



# EMODnet Thematic Lot n° 1 - Bathymetry

3rd Bi-monthly Report

Reporting Period: 01/05/2014 – 30/06/2014

Date: 07/07/2014

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# 1. Highlights in this reporting period

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*Provide a short summary of the key achievements and/or events of interest to a wider audience within this reporting period you wish to highlight – this can be based on the indicators or any other of the reporting sections.*

- EMODNet Bathymetry project meeting in Hamburg – Germany, 26 – 27 May 2014, to discuss progress and finetune workplan for 1<sup>st</sup> release of new EMODNet DTM for all European regions
- EMODNet Bathymetry service and results presented at 8TH GEO EUROPEAN PROJECTS WORKSHOP, 12 – 13 June 2014, in Athens – Greece and at Shell, 30<sup>th</sup> June 2014, in Rijswijk – The Netherlands;
- Upgraded releases V1.3.7, V1.3.8, V1.3.9, V1.4.0, and V1.4.1 of GLOBE software by IFREMER for generating DTMs following the upgraded EMODNet methodology following suggestions and remarks from data providers;
- Very good progress by various data providers with preparing and submitting new entries for bathymetric surveys in the CDI service and composite DTMs in the SEXTANT catalogue service.
- Good progress by regional coordinators with preparing for the Regional DTM compilations using the pre-processed data (subDTMs) and composite DTMs from data providers as input
- New GEBCO\_2014 (still to be released) incorporated as base file in GLOBE software for completing gaps in regional DTMs by regional coordinators.
- EMODNet 2013 integrated into new release of GEBCO\_2014 giving extra quality.

## 2. Meetings held since last report

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*List here the meetings held since the last bi-monthly report, if relevant add short description*

*[Provide information in table - Maximum 1 page]*

Date	Location	Topic	Short Description
26 – 27 May 2014	Hamburg - Germany	Projectgroup meeting	To discuss progress and finetune Workplan for 1 <sup>st</sup> release
4 – 5 June 2014	Rome - Italy	EMODNet SC meeting	Presenting progress and planning

### 3. Work package updates

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*Using the work package as a header list here the activities that occurred since the last bi-monthly report. If there was no activity to report leave the section blank.*

*[Provide information - Maximum 1/2 page per workpackage]*

#### **WP0 – Project Management:**

The 2nd Progress Meeting was held end May 2014 in Hamburg – Germany with nearly all partners present to monitor progress, to discuss possible issues and to finetune the further planning of activities for the 1st year release of the new EMODNet DTMs. Following the meeting partners are reminded regularly by email of the overall planning for the 1st year. From feedback it appeared that a number of partners were getting in delay with the planning due to more work for preparing the data sets and related CDI entries, and issues with the GLOBE processing software. Therefore end June 2014 a revised planning has been agreed as follows:

- New survey data sets to be included in the CDI service, including connection of new data centres to SeaDataNet CDI infrastructure as part of WP1: **ultimately 12 July 2014**
- New composite DTMs to be included in Sextant service as part of WP1: **ultimately 12 July 2014**
- Regional groups preparing and delivering 1st release of regional DTMs as part of WP2: **end July 2014**
- Integration of new regional DTMs, including CDI and Sextant references, and publication via portal as part of WP3: **end August 2014**
- Regional leaders to prepare standard QA-QC report on their Regional DTM: **before end August 2014**
- Preparing of 1st Annual report by Coordinator and invoice to EU as part of WP0: **mid-September 2014**

Participation by Coordinator in the EMODNet Steering Committee meeting, 4 – 5 June 2014, at CNR in Rome – Italy with presentation of EMODNet Bathymetry progress.

## ***WP1 – Data collection and metadata preparation for all marine basins:***

All existing partners, incl the 2 new partners from Romania, have made very good progress with expanding their data collections in the CDI and SEXTANT catalogue services. Only 3 partners still are working on their CDI compilation, but are confident to meet the new deadline for the 1st year production. MARIS and IFREMER provide support to guide partners where needed and to handle new submissions. Contacts with the new Black Sea data providers from Turkey, and Germany (MARUM) have a slow start and full use of their data contributions will come to effect in the second year release for the Black Sea region. For the North Sea – Baltic sea regions there is still no signing of the subcontract by the Danish hydrography service (GST) despite their participation to the Hamburg meeting and the following constructive discussion.

## ***WP2 – QC/QA and producing Digital Terrain Models for the basins:***

Document with specifications of upgraded QA/QC and DTM generation methodology is available for all partners. Five more updates of the GLOBE software have been released by IFREMER to data providers for pre-gridding their survey data sets and for preparing the Regional DTMs, reacting to extra requirements and bugs as reported by partners. Most partners have now adopted the GLOBE software and are active with processing their data sets while regional coordinators are preparing for the regional DTMs according to the EMODNet Bathymetry specifications.

## ***WP3 – Integration and inclusion of the DTMs in the portal:***

This will take place during August 2014, based upon the submissions of Regional DTMs by the Regional leaders. Earlier in the project already a precise schema had been made of the boundaries of each regional DTM and who is in charge and who is contributing. This has been circulated to all partners a number of times in order to prevent any misunderstandings. It also includes further precisement of the delivery formats and definitions of grid.

## ***WP4 – Technical development and operation of portal:***

Nothing to report. The EMODNet ~~Secretariate~~[Secretariat](#) has prepared and delivered a document with user observations and suggestions. These will be analysed in the coming period and implemented, where possible and reasonable.

## ***WP5 – Analysis and evaluation:***

Nothing to report.

## 4. Specific challenges or difficulties encountered during the reporting period

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*Please list specific problems you have encountered during this period, including related to technical and data provision issues*

Making sure that all partners - data providers and regional coordinators – adopt the planning and undertake their activities as agreed. Also all partners, old and new, have to understand the overall approach in detail to provide high quality and integrity of the data, metadata and data products. This is encouraged by sending out reminder emails to all partners, bilateral emails to check individual status, and by having the 2nd Progress Meeting on 26 – 27 May 2014.

There is still an ongoing negotiation with the Geodata Agency from Denmark (GST) that has not yet signed their contract. This implicates that there is not yet official agreement on use of their data (composite DTMs) for the new EMODNet Bathymetry product, while it has been used earlier for the present DTMs.

## 5. User Feedback

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*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.*

*[Provide information in table - attach the documentation/full user feedback to the report]*

Date	Name	Organization	Type of user feedback (e.g. technical, case study etc)	Response time to address user request
23 June 2014	Hannes Swiegers	Shell	Invitation to discuss possible use of the EMODnet service for bathymetry	Meeting with Shell staff 2nd July 2014





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In general the portal and its product receive good feedback.

## 6. Outreach and communication activities

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*Please list all the relevant communications activities or products you have developed/executed during this period (including presentations, lectures, trainings, demonstrations and development of communication materials such as brochures, videos, etc.). Relevant scientific and/or popular articles you know have been published using/referring to EMODnet should be reported under indicator 11 in Section 7.*

*[Provide information in table - Maximum 1 page]*

Date	Media	Title	Short description and/or link to the activity
12 – 13 June 2014	Conference	8TH GEO EUROPEAN PROJECTS WORKSHOP	Presentation by MARIS

## 7. Updates on Progress Indicators

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*Using the indicator as a header list the metrics collated and the time interval. If there was no activity to report leave the section under the indicator header blank.*

### ***Indicator 1 - Volume of data made available through the portal***

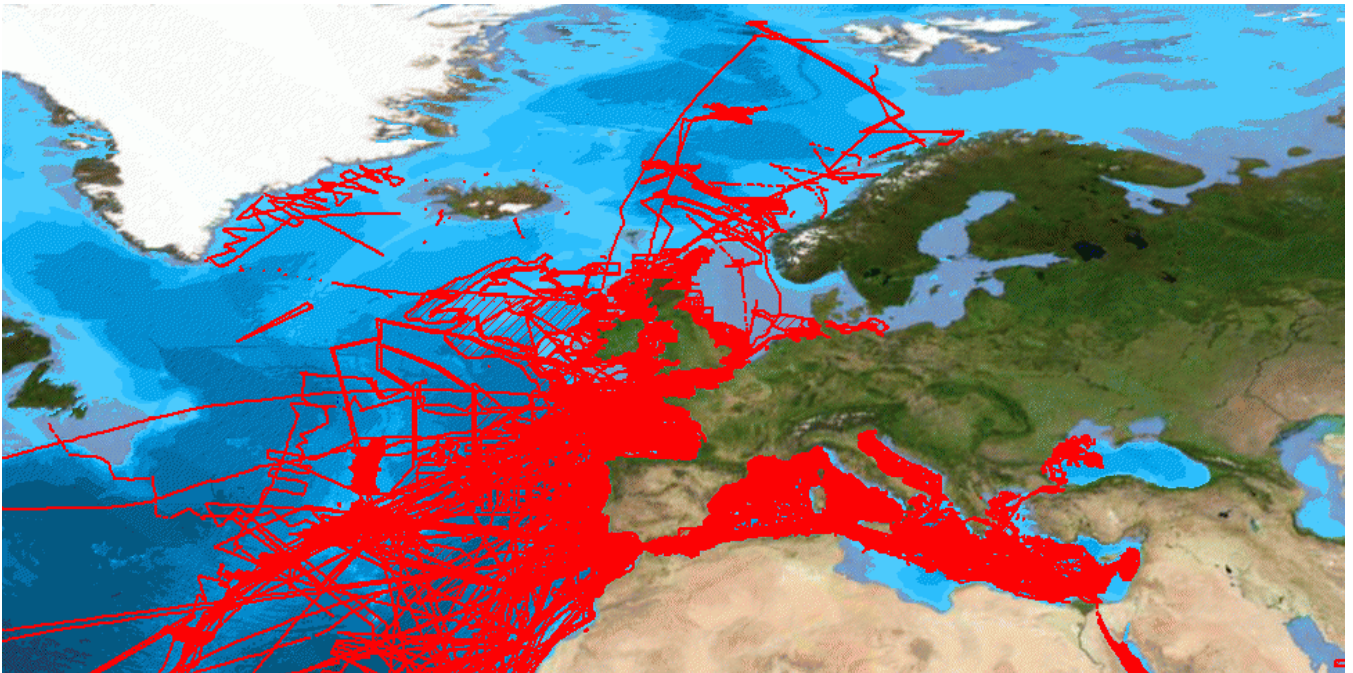
The total number of CDIs for bathymetric survey data sets has increased from: **9333 to 10543**

Moreover in the import system there are new entries underway: **2364**

The total in production covers the whole globe. Specifically relevant for European waters has increased from: **6471 to 7671**

Lat Long box: **N80, W-30 ; N20, E45**

Of these **327** are unrestricted, while all other require negotiation.



Regional DTMs are available at present for the following sea regions:

- the Greater North Sea, including the Kattegat and stretches of water such as Fair Isle, Cromarty, Forth, Forties, Dover, Wight, and Portland
- the English Channel and Celtic Seas

- Western Mediterranean, the Ionian Sea and the Central Mediterranean Sea
- Iberian Coast and Bay of Biscay (Atlantic Ocean)
- Adriatic Sea (Mediterranean)
- Aegean - Levantine Sea (Mediterranean).
- Madeira and Azores (Macaronesia)

***Indicator 2 - Organisations supplying each type of data based on (formal) sharing agreements and broken down into country and organisation type (e.g. government, industry, science).***

Per CDI Partner	Country	Datasets
SHOM (SERVICE HYDROGRAPHIQUE ET OcéANOGRAPHIQUE DE LA MARINE)	France	4128
OceanWise Limited	United Kingdom	1955
IFREMER / IDM/SISMER	France	712
IHPT, Hydrographic Institute	Portugal	274
Geological Survey of Ireland	Ireland	132
Management Unit of North Sea and Scheldt Estuary Mathematical Models, Belgian Marine Data Centre	Belgium	93
Hellenic Centre for Marine Research, Hellenic National Oceanographic Data Centre (HCMR/HNODC)	Greece	76
IEO/Spanish Oceanographic Institute	Spain	66
Institute of Marine Science (ISMAR) - Bologna	Italy	65
British Oceanographic Data Centre	United Kingdom	50
NIOZ Royal Netherlands Institute for Sea Research	Netherlands	30
Hydrographic Institute of the Navy	Spain	23
Bulgarian National Oceanographic Data Centre(BGODC), Institute of Oceanology	Bulgaria	16
German Oceanographic Datacentre (NODC)	Germany	15
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Division of Oceanography	Italy	10
UNEP/GRID-Arendal	Norway	6
Marine Technology Unit. Mediterranean Marine and Environmental Research Centre	Spain	6
OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Infrastructures Division	Italy	4
Institute of Marine Sciences. Mediterranean Marine and Environmental Research Centre (CMIMA-ICM-CSIC). Department of Marine Geology	Spain	4
National Laboratory of Energy and Geology	Portugal	3

National Institute of Marine Geology and Geoecology	Romania	2
Portuguese Institute of Ocean and Atmosphere	Portugal	1

These centres are government and research institutes. No industry (yet).

***Indicator 3 - Organisations that have been approached to supply with no result, including type of data sought and reason why it has not been supplied.***

Nothing to report.

***Indicator 4 - Volume of each type of data and of each data product downloaded from the portal***

Time period 1 May 2014 – 30 June 2014:

**CDIs:**

No of CDI basket transactions: **1**  
 No of CDIs requested: **1**  
 Different users: **1**  
 Different data centres: **1**

**Data products – DTMs:**

Tile	Downloads
Adriatic-Ionian Sea - C.Meditarrenean	770
Greater North Sea	711
Celtic Seas	689
Aegean-Levantine Sea	677
West Mediterranean	654
Madeira	619
Azores	605
Bay of Biscay - Iberian Coast	93

**4818**

Format	Downloads
ESRI	
ASCII	1145
XYZ	1202
GeoTiff	1118
NetCDF	619
CSV	495
SD	239

4818

### ***Indicator 5 - Organisations that have downloaded each data type***

BSH, Germany

### ***Indicator 6 - Using user statistics to determine the main pages utilised and to identify preferred user navigations routes***

Time period 1 January 2014 – 30 April 2014:

Bathymetry main portal:

Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2014	932	1,569	17,827	52,468	3.95 GB
Feb 2014	931	1,579	22,536	60,710	3.82 GB
Mar 2014	1,039	1,713	19,840	56,544	3.19 GB
Apr 2014	984	1,659	20,766	54,708	2.91 GB
May 2014	1,002	1,760	18,063	53,529	3.46 GB
Jun 2014	995	1,784	17,402	51,169	2.67 GB

Visitors in June 2014:

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Hosts				
Total : 709 Known, 473 Unknown (unresolved ip) - 995 Unique visitors				
	Pages	Hits	Bandwidth	Last visit
84.41.108.220	1,504	1,508	18.00 MB	30 Jun 2014 - 10:25
82.116.76.84	849	1,232	6.89 MB	30 Jun 2014 - 14:21
a83-163-127-252.adsl.xs4all.nl	604	2,108	11.81 MB	27 Jun 2014 - 07:07
cable-77-221-25-240.dynamic.vinet.ba	562	562	6.72 MB	30 Jun 2014 - 20:20
247-232.noc.soton.ac.uk	544	763	67.23 MB	26 Jun 2014 - 12:00
unknown.shom.fr	342	812	9.30 MB	27 Jun 2014 - 11:02
141.17.83.11	326	2,808	199.90 MB	20 Jun 2014 - 07:01
dias1.ath.hcmr.gr	323	518	144.36 MB	27 Jun 2014 - 16:56
178.16.165.22	317	571	12.68 MB	27 Jun 2014 - 09:59
host81-145-104-87.range81-145.btcentralplus.com	267	405	3.29 MB	11 Jun 2014 - 15:52
193.150.120.14	254	254	735.28 KB	30 Jun 2014 - 20:26
193.191.138.240	243	457	2.18 MB	23 Jun 2014 - 12:43
host86-182-150-216.range86-182.btcentralplus.com	190	257	3.46 MB	20 Jun 2014 - 12:04
sol-fttb.144.115.119.46.sovam.net.ua	179	179	0	30 Jun 2014 - 18:54
193.105.210.226	171	171	1.70 MB	01 Jun 2014 - 12:47
a82-95-67-170.adsl.xs4all.nl	150	258	2.05 MB	30 Jun 2014 - 13:33
sol-fttb.207.120.119.46.sovam.net.ua	143	143	0	30 Jun 2014 - 02:41
br148-029.ifremer.fr	138	464	3.50 MB	27 Jun 2014 - 07:15
192.171.135.36	138	251	1.46 MB	18 Jun 2014 - 14:32
146.133.255.196	136	228	1.24 MB	04 Jun 2014 - 10:18
dnv-gw.dnv.com	133	236	1.63 MB	24 Jun 2014 - 21:59
sol-fttb.40.155.118.46.sovam.net.ua	126	126	0	29 Jun 2014 - 22:11
cable-77-77-245-49.dynamic.telemach.ba	119	119	1.42 MB	06 Jun 2014 - 13:46
ip-193-33-2-113.mde.es	118	231	2.14 MB	23 Jun 2014 - 07:54
119-224-29-14.callplus.net.nz	115	221	4.38 MB	14 Jun 2014 - 02:52
141.17.83.10	113	777	100.86 MB	18 Jun 2014 - 08:05
195.10.221.34	101	403	102.06 MB	19 Jun 2014 - 09:03
host81-152-147-179.range81-152.btcentralplus.com	91	187	1.04 MB	27 Jun 2014 - 08:10
rhodes.unice.fr	90	174	1.60 MB	27 Jun 2014 - 10:33
ip-193-33-2-114.mde.es	88	166	1.02 MB	03 Jun 2014 - 09:28
193.146.131.132	88	203	16.53 MB	25 Jun 2014 - 11:13

### Bathymetry DTM viewer service:

Month	Unique visitors	Pages	Hits	Bandwidth
Mar-14	1.397	1,794	2,395	25,59 GB
Apr-14	1.423	1,846	2,671	29,01GB
May-14	1.413	1.894	2.863	69,78GB
Jun-14	1.362	1.785	2.835	75,40GB

Hosts

Top Hosts

	Host	Country	Hits	Visitors	Bandwidth (KB)
1	ptr.cnsat.com.cn	China	541	496	5,060,203
2	119.63.193.130	Japan	98	97	806,371
3	119.63.193.132	Japan	103	97	2,402,830
4	119.63.193.194	Japan	94	90	658,888
5	119.63.193.131	Japan	76	76	836
6	119.63.193.195	Japan	75	71	919,289
7	119.63.193.196	Japan	68	66	855,030
8	ec2-50-18-216-148.us-west-1.compute.amazonaws.com	United States	68	30	1,702,841
9	google-proxy-66-249-81-3.google.com	United States	28	28	308
10	google-proxy-66-249-81-183.google.com	United States	28	28	308
11	unknown.shom.fr	France	37	21	606,122
12	google-proxy-66-249-93-183.google.com	United States	17	17	187
13	google-proxy-66-249-93-3.google.com	United States	19	17	23,180
14	br148-029.ifremer.fr	France	17	15	316,017
15	user.vliz.be	Belgium	20	12	729,503
16	178.16.165.22	France	16	12	914,300
17	62.1.135.13.dsl.dyn.forthnet.gr	Greece	25	12	176,958
18	mail1.linksmt.it	Italy	25	12	164,894
19	199.19.249.196	United States	13	11	311,631
20	nat.bo.ismar.cnr.it	Italy	36	10	1,465,684
21	195.10.221.34	United Kingdom	24	9	198,880
22	195.59.221.4	Unknown	10	9	110
23	192.Red-80-36-114.staticIP.rima-tde.net	Spain	12	9	132
24	77-23-210-41-dynip.superkabel.de	Germany	17	8	30,417
25	msnbot-131-253-38-67.search.msn.com	Canada	8	8	88
26	212.205.83.18	Greece	20	8	315,144
27	host81-145-104-87.range81-145.btcentralplus.com	United Kingdom	11	8	121
28	247-232.noc.soton.ac.uk	United Kingdom	13	8	108,973
29	gateway.an.ismar.cnr.it	Italy	18	8	260,642
30	geo-mac69.leeds.ac.uk	United Kingdom	19	8	755,550
31	ArcNat-67-229.bologna.enea.it	Italy	8	8	88
32	139-63-121-34.nodes.tno.nl	Netherlands	18	7	1,334,928
33	194.75.138.93	United Kingdom	18	7	580,463
34	84.45.106.162	United Kingdom	22	7	1,001,074
35	193.136.242.251	Portugal	18	7	67,752
36	174.123.27.77.dynamic.mundo.com	Spain	13	7	2,140,166

***Indicator 7 - List of what the downloaded data has been used for (divided into categories e.g. Government planning, pollution assessment and (commercial) environmental assessment, etc.)***

Nothing to report.



***Indicator 8 - List of organisations that have downloaded data from more than one portal in a given space of time e.g. 2 weeks (assumed to be for a single project).***

Nothing to report.

***Indicator 9 - Interoperability of data of different types and from different portals***

Nothing to report.



***Annex X***

*Nothing to annex.*