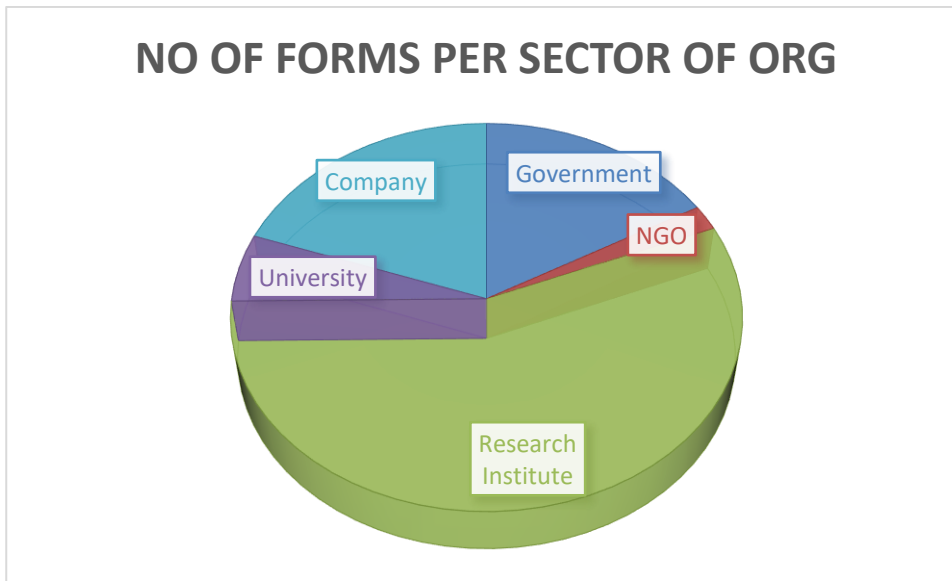


Figure: Division of number of submissions by sector of organisations

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. There are also direct ingestions which bypass the Submission service. This is the case for ingestions by oceanography operators to the European operational oceanography data exchange. Also there is a mission in EMODnet Ingestion to educate data providers and to arrange that regular submissions will go directly to the appropriate data centres and no longer through the Submission service.

Many data are also already elaborated to phase II which implies conversion of data sets and associated metadata to common formats and uptake in national and European data management infrastructures which dynamically results in availability in EMODnet Thematic portals.

In many cases one submission results in multiple records in the receiving systems. Below are two examples from UKRI-BODC to illustrate this. One concerns submissions from the Marine Data Exchange portal as set up by Crowne Estate for the offshore energy sector. The other concerns cruises as submitted by Marine Scotland Science. In both cases there is quite a multiplier and the data sets will provide added value for several users.

Progressing through the pipeline

Phase 1



DATA INGESTION PORTAL

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Home / Submissions

Details of Offshore Gas Storage (UK) - natural gas storage leases

Dataset identification

Title of dataset: Offshore Gas Storage (UK) - natural gas storage leases

Narrative summary of dataset: The Crown Estate manages the UK seabed out to the 12 nautical mile territorial sea limit and under the 2008 Energy Act, hold the rights for gas storage within the Exclusive Economic Zone Order 2010, which extends to into the Continental Shelf. This Order recognises and the Gas Impression and Storage Zone Order 2008, which was created by the 2008 Energy Act. Offshore natural gas storage has been taking place within the waters of the Rough field, since 1962. Operators of offshore projects need a storage licence from BEIS and a storage lease from the Crown Estate, as set out in the 2008 Energy Act, which also requires which type of gas impression and storage propose fit into this description. Effectively the regulatory and proprietary roles are separated. This dataset shows gas storage leases given to the Crown Estate. It also shows there are three leases, Rough, Gannock and Lorne Lough. Rough acts as a storage facility for gas producers and suppliers, allowing them to feed gas into Transco's National Transmission System when demand is at its peak, or withdraw and re-gas it into the system when demand is low. Any company with a UK gas storage licence can apply to purchase storage capacity at Rough, Gannock and Lorne Lough on set seasons. This data has been checked with the lease areas held by BEIS to ensure they match. The dataset also includes pipeline information. These TIS Agreements (pipelines) are related to the natural gas storage sector in the United Kingdom waters. Attribute information includes name, latitude and pipeline type. The data source is the individual owner company of the infrastructure.

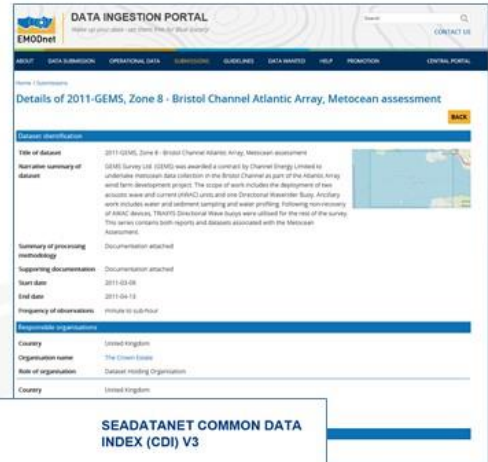
Supporting documentation: The dataset was created with input from James Claxton, Development Manager, OCS & Gas Storage. The Rough gas storage area is owned by Centrica. Rough acts as a storage facility for gas producers and suppliers, allowing them to feed gas into Transco.

Start date: 2011-03-01

End date: 2011-03-01

Responsible organisations:

Country: United Kingdom
Organisation name: The Crown Estate
Role of organisation: Dataset hosting Organisation



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Home / Submissions

Details of 2011-GEMS, Zone 8 - Bristol Channel Atlantic Array, Metocean assessment

Dataset identification

Title of dataset: 2011-GEMS, Zone 8 - Bristol Channel Atlantic Array, Metocean assessment

Narrative summary of dataset: OCSG Survey Ltd (OCSG) was awarded a contract by Crown Energy Limited to undertake metocean data collection in the Bristol Channel as part of the Atlantic Array wind farm development project. The scope of work includes the deployment of two automatic wave and current ADCIRCs and one Drifted Resonance Buoy. Ancillary work includes water and sediment sampling and water profiling. Following non-recovery of ADCIRC Resonance Triaxial Directional Wave buoys were utilised for the rest of the survey. This series contains both reports and datasets associated with the Metocean Assessment.

Summary of prevailing methodology: Documentation attached

Supporting documentation: Documentation attached

Start date: 2011-03-08

End date: 2011-04-13

Frequency of observations: Irregular to sub-hour

Responsible organisations:

Country: United Kingdom
Organisation name: The Crown Estate
Role of organisation: Dataset hosting Organisation
Country: United Kingdom

Phase 2



SeaDataNet

PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

SEADATANET COMMON DATA INDEX (CDI) V3

TOOLS

ENLARGE | HELP | POSITION | INDEX

Dataset: TRIAYSD

LAYER CONTROL

CDI entry Points
 CDI entry Tracks
 CDI entry Areas

Grid Lines
 Regional sea
 Regional sea

Show all selected records
 Only selected records in results list

LISTING RESULTS

20 | 100 | 1000 records

ADD TO BASKET

TIMESERIES ON | **SUMMARY** | **ZOOM TO SELECTED** | **EXPORT RESULTS** | **STORE QUERY**

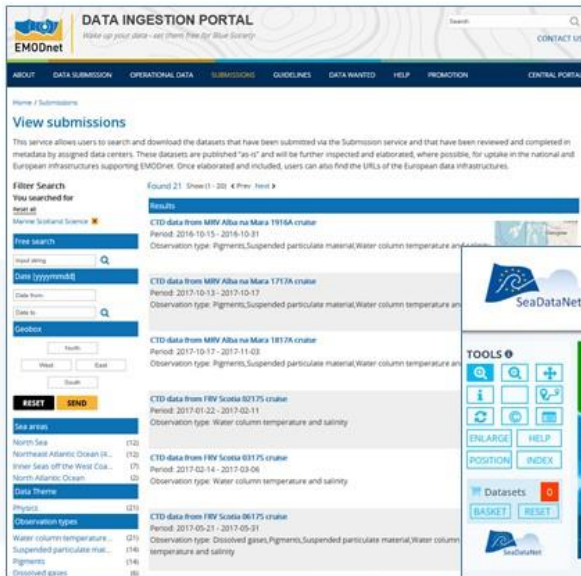
Refine query | New query | Found 22 | Show (1-20) | Previous | Next 2

#	Data set name	DC country	Start date	Disciplines - Topics	Instrument / gear type	Show
<input type="checkbox"/>	TRIAVSD	United Kingdom	20100903	Administration and dimensions	current profilers, water temperature sensor	Show

Figure: Illustration of pathway from submission to European portal



Cruises from Marine Scotland Science



DATA INGESTION PORTAL
Make up your data - set them free for Blue Science!

Home / Submissions

View submissions

This service allows users to search and download the datasets that have been submitted via the Submission service and that have been reviewed and completed in metadata by assigned data centers. These datasets are published "as is" and will be further inspected and elaborated, where possible, for uptake in the national and European infrastructures supporting EMODnet. Once elaborated and included, users can also find the URLs of the European data infrastructures.

Filter Search
You searched for **scot at**

Found 21 (1-20) 4 Prev Next >

Results

CTD data from MRV Alba na Mara 1916A cruise
Period: 2016-10-15 - 2016-10-31
Observation type: Pigments,Suspended particulate material,Water column temperature and salinity

CTD data from MRV Alba na Mara 1717A cruise
Period: 2017-10-13 - 2017-10-17
Observation type: Pigments,Suspended particulate material,Water column temperature and salinity

CTD data from MRV Alba na Mara 1817A cruise
Period: 2017-10-17 - 2017-11-03
Observation type: Pigments,Suspended particulate material,Water column temperature and salinity

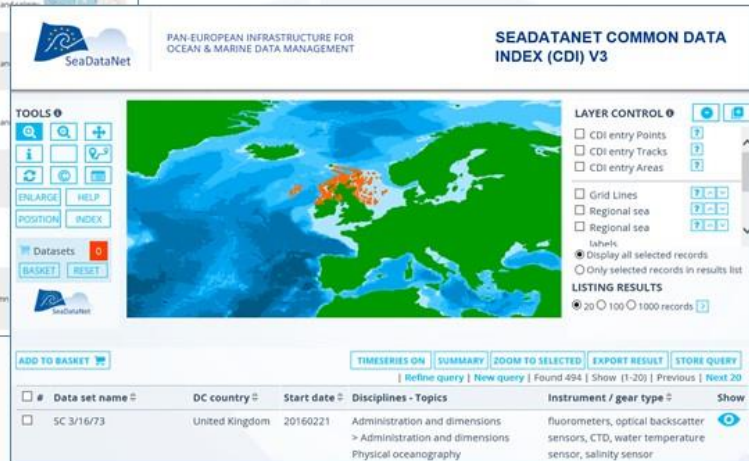
CTD data from FV Scotia 3017S cruise
Period: 2017-01-22 - 2017-02-11
Observation type: Water column temperature and salinity

CTD data from FV Scotia 0317S cruise
Period: 2017-03-14 - 2017-03-04
Observation type: Water column temperature and salinity

CTD data from FV Scotia 0617S cruise
Period: 2017-05-21 - 2017-05-31
Observation type: Dissolved gases,Pigments,Suspended particulate material,Water column temperature and salinity

Data Theme

- Hydro (21)
- Water column temperat... (21)
- Suspended particulate mat... (14)
- Pigments (14)
- Dissolved gases (8)



PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

SEADATANET COMMON DATA INDEX (CDI) V3

TOOLS

- ENLARGE
- HELP
- POSITION
- INDEX
- Datasets
- BASKET
- RESET

LAYER CONTROL

- CDI entry Points
- CDI entry Tracks
- CDI entry Areas
- Grid Lines
- Regional sea
- Regional sea

Labels

- Display all selected records
- Only selected records in results list

LISTING RESULTS

20 100 1000 records

ADD TO BASKET

TIMESERIES ON SUMMARY ZOOM TO SELECTED EXPORT RESULT STORE QUERY

Refine query | New query | Found 494 | Show (1-20) | Previous | Next 20

#	Data set name	DC country	Start date	Disciplines - Topics	Instrument / gear type	Show
1	SC 3/16/73	United Kingdom	20160221	Administration and dimensions -> Administration and dimensions Physical oceanography	fluorometers, optical backscatter sensor, CTD, water temperature sensor, salinity sensor	Show

Figure: Illustration of pathway from submission to European portal

3. Unexpected difficulties encountered

Nothing to report.