

Meeting minutes of 16th EMODnet Technical Working Group - Autumn 2024

In person meeting: DG MARE, Brussels

Date: Tuesday 8th October 2024 (09:00-17:30h), all times in Central European Time

Meeting Chair: Zoi Konstantinou (EC, DG MARE), Conor Delaney (Technical Coordinator, EMODnet Secretariat)

List of Participants: See Annex I

1 Actions list – To be tracked in JIRA

Action	Description	Status	Who?	Remarks	JIRA
1	TWG updated Terms of Reference: edits to be provided to the Secretariat feedback by the end of October.	Ongoing	Conor Delaney		
2	The EMOD-PACE layers are to be removed from MapViewer as the servers are no longer active.	Done	Bart Vanhoorne		EM-1025
3	MapViewer: thematics to review the new update and let the CP_Team know if they notice any bugs/issues or need further improvements	Ongoing	Joana Beja		
4	Content rationalisation: start by removing older content, example reports older than 2015 and news	Ongoing	Nathalie Tonné		
5	Bathymetry to create Jira tickets on these as they are relevant features for the next release	Ongoing	Dick Schaap		
6	Secretariat to assess what could be the best solution to publish this kind of content (i.e. not Use Cases) and propose it at the closed SC meeting	Ongoing	Nathalie Tonné		EM-1022
7	Chemistry lacking contaminant units, Secretariat to create a Jira ticket on this	Ongoing	Sissy Iona/Conor Delaney		EM-1026
8	Layer order in viewer, Human activities to create a Jira ticket for it.	Ongoing	Nick Earwaker		
9	Human activities to create a Jira ticket and tag Physics so they make the same implementation	Ongoing	Nick Earwaker		
10	Secretariat. to create a Jira ticket and provide guidelines on how to find the ECAS userid	Ongoing	Nathalie Tonné/Kate Larkin		EM-272
11	Feedback from DG Mare. Almost 1.3% of not found pages on the EMODnet website (almost 3000 entry pages). Create a Jira ticket on this so we can assess this	Ongoing	EMODnet Secretariat		EM-1023

Action	Description	Status	Who?	Remarks	JIRA
12	Secretariat to follow up on work by Tim Collart to fix dead url links on the EMODnet Portal	Ongoing	Nathalie Tonné/Kate Larkin		EM-1024

2 Meeting Minutes

2.1 Welcome & introduction (Zoi Konstantinou (DGMARE) & Conor Delaney (EMODnet))

The 'Terms of Reference' to be tabled for review (**Conor Delaney (EMODnet Secretariat)**) - Shared with the TWG in advance - **Doc4_TWG_ToR_2024_XVI_Meeting_v20240927** .

- **Conor Delaney** explains the updates to the ToR and who has proposed changes
 - Currently only some administrative updates from VLIZ

ACTION 1: Edits and feedback to be provided by the end of October 2024.

2.2 Update and progress since previous TWG (Secretariat, VLIZ)

2.2.1 Action list from 15th TWG

Conor Delaney (EMODnet Secretariat) ran through the previous (15th) TWG meeting Action List.

Action	Description	Status	Who?	Remarks	JIRA
1	PDFs of all TWG presentations to be sent via email to the thematic lots.	Done	Conor Delaney		
2	With respect to MetaGIS ID for layers, Bart Vanhoorne indicates that it could be another possibility to do have links with UUID (easier for thematics), but convert it to MetaGIS ID's on the VLIZ side. The JIRA ticket on this will be updated.	Done	Bart Vanhoorne	See latest mapviewer	<u>EM-657</u>
3	All lots to review their services and products by the next TWG.	In Progress	All lots to be managed by the CP_team	Tracked via JIRA	EM-960
4	For future reference, the Secretariat and Chemistry to document the process of publishing eutrophic products.	To Do	Frederic Leclercq & Tim Collart		EM-994
5	Alessandra Giorgetti to add here review of the GeoNetwork interface to the existing Jira Ticket	Done	Alessandra Giorgetti		EM-533

Action	Description	Status	Who?	Remarks	JIRA
6	Conor Delaney to follow up with George Spoelstra on converting the HR DTM to netCDF and implementing the download from ERDDAP and the viewer	Done	George Spoelstra and Conor Delaney	Download mechanism has yet been deployed.	EM-958
7	User guide to the EMODnet Portal. This is to be a collaborative effort involving the CP_team and the thematic lots.	To Do	Conor Delaney & Nathalie Tonné	More content has been added to the FAQ.	EM-959
8	Challenge of presenting attributes from complex datasets: Human Activities need more filters to the map viewer. They will create a Jira ticket	For Discussion	Nick Earwaker	See task 9	
9	Challenge of presenting attributes from complex datasets: Joana Beja indicates that there are conflicting requests coming from the thematics. The CP_team will collate information on this issue so that an informed decision can be made.	Closed	Joana Beja	No changes made, users need to select only one filter for the data to be displayed. This decision can be reviewed in the future if deemed necessary	

2.2.2 JIRA overview and usage (Tim Collart, EMODnet Secretariat),

Shared with the TWG in advance - [Doc5_EMODnet_16TWG_JIRA_pdf](#)

- Shared beforehand and not presented in the meeting.

2.2.3 OGC service monitoring Update and INSPIRE compliance and updates (Tim Collart, EMODnet Secretariat)

Tim Collart reports that:

- For the continuous monitored services, all services have a service metadataURL;
- All layers should have a datasetURL and dataURL, this is an ongoing task;
- Physics has added ncWMS service and there were some issues to find the metadataURL as it's not similar to other OGC services, but all is in place;
- Continuous services quality monitoring (Jira EM-140);
- All services meet the INSPIRE threshold, one failing, but SBH is working on making this more robust;
- One service failed on the availability, due to the ICES problems earlier in the summer.

ACTION 2: Hide the EMOD-PACE SERVICE which has been down frequently.

2.3 Updates from Central Portal technical team on Centralization progress.

2.3.1 Updates to the map viewer and portal since the last TWG (Joana Beja (VLIZ)/Conor Delaney (EMODnet Secretariat))

Shared with the TWG in advance - Doc6_EMODnet_16TWG_MapViewer_updates_pdf

Conor Delaney reports that:

- May 2024 map viewer release was not accepted as some things were not implemented properly. These have now been solved.
- With this release, everything that was on the wish list from the thematics was covered.

ACTION 3: Thematics to review the new update and let the CP_Team know if they notice any bugs/issues or need further improvements.

- There is a ticket on the viewer load speed. This is due to the size of the configuration file that has all information the layers and needs to be downloaded, but there are plans to cache & compress the configuration file;

Antonio Novellino (EMODnet Physics) indicates that the CORA layer is not currently working, no JIRA ticket had been opened prior to the meeting to report this issue.

- Map viewer release plan:
 - One more fully managed release next year (i.e. developed by Bilbomatica).
- Community development plan:
 - Once we move to the open-source, Bilbomatica and CP team will support development efforts by the EMODnet community.
- Tender specifications will have some updates regarding progress monitoring:
 - Full automation of performance indicators where possible. Thematics should facilitate this process.

2.3.2 EMODnet Ingestion centralisation (Joana Beja (VLIZ)/Conor Delaney (Secretariat));

Joana Beja reports that:

- Catalogue of Ingestion is now in the Central Portal.
- Ingestion Map viewer layers are active and functioning.

2.3.3 Metadata review process – (Tim Collart (EMODnet Secretariat))

The document has already been shared with TWG)

Tim Collart reports that:

- EMODnet needs to improve how metadata is exposed to user: download options, license requirements;
- EMODnet catalogue is being harvested by other catalogues, so errors get propagated;

- EMODnet needs to prioritise metadata fields important for use and access to EMODnet products;
- The Format metadata is only populated for 43% records, at least one format should be specified either INSPIRE media types or SDN data transport format vocabulary;
- Various changes are requested for the distribution information and legal constraints;
- Metadata change requests progress will be included in the report assessment documents;

Uffe Larsen (EMODnet Geology) mentioned it should be possible to change the interface of the Geology records. They don't use GeoNetwork, so they will need to make some changes in their system in order to comply with this request.

Joana Beja (EMODnet Biology) requested a standard approach on how we make a citation available in the metadata records

Tim Collart (EMODnet Secretariat) mentioned they can go on the Limitations on Public Access as it is a free text field.

Eugenia Molina (EMODnet Chemistry), Antonio Novellino (EMODnet Physics), Dick Schaap (EMODnet Bathymetry) agreed that citation and license should be kept in separate fields, not merged together:

- **Eugenia Molina** mentioned that information on point of contact is not consistent with the original record. Which field is being harvested so that the information is consistently shown;
 - **Tim Collart** mentioned there's a ticket for how information is being rendered on GeoNetwork, or we can make a new ticket.

2.3.4 Move to Drupal 10 & ECAS login update (Bart Vanhoorne (VLIZ))

Bart Vanhoorne shows:

- Update on switch to Drupal 10:
 - Latest DRUPAL, is being kept up to date (security);
 - Uses the OpenEuropa theme;
 - GeoNetwork, Mapviewer and soon Ingestion are running on it.
- Ingestion:
 - Submission platform application has been split in back-end and front-end (on CP);
 - Authentication and authorisation are being changed to EU Login.
- Update to CP catalogue:
 - New GeoNetwork update to version 4.x is coming in 2025;
 - Will move to using latest version of GeoNetwork instead of continuing to use a customized version as this caused many issues;
 - It will be Docker based, and there will be continuous updates (for security reasons);
 - Is needed for a good machine to machine interface with support for several standards (e.g. DCAT required for EU OpenData, Schema.org-json-ld for Ocean Info Hub);
 - Will allow a better user interface that is more customizable (allowing to properly render links and citation, license information).

2.4 Item on the page rationalisation of EU domain websites and how it can affect EMODnet? (Conor Delaney (EMODnet Secretariat)).

Conor Delaney explained the information coming from the Commission in the need to rationalise content across all EC websites.

Zoi Konstantinou (DG Mare) mentions that it's not affecting us at the moment, but that we'll have to make an assessment of pages and make a reasonable reduction, with a general understanding that pages will be added in the future;

Kate Larkin and Nathalie Tonné (EMODnet Secretariat) have reviewed the existing EMODnet static content and what could be removed/rationalised;

ACTION 4: Zoi Konstantinou suggested that we might hide older content, example reports older than 2015 and news

- **Jona Beja (EMODnet Biology)** indicates that they need some additional pages created due to project requests (e.g. JRC project on Biodiversity Monitoring Harmonisation Methods);
- **Zoi Konstantinou** indicates that some increase in pages can be explained as it is part of our operations. However, some pages that are no longer relevant, or are creating clutter, we should do our best effort to reduce these.

2.5 Presentation on the collection of metrics for reporting (Nathalie Tonné (EMODnet Secretariat))

Already shared with the TWG - Doc7_EMODnet_16TWG_ReportingIndicators_pdf

Nathalie Tonné discusses:

- The new Indicators as described in the new EMODnet contracts;
- The Secretariat plan for improving metric collection.

2.5.1 Update on usage tracking through ERDDAP/GeoServer (Bart Vanhoorne (VLIZ))

Bart Vanhoorne updates the TWG on latest developments in the development of tools to collect download metrics:

- Currently downloads statistics are collected by the thematics in different ways. The aim is to make this centralized, architecture diagram is shown (based on Beats, LogStash, Elasticsearch, and Kibana);
- Thematics will have to install a small Beats application that will transfer the logs of their GeoServer/ERDDAP to the Central Portal reporting dashboard. Clear instructions will soon be sent to the Lots;
- Aim to have a working proof of concept in early 2025;
- The centralized approach will allow us to collect information of visits per layer;
- The thematics already have some of these tools in place, but the aim of the new monitoring is to automate the usage stats collection and centralize them, making reporting easier for all the thematics;

Question from EMODnet Geology: We use a custom TomCat app for serving downloads, how will you get stats of that.

- **Bart Vanhoorne** replies: Initially we will focus on Geoserver/Erddap and thematics will be responsible for extracting usage stats for custom tools.

Question from EMODnet Physics. They want statistics from the Central Portal as well, not just provide their own usage stats.

Question from Carlos Cerezo (DG Mare), why not use the Europa Analytics to get stats on layers:

- This is also planned, but it will only catch the use of the frontend while a lot of EMODnet users are using the Machine to Machine services which will not be covered by the EA stats. Therefore, it is important to monitor the backend services as well. This will also allow to get download volumes (not available from front end stats);
- **Carlos Cerezo** indicates that we need to implement anonymisation of the stats collected by this tool in line with the IDPR.

10:30 - 11:00

3 Technical Updates from EMODnet Thematics and Data Ingestion (All Coordinators)

Technical Updates from EMODnet Thematics & Data Ingestion and EMODnet Product discussion on what should be the goal in terms of usability of EMODnet products (All Coordinators) - 30'

3.1 Bathymetry (Thierry Schmitt, EMODnet Bathymetry)

Dick Schaap (EMODnet Bathymetry) presents on behalf of Thierry Schmitt:

- He gives an update on the current status of CDI entries and Composite DTMs (CPRDs);
- They added the Central Portal to their data flow schema;
- They are making progress towards the 2024 DTM update:
 - Meeting in early December to plan the release and reporting;
 - Early 2025 will be released:
 - Full DTM;
 - HR DTM (some additional ones);
 - Coastline product;
 - Inventory of Official Coastline.
- Dick Schaap covered the outstanding Jira tickets;
- Some feedback from PANGAEA and a number of CDIs from PANGAEA are added;
- 1st data delivery by FUGRO has been made;
- Ongoing discussion with GEBCO on seabed 2030. Several workshops are held where consortium members are chairs. GEBCO is more and more inclined to adopt the metadata approach of EMODnet Bathymetry;
- EDITO-INFRA, small subcontract to add the bathymetry products;

- Remaining wishes for central portal:
 - Download tools from ERDDAP:
 - GeoTIFF is still missing;
 - Too many non relevant formats provided.
 - Depth average:
 - Current getfeatureInfo only gives average not statistics;
 - This can be customized by bathymetry and rendered the way they want it.
 - Need for metadata catalogue customization. This was presented previously.

ACTION 5: Bathymetry to create Jira tickets on these as they are relevant features for the next release.

3.2 Biology (Joana Beja, EMODnet Biology)

Joana Beja updates the TWG on latest developments from EMODnet Biology:

- Update on data publications (1 data harvest per quarter, 2 since last TWG):
 - Black sea, Arctic and Mediterranean continue to be lagging behind in terms of data.
- Update on data products:
 - Paper to Marine Policy Journal submitted and reviewers comments received;
 - 4 external products from were published:
 - Mission Atlantic;
 - Naval undersea warfare centre division;
 - 2 from CEFAS.
- Update on deliverables:
 - Integration of OMICS (DNA derived) data in EuroBIS database to happen soon, required technical changes to the database and publication procedures;
 - There will be a workshop with representatives of EU research projects to provide them information on how the data should be handled for submission to EMODnet Biology to simplify the process;
 - Some phase 4 products in the map viewer will be replaced by phase 5 products.
- Challenges:
 - Biodiversity product for publication in CP is not straightforward;
 - Complicated process to publish through GeoServer/ERDDAP (whose documentation does not align with what was implemented in these two systems);
 - They publish in netCDF but CF convention is not fully compliant as there are no standard names for biological parameters. They have documented how to handle these in their GitHub <https://emodnet.github.io/EMODnet-Biology-products-erddap-demo/>.

11:00 - Coffee Break 11:00 - 11:30

3.3 Data Ingestion (Dick Schaap, EMODnet Data Ingestion)

Dick Schaap presents the latest updates from Data Ingestion:

- Update on the migration to the central portal;
- Viewing service has been integrated in the Central portal Catalogue:

- The citation information is not properly published in the Catalogue;
- Some issues on how to improve the catalogue.
- Submission service:
 - Front end developed from scratch to run on the EU Central Portal;
 - API developed to access the backend running on the ingestion cloud infrastructure;
 - AAI migration to ECAS has been quite a challenge but prototype in place, currently waiting for permission from the EC to access the EU Login acceptance;
- New items- Use cases. They added a use case about data going in (from Eurofleets) but this was not published as use cases are about use of the EMODnet data:

Zoi Konstantinou (EC, DG MARE) indicates that we should consider the work of Ingestion separately from the thematic (as it is not a use case). We should however publish this under a different category. e.g. success story/achievement?

Dick Schaap indicates that this is important as they want to promote what they are doing to encourage others;

ACTION 6: Secretariat to assess what could be the best solution to publish this kind of content and propose it at the closed SC meeting.

3.4 Chemistry - (Eugenia Molina, EMODnet Chemistry)

Eugenia Molina presents the latest updates from Data Chemistry:

- 21 new contaminants maps:
 - Metadata is in the catalogue;
 - Layers are in the process of being added to the viewer:
 - aggregated measurements counts;
 - aggregated monitored matrices;
 - contaminants in marine organisms.
- Units have been added to the legend of the central portal viewer;
- Currently the collections are not interoperable, but they are working on publishing them in an ERDDAP instance as TABLEDAP datasets:
 - File formats from ODV export: NetCDF4 and ASCII;
 - They still need time to code the configuration of the ERDDAP instance;
 - Propose to host it as subdomain of emodnet-chemistry.eu;
 - They need to add a WMS service on the viewer:
 - ncWMS is integrated with ERDDAP for GRIDDAP but not for TABLEDAP.
- Update on sextant metadata catalogue:
 - working on fixing a bug when many contacts are added into the catalogue.
- Work in progress:
 - Getting statistics from the downloads;
 - Working on create seafloor litter data from images;
 - Improving the QA/QC methods (doi links in CDI & Zenodo);
 - Findability of new substances in the data access system (emerging contaminants).
- Wish list:

- Better interface for product catalogue. The thematic will create a JIRA ticket on this;
- Some requests for the viewer. They will verify if it is fixed in the new version of the viewer and update or add Jira tickets.
- Question on the new contaminants layers:
 - There is no specification of unit value in the metadata XML or the shapefile.

ACTION 7: Chemistry lacking contaminant units, Secretariat to create a Jira ticket.

3.5 Geology – (Uffe Larsen, EMODnet Geology)

Uffe Larsen presents the latest updates from EMODnet Geology:

- A review of the usability of the products, grouped by user tickets:
 - Problems with downloads (4 tickets listed):
 - Some download links were broken mostly because of server being overloaded (high CPU and memory usage), this is now solved;
 - Some users could not find the download button (zip file has additional information to what is shown in the WFS service). Perhaps it can be emphasized where people can find this (add a download icon next to the layer?).
 - Problem with understanding data (2 tickets):
 - Data in the zip file is not clear to the users. Perhaps the metadata should be more comprehensive.
 - How to use WMS from QGIS (2 ticket);
 - Problems with metadata (1 ticket).
- Suggestion to add a link to the FAQ page from the viewer to make it more clear to the users what the different download options are;
- New architecture proposed for EMODnet Geology:
 - Adding a GeoNetwork in between EGDI and the EMODnet Catalogue (not used for editing, this will still be done in EGDI);
 - Geology have moved FTP servers to NextCloud (running on their own infrastructure);
 - The GeoNetwork is still on the old server to avoid having to change all the UUID's, which are in Metagis (of the map viewer).

3.6 Human Activities – (Nick Earwaker, EMODnet Human Activities)

Nick Earwaker presents the latest updates from EMODnet Human Activities:

- Reviews on how layers are presented:
 - Structure is clear. The sub-theme introduction in the map viewer is definitely an improvement;
 - Alphabetical sorting the layers is sensible. It would be an improvement if there was flexibility to define layer order in the viewer.

ACTION 8: Human activities to create a Jira ticket on layer order.

- Layer styling:
 - They need to review the styling of their layers;

- Point features at small scales unclear. They used to aggregate this and give a count (not currently possible in the map viewer);
- Small polygons to show as point at smaller scale to be implemented where necessary on other data layers.
- Attribute information (GetFeatureInfo):
 - They use HTML templates to give an overview with descriptive labels;
 - Data not available shows in a consistent way;
 - They add footnotes onto the pop-up;
 - Some datasets return a lot of information that is hard to make sense of.
- Filtering
 - Just one filter per layer, usually the data classification attribute;
 - User may want to drill down further to get a specific picture of the data, for this the filtering should be expanded;
 - They want some filters based on user input (e.g. value > or <). This is similar to what physics is doing. This can be done via a json file that contains the standard specification.

ACTION 9: Human activities to create a Jira ticket and tag Physics so they make the same implementation.

- Vessel density:
 - Time series animation works well;
 - Download needs to be implemented for the user to get a subset of the data (Human activities to provide netcdf file to facilitate this).
- Data Availability:
 - How to indicate that data is not available. How communicate that to the user:
 - We could update the message you receive in the getfeature info when you click on an empty area.
 - Some datasets that are not included in the viewer.

3.7 Seabed Habitats – (Helen Woods, EMODnet Seabed Habitats)

Helen Woods presents the latest updates from EMODnet Seabed Habitats:

- New data layers on the viewer:
 - MSFD benthic broad habitat types and HELCOM HUB layers;
 - Reference layer of all individual models of specific habitats.
- Data upload September 2024 - 63 new datasets;
- End of year 1 - deliverable summarising all data uploaded;
- Have been working with EMODnet Biology;
- EDITOinfra input:
 - Tricky as they have a lot of vector datasets.
- Usability of products:
 - Balance to strike between catering to different types of users (more or less technical).
- Technical improvements:
 - Vocabularies should be updated to the new EUNIS classification. The EEA published the previous version, so it would be good if they can also update the new classification;
 - Geoserver improvements:

- Still working on improving performance and datasets that are causing the issues.
 - Metadata standardisation is needed;
 - Tools to data use or processing:
 - Tool to spatially simplify EU SEA MAP;
 - There is a need for user feedback.
- Other improvements:
 - Improvements to products based on feedback;
 - Communication and outreach to users so that they can select the most appropriate product for their use case;
 - They have some data gaps:
 - Geographic gaps;
 - Restricted data (marked as view only, to be revisited if some of these can be made available as well).

Comment from Zoi Konstantinou (EC, DG MARE). On requests EMODnet receives from EC related agencies. EMODnet is a complicated structure, where everyone represents their own organisation and EMODnet. There is a chance that within the framework of EMODnet, you will receive requests from other EC agencies. DG Mare needs to be kept in the loop. In case the request is out of the context of the EMODnet contract, ideally a dialogue with DG MARE is first established before responding to the EC agency.

3.8 Physics – (Antonio Novellino, EMODnet Physics)

Antonio Novellino presents the latest updates from EMODnet Physics.

- Ongoing work:
 - Continuing work on creating data collections in ERDDAP. This is published together with the configuration of the filter through the central portal viewer;
 - For the ingestion layers, they need to fix a bug in the filter;
 - Need to improve the performance of the animation for layers with many timesteps. This is done but to be tested by Physics.
- Update on the service status showing the number of platforms and the continuous data flow:
 - They want to provide user statistics, at the platform level, back to the data providers so they can use it to secure funding for keeping the platform operational;
 - They have a number of biogeochemical parameters which would be better fitted in other thematics (e.g. chemistry, biology):
 - They are available in Physics in the in-situ platform layer. But the data can be included in the other thematics for creating products/collections.

Comment from Zoi Konstantinou (EC, DG MARE). agreed that this is a suitable approach.

- Service evolution:
 - They are working on collections;
 - Updating or removing obsolete products;
- Plans:
 - Update geonetwork;

- Include more in situ data collections in the CP geoviewer;
- improve performance of in situ data pages;
- Update products.
- **Wishlist**
 - User guide on the CP viewer. FAQ page is there, maybe a link in the viewer page would help users;
 - Implement EA monitoring with segments on the geoviewer to understand interaction on the products:
 - This has been analyzed by Trust-IT;
 - High level candidate for new feature in the next map viewer release.

Comment from Carlos Cerezo (EC, DG Mare) On the feedback survey this is currently in EU Survey and we should continue to use it. For the existing forms with personal data, request form COMM to remove after 6 months.

4 Review and discussion on the status of EDITO - (Frederic Leclercq, VLIZ)

Frederic Leclercq presents the latest updates from EDITO Infra:

- The summary is shown of the EMODnet dataset copied natively into the EDITO data lake;
- Some datasets have been integrated as ARCO parameters;
- The URL to the STAC (Spatio Temporal Assets Catalog) Catalogue: [https://s3.waw3-1.cloudferro.com/emodnet/;](https://s3.waw3-1.cloudferro.com/emodnet/)
- Next phase of EDITO will start early 2025:
 - Proposal is being drafted;
 - Thematic have the possibility to input some ideas (**by 21st of October**):
 - Input should be on how to streamline the flow & synchronization from EMODnet data into EDITO.
 - Limited to Moi/VLIZ & SSBE, this is to ensure there can be budget for the thematics;
 - There will be an advisory board:
 - Allow lots to provide input on technology and content.
 - Budget for thematics will be larger than in the next phase.

Comment from Kate Larkin (EMODnet Secretariat), Open Sea Lab will be able to see how users use the EMODnet data on EDITO and how to best cater to this user community.

Comment from Dick Schaap (EMODnet Bathymetry), he indicates that for Bathymetry, there is a lot of modellers using it (Deltares, MET office, CMEMS) and they provide feedback on areas with issues which can then be fixed. Having a way to streamline updates to the DTM on EDITO would be a good use case.

5 Discussion of the steps needed for the lots to take responsibility for the functioning of the Central Portal (Nathalie Tonné, EMODnet Secretariat)

Nathalie Tonné presents:

- Thematics get a Drupal user a/c to edit static; content

- Now we have to use ECAS to login to the Drupal platform which hosts the EMODnet portal;
- Each of the thematic need to make an EU LOGIN account associated with the same email as they had a user account for the Drupal and provide their ECAS User ID;
- Thematics will get editor permission on the static content. Content will be moderated by the Secretariat to ensure the content meets the EC guidelines;
- Timeline: This can be done by Christmas 2024
- Thematics take ownership of development of viewer;
 - Expected to take place once the last viewer release by Bilbomatica is delivered. It might take some time for lots to actively contribute to development
- Thematics get metagis user a/c to publish their own data.
 - This will be an objective to reach after 2027

ACTION 10: Secretariat to create a Jira ticket and provide guidelines on how to find the ECAS userid.

Question from Antonio Novellino (EMODnet Physics). Can we add a widget to the Central Portal?

EMODnet CP team replies: Yes, biology has done so with the commission's web tool based on the Highcharts JS library: <https://ec.europa.eu/component-library/v2.39.0/ec/resources/webtools/>.

Question from Uffe Larsen (EMODnet Geology): Can a thematic have multiple editor accounts (for different people)?

EMODnet CP team replies: Yes, this will be possible.

6 Review of the status of the MapViewer and discussion on proposed features (Joana Beja, VLIZ)

Joana Beja presents:

- Projections now have friendly names (Not just EPSG codes);
- Metadata and download buttons in info box are now fixed and users don't need to scroll down to see them;
- Physics Animation now works;
- Issue identified by Chemistry. Users tries to download data outside the bounding box it would return an error. This has now been fixed (the request is revised to the bounding box of the data);
- CQL filter possibility has been added;
- Layer share button now uses the UUID so thematics can add links form the metadata to the layer loaded in the viewer. Please do check the Jira ticket (EM-657 - Investigate if the share map functionality in the viewer can use the metadata UUID to identify the layer (rather than the MetaGIS ID) In Review) as there are some additional considerations in case the metadata to layer mapping is not 1 to 1.

7 Review and discussion of the status of the EMODnet Portal Static content. (Conor Delaney, EMODnet Secretariat)

Conor Delaney presents:

- A full review of the content of the Central Portal was done. Secretariat are waiting for additional instruction from DG MARE/DG COMM on how much needs to be reduced;
- Secretariat has analysed how to optimize the menu's (e.g. solutions tab only has use cases under it, this may be a good place to add the "success story");
- FAQ downloads menu needs to be expanded with more comprehensive help;
- Feedback from Carlos. Almost 1.3% of not found pages on the EMODnet website (almost 3000 entry pages).

ACTION 11: EMODnet Secretariat to create a Jira ticket on this so we can assess this.

ACTION 12: Nathalie Tonné (EMODnet Secretariat) Secretariat to follow up on work by Tim Collart to fix dead url links on the EMODnet Portal.

8 Review and discussion of the status of the EMODnet Portal Catalogue content (Conor Delaney, EMODnet Secretariat)

Conor Delaney presents:

- Catalogue will be updated to GeoNetwork v4.x and this will allow for the development of a new interface;
- Conor Delaney listed a list of issues flagged by the thematics:
 - Download button in the GeoNetwork catalog records only returns metadata , should be renamed so it's clear to users;
 - The filter tags need to be revised based on feedback of thematics;
 - Information in one page, instead of hidden under different tags;
- Timeline:
 - Aim for early 2025.

9 AOB

- Feedback on how the meeting was organised (with sharing documents beforehand)
 - Dick indicates that it was a more interactive TWG

10 Wrap up, actions, next meeting and EMODnet conference.

- The Secretariat will contact the TWG about selecting the date of the next meeting. The next meeting will be virtual.

TWG Session Closes at 15:30

11 Annex I: List of Participants

EMODnet Thematic portal	Participant	Affiliation
HRSM/Bathymetry	Thierry Schmitt	SCHOM (remote)
Geology	Ulla Alanen	GTK, Finland
	Uffe Larsen	GEUS, Denmark
Seabed Habitats	Helen Woods	JNCC, UK
	Ville Karvinen	Syke, Finland
Chemistry	Eugenia Molina	OGS, Italy
Biology / Central Portal	Joana Beja	VLIZ, Belgium
Physics	Antonio Novellino	ETT Italy
Human Activities	Nick Earwaker	Lovell Johns
Data Ingestion	Dick Schaap	Maris, Netherlands
Central Portal	Frederic Leclercq	VLIZ, Belgium
	Bart Vanhoorne	VLIZ, Belgium
EMODnet Secretariat	Kate Larkin	Seascope Belgium (SSBE)
	Conor Delaney	Seascope Belgium (SSBE)
	Tim Collart	Seascope Belgium (SSBE)
	Nathalie Tonné	Seascope Belgium (SSBE)
	Matteo Mikos	Seascope Belgium (SSBE)
	Jan-Bart Calewaert	Seascope Belgium (SSBE)
EC, DG MARE	Zoi Konstantinou	DG MARE A1
	Carlos Cerezo	DG MARE A1
EC, CINEA	Fabrice Pourceau	CINEA
	Juan-Carlos Fernández Gomez	CINEA