



EMODnet



European Marine
Observation and
Data Network

EMODnet Thematic Lot n°0 – *Bathymetry – High Resolution Seabed Mapping (HRSM2)*

EASME/EMFF/2017/1.3.1.2/01/SI2.791269

Start date of the project: 18/12/2018 - (24 months)

EMODnet Phase III – Quarterly Progress Report (3)

Reporting Period: 01/07/2019 – 30/09/2019



Contents

1 Highlights during the reporting period	3
2 Challenges encountered during the reporting period	4
3 Identified issues: status and actions taken	5
4 User Feedback.....	6
5 Meetings held/attended since last report	7
6 Outreach and communication activities	8
7 Annex: Other documentation attached	13
8 Monitoring indicators	13
9 Annex: Other documentation attached	15

Disclaimer

The information and views set out in this report are those of the author(s) and do not necessarily reflect the official opinion of the EASME or of the European Commission. Neither the EASME, nor the European Commission, guarantee the accuracy of the data included in this study. Neither the EASME, the

European Commission nor any person acting on the EASME's or on the European Commission's behalf may be held responsible for the use which may be made of the information.

1 Highlights during the reporting period

- **Task 1 - Gather and give access to bathymetric survey data:** During the reporting period, the number of data sources has increased from 26223 to 26303 CDI entries, while the number of Composite DTM entries has remained at 147. There are contributions from 51 data providers. Following the Kick-off meeting held in Brest, all the data providers are now actively preparing their data entries for the CDI and Sextant Catalogues. Also data providers have been asked to review their existing entries in both catalogues for improving and completing the Quality Index information. Moreover, data providers need to prepare additional entries that will populate the High Resolution DTM layer.
- **Task 2 - Compile a multi-resolution digital terrain model of European seas:** The latest version of the EMODnet DTM (Digital Terrain Model) was released 24th September 2018 with its improved resolution of 1/16 * 1/16 arc minutes (circa 115 * 115 m2). In order to improve this model for the current release, all partners, and more specifically basin coordinators, were asked to investigate the current DTM and identify remaining artefacts. Following this review, possible remediation of these artefacts will be undertaken either at the level of the data provider or during the integration of the dataset. Also, some improvements to the GLOBE software are underway including a complete review of the internal format (adopting Netcdf-4) and developing a spike identification detector and removal.
- **Task 3 - Establish best-estimate European digital coastlines and compile overview of legal baselines:** The coastline and legal baselines products will be updated. Therefore, partner Deltares has identified and analysed the difficulties that were earlier experienced. Currently, Deltares works on improving the digital coastline method estimated from satellite views.
- **Task 4 - Establish machine-to-machine connections to data and data products:** The CVE pilot in the previous contract has provided insights into the practical feasibility of adopting the cloud for the EMODnet Bathymetry workflow and where it should be improved. Based upon this experience it was decided to continue development of the CVE and adopting it for generating the 3 RDTMs that together cover the Mediterranean. This will take place from January 2020 onwards. In parallel IFREMER will continue the WPS development, with extra functions for RDTM product checks.
- **Task 5 - Maintain a web portal:** A major upgrade has taken place of the CDI Data Discovery & Access service which gives overview and access to the gathered bathymetric surveys. As part of the EU SeaDataCloud project, the CDI service has been improved in functionality and performance by adopting the cloud and completely renewing the user interface and the data shopping experience. Following the upgrade of the SeaDataNet CDI user interface, also efforts were undertaken for upgrading the CDI service user interface of EMODnet Bathymetry. And upgrading took place of the CDI OGC WMS – WFS services, which are integrated in the Bathymetry Viewing and Download service. Finally, editorial activities took place to update several pages of the web portal for describing the upgraded CDI service. Following the GDPR Directive, activities were undertaken together with the EMODnet Secretariate and EU services to improve the GDPR compliance of the EMODnet Bathymetry website and related services. For instance, https:// certificates were acquired and implemented for all domains.
- **Task 6 - Operate a help-desk:** several questions were received and answered by the helpdesk. The user questions received and answered are detailed in chapter 4 and Annex 1.
- **Task 7 - Achieve international interoperability:** activities are continued following the 'Report on Interoperability and International Collaboration' which was earlier submitted to the EU. Agreement concerning a Memorandum of Understanding between IHO-IOC General Bathymetric Chart of the Ocean / Seabed 2030 and EMODnet Bathymetry has been reached and the MoU will be signed at the coming Seabed 2030 : From Vision to Action event.
- **Task 8 - Achieve INSPIRE compliance:**

The ‘Report on Interoperability and International Collaboration’, released early 2018, indicates how EMODnet Bathymetry is seeking INSPIRE compliance for its range of services;

- **Task 9 - Monitoring of performance:** the overall performance of the portal and its services is continuously measured and its results are reported in the separate indicators spreadsheet.
- **Task 10 – Project management:** The coordinator and technical coordinator prepared the 2nd quarterly progress report which was accepted by EU (EASME and DG MARE). Coordinator and technical coordinator took part in the 11th EMODnet Steering Committee meeting and the 6th EMODnet Technical Working Group meeting.

2 Challenges encountered during the reporting period

Provide an overview of the main challenges encountered during the reporting period and the measures taken to address them, including those related to technical and data provision issues.

Main challenge	Measures taken

3 Identified issues: status and actions taken

Provide an overview of the issues identified, if any, during the reporting period, the status of those issues, and actions taken to address them.

Issue identified	Status (Pending/Resolved)	Action taken	Date due

4 User Feedback

List any useful feedback you received on your portal, your activities or those of other EMODnet projects/activities. Also provide any suggestions you have received for EMODnet case studies and/or future products/activities/events.

See Annex for more details

Date	Organisation	Type of user feedback (e.g. technical, case study, etc.)	Response time
2 July 2019	UK HO, UK	Question about emo format	Next day
7 August 2019	Gavin and Doherty Geosolutions Ltd, Ireland	Question about MSL DTM tiles	Same day
9 August 2019	Scotland government, Scotland	Noted a spelling mistake in map	Same day
14 August 2019	Grupo Gimeno, Spain	Question about river bathymetry	Same day
14 August 2019	Unknown	Question about bathymetry survey time series	Next day
15 August 2019	National University of Ireland, Ireland	Question about downloading of isolines	Same day
25 August 2019	University of York, UK	Question about referencing EMODnet Bathymetry	Next day
2 September 2019	Aarhus University, Dep of Bioscience, Denmark	Remark about anomalies in Danish bathymetry	Next day
11 September 2019	?,Spain	Question about referencing EMODnet Bathymetry and about vessel traffic density maps	Next day
17 September 2019	GeoData Agency, Denmark	Problem with order processing	Next day
18 September 2019	Geology Service, Sweden	Question about identification of low and high resolution DTM parts	A week later
18 September 2019	University of Nantes, France	Question about using the DTM	Same day
20 September 2019	GeoData Agency, Denmark	Signals a displacement of one grid cell	A week later
27 September 2019	NoLogin, Spain	Question about LAT – MSL references	Two days later

5 Meetings held/attended since last report

List here the internal and external meetings held/participated by the contractant (e.g. meeting, conference, training (workshop), etc.) since the last quarterly report. Please add a short description on the meeting as well as the nature and volume of the audience. At the bottom of the table, provide the total number of events organised and events participated.

Table: Meetings organised and attended.

Date	Location	Type event (meeting, training (workshop), etc.)	Attended (A) / Organised (O)	Short description and main results (# participants, agreements made, etc.)
2 - 3 Sept 2019	Ghent - Belgium	EMODnet Steering Committee meeting	A	Progress presented
3 - 4 Sept 2019	Ghent - Belgium	EMODnet Technical Working Group	A	Various topics discussed
16 - 20 Sept 2019	Honolulu - USA	Ocean Obs 2019 Conference	A	Participant in Data Interoperability forum and EMODnet Bathymetry poster
SUM			0	Total # of meetings organised =
SUM			3	Total # of meetings attended =

6 Outreach and communication activities

Please list all the relevant communication/outreach activities or products you have developed/executed during this period (including presentations, lectures, trainings, demonstrations, workshops, etc., and development of communication materials such as brochures, videos, press releases, newsletters, etc.). At the bottom of the table, provide a total number for every type of communication activity you have developed/executed (e.g. total # of press releases, total # of presentations given, etc.).

Table: Communication activities.

Date	Communication action/material	Short description (of the material, title, ...) and/or link to the activity	Main results (# participants, # views, # press clippings, etc.)
27 Sept 2019	Movies (fly-through) and 3D views	“Nuit européenne des Chercheurs”	>5000 visitors
16 - 20 Sept 2019	Poster	Ocean Obs 2019 Conference	1500 participants
SUM ...			Total # of ...
SUM ...			Total # of ...
SUM

Relevant scientific and/or popular publications (scientific papers, book chapters, conference papers, ...) you published or of which you know they have been published using/referring to EMODnet data or data products during this reporting period must also be reported here.

Table: List of known publications using EMODnet data or data products.

Date	Name of journal, conference, ...	Publication title	Authors	Organisation(s)
July 2019	<i>Journal of Operational Oceanography</i>	Developing community marine data service for Blue Growth sectors.	She, J., & Murawski, J. (2019)..	Danish Meteorological Institute, Denmark
July 2019	<i>Remote Sensing</i> , 11(16), 1848.	(2019). On the Segmentation of the Cephalonia–Lefkada Transform Fault Zone	Svigkas, N., Atzori, S., Kiratzi, A., Tolomei, C., Antonioli, A., Papoutsis, I., ... & Kontoes, C. H.	Aristotle University of Thessaloniki, Greece

		(Greece) from an InSAR Multi-Mode Dataset of the Lefkada 2015 Sequence.		
July 2019	<i>Geo-Marine Letters</i> , 1-14.	Geostatistical mapping of marine surficial sediment types in the Northern Aegean Sea using indicator kriging.	Zananiri, I., & Vakalas, I. (2019).	Hellenic Survey of Geology & Mineral Exploration, Greece
July 2019	Thesis	Estudi tècnic - econòmic d'un parc eòlic <i>offshore</i>	Victor Luid Pinol	UPC Barcelona, Spain
July 2019	Journal of Quaternary Science	ICE MARGIN OSCILLATIONS DURING DEGLACIATION OF THE NORTHERN IRISH SEA BASIN.	R.C. Chiverrell1*, R.K. Smedley1,2,3,, D. Small4, C.K. Ballantyne5, M.J. Burke1, S.L. Callard6, C.D. Clark7, G.A.T. Duller2, D.J.A. Evans6, D. Fabel8, K. van Landeghem9, S. Livingstone7, Ó Cofaigh, C.6, G.S.P. Thomas1. D.H. Roberts6, M Saher9, J.D. Scourse10, P. Wilson11	University of Liverpool
July 2019	<i>Marine Geology</i> , 416, 105999	A series of volcanic edifices discovered a few kilometers off the coast of SW Sicily.	Lodolo, E., Civile, D., Zecchin, M., Zampa, L. S., & Accaino, F. (2019)..	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, Italy
July 2019	<i>Data in brief</i> , 25, 104286.	Seagrass and hydrographic data for the Mediterranean Sea.	Effrosynidis, D., Arampatzis, A., & Sylaios, G. (2019).	Democritus University of Thrace, Greece
July 2019	<i>IEEE Transactions on Geoscience and Remote Sensing</i>	Measurements of Sea Surface Currents in the Baltic Sea Region Using Spaceborne Along-Track InSAR.	Elyouncha, A., Eriksson, L. E., Romeiser, R., & Ulander, L. M. (2019).	Chalmers University of Technology, Sweden
July 2019	<i>Deep Sea Research Part II: Topical Studies in Oceanography</i> .	Current structures and topographic Rossby waves in the Levantine basin south of Crete revealed by snapshot and time series current measurements.	Kontoyiannis, H., Velaoras, D., Papadopoulos, V., & Kioroglou, S. (2019).	Hellenic Center for Marine Research, Greece
July 2019	<i>Ocean Science</i> , 15(4), 905-924.	(2019). Bathymetric properties of the Baltic Sea.	Jakobsson, M., Stranne, C., O'Regan, M., Greenwood, S. L., Gustafsson, B., Humborg, C., & Weidner, E.	Stockholm University, Sweden
July 2019	<i>Frontiers in Marine</i>	High emissions of	Humborg, C.,	Stockholm University,

	<i>Science</i> , 6, 493.	carbon dioxide and methane from the coastal Baltic Sea at the end of a summer heat wave	Geibel, M. C., Sun, X., McCrackin, M., Mörth, C. M., Stranne, C., ... & Norkko, J. (2019).	Sweden
July 2019	Aquatic Conservation: Marine and Freshwater Ecosystems.	Modelling dolphin distribution within an Important Marine Mammal Area in Greece to support spatial management planning.	Bonizzoni, S., Furey, N. B., Santostasi, N. L., Eddy, L., Valavanis, V. D., & Bearzi, G. (2019)	Dolphin Biology and Conservation, Italy
July 2019	Thesis	Island shelf and slope geomorphology of La Palma island (Southern sector).	Velasco Martínez, A. (2019)	Universidad de Las Palmas de Gran Canaria
July 2019	In <i>Mediterranean Cold-Water Corals: Past, Present and Future</i>	Review of the Circulation and Characteristics of Intermediate Water Masses of the Mediterranean: Implications for Cold-Water Coral Habitats.	Hayes, D. R., Schroeder, K., Poulain, P. M., Testor, P., Mortier, L., Bosse, A., & du Madron, X. (2019). 18	CNR-ISMAR , Italy
July 2019	<i>Data in brief</i> , 25, 104186.	Biodiversity of gelatinous macrozooplankton: Quantitative assessment of data and distribution patterns in the southern and central North Sea during August 2018.	Gawinski, C., Huwer, B., Munk, P., & Jaspers, C. (2019).	Technical University of Denmark, Denmark
July 2019	<i>Tectonics</i> .	Magmatism along lateral slab edges: Insights from the Diamante-Enotrio-Ovidio volcanic-intrusive complex (Southern Tyrrhenian Sea).	De Ritis, R., Pepe, F., Orecchio, B., Casalbore, D., Bosman, A., Chiappini, M., ... & Monaco, C. (2019).	Istituto Nazionale di Geofisica e Vulcanologi, Italy
July 2019		Influence of the summer deep-sea circulations on passive drifts among the submarine canyons in the northwestern Mediterranean Sea.	Clavel-Henry, M., Solé, J., Ahumada-Sempoal, M. Á., Bahamon, N., & Briton, F.	Consejo Superior de Investigaciones Científicas, Spain

July 2019	<i>Data in brief</i> , 25, 104188.	Database of historic ports and coastal sailing routes in England and Wales.	Alvarez-Palau, E. J., & Dunn, O. (2019).	Universitat Oberta de Catalunya, Spain
July 2019	<i>Natural Hazards and Earth System Sciences</i> , 19(8), 1585-1600.	Assessment of the 1783 Scilla landslide–tsunami's effects on the Calabrian and Sicilian coasts through numerical modeling.	Zaniboni, F., Pagnoni, G., Gallotti, G., Paparo, M. A., Armigliato, A., & Tinti, S. (2019).	Università di Bologna, Italy
July 2019	<i>PloS one</i> , 14(6), e0219015.	Effects of sampling site, season, and substrate on foraminiferal assemblages grown from propagule banks from lagoon sediments of Corfu Island (Greece, Ionian Sea).	Weinmann, A. E., Goldstein, S. T., Triantaphyllou, M. V., & Langer, M. R. (2019).	Rheinische Friedrich-Wilhelms-Universität Bonn, Germany
July 2019	<i>Journal of Geophysical Research: Oceans</i> .	The Impact of Waves and Tides on Residual Sand Transport on a Sediment-poor, Energetic and Macrotidal Continental Shelf.	King, E. V., Conley, D. C., Masselink, G., Leonardi, N., McCarroll, R. J., & Scott, T. (2019).	Plymouth University
August 2019	<i>International Journal of Greenhouse Gas Control</i> , 90, 102820.	Application of three-dimensional fault stress models for assessment of fault stability for CO2 storage sites	Gamboa, D., Williams, J. D., Bentham, M., Schofield, D. I., & Mitchell, A. C. (2019).	British Geological Survey, United Kingdom
August 2019	PhD Thesis	Marine gravity and bathymetry modelling from recent satellite altimetry.	Abulaitjiang, A.	Technical University of Denmark, Denmark
August 2019	<i>Nature communications</i> ,	2019). Earthquake crisis unveils the growth of an incipient continental fault system	Gracia, E., Grevemeyer, I., Bartolome, R., Perea, H., Martinez-Loriente, S., de la Peña, L. G., ... & Calahorrano, A. (CSIC, Spain
August 2019	<i>Tectonophysics</i> , 768, 228179	Tectonics controls on fluvial landscapes and drainage development in the westernmost part of Switzerland: Insights from DEM-derived geomorphic indices.	Radaideh, O. M., & Mosar, J. (2019)..	University of Fribourg, Switzerland
August 2019	<i>Scientific reports</i> , 9(1), 1-15.	Time and space scattered volcanism of Mt. Etna driven by strike-slip tectonics.	Carlino, M. F., Cavallaro, D., Coltelli, M., Cocchi, L., Zgur, F., & Patanè, D. (2019).	Istituto Nazionale di Geofisica e Vulcanologi, Italy
August	<i>Journal of</i>	Recent deformational	Maestro, A., Bohoyo, F., &	Instituto Geológico y

2019	<i>Geodynamics</i> , 132, 101653.	state from morphological analysis of mud volcanoes in the Gulf of Cadiz (southwestern part of the Iberian Atlantic Margin).	Corral, R. (2019).	Minero de España, Spain
August 2019	<i>Marine and Petroleum Geology</i> .	J. Hydrate occurrence in Europe: A review of available evidence.	Minshull, T. A., Marín-Moreno, H., Betlem, P., Bialas, J., Buenz, S., Burwicz, E., ... & Hölz, S. (2019)	University of Southampton, United Kingdom
August 2019	Морской гидрофизический журнал	Оценка точности результатов моделирования циркуляции Черного моря при использовании различных данных о топографии дна.	Дымова, О. А., & Миклашевская, Н. А. (2019).	6.1.1 Russian Academy of Sciences, Russia
August 2019	<i>Sensors</i>	Evaluation of Sentinel-3A OLCI Products Derived Using the Case-2 Regional CoastColour Processor over the Baltic Sea.	Kyryliuk, D., & Kratzer, S. (2019)	Stockholm University, Sweden
Sept 19	<i>Marine Policy</i> ,	Discard ban: A simulation-based approach combining hierarchical Bayesian and food web spatial models.	Pennino, M. G., Bevilacqua, A. H., Torres, M. A., Bellido, J. M., Sole, J., Steenbeek, J., & Coll, M. (2019).	Instituto Español de Oceanografía (IEO) Spain
Sept 19	Thesis	Sedimentary evidences of paleotsunamis in the Mediterranean Sea: accumulation of large boulders along the coastline and mass transport deposits.	Canals Artigas, M.,	UPC Barcelona, Spain
Sep 2019	<i>Journal of Maps</i> , 15(2), 759-772	J. Shallow geophysics of the Asinara Island Marine Reserve Area (NW Sardinia, Italy).	Romeo, R., Baradello, L., Blanos, R., Congiatu, P. P., Cotterle, D., Ciriaco, S., ... & Lodolo, E. (2019)	Instituto Nazionale di Oceanografia e di Geofisica Sperimentale, Italy
Sept 19	Revista Brasileira de Cartografia	Desenvolvimento e Perspectivas da Infraestrutura de Dados Espaciais Marinhos Brasileira	Florentino, C., Pimentel, V. B., & Neto, A. A. (2019)..	Diretoria de Hidrografia e Navegação, Brasil
Sept 19	<i>Deep Sea Research</i>	Analysis of the	Prado, E., Sanchez, F.,	Instituto Español de

	<i>Part I: Oceanographic Research Papers</i>	population structure of a gorgonian forest (<i>Placogorgia</i> sp.) using a photogrammetric 3D modeling approach at Le Danois Bank, Cantabrian Sea.	Basalo, A. R., Altuna, Á., & Cobo, A. (2019).	Oceanografía (IEO), Spain
Sept 19	(Master's thesis).	<i>Habitat suitability mapping for <i>Tursiops truncatus</i> in the Aegean Sea</i>	van der Roest, R. A. (2019).	Supervisor Wageningen University;, Netherlands
Sept 19	<i>Minerals</i> , 9(10), 577.	Potential for the Geological Storage of CO2 in the Croatian Part of the Adriatic Offshore.	Saftić, B., Kolenković Močilac, I., Cvetković, M., Vulin, D., Velić, J., & Tomljenović, B. (2019).	Faculty of Mining, Geology and Petroleum Engineering, University of Zagreb, Croatia
Sept 19	In <i>The Geology of Egypt</i> (pp. 295-342). Springer, Cham.	Structural Setting and Tectonic Evolution of the Gulf of Suez, NW Red Sea and Gulf of Aqaba Rift Systems.	Moustafa, A. R., & Khalil, S. M. (2020).	Ain Shams University, Egypt
Sept 19	<i>Marine Geodesy</i> , (just-accepted), 1-26.	Development of a User-Centred Web-Mapping Application for Ocean Modellers.	Padilla Ruiz, M., Stefanakis, E., & Church, I. (2019).	University of New Brunswick, Canada

7 Annex: Other documentation attached

See Annex for Feedback from Users.

8 Monitoring indicators

Please consult and fill in the designated excel template in annex, and provide a comment in the table on each indicator when possible/applicable.

Table: Comments on the progress indicators in the excel template.

Progress indicator	Comment
1.1 Volume of available acquired data	Slight increase in CDIs
1.2 Number and coverage of built & external data products	Stable
2. Organisations supplying each type of data	51 data providers
3. Interfaces to access or view data: list changes or new items within reporting period	All services now with https:// ; new URLs for upgraded CDI services

4. Usage of data and data products per interface and per theme	Stable and very good
5. Distribution of users that have used the portal's data and data products per organisation type and country, and their main use cases	Also stable and considerable with > 900 users from 68 countries and well divided over all society sectors
6. External products (websites, apps, ...) built on top of web-services: update since last quarterly report	No info
7. Published use case and number of readings	This indicator provides two elements: Number of views per Use case and Use case appearance in the Central portal. This indicator doesn't really apply to Bathymetry since all the use cases are on the Central Portal. The indicator has to be seen as the views per single Use case in the reporting period.
8. Portal and Social Media visibility	These indicators basically indicate statistics about the origin of the visitors and their behaviour (interaction with the website or simple bouncing for example). When compared with the previous indicators, one can note a slight decrease in number of visitors (8.1), although the vast majority of users already know the portal and are active (8.3). Indicator 8.2 and 8.4 are to be optimized search engines to point on our website.
9.1 Technical monitoring	The portal has a good response time (even if it increased compared to the past report) and overall a very good up time.
9.2 Portal user-friendliness	The portal has one of the highest scores since always.
10. Visibility & Analytics for web pages	See comments provided for 8. Unsurprisingly the DTM product is the main driver for most of the visitors.
11. Visibility & Analytics for web sections	See comments provided for 8. Interest of the visitors is driven by the need to
12. Average visit duration for web pages	Although confusing, this graph seems to indicate that users are spending their time in finding individual datasets (CDI data discovery and access) and to understand the methodology of DTM production (QA/QC).

The monitoring numbers reported as part of the progress monitoring of EMODnet performance are collected through Matomo. In some cases, numbers from other monitoring systems may also be reported (e.g. Awstats, Google Analytics). Each system uses different technical approaches and therefore has its strengths and shortcomings. Therefore, results are indicative and care should be taken with interpreting absolute numbers or comparing results from different tools. It is often more sensible to consider trends over time collected by the same monitoring tool.

9 Annex: Other documentation attached

Feedback from users:

Subject: Re: EMODnet Bathymetry Feedback form

Date: Wed, 3 Jul 2019 08:44:09 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear ..,

Thanks for your interest in EMODnet Bathymetry. The EMO file is the proprietary ASCII format of EMODnet Bathymetry.

It is an semicolon delimited ASCII file. The structure is described in the documentation that is available on the website:

http://www.emodnet-bathymetry.eu/media/emodnet_bathymetry/org/documents/euco-0901-002_dtm_exchange_format_specification_v1.6.pdf

If you are interested to import in QGIS fields other than the mean depth, see following tutorial:

https://www.qgistutorials.com/en/docs/importing_spreadsheets_csv.html

Note that this will give you access to the point data inside the EMO file. If you would like to use any other field as a raster you could use the import function under the *Raster > Conversion > Rasterize* menu with a *"Comma Separated Value (.csv)"* file type. Other option is to use GDAL in stead of QGIS. If you just want the mean depth, it is probably easier to use the ESRI ASCII grid download of EMODnet Bathymetry.

Kind regards,

Dick M.A. Schaap

Technical Coordinator

7/2/2019 5:06 PM, noreply@maris.nl wrote:

Name

Email

Feedback / Question How do I open a .emo file? I'm using QGIS

Subject: Re: Form submission from: Contact us

Date: Wed, 7 Aug 2019 12:37:09 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To: screane@gdgeo.com

Dear,

Thank you for your interest in EMODnet Bathymetry. Concerning your request:

The EMODnet DTM tiles are indeed in meters to LAT; however we have all DTM tiles also available for download in the same interface with ref to MSL. However this is only for the download format ESRI ASCII as this is the most downloaded format. They are available for the 2018 version of the DTM and the format is named: ESRI ASCII Mean Sea Level.

I hope you can use this format which is well supported by GIS systems overall.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 8/7/2019 12:30 PM, EMODnet Secretariate wrote:

Dear,

Thank you for your interest in EMODnet!

For this particular question, I kindly put you in contact with one of the EMODnet Bathymetry coordinators Dick Schaap and Thierry Schmitt (here in cc) who will be best placed to help you with your query. Don't hesitate to contact us again in case you have further questions!

Best regards,
EMODnet Secretariat

-----Original Message-----

From: postmaster@vliz.be <postmaster@vliz.be>

Sent: 07 August 2019 12:19

To: secretariat@emodnet.eu

Subject: Form submission from: Contact us

Organisation name: Gavin and Doherty Geosolutions Ltd Organisation type: Academia/Research

Dear Sirs,

I am currently undertaking a research project with in which we are developing a hydrodynamic model of the Irish Sea. As part of this study we require XYZ bathymetry data in MSL2000. I have a query about the vertical datum of your bathymetry data.

I am interested in the bathymetry data available through the EMODNET data portal, in particular the DTM 2018 tiles D3, D4, E3 and E4. They download fine however I understand that the water depth are in meters with reference to LAT. We need these XYZ files converted from LAT to MSL2000 geoid. Do you provide this service? If so, can you please direct me to the best person that could do this. If not, can you please provide us with some advice/suggestions on what software or method that would be best to convert these large files?

Thank you for your time, I hope to hear from you soon.

Kind regards,

Subject: Re: EMODnet Bathymetry Feedback form

Date: Tue, 13 Aug 2019 12:46:35 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear,

Thank you for finding this typo. We will correct it on short term.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 8/9/2019 4:15 PM, noreply@maris.nl wrote:

Name:

Emailaddress:

Feedback: You have misspelt the ARCTIC ocean as 'Artic' in your portal - there should be an extra 'c' in the middle

Subject: Re: EMODnet Bathymetry Feedback form

Date: Wed, 4 Sep 2019 11:50:31 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear ...,
I asked around to some colleagues, who are also active in river modeling. But they could not help me.
So I guess you need to approach the Spanish Ebro river authority: see <http://www.chebro.es/>
This might be a good starting point for your search.
Hope it helps.
Kind regards

Dick

On 8/28/2019 10:04 AM, wrote:

Dear Dick,

Thank you for your answer. I tried googling but I can't find anything.

Do you know if there is another institution like yours that can have this kind of information? Maybe this information exists but is not available to the general public.

Thank you again,

Best regards,

.....

De: Dick M.A. Schaap <dick@maris.nl>

Enviado el: miércoles, 14 de agosto de 2019 13:07

Para:

Subject: EMODnet Bathymetry Feedback form

Dear

I am sorry but we can not help you with that information as EMODnet Bathymetry is focusing on the regional seas and oceans and not on rivers.

Try Googling.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 8/14/2019 12:14 PM, noreply@maris.nl wrote:

Name:

Emailaddress:

Feedback: Hello, I want to model a stretch of the Ebro River in Spain. For this I need the bathymetric information of that river. Do you have this type of information on this website or do you know where I can find it? Thank you ...

Subject: Re: EMODnet Bathymetry Feedback form

Date: Thu, 15 Aug 2019 07:13:35 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear ...

Thanks for your interest in EMODnet Bathymetry. However we do not have such information and can not help you.

Kind regards

Dick M.A. Schaap

Technical coordinator

Op 14 aug. 2019 om 16:46 heeft <noreply@maris.nl> <noreply@maris.nl> het volgende geschreven:

Name

Email

Feedback / Question I was wondering as to whether EMODnet has time series data of the north sea? Time series data being different grids/bathymetry maps or grids through time 2019 -> 1950s? (was wanting to see how the sea-floor dynamics have changed) If this is available that would be fantastic! (Otherwise could you recommend a data source to find such information?) Thank you very much!

Subject: Re: EMODnet Bathymetry Feedback form

Date: Thu, 15 Aug 2019 15:45:47 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To: ...

Dear ...,

Thanks for your interest in EMODnet Bathymetry. The isolines are not downloadable. However, they are a layer included in the OGC web services which you can integrate online in other mapping interfaces, like several GIS systems.

More info on the web services can be found at:

<https://www.emodnet-bathymetry.eu/data-products/web-services-and-standards>

AND

<https://portal.emodnet-bathymetry.eu/services/>

Kind regards

Dick M.A. Schaap

Technical coordinator

On 8/15/2019 3:29 PM, noreply@maris.nl wrote:

Name:

Emailaddress:

Feedback: Unable to download the depth contours. Is there another way of accessing this? Thanks, ...

Subject: EMODnet Bathymetry Feedback form

Date: Sun, 25 Aug 2019 09:17:52 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear,

Thank you for your interest in EMODnet Bathymetry.

For referencing, please follow the instructions given at:

<https://www.emodnet-bathymetry.eu/data-products/acknowledgement-in-publications>

Kind regards

Dick M.A. Schaap

Technical coordinator

On 8/24/2019 5:32 PM, noreply@maris.nl wrote:

Name ...

Email

Feedback / Question Hello, I am wondering how to reference the use of bathymetry data from your database in dissertation thesis? Many thanks, ...

Subject: Re: EMODnet Bathymetry Feedback form

Date: Wed, 4 Sep 2019 12:49:21 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear ...,

Yes please do as we are in the next round of EMODnet Bathymetry aiming for improving anomalies in the present version,, where possible.

Will await your images.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 9/2/2019 10:44 AM, noreply@maris.nl wrote:

Name ...

Email ...

Feedback / Question I have found some problems in your otherwise very nice map. Around the east of the island Fur in Jutland Denmark. Would you be interesting in some picture describing the problem? Best Regards
....

Subject:R: EMODnet Bathymetry Feedback form

Date: Thu, 12 Sep 2019 15:13:29 +0000

From: Alessandro Pititto <Apititto@cogea.it>

To: Dick M.A. Schaap <dick@maris.nl>,

Dear Marco,

you'll find all the answers you need on vessel density in a publication we released earlier on this year:
https://www.emodnet-humanactivities.eu/documents/Vessel%20density%20maps_method_v1.5.pdf

Should you need any further clarification, please do not hesitate to contact me.

Kind regards,

Alessandro Pititto

COGEA srl

----- Forwarded Message -----

Subject:Re: EMODnet Bathymetry Feedback form

Date: Thu, 12 Sep 2019 17:09:42 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

CC: 'Alessandro Pititto' <Apititto@cogea.it>

Dear,

Thanks for using EMODnet Bathymetry. You can find information how to reference at:

<https://www.emodnet-bathymetry.eu/data-products/acknowledgement-in-publications>

Concerning vessel traffic, I forward your question to the coordinator of EMODnet Human Activities who can better answer for that reference.

Kind regards

Dick M.A. Schaap

EMODnet Bathymetry Technical Coordinator

On 9/11/2019 12:52 PM, noreply@maris.nl wrote:

Name

Email

Feedback / Question Good morning, I am an Italian student who is doing an erasmus traineeship in Spain, in Malaga. I downloaded the bathymetry and vessel density data thanks to your platform and I wanted to know

how I could cite these data that I collected thanks to you. For the vessel density, I download the annual average of vessel density for the year 2017, that have values from zero to 7570,28 (my study is in the Mediterranean Sea). I wanted to know how these values were obtained and how they are explained. Many thanks for the contribute, best regards

Subject: Re: EMODnet Bathymetry Feedback form

Date: Wed, 18 Sep 2019 22:10:08 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear ...,

Thanks for your interest in EMODnet Bathymetry.

According to our logs the email with the download link has been delivered to your mail server at: 2019-09-17 08:59:15

Possibly it has landed in your spam folder. Please check and let us know.

Kind regards

Dick M.A. Schaap

Technical coordinator

On 9/17/2019 11:12 AM, noreply@maris.nl wrote:

Name: ...

Emailaddress: ...

Feedback: I ordered downloads this morning, but i never received a mail?

Subject: Re: EMODnet Bathymetry Feedback form

Date: Mon, 30 Sep 2019 06:49:07 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear ...,

Thank you for your interest in EMODnet Bathymetry.

Concerning your question, please have a look at the Quality Index layer in the Bathymetry Viewing service:

<https://portal.emodnet-bathymetry.eu/>

This layer gives an indication what kind of data has been used for the DTM grid cells.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 9/18/2019 10:47 AM, noreply@maris.nl wrote:

Name ...

Email ...

Feedback / Question Hi, I wonder if it's possible to get a shapefile or something similar denoting the areas where the bathymetry has been compiled from higher quality multibeam data that's been downgraded?

Subject: Re: EMODnet Bathymetry Feedback form

Date: Thu, 19 Sep 2019 01:39:15 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear

Thanks for your interest in EMODnet Bathymetry. The easiest way for you would be to make use of our OGC web services. See:

<https://www.emodnet-bathymetry.eu/data-products/web-services-and-standards>

Using OGC WMS, WFS and WCS in Geo Server will allow you to work with the EMODnet DTM without having to download it.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 9/18/2019 2:54 PM, noreply@maris.nl wrote:

Name

Email

Feedback /
Question

Hello, I'm contacting you about the downloading of EMODNET bathymetric DTM files. In the context of research program (University of Nantes - France -<https://valpena.univ-nantes.fr/projet-cop-valpena/>), we need to use a generic bathymetric map layer under Geoserver (open source server for sharing geospatial data). So we would like to know, just in case, if you have in stock a general file assembling all EMODNET bathymetric DTM files in one, in RGBGeoTiff format ? Because Geoserver does not manage very well all DTM files in same time. Thank you in advance for your answer, Kind regards, ...

Subject:Re: EMODnet Bathymetry Feedback form

Date: Tue, 8 Oct 2019 10:22:56 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

Dear ...,

Thank you for your interest in EMODnet Bathymetry and its DTM product.

Concerning your remark. Indeed there is a known error as use has been made for the .asc grids of a land mask that has shifted 1 pixel due to rounding. The DTM depth data has not shifted and is correct.

As said it is a known error and on our list for improvement in the next DTM release, planned for end 2020.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 9/20/2019 12:36 PM, noreply@maris.nl wrote:

Name ...

Email

Feedback /
Question

Dear EMODnet, I seem to have a displacement of one grid celle between a downloaded .asc grid file (D5) and your WMS service (Mean depth in multicolor). Im using QGIS to present the data. Is this a known thing, or am i doing something wrong. all the best, ...

Subject:Re: Form submission from: Contact us

Date: Mon, 30 Sep 2019 06:37:24 +0200

From: Dick M.A. Schaap <dick@maris.nl>

To:

CC: Nathalie Tonné <nathalie.tonne@emodnet.eu>, secretariat@emodnet.eu, 'thierry Schmitt' <thierry.schmitt@shom.fr>

Dear ms

Thank you for your interest in EMODnet Bathymetry and in using its DTM product.

Concerning your question: The EMODnet DTM is generally available in several format for LAT. However, there is also a version of the latest 2018 DTM version which is related to MSL. This version can be downloaded in the usual way with tiles (64). The MSL version is only available in the ESRI ASCII format which is quite common in the GIS community.

Hope this suits your application.

Kind regards

Dick M.A. Schaap

Technical Coordinator

On 9/27/2019 4:31 PM, Nathalie Tonné wrote:

Dear Ms,

Many thanks for your interest in EMODnet!

In order to help you with your question, I have put in copy Dick Schaap (MARIS) and Thierry Schmitt (SHOM), both coordinating EMODnet Bathymetry, who will be able to help you with your query.

Best wishes, and have a nice weekend,

Nathalie on behalf of the EMODnet Secretariat

EMODnet Secretariat

-----Original Message-----

From: postmaster@vliz.be <postmaster@vliz.be>

Sent: 27 September 2019 15:53

To: secretariat@emodnet.eu

Subject: Form submission from: Contact us

Name:

Email:

Organisation name: NoLogin

Organisation type: Academia/Research

We would like to learn about your experience using EMODnet. Please leave us your question or provide your feedback here:

I am using the EMODNet bathymetry to generate bathymetric files for a regional model (IBI, from CMEMS). The model needs a bathymetry referenced to the MSL (and not LAT).

Would it be possible to access the LAT you used to reference your bathymetry?

Thank you for you help

Regards
