


EMODnet
European Marine
Observation and
Data Network
Your gateway to marine data in Europe

Progress EMODnet Ingestion

SC meeting, March 2018, Majorca - Spain

Dick M.A. Schaap | MARIS,
dick@maris.nl

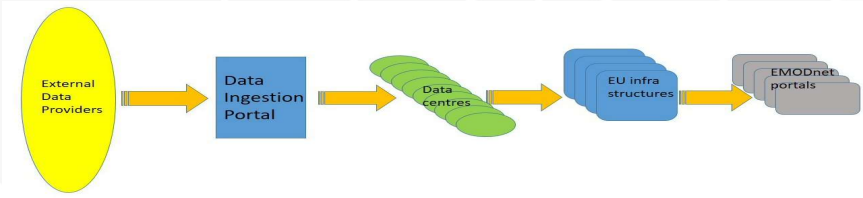
The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.



Aims

EMODnet
European Marine
Observation and
Data Network

- To develop and operate a new EMODnet portal with services that facilitate data holders from public and private sectors to submit marine data sets for publishing, further processing and safekeeping by data centres, and subsequent distribution through EMODnet thematic portals



```

graph LR
    A([External Data Providers]) --> B[Data Ingestion Portal]
    B --> C[Data Centres]
    C --> D[EU infra structures]
    D --> E[EMODnet portals]
  
```

- Contract from 19 May 2016 – 19 May 2019

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Portal – launched Feb 2017

DATA INGESTION PORTAL
Wake up your data - set them free for Blue Society

EMODnet

ABOUT DATA SUBMISSION OPERATIONAL DATA SUBMISSIONS GUIDELINES DATA WANTED HELP PROMOTION CENTRAL PORTAL

Home

Welcome to the EMODnet Data Ingestion portal

The European Marine Observation and Data Network (EMODnet) consists of more than 160 organisations that together work on assembling, harmonising and making marine data, products and metadata more available to public and private users. This Data Ingestion portal facilitates additional data managers to ingest their marine datasets for further processing, publishing as open data and contributing to applications for society.

READ MORE

EMODNET INGESTION
AND HOW DOES IT WORK

Submit your data files
The online Data Submission service facilitates you to submit marine datasets by completing a form and uploading your data as a file package. The service

Ingest operational data
We are also interested in (Near) Real-Time (N/RT) data streams from fixed and autonomous ocean observing platforms. This section explains how you

View submissions
View, search and download datasets that have been submitted by data providers using the Data Submission service.

www.emodnet-ingestion.eu 3

Submission Service for data files

DATA INGESTION PORTAL
Wake up your data - set them free for Blue Society
Data Submission Service

EMODnet

CONTINUE >

Welcome to the Data Submission service of the EMODnet Data Ingestion portal. This service facilitates you to submit marine datasets by completing a form and uploading your data as a package. Press "Continue" to start.

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Data Submission Service

MARINE ID

Username

Password

Warn me before logging me into other sites.

LOGIN

For security reasons, please Log Out and Exit your web browser when you are done accessing services that require authentication!

[Register](#) [Forgotten password](#) [Forgotten username](#) [Change password](#)

Marine-id supports user authentication for EMODnet, SeaDataNet, Coriolis data services

- Use of **Marine-ID** for user registration and access to the Submission service

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EMODnet **Data Submission Service**

Data Submission Service

DATA INGESTION PORTAL
Wake up your data - set them free for Blue Society

DASHBOARD | WELCOME DICK M.A. SCHAAP | LOGOUT

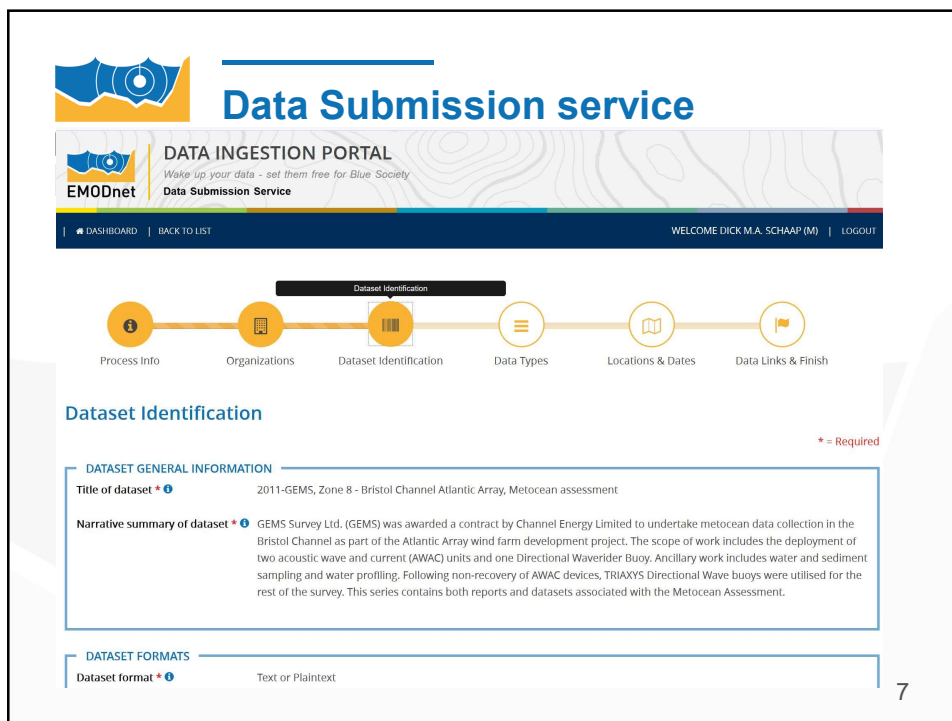
DATA SUBMITTER

DATA CENTRE

MASTER

- Dashboard with functions depending on role: Data Submitter; Data Centre; Master

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Data Submission service

DATA INGESTION PORTAL
Wake up your data - set them free for Blue Society
Data Submission Service

EMODnet

DASHBOARD | BACK TO LIST | WELCOME DICK M.A. SCHAAP (M) | LOGOUT

Process Info | Organizations | **Dataset Identification** | Data Types | Locations & Dates | Data Links & Finish

Dataset Identification

* = Required

DATASET GENERAL INFORMATION

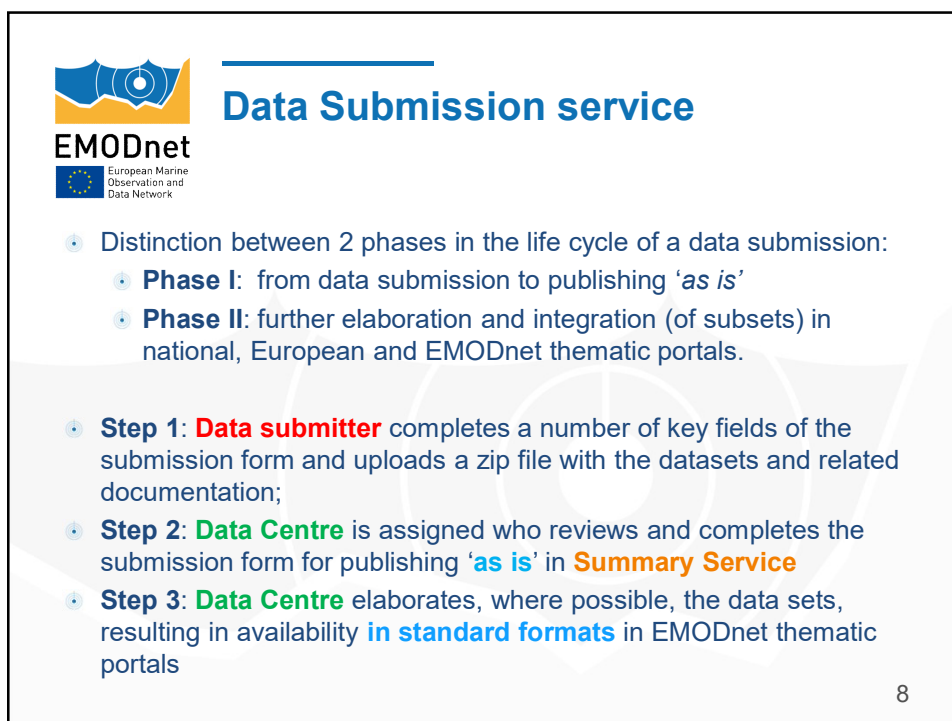
Title of dataset * 2011-GEMS, Zone 8 - Bristol Channel Atlantic Array, Metocean assessment

Narrative summary of dataset * GEMS Survey Ltd. (GEMS) was awarded a contract by Channel 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 acoustic wave and current (AWAC) units and one Directional Waverider Buoy. Ancillary work includes water and sediment sampling and water profiling. Following non-recovery of AWAC devices, TRIAXYS Directional Wave buoys were utilised for the rest of the survey. This series contains both reports and datasets associated with the Metocean Assessment.

DATASET FORMATS

Dataset format * Text or Plaintext

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Data Submission service

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- Distinction between 2 phases in the life cycle of a data submission:
 - **Phase I:** from data submission to publishing 'as is'
 - **Phase II:** further elaboration and integration (of subsets) in national, European and EMODnet thematic portals.
- **Step 1:** **Data submitter** completes a number of key fields of the submission form and uploads a zip file with the datasets and related documentation;
- **Step 2:** **Data Centre** is assigned who reviews and completes the submission form for publishing 'as is' in **Summary Service**
- **Step 3:** **Data Centre** elaborates, where possible, the data sets, resulting in availability **in standard formats** in EMODnet thematic portals

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Data Summary Service

DATA INGESTION PORTAL
Wake up your data - set them free for Blue Society

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Search [] CONTACT

ABOUT DATA SUBMISSION OPERATIONAL DATA SUBMISSIONS GUIDELINES DATA WANTED HELP PROMOTION CENTRAL PORTAL

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.

Filter Search Found 78 Show (1 - 20) < Prev Next >

Free search Results

Input string []

Date [yyyy-mm-dd]

Date from []

Date to []

Geobox

North []

West [] East []

South []

RESET SEND

Sea areas

Nutrients in Mediterranean Sea
Period: 2006-06-13 - 2006-07-01
Observation type: Nutrients

AMBER
Period: 2009-03-08 - 2009-03-14
Observation type: Isotopes, Nutrients, Other physical oceanographic measurements, Water column temperature and salinity

SIGNAL_CRUISE_1
Period: 2001-03-08 - 2001-03-12
Observation type: Isotopes, Nutrients, Other physical oceanographic measurements, Water column temperature and salinity

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Pathways and collaboration with thematic lots

- Network of data centres 'recruited' from EMODnet Ingestion and Thematic portals consortia => entered in Submission Service as DC Matrix

Ingestion Portal

Bathymetry

Geology

Chemistry


Physics

Biology

Seabed habitats

Human Activities

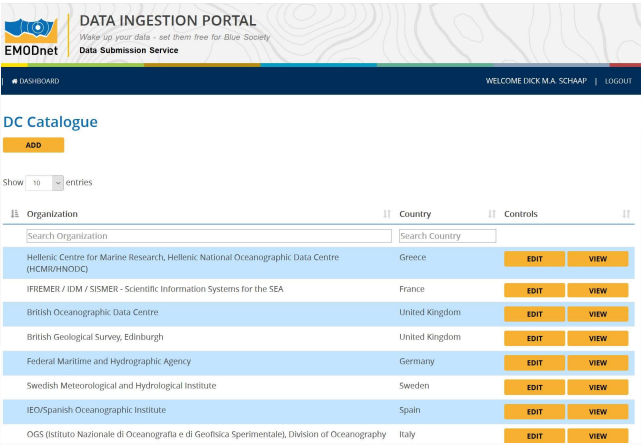
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Pathways and collaboration with thematic lots

At present **49** Data Centres in DC Matrix and more underway

Master function



Organization	Country	Controls
Hellenic Centre for Marine Research, Hellenic National Oceanographic Data Centre (HCMR/HNODC)	Greece	EDIT VIEW
IFREMER / IDM / SISMER - Scientific Information Systems for the SEA	France	EDIT VIEW
British Oceanographic Data Centre	United Kingdom	EDIT VIEW
British Geological Survey, Edinburgh	United Kingdom	EDIT VIEW
Federal Maritime and Hydrographic Agency	Germany	EDIT VIEW
Swedish Meteorological and Hydrological Institute	Sweden	EDIT VIEW
IEO/Spanish Oceanographic Institute	Spain	EDIT VIEW
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Division of Oceanography	Italy	EDIT VIEW



Ingesting operational data - NRT

ABOUT
DATA SUBMISSION
OPERATIONAL DATA
SUBMISSIONS
GUIDELINES
DATA WANTED
HELP
PROMOTION
CENTRAL PORTAL

Home / Operational Data

NAVIGATE

PILLARS UNDER EMODNET PHYSICS

HOW IS THE OPERATIONAL OCEANOGRAPHY DATA EXCHANGE ORGANISED

HOW CAN YOU JOIN THE OPERATIONAL OCEANOGRAPHY DATA EXCHANGE

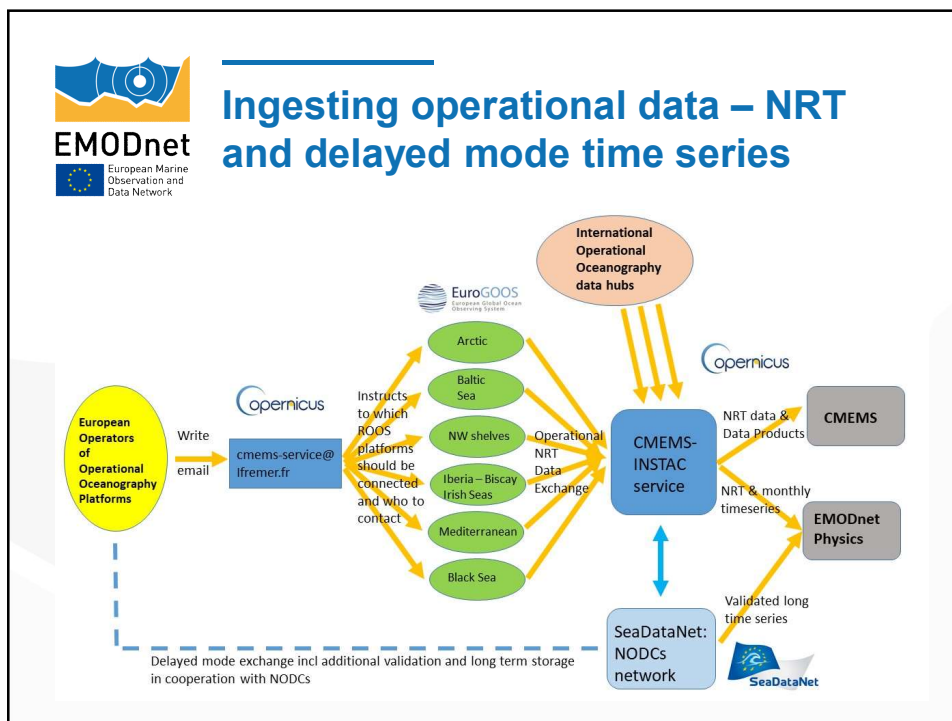
Join the European operational oceanography exchange

EMODnet Ingestion aims at making marine data part of the European data management infrastructures. This concerns marine data from the European seas and coastal waters from diverse governmental, research and private sources. It concerns data that have been collected by all kinds of surveys, campaigns, and projects.

It also concerns **operational oceanography data** that are collected by fixed and moving platforms such as fixed stations, moorings, buoys, tide gauges, surface drifters, ferryboxes, argo floats, gliders, HF radars and other platforms. These platforms generate Near Real Time (NRT) data streams which should become part of the European operational oceanography data exchange which is promoted and made accessible by means of the **EMODnet Physics portal**.





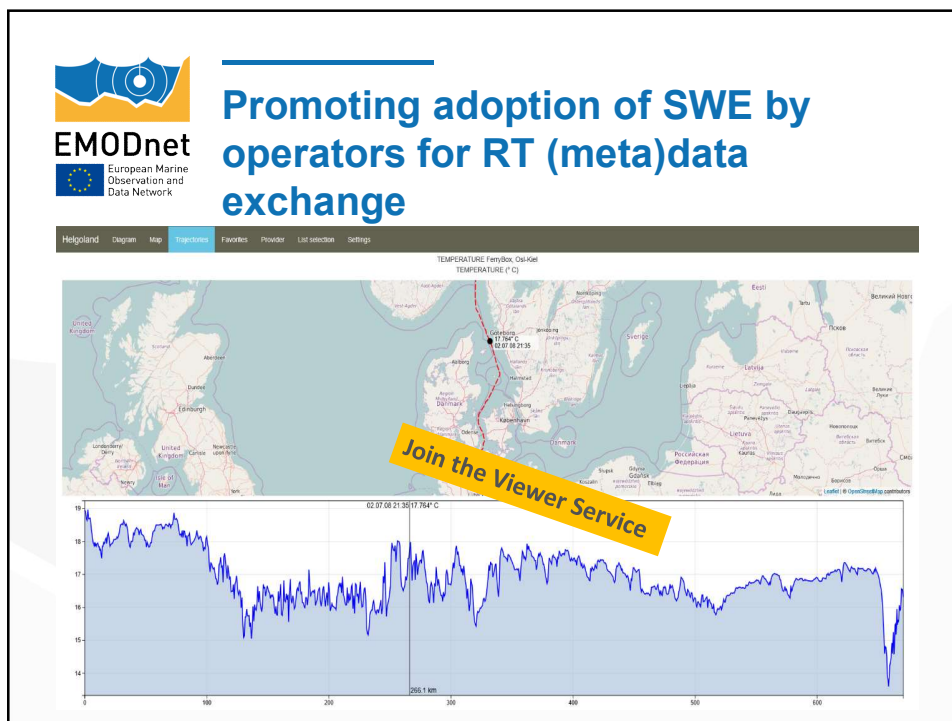


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Ingesting operational data – RT – Sensor Web Enablement pilot underway

- SWE profiles for selected platforms and instruments
- See: <https://odip.github.io/MarineProfilesForSWE/>
- Supported by controlled vocabularies
- Sensor Observation Servers (SOS) for supporting the flow of metadata and data from platforms
- **Pilot Viewing Service** for several SOS installations
- Cooperation EMODnet Ingestion and Physics

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The figure shows a screenshot of the EMODnet viewer interface. At the top left is the EMODnet logo, which includes the text 'EMODnet European Marine Observation and Data Network'. To the right of the logo is the title 'Marketing and outreach activities'. Below the title is a list of activities:

- Identify potential data sources and data providers
- Reach out to potential data providers
- Motivate data providers to participate with their data submissions
- Market and promote the Data Ingestion service and its function in the overall EMODnet scheme
- DCs as EMODnet ambassadors
- Organisation of national EMODnet days in several countries
- Promotional material: roll-out, bookmarks, poster, standard presentations, leaflets, video
- Links at all EMODnet portals

At the bottom right of the slide is the number '16'.



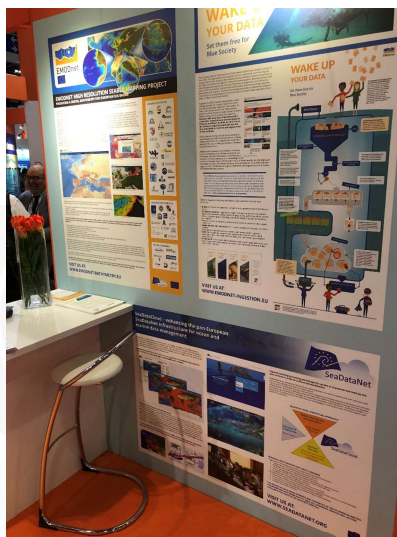
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Marketing and outreach activities



Oceanology International 2018


- Stand
- Presentations at Workshops



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Portal statistics

Month	Unique visitors	Number of visits	Pages	Hits
Apr-17	5,617	6,128	9,846	19,068
May-17	5,935	6,424	15,824	25,282
Jun-17	5,754	6,206	49,675	53,944
Jul-17	5,789	6,175	51,582	57,601
Aug-17	7,121	7,563	53,292	59,510
Sep-17	8,404	9,048	56,856	71,498
Oct-17	8,260	9,150	60,049	80,101
Nov-17	9,271	10,409	58,818	76,237
Dec-17	8,460	9,370	57,147	64,709
Jan-18	9,207	10,342	62,154	73,552
Feb-18	7,653	8,569	60,311	70,556




Status of submissions

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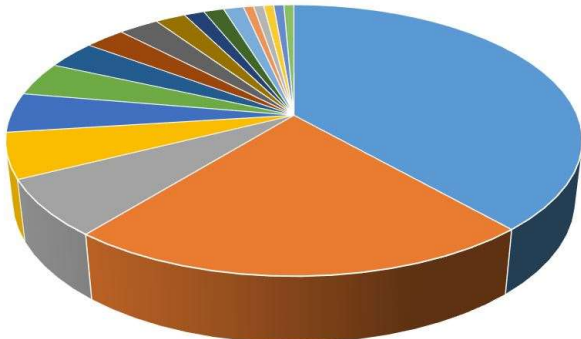
- At present **148** submissions recorded in different stages of processing
- Of which **78** published at the Summary Service (**71** 'as is' and **7** 'phase II completed')
- Majority from scientific institutes (**58**); part (**20**) from industry related to offshore developments such as surveys for new pipelines, harbours, wind farms

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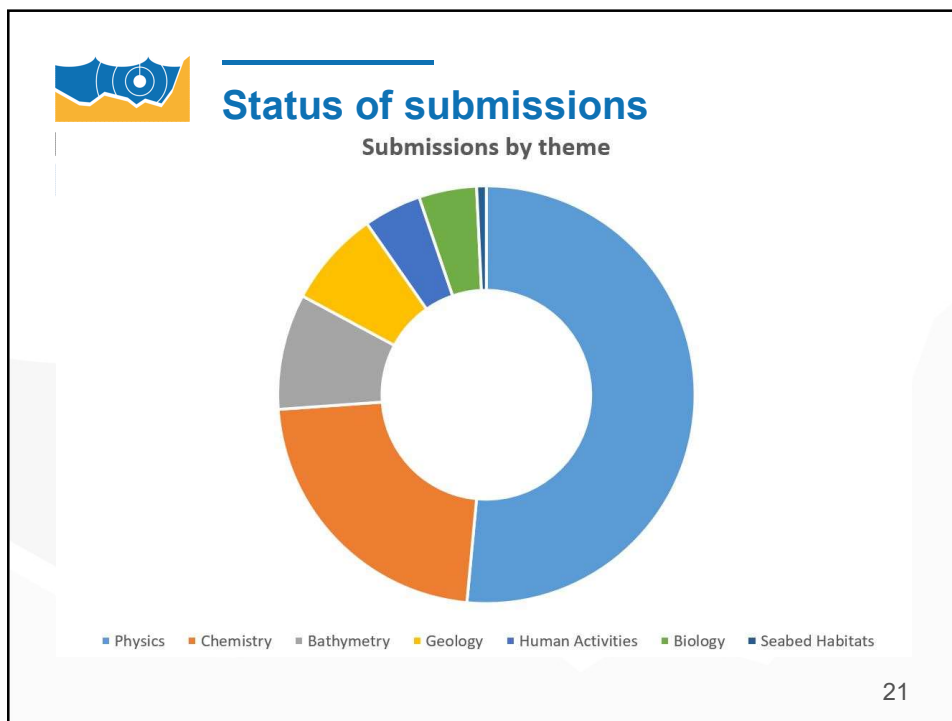
Status of submissions

Country of submitter



■ Italy	■ Georgia	■ Spain	■ United Kingdom	■ Sweden
■ Russian Federation	■ Malta	■ Netherlands	■ Bulgaria	■ Russia
■ Latvia	■ Denmark	■ Slovenia	■ Iceland	■ Croatia
■ Germany	■ Turkey	■ Norway		

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 **Project plenary coming**

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- Meeting 16 – 17 April 2018 in Barcelona – Spain
- Each country will report national activities, planned events, results, leads, and experiences
- Learning from each other and sharing best practices
- Input for 2nd annual progress report

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