EMODnet Thematic Lot n°1 -Bathymetry

EASME/EMFF/2019/1.3.1.9/Lot1/SI2.836043

Start date of the project: 20/12/2020 (24 months)

Centralisation Phase

Quarterly Progress Report (8)

Reporting Period: 01/10/2022 – 31/12/2022

Contents

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1. Highlights in this quarter

Task 1: Maintain and improve a common method of access to data held in repositories

During the reporting period, the number of survey data sets has increased by new contributions of 6 data providers from 41252 to 41315 CDI entries while the number of Composite DTM entries has increased from 269 to 274. The new Composite DTMs have been added as these data files have been used in the production of the new 2022 DTM. That release is planned by end of February 2023, once the Central Portal migration has been finalised and there is room for adding the new DTM release and its associated products and services. The reporting quarter marks the finalisation of the contract. However, the EU has informed the consortium that the contract will be continued for another 2 years. Therefore, data providers will be asked to start gathering again new data sets, both surveys and composite DTMs for inclusion in the future 2024 DTM release. Data providers have also finalised preparing and populating into Sextant additional HR-DTMs, which now counts at 265 HR-DTMs of which 245 are published as part of 2020 DTM release. The 20 additional HR-DTMs will be processed in January 2023 by the Integrator and then included in the updated HR-DTM layer as part of the planned release of the 2022 EMODnet DTM.

Task 2: Construct products from one or more data sources that provide users with information about the distribution and quality of parameters in time and space

During the reporting period, the Integrator has made great progress with validating and integrating all the 12 regional DTMs as received from their regional coordinators. The integration will be finalised in January 2023, once all layers and source references have been checked. The 2022 DTM is composed of 150 composite DTMs CPRDs and 19031 CDI entries, compared to respectively 122 and 16243 earlier in the 2020 release. The quality of the grids received from the regional coordinators is recognised to be better compared to the 2020 release. One of the reasons of this finding is that the Globe software has improved a lot, noticeably on the selection and ordering of the different bathymetric sources. Some regional coordinators had included data without populating the CDI/CPRD field, which is not allowed. The individual cases where this occurred have been solved on a case by case basis. Also, all source references have been checked in a cooperation between GGSGc, MARIS and IFREMER. Each referenced CDI or Composite DTM must be available in the CDI service respectively Sextant catalogue. As a result, a few additional CDIs resp Composite DTMs had to be populated by data providers. Once the generation of the DTM is fully ready, it will be made available internally to the group for final visual check, prior to making the preparations for the publishing as a new release. This will be combined with other planned products, such as the quality index layer that is being generated from the Source reference layer and the content of the metadata.

The Caribbean Sea DTM has been based on available data received from EU member states (mostly France and Netherlands), and using the standard EMODnet Bathymetry methodology and tools. Areas without bathymetric coverage, have been filled with GEBCO and GMRT holdings. The Global Multi-Resolution Topography (GMRT) synthesis is a multi-resolution compilation of edited multibeam sonar data collected by scientists and institutions worldwide and held at Lamont University.

One part of the DTM integration process has also been to include a LAT-MSL correction as the Regional DTMs are generated relative to the LAT vertical level. This correction has been provided by Deltares, derived from the Global Tide and Surge Model (GTSM) as managed by Deltares. This way, the final 2022 EMODnet DTM will be made available as referenced to both LAT and MSL.

Deltares has also finalized the updating of the overview of official coastlines and legal baselines for all countries around Europe. Therefore, the existing inventory of existing and ratified baselines, registered claims / disputes under UNCLOS, for European countries, and official national coastlines, has been updated. This Deliverable will be published together with the 2022 EMODnet DTM.

Furthermore, the study activities for the tidal bathymetry for the Venice Lagoon, led by Deltares and CNR-ISMAR, have been completed. This Deliverable will also be published together with the 2022 EMODnet DTM.

Task 3 - Develop procedures for machine-to-machine connections to data and data products

There have been several contacts between the EMODnet Central Portal team (CP team) and technicians from EMODnet Bathymetry for finalising the migration and making sure that all works well, within the functionality as defined by the CP team:

- The narrative EMODnet Bathymetry section on the CP has been reviewed again. Unfortunately, it is not possible in the current CP release to add direct URLs to the Bathymetry sections and maps in the CP Catalogue and CP Map Viewer. This would be very helpful to guide interested users directly to related maps and products. EMODnet Bathymetry will ask again for this extra functionality, once the CP portal has been launched, as it might be included in future releases;
- A logical division of bathymetry map layers over subfolders has been agreed and deployed in the CP Viewer. In the current CP release, the retrieving of information from maps in the CP Viewer has been simplified to a standard retrieval of a feature, while EMODnet Bathymetry used to have more customised and sophisticated functions to support its users in retrieving depth information, and information about which data sets are underpinning the DTM as part of the Source Reference layer. It will be awaited in how far users will be satisfied and able to interact with the maps and the associated catalogues.
- Downloading of all DTM tile files (132) and HR-DTM files (currently 245) has been made possible as part of the CP Products Catalogue service. This implicates that a user can look up a specific record and then download the associated file, chosing between available file formats. Retrieving the DTM tiles has also been made possible through the CP Map Viewer by an additional map layer depicting the DTM tile cells. The downloads are done by direct download links, one per file. This implicates, that a user, interested in downloading the full DTM, will have to undertake circa 60 download actions. The same principle is made available for downloading the HR-DTM files. For exchange of the metadata records on these data files (DTM tiles and HR-DTMs), the Bathymetry team maintains an OGC-CSW Sextant service which is harvested regularly by the CP Catalogue service. The precise working of this exchange, for instance numbers of exchanged records, has been tested several times and is working fine now. The Bathymetry team has also updated existing metadata records to take into account the new CP environment. Moreover, new records have been added for describing each map layer in a concise manner.
- Activity has also been undertaken for including all relevant guidelines and reports from EMODnet Bathymetry in the CP Reports catalogue. This included checking all entries, giving the correct tags, such as technical reports, guidelines, progress reports, etc, and ensuring that a copy of each file is now available at the CP environment.
- In most cases, use was made of JIRA for communicating actions and requests between the Bathymetry team and the CP team. Therefore, this will also be used forwards by EMODnet Bathymetry to signal possible shortcomings in practice, as ventilated by users, and suggestions for new functionalities, where relevant.

Task 4 - Contribute data, data products and content to a central portal that allows users to find, view and download data and data products

This is related to updating the Central Portal with the latest new products, such as the 2022 DTM. This is planned to take place end February 2023 to conclude the 2020-2022 contract phase, once the CP migration has taken place and is stable as mutually agreed. As part of the continued 2023-2024 contract phase, the next major new release will then be end 2024.

Task 5 - Contributing content to dedicated spaces in Central Portal

This is related to regularly updating the narrative pages of EMODnet Bathymetry at the Central Portal, following new developments. This also comprises maintenance of the ''web services" section which is relevant for machine-to-machine exchanges to be undertaken by external users.

Task 6 - Ensure the involvement of regional sea conventions

Secretariats of the Regional Sea Conventions are kept up-to-date of the EMODnet Bathymetry services, inter alia through regional partners. On a global scale, good synergy is continued with GEBCO and the Seabed 2030 project. In this context, George Spoelstra (GGSgc) and Federica Foglini (CNR), both members of the EMODnet Bathhymetry consortium, act as Chair and Vice-Chair of the GEBCO subcommittee TSCOM (Technical Subcommittee on Ocean Mapping). In the reporting period, they participated in the GEBCO Map the Gaps symposium, 26 – 28 October 2022, and related meetings of the GEBCO committees. One of their targets is to promote adoption of the metadata – data management practices in GEBCO and Seabed 2030, following SeaDataNet CDI standards and services, as applied by EMODnet Bathymetry.

Task 7: Contribute to the implementation of EU legislation and broader initiatives for open data:

The future EMODnet bathymetry full grid release, planned end February 2023, will be an occasion to reinforce the good relationships with the secretariats of the Regional Sea Conventions who are kept up-to-date of the EMODnet Bathymetry services and products, and where possible, engaged in wider promotion and contributing to mobilising more potential data providers and product users. Moreover, the entangled collaboration with GEBCO and the IHO will also be further enhanced when the grid will be delivered.

Task 8 - Monitor quality / performance and deal with user feedback

The overall performance of the portal and its services is continuously measured and its results are reported in the separate indicators spreadsheet. It demonstrates that the Bathymetry portal and its services and products continue to be highly popular and in great demand for a wide range of user applications. Also, several user feedback questions were received and answered by the helpdesk. The user questions received and answered are detailed in chapter 3 and Annex 1.

Task 9 - Maintain the existing thematic web portal for a maximum of six months from the start of the project

Preparations have been made for migrating to the Central Portal as described in Task 3. End 2022, a redirect schema has been completed, to arrange that regular users of EMODnet Bathymetry links are forwarded to relevant sections at the new CP. The actual switch from thematic to CP has been made on the 23rd of January 2023.

Project management

The coordinator and technical coordinator have prepared the 7th quarterly progress report for the new contract which was accepted by EU (CINEA and DG MARE). A plenary meeting of the EMODnet Bathymetry consortium took place at 5th December 2022 in Monaco, back-to-back with the Hydro22 conference. The meeting was dedicated to updating all partners on the status of activities and products for the 2020-2022

contract, the planned CP migration, and the input required for the final reporting. The meeting was also a kick-off for the continued contract that will run 2022 – 2024.

Activities are well underway for fully finalising the 2020-2022 contract activities. This includes:

- Finalising and publishing the 2022 EMODnet DTM and associated products;
- Final Report
- Transfer protocol

All is planned to be ready by end February 2023. The overview below gives further details.

Status of the Milestones and Deliverables listed in the workplan					
Milestone/Deliverable in numerical order	WP	Date due	Status (To do/ Delivered/ Delayed)	Date delivered	If Delayed: reason for delay and expected delivery date
D1.1: Quarterly concise progress reports	WP1	M4, M7, M10, M13, M16, M19, M24,	Delivered	M4, M7, M10, M13 and M16, M19, M24	
D1.2: Annual Interim report	WP1	M12	Delivered	M14	
D1.3: Final report	WP1	M24	Well underway		Will be delivered end Feb 2023
D1.4: Plan for service continuity, incl. docs and sources	WP1	M24	Well underway		Will be delivered end Feb 2023
D2.1: Upgraded guidelines for data pre-processing and population of metadata	WP2	M3	Delivered	M4	
D2.2i: Training Workshop for data pre-processing and metadata population	WP2	M3	Delivered	M4	
D2.3: Pre-processed survey data sets and included in CDI Service	WP2	M12	Delivered	M15	
D2.4: Pre-processed composite DTMs and included in Sextant service	WP2	M12	Delivered	M12	
D2.5: Satellite Derived Bathymetry data sets	WP2	M12	Delivered	M12	

and included in Sextant Service					
D3.1: Upgraded guideline of EMODnet methodology for DTM production, including using prototype CVE	WP3	M8	Delivered	M12	
D3.2i: Upgraded Globe software	WP3	M8	Delivered	M9	The software is continuously maintained and upgraded
D3.3i: Training and intercalibration Workshop	WP3	M11	Delivered	M11	
D3.4i: Processed and pre-gridded data sets as input for RDTMs	WP3	M14	Delivered	M15	
D3.5i: Regional DTMs with common resolution of 1/16 arc minutes grid	WP3	M17	Delivered	M18	
D3.6i: Best version HR DTMs for coastal waters and hotspots	WP3	M20	Delivered	M24	Will be published end Feb 2023. Delay due to CP migration.
D3.7: New EMODnet DTM incl Quality Index and loaded in EMODnet web services for viewing and downloading	WP3	M23	Well underway		Will be published end Feb 2023 as part of new DTM. Delay due to CP migration.
D3.8: HR-DTMs loaded as separate layer in EMODnet web services for viewing and downloading	WP3	M23	Well underway		Will be published end Feb 2023 2023 as part of new DTM. Delay due to CP migration.
D3.9: Source reference layer to link to CDI and Sextant Catalogue services	WP3	M23	Delivered	M24	Will be published end Feb 2023 as part of new DTM. Delay due to CP migration.
D3.10: Refined best-estimate European digital coastlines for a range of vertical levels at the portal	WP3	M22	Well underway		Will be published end Feb 2023 as part of new DTM. Delay due to CP migration.

D3.11: Updated Inventory of existing and ratified baselines and registered claims / disputes under UNCLOS, for European countries at the portal	WP3	M20	Delivered	M22	Will be published end Feb 2023 as part of new DTM. Delay due to CP migration.
D3.12: Tidal bathymetry for Venice Lagoon	WP3	M23	Delivered	M24	Will be published end Feb 2023 as part of new DTM. Delay due to CP migration.
D4.1: Standard machine- to-machine services delivered for common functionalities	WP4	M3	Delivered	M1	See above for details on the status
D4.2: Dedicated machine- to-machine services adapted / delivered for special functionalities	WP4	M6	Delivered	M6	See above for details on the status
D4.3i: CVE adapted for handling review of RDTMs	WP4	M14	Done	M14	Contributions from Regional coordinators are also fed to the CVE system
D4.4i: Globe software + GGSGC workbench upgraded with extra functionality	WP4	When required	Done	Latest version 1.21.0	Globe Software is regularly maintained and upgraded
D5.1: Operational Help-desk	WP5	continuously	Delivered	M24	
D5.2: Monitoring data about visits and usage	WP5	continuously	Delivered	M24	
D5.3: Promotional material and up-to-date thematic space at central portal	WP5	continuously	Delivered	M24	
D5.4: Presentations at relevant conferences	WP5	Regularly	Delivered	M24	

2. Identified issues: status and actions taken

A. Priority issue(s) identified and communicated by CINEA/ DG MARE/ SECRETARIAT				
Priority issue	Status (Pending/ Resolved)	Action(s) taken/ remaining actions planned	Date due	Date resolved
EM-715 EMODnet BathymetryURL direct to new EMODnet portal	Resolved	Redirect matrix made and deployed		23 Jan 2023
EM527 – Bathymetry – EMODnet Catalogue Tags	Resolved	After harvest of OGC CSW from EMODnet Bathymetry, there are now two EMODnet Bathymetry tags in the CP Catalogue with different subsets. Should only be one EMODnet Bathymetry tag !		Dec 2022

B. Issues / challenges identified by the thematic assembly group itself				
Priority issue / challenge	Status (Pending/ Resolved)	Action(s) taken / remaining actions planned	Date due	Date resolved
EM-733 Add Bathymetry WMTS service info on CP webservices page	Pending	Submitted. Awaiting action by CP Team	Urgent	
EM721 Rate limiting causes loading issues for tiled layer(s)	Pending	Submitted. Awaiting action by CP Team	VERY Urgent	
EM624 Question about deep links	Partly resolved	Awaiting CP team actions to provide solution	Medium	
EM680 Reports incomplete for EMODnet Bathymetry	Resolved	Synchronising together		14 Dec 2022
EM-679 2022 Bathymetry DTM publication	Pending	Placeholder for new DTM release	End Feb 2023	
EM-584 Supply list of rational file formats for Bathymetry downloads	Pending	Formats for ERDDAP download provided, but CP team has to undertake action for their use. ERDDAP now gives many non-usable file types	Urgent	

3. User feedback

Overview of user feedback and/or requests received in this quarter							
Date	Organisation	Type of user feedback (e.g. technical, case study, etc.) and short description of the feedback received	Means of contact	Response time	Status of user query (Resolved/ Pending)	Measures taken to resolve the query	Status: if not (yet) resolved/ pending, explain reason why and expected timeline
21 Oct 2022	MyTimeZero/USA	Issue with downloading of HR-DTMs	Email feedback form	Three days later	Resolved	Guidance given and checked	
1 Nov 2022	??/??	Problem with depth profile	Email feedback form	Same day	Resolved	Explained how to activate the depth layer for extra function	
15 Nov 2022	VIND/??	Problem with depth profile	Email feedback form	Same day	Resolved	Examples asked for further analysis	
19 Nov 2022	??/??	How to use 3D viewer	Email feedback form	Next day	Resolved	Guidance given	
22 Nov 2022	ETT/Italy	How to download wrecks layer	Email feedback form	Same day	Resolved	Explained it is not possible	

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4. Meetings/events held/attended & planned

A. Meetings/events organised and attended in the quarter					
Date	Location	Type event (internal or external meeting; training/ workshop)	Was a presentation given? (yes/no + short description)	Meeting attended (A) / organised (O)	Short description and main results (# participants, agreements made, etc.)
8 October 2022	VTC	Internal meeting about synergy with Copernicus in the SDB field	No	O	Internal meeting to discuss strategy and synergy options
14 October 2022	VTC	EMODnet Bathymetry / Copernicus Marine actions follow-up	No	A	To discuss potential collaboration between both groups on coastal bathymetry and satellite estimation of the bathymetry.
26-28 October 2022	Southampton	Map the Gaps / GEBCO meetings	Mentions made by 3 presentations during the symposium	A	Annual GEBCO meetings and broad attendance meeting on SEABED 2030 progresses.
6-8 December 2022	Monaco	Hydro 2022	Yes. see communication assets	A	International Hydrographic conference. A dedicated presentation on EMODnet Bathymetry has been accepted
5-6 December 2022	Monaco	Full EMODnet Bathymetry Meeting	Yes. Technical communications by the partners?	O	Full group meeting organised back-to-back with the Hydro 2022 conference. Hybrid meeting with full consortium.

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				Total # of meetings organised = 2	
				Total # of meetings attended = 5	

B. Meetings/events planned in the future				
Date	Location	Type event (meeting, training (workshop), etc.)	Meeting to be attended (A) / organised (O)	Short description and main expected outcomes

5. Communication assets

A. Communication products developed				
Date	Communication material	Short description (of the material, title, …) of the asset	Main results	Name of event at which material was disseminated (if applicable)
6/12/22	Powerpoint	*EMODnet Bathymetry: current status of the European bathymetric Digital Terrain Model,*	Communication made in front of a public of bathymetry users or producers, providing them information on the EMODnet Bathymetry project	Hydro 22

B. Planned communication products			
Date	Communication material	Short description (of the material, title, …) and/or link to the asset	Main results expected

A. (Co-)Authored peer-reviewed publications in the quarter					
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access? Yes/No

B. Other/non-peer reviewed types of publications (co-)authored in the quarter					
Date of publication	Type of publication	Full reference	ISBN	DOI	Is it open access? Yes/No

For a compressive overview of publications referring to/making use of EMODnet data and/or data products, please consult Google Scholar.

6. Monitoring indicators

Comments on the progress indicators in the indicators spreadsheet		
Progress indicator	Means of collecting figures	Comment
1. Current status and coverage of total available thematic data A) Volume and coverage of available data	CDI catalogue service	There is an considerable increase of CDIs.
What is your opinion on the data coverage within EMODnet for your thematic?	Sea regions in CDI service have been reformulated to follow latest EEA regional polygons. Was considerable effort but now in place.	Data are available for all European regions including the new Caribbean region.
B) Usage of data in this quarter	CDI RSM shopping ledger service	The number of downloaded CDIs went diown 10% compared to previous quarter, but is still very high compared to 'normal' quarters. This is largely because of a few heavy downloaders. Number of users decreased to 17 from 28 in previous quarter.
2. Current status and coverage of total number of data products A) Volume and coverage of available data products	Viewing and Download service and Sextant CPRD catalogue service Shopping module and analytics reporter of the Viewing and Download service	Number of products increased with 5 new CDTMs as extra input for sourcelayer of the coming DTM 2022 release. Number of published HR-DTMs is fixed till the new release. Gathering of new HR-DTMs has been finalised and files and layer are being prepared.
B) Usage of data products in this quarter	Shopping module and analytics reporter of the Viewing and Download service CDI catalogue service	Again, a very large volume of downloads, both in numbers (> 13000) as in volume (> 2 TerraByte). This quarter, less HR-DTMs have been downloaded, but number of DTM tiles increased considerably. The number of WMS requests is stable and also very high, while the number of WFS requests reduced slightly.

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3. Internal and external organisations supplying/approached to supply data and data products within this quarter	CDI catalogue service	There is again a increase of CDI population by several data providers.
4. Online 'Web' interfaces to access or view data	N.A.	No changes
5. Statistics on information volunteered through download forms	CDI RSM shopping ledger service and shopping module and analytics reporter of the Viewing and Download service	Bathymetry is used by all sectors and for many applications as it provides basis information. A lot of users do not give details about themselves, unless they use Marine-ID in the download forms.
6. Published use cases	Matomo	EMODnet Bathymetry has a steady number of use cases which almost all received attention from users. This quarter the stats are quite high for most use cases. Seems that visitors are really finding the use cases.
8.1. Technical monitoring	Matomo – Grafana	The portal has a very good and stable response time and overall 100% up time.
9. Visibility & Analytics for web pages	Matomo – Grafana	As expected and targeted, the pages related to the "EMODnet bathymetry viewing and Download Service" have the highest score. This means that users spent the most time browsing and interacting with the viewing service which has many functions and overall is the most interesting product and service that EMODnet Bathymetry has to offer. As second interest, users undertake downloading of DTM tiles and visit the CDI service for details and downloading of survey data sets, which both have a comparable user interest level. The section on web services and standards also is well visited. In time the statistics are very steady.
10. Visibility & Analytics for web sections	Matomo – Grafana	This indicator shows the interest of users for specific sections of the website, excluding the Bathymetry Viewing and Download service. The Products section and the CDI service receive most attention, followed by the CPRD products catalogue service, while Help desk is last (as expected). The statistics are very steady in time.
11. Average visit duration for web pages	Matomo – Grafana	This indicator shows the average visiting time of users for specific services of the website. The stats for the Bathymetry Viewing and Download service. The Products

		section and the CDI service are largely the same, followed by good attention for the documentation and the web services pages. The statistics are very steady in time.

The monitoring numbers reported as part of the progress monitoring of EMODnet performance are collected through Matomo and/or Europa Analytics, unless reported otherwise.

7. Annex: Other documentation attached

Subject: EMODnet Bathymetry Feedback form
Date: Mon, 24 Oct 2022 09:51:41 +0200
From: Dick M.A. Schaap <dick@maris.nl>
To:
Dear ..
Thank you for your interest in EMODNet Bathymetry. Concerning your feedback: we can see that you submitted several download requests for HR-DTM files. However, we see no errors and are unable to reproduce the sisuation that you are experiencing and describing.
We have no functionality for bulk downloading, so please try again with the existing order functions which should work if you do it in a gentle way. We are sorry, if it takes som e of your time.
Please let us know if you succeed.

Kind   regards,
Dick   M.A.   Schaap
Technical Coordinator

On 10/21/2022 12:04 PM, noreply@maris.nl wrote:

Name	
Email	
Feedback / Question	To whom it may concern, First of all, thank you for your work and continued support of the bathymetric datasets. I am currently working on updating our local database with new and more accurate data and I have been struggling with the high-resolution areas to download. Here is my challenge, I need to download all the high-res bathymetric data and I frequently get the error message "There was an error sending your request to the server. Please try again. If the problem persists, try refreshing the page". It happens on a single file and multiple datasets. Is there a way for me to bulk-download all the high-res products? Thank you for your feedback. Have a great day.

Subject: Re: EMODnet Bathymetry Feedback form
Date: Tue, 1 Nov 2022 07:36:02 +0100
From: Dick M.A. Schaap <dick@maris.nl>
To:
Dear …,
Thank you for your interest in EMODNet Bathymetry. Concerning your issue there could be a few causes:
1) the EMODnet DTM covers the European seas and north-west Atlantic: the depth profile tool is only working in that area
2) the tool gets activated when you choose one of the mean depth layers. It also works with the High-Resolution layer, but then only in the HR areas.
Could you try again, taking these into account.

Kind   regards
Dick   M.A.   Schaap
Technical Coordinator

On 11/1/2022 12:13 AM, noreply@maris.nl wrote:
 Name:

Emailaddress:

Feedback: Having issues with Depth profile and retrieve depth features. Both just result in a blank popup chart,despite many page refreshes. Plz advise? :/

Subject: Re: EMODnet Bathymetry Feedback form
Date: Tue, 15 Nov 2022 18:30:57 +0100
From: Dick M.A. Schaap <dick@maris.nl>
To:

Dear ..,
Thank you for your interest in EMODnet Bathymetry.
Could you prepare and provide us some images to underpin your findings, including the map position line?
Then I can forward to one of our technicians to find an explanation.
Will hear from you.

Kind   regards
Dick   M.A.   Schaap
Technical Coordinator.

On 11/15/2022 5:10 PM, noreply@maris.nl wrote:

 Name

 Email

Feedback /
Question

Hi! I was trying out your /depth_profile REST endpoint on a line, and compared it with the data from the /depth_sample REST endpoint for distinct points along the same line. It seems like the last ~40 depths of the 1000 depths in the list from the depth_profile endpoint are similar, making the graph always flatten out in the end. When plotting points from the /depth_sample endpoint and /depth_profile for the same line, the graph from /depth_profile is a bit skewed because of this. Is this a bug, or am I using the endpoint wrongly?

Subject: Re: EMODnet Bathymetry Feedback form
Date: Sun, 20 Nov 2022 09:51:11 +0100
From: Dick M.A. Schaap <dick@maris.nl>
To:

Dear ,
Thanks for your interest in EMODnet Bathymetry.
The 3D viewer service is working and you can find it https://portal.emodnet-bathymetry.eu by switching on the DTM layer 'Mean depth full coverage' and then clicking the '3D button' in the right upper corner while the '? button' next to it, then gives instructions how to use the mouse.
Please try again.

Kind   regards
Dick   M.A.   Schaap
Technical Coordinator

Subject: EMODnet Bathymetry Feedback form
Date: Sat, 19 Nov 2022 14:19:23 +0100
From: noreply@maris.nl
To:

 Name

Email	
Feedback Question	/ Hello. I was interested in using the "beta" of the bathymetry 3d viewer. I was using it this summer without a problem but now I see that I can't put the 3d mode on and dive into the sea with the viewfinder. Have you removed the beta mode? Or maybe it's just my problem. Thank you very much and sorry for the inconvenience.

Subject: Re: EMODnet Bathymetry Feedback form
Date: Tue, 22 Nov 2022 12:31:40 +0100
From: Dick M.A. Schaap <dick@maris.nl>
To:

Dear …,
It is not possible to download the Wrecks layer. It is a proprietary service, operated and managed by OceanWise (UK). The tiles downloads concern the DTM bathymetry.

KInd   regards
Dick   M.A.   Schaap
Technical Coordinator

On 11/22/2022 12:18 PM, noreply@maris.nl wrote:

Name	
Email	
Feedback Question	/ Hi, I'm trieng to download NetCDF files of the Wrecks layer for the Tiles F5 and E5 and i would like to download tiles covering all the mediterrenane. But i'm not sure i'm doing it in the wright way. Could you help? all the best

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