


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

Progress EMODnet Ingestion

SC meeting, September 2017, Rome-Italy

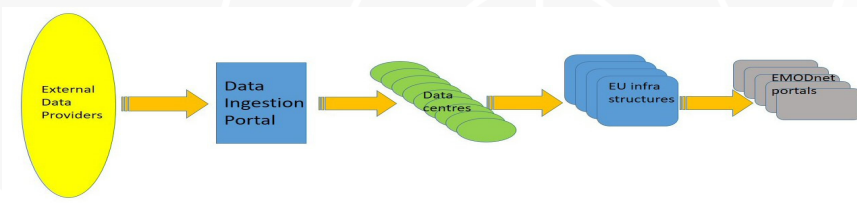
Dick M.A. | MARIS,
Schaap | dick@maris.nl

The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 509/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.



Aims

- 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

2



Development of portal and range of services

- Ingestion portal, launched in February 2017, at www.emodnet-ingestion.eu:
 - General introduction and background information
 - Data Management Guidance and related documents
 - Data Submission service for Phase I
 - User Management service (Marine-ID)
 - Help desk service
 - Operational oceanography exchange guidance
 - News
 - Use cases
 - Promotional material
 - Extranet for project members

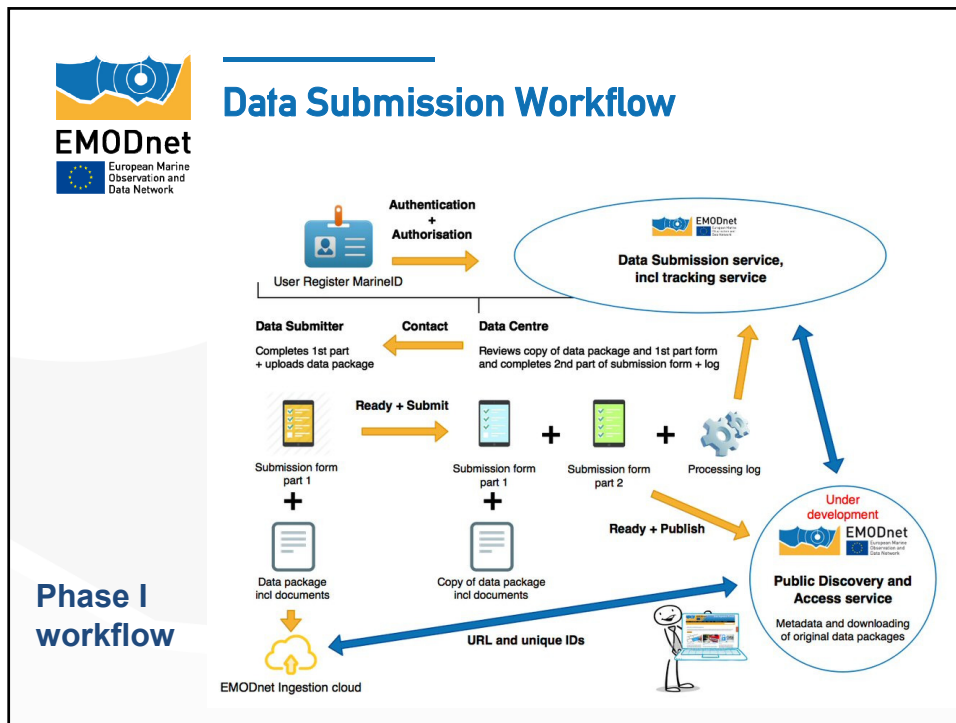
3



Set-up of Data Submission workflow

- 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.
- Completion of the submission form (ISO19115 – INSPIRE compliant model) has been split in 2 parts:
 - **Part 1 submission form:** a number of key fields to be completed by the Data Submitter, including uploading of a zip file with the datasets and related documentation;
 - **Part 2 submission form:** review of the received datasets package and part I metadata, and completion of additional metadata by the assigned Data Centre.

4



EMODnet
European Marine Observation and Data Network

Operational Ingestion portal

Data Ingestion Portal

HOME ABOUT DATA SUBMISSION GUIDELINES HELP OPERATIONAL DATA PROMOTION

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.

Submit your data

The online Data Submission service facilitates you to submit marine datasets by completing a form and uploading your data as a package. The service also provides long term stewardship and publishing for your datasets.

Check guidelines for formatting data

The wider use and processing of your submitted datasets by public users and by receiving data centres is made much easier if you apply standard formats and quality control to your datasets before submission. This option gives an overview of relevant guidelines for various marine data themes.

EMODnet
European Marine Observation and Data Network

Data Submission service

EMODnet
European Marine Observation and Data Network

Data Ingestion Portal Data Submission Service

GO TO WEBSITE

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.

Landing page Submission

EMODnet
European Marine Observation and Data Network

Data Submission service

EMODnet
European Marine Observation and Data Network

Data Ingestion Portal Data Submission Service

GO TO WEBSITE | **DASHBOARD** | WELCOME DICK M.A. SCHAAP | LOGOUT

DATA SUBMITTER

- USERS PROFILE
- DATA SUBMISSIONS

DATA CENTRE


- USERS
- DATA SUBMISSIONS
- KEY INDICATORS
- VOCAB ORPHANS

MASTER


- USERS
- DATA SUBMISSIONS
- KEY INDICATORS
- VOCAB ORPHANS
- DC CATALOGUE
- DC SPECIALISMS

Dashboard Submission

8



Data Submission service




EMODnet
European Marine
Observation and
Data Network

Data Ingestion Portal
Data Submission Service

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

Data Types



Data Types

* = Required

DATASET COLLECTION AND PROCESSING INFORMATION

Project / Programme Mobile Surveillance System for Black Sea Surface Water

Cruise 20173187


Summary of processing methodology In 2015, a vessel was purchased under the project "Mobile Surveillance System for the Black Sea Surface Waters" on which was installed modern equipment of the company SMART GARD LTD from Norway, which has the possibility, fully automated, to carry out monitoring of the surface waters of the Black Sea, taking into account the data obtained on a number of indicators of sea water, such as turbidity, conductivity, temperature, oxygen concentration, air saturation, chlorophyll. During the implementation of the monitoring activities, in connection with the conducted surveys in 2015 and 2016, a volume of data was accumulated, which are intended for common use and has free access to them on the website of the Association - <http://www.monkskivud.org> - Gallery tab. Used instrumentation: SMARTGUARD 5100-data logger AANDERAA with sensors (<http://www.aanderaa.com/productdetail.php?SmartGuard-30>). Sampling Interval: 3 minutes

PLATFORMS

Platform type self-propelled small boat (SDNL06:33)

Platform name

Submission form



Status of other planned services

- ◉ Additional services underway for launching this month:
 - ◉ Summary Records service = Public discovery and access service
 - ◉ Data Wanted service
 - ◉ Submission service – extension for phase II
- ◉ Submission service already includes:
 - ◉ Submission tracking by logs for DS, DC and M
 - ◉ Key indicators for DC and M
- ◉ Also in parallel **test** submission and summary services have been set-up for tutorials and training of DCs

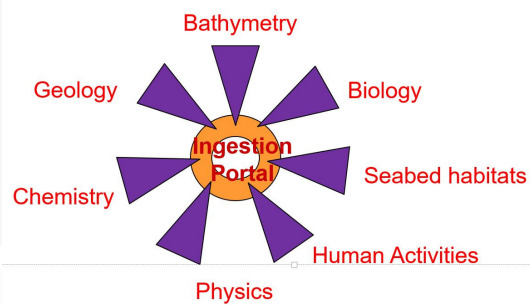
10



EMODnet
European Marine
Observation and
Data Network

Pathways and tuning with thematic lots

- Submitted metadata and data sets must be reviewed and completed by DCs for phase I and further elaborated for phase II to be fit for EMODnet uses => DCs from Ingestion consortium + thematic networks



13



EMODnet
European Marine
Observation and
Data Network

Marketing and outreach 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
- Promotional material: roll-out, bookmarks, poster, standard presentations, leaflets, video (October 2017)
- Links at all EMODnet portals

14



EMODnet
European Marine
Observation and
Data Network

Inventory of potentials and follow-up

- A guideline and template was prepared for preparing an inventory per country of potential data providers, taking into account priority topics for thematic portals
- Each DC has completed an inventory for its country.
- Inventories were bundled and reviewed at 2nd Plenary Meeting. Resulting is an overall inventory, comprising **26 countries and 466 potential new data sources.**
- DCs are following up the shopping list towards identified data providers.
- DCs are training themselves in using the Submission service and getting well acquainted with procedures and benefits

15



EMODnet
European Marine
Observation and
Data Network

Status of submissions

- At present > 30 submissions recorded in different stages of processing
- Several from scientific activities; a few related to offshore industrial developments such as surveys for new pipelines and harbours
- More efforts and submissions underway, also as part of the use cases with planning and impact monitoring for wind farms in the North Sea (Netherlands and UK sectors)
- Circa 10 submissions completed for phase publishing 'as is'
- A few already nearly completed for phase 2 publishing as part of national, SeaDataNet and EMODnet portals.
- Summary Records service will be launched soon at the portal to publish the completed submissions

16



Conclusions

EMODnet



- 1st year spent on building the portal and its range of services which are nearly all ready and operational
- 1st year also spent on:
 - establishing an organisation for the handling of incoming submissions as pathways
 - developing marketing approach, including guidance, education, and supporting promotion material
 - Compiling an inventory of potential data sources and providers
- Now full action by all ingestion DCs for reaching out and gaining momentum
- First results achieved and more coming
- However it does not come easy as it takes quite some efforts to convince and to coach potential data providers to 'pass the bridge'

17



Input needed

EMODnet



- EMODnet Ingestion should be presented at several conferences and other events which are joined by consortium members and wider EMODnet community.
- Can be by presentations – stand-alone or integrated in other thematic presentations - , posters and roll-out.
- Ideas so far: EuroGOOS, AGU, GEBCO, EuroGeoSurveys, WOC
- Other suggestions?

18

