



EMODnet Coastal Mapping Project

Tender no MARE/2014/10

Contract Number no
EASME/EMFF/2014/1.3.1.4/SI2.708188

Bi-monthly Report

Reporting Period: 26/08/2016 – 25/10/2016

Date: 04/11/2016

1. Highlights in this reporting period

Provide a summary of the key achievements and noteworthy progress within this reporting period.

These two months were mainly devoted to the organisation (and arbitration) on the remaining improvements to be done on the portal, the implementation of the geographical algorithm designed to help the coastal survey planning (besides the textual one) and to the collection of consistent inputs from WP2 and WP3 tasks in order to prepare recommendations for the future.

The first version of the portal and of the project website was opened to the public on 23 December 2015 with some datasets. The data initialization has continued ever since with a portal now giving access to several datasets grouped in four thematics (see Annex 1). Several improvements, requested in the tender, and also suggested (and considered as important) by the partners, are still to be done. During the Dublin meeting (14-15 September), the project team listed and prioritized them.

The report linked to the vertical datum was presented to the project team during the Dublin meeting and sent to the partners for review. It will be included in the final report.

Besides the textual algorithm designed to the coastal survey planning, the “geographical” version of the algorithm on the Coastal Mapping portal was integrated on the portal as static layers representing the suitability of the three main survey technologies (Hyperspectral, Lidar, Multibeam). These layers were produced using modelisations of depth and Secchi disk values on the European seas so their resolution is not fine. Some opportunities of improvement are still to be explored.

Two layers representing the existing EU regional strategies and the opportunities for funding in the framework of European cross-border cooperation programmes were included on the portal. The report presenting the analysis of the current EU fundings opportunities and of the regions’ strategies will be included in the final report.

As part of the roadmap set up for the validation of its results, the project was presented to the Italian National Table on Coastal Erosion (Ferrara – IT, 21 September).

A questionnaire was sent in July to the relevant partners (in particular to hydrographic offices). The results of this questionnaire will be used to define the strategic axes for the organisation of the future campaigns. The first draft of these axes were presented and accepted by the partners during the Dublin meeting. These proposals were also presented at the 13th European Week of Regions and Cities (Brussels, 13 October) and at the 5th IHO-EU Network Working Group meeting (Brussels, 13-14 October). The final axes will be described in the final report.

2. Specific challenges or difficulties encountered during the reporting period

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

Several improvements have still to be done on the portal. The raising difficulty was to prioritize these improvements depending on the needs : requested by the tender, requested by the project itself, requested for ergonomoy and usefulness... A prioritized list of improvement was produced by Wordline and the coordinator and was discussed and validated at the last meeting (14-15 September, Dublin).

The implementation of the geographical algorithm on the portal is more complex than the implementation of the textual one, because it needs some background data (bathymetry, water clarity) on all the european basins. The needed computer time to produce the resulting layers is also an issue which was discussed during the Dublin meeting and some opportunities of improvement are still to be explored, like restricting the area of interest to the coastal area in the layer production process.

The production of recommendations as a result of WP3 tasks needs to gather all the inputs from WP2 and WP3 tasks. Some types of needed information are difficult to assess and to aggregate in a consistent way within the duration of the project. The project team will be challenged during the next 2-month period in order to produce and be able to present and explain these recommendations before the end of the next period.

3. Meetings held since last report [if any]

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

Date	Location	Topic	Short Description
14-15/09/2016	Dublin (IRL)	Progress meeting	[internal] Progress meeting
13/10/2016	Brussels (BE)	European Week of Regions and Cities	[external] Workshop
13-14/10/2016	Brussels (BE)	IENWG5	[external] Presentation of the project update.

4. User Feedback [if any]

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

Date	Name	Organization	Type of user feedback	Response time to address user request

Nothing to report.

5. Outreach and communication activities [if any]

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.

Date	Media	Title	Short description and/or link to the activity
21/09/2016	Presentation		Presentation of the project to the (Italian) National Table on Coastal Erosion – Ferrara (IT)

6. User statistics

Please provide as much information about the usage of your portal as possible once it is operational (page visits, downloads, etc.).

The only statistics refer to the users' visits of the website (see Annex 3).

6.1. Website global statistics

The statistics are more detailed in Annex 3.

Period	Unique visitors	Number of visits	Pages
26/08/16-25/10/16	313	479	888

Country	Sessions	Pages/session
France	133	1.98
Italy	90	1.72
Ireland	37	1.65
United Kingdom	36	2.31
Belgium	35	1.69
Spain	24	1.96
Greece	15	2.00
Sweden	15	1.47
Portugal	14	2.71
Germany	13	1.38

Service Provider	Sessions	Pages/session
service hydrographique et oceanographique de la marine	48	1.25
worldline france hosting	48	3.02
wr computer network ltd t/a host ireland	23	1.48
(not set)	18	1.67
acantho s.p.a. - via molino rosso 8-40026 imola bo italy	13	1.62
fastwb staff public subnet	13	1.54
istituto superiore per la protezione e la ricerca ambientale	13	1.00
wind telecomunicazioni s.p.a	12	1.92
commission europeenne	11	1.73
national maritime administration	9	1.44

Annex 1: Datasets available through the portal

Not many Web Feature and Web Coverage Services were set up at the end of the period, so there are no relevant statistics reported here.

These datasets are grouped in four categories: Coastline-Baseline, Topography&Bathymetry, Imagery and Additional Layers ([new ones in blue](#)).

COASTLINE – BASELINE (10 datasets):

Name/Type of data	Area of interest	Provider
<i>EEA Coastline</i>		
EEA Coastline	EU	EEA
<i>HIGHEST ASTRONOMICAL TIDE LEVEL</i>		
France, Histolitt coastline	France	SHOM
<i>INTERTIDAL AREA</i>		
Belgium Coastline	Belgium	MDK
Ireland Coastline	Ireland	GSI
Romania Coastline 1970	Romania	DDNI
<i>LEGAL BASELINE</i>		
Belgium Legal Baseline	Belgium	MDK
Greece Coastline	Greece	HNHS
Portugal Coastline	Portugal	IHPT
Romania Coastaline	Romania	DDNI
<i>MEAN SEA LEVEL</i>		
Sweden Coastline	Sweden	Lantmäteriet ¹

¹ : Swedish mapping, cadastral and land registration authority

TOPOGRAPHY & BATHYMETRY (29 datasets):

Name/Type of data	Area of interest	Provider
<i>EMODNET BATHYMETRY DTM</i>		
Greece DTM	Greece	HNHS
<i>HIGH RESOLUTION DTM</i>		
Belgium Single Beam	Belgium	MDK
France 10m DTM – Boulogne-sur-Mer	France	SHOM
France 20m DTM - Morbihan	France	SHOM
France 20m DTM – Pertuis Charentais	France	SHOM

Germany 1m DTM	Germany	BSH
Greece DTM 90K	Greece	HNHS
Italy 1m DTM Ligurian Sea	Italy	IIM
Italy 1m DTM Sardinia	Italy	IIM
Norway 10m DTM	Norway	NMA
Romania 5m DTM	Romania	DDNI
LAND-SEA SEAMLESS DTM		
Belgium Lidar	Belgium	MDK
France Coastal DTM – Finistère 2014	France	SHOM
France Coastal DTM – Languedoc-Roussillon 2009	France	SHOM
France Coastal DTM – PACA 2015	France	SHOM
Germany 50m DTM	Germany	BSH
Ireland 20m Shaded Relief Image	Ireland	GSI
Ireland 30m DTM	Ireland	GSI
Ireland 30m shaded Relief Image Donegal	Donegal (IRL)	GSI
Ireland 5m Coastal DTM Bantry & Dunmanus	Bantry/Dunmanus (IRL)	GSI
Ireland 8m Shaded Relief Image Bantry & Dunmanus	Bantry/Dunmanus (IRL)	GSI
Portugal DTM	Portugal	IHPT
Romania 500M DTM 1970	Romania	DDNI
LOW RESOLUTION BATHYMETRY DTM		
Baltic Sea, BSDB Bathymetry elevations 500m median	Baltic Sea	BSHC
Baltic Sea, BSDB Bathymetry watercolour 500m median (merged with watershade)	Baltic Sea	BSHC
Sweden, Bathymetry 500m Min-depth	Sweden	SMA
MEDIUM RESOLUTION DTM		
France 100m DTM – Atlantic coast	France	SHOM
France 100m DTM - Corse	France	SHOM
France 100m DTM – Lion Gulf / Côte d’Azur	France	SHOM

IMAGERY (3 datasets):

Name/Type of data	Area of interest	Provider
AERIAL PHOTOGRAPHY		
France Coastal Imagery	France	SHOM
Ireland Coastal Imagery 2006 Bantry & Dunmanus (merged)	Bantry/Dunmanus (IRL)	GSI
Romania 1m Orthophotos	Romania	DDNI

ADDITIONAL LAYERS (17 datasets):

Name/Type of data	Area of interest	Provider
BACKSCATTERS		
Ireland 10m Backscatter Image	Bantry/Dunmanus (IRL)	GSI
BASEMAPS		
EMODnet Bathymetry with GEBCO 2014 (merged)	Europe	EMODnet Bathymetry/GEBCO
Secchi Disk Depth statistics	Europe	COPERNICUS
DATA QUALITY AND SURVEY PLANS		
Sweden, Surveys fulfilling the National realization of S44	Sweden	SMA
Sweden, Surveys performed after 1940	Sweden	SMA
OPPORTUNITIES FOR DATA FUNDING		
EU Strategies	Europe	CPMR
Interreg VA	Europe	CPMR
HABITATS MAPPING		
Italy Dune Cover	Italy	ISPRA
SEABED COVER		
Italy Bottom Type	Italy	ISPRA
Italy Seabed Cover	Italy	ISPRA
SEDIMENTS MAPPING		
Ireland Bantry 10m Seabed Classification	Bantry/Dunmanus (IRL)	GSI
Ireland INFOMAR Samples PSA	Ireland	GSI
Ireland Non INFOMAR Samples PSA	Ireland	GSI
Ireland Samples	Ireland	GSI
SUITABILITY OF THE SURVEY TECHNOLOGIES		
CMP.Geo – Airborn Hyperspectral	Europe	ISPRA
CMP.Geo - Lidar	Europe	ISPRA
CMP.Geo - Multibeam	Europe	ISPRA

IMAGERY (3 datasets):

Name/Type of data	Area of interest	Provider
AERIAL PHOTOGRAPHY		
France Coastal Imagery	France	SHOM
Ireland Coastal Imagery 2006 Bantry & Dunmanus (merged)	Bantry/Dunmanus (IRL)	GSI
Romania 1m Orthophotos	Romania	DDNI



Annex 2: User feedback

Nothing to report.

Annex 3: Global website statistics

Period	Users	Sessions	Pageviews	Pages/session	Avg session duration
26/08/16-24/10/16	313	479	888	1.85	00:02:59

Country	Sessions	Pageviews	Pages/session	Avg session duration
France	133	263	1.98	0:05:54
Italy	90	155	1.72	0:01:35
Ireland	37	61	1.65	0:02:54
United Kingdom	36	83	2.31	0:00:59
Belgium	35	59	1.69	0:01:14
Spain	24	47	1.96	0:02:17
Greece	15	30	2.00	0:01:39
Sweden	15	22	1.47	0:01:20
Portugal	14	38	2.71	0:06:11
Germany	13	18	1.38	0:01:01
Netherlands	12	17	1.42	0:00:52
Ukraine	9	16	1.78	0:06:45
Norway	7	8	1.14	0:00:02
United States	7	12	1.71	0:01:36
Finland	5	5	1.00	0:00:00
Lithuania	4	5	1.25	0:01:34
Denmark	3	4	1.33	0:00:17
Bulgaria	2	7	3.50	0:03:25
Canada	2	5	2.50	0:00:37
Switzerland	2	2	1.00	0:00:00
Cyprus	2	2	1.00	0:00:00
Latvia	2	3	1.50	0:00:11
Romania	2	12	6.00	0:05:00
Estonia	1	2	2.00	0:00:48
Japan	1	1	1.00	0:00:00

South Korea	1	2	2.00	0:01:42
Malta	1	2	2.00	0:00:00
Poland	1	1	1.00	0:00:00
Slovenia	1	4	4.00	0:03:35
Turkey	1	1	1.00	0:00:00
(not set)	1	1	1.00	0:00:00

Service Provider	Sessions	Pageviews	Pages/session	Avg session duration
service hydrographique et oceanographique de la marine	48	60	1.25	0:01:47
worldline france hosting	48	145	3.02	0:13:50
wr computer network ltd t/a host ireland	23	34	1.48	0:02:49
(not set)	18	30	1.67	0:00:41
acantho s.p.a. - via molino rosso 8-40026 imola bo italy	13	21	1.62	0:02:44
fastwb staff public subnet	13	20	1.54	0:01:14
istituto superiore per la protezione e la ricerca ambientale	13	13	1.00	0:00:00
wind telecomunicazioni s.p.a	12	23	1.92	0:03:29
commission europeenne	11	19	1.73	0:00:26
national maritime administration	9	13	1.44	0:02:06
tenet networking centre	9	16	1.78	0:06:45
telecom italia s.p.a.	8	18	2.25	0:02:01
ripe network coordination center	7	13	1.86	0:00:52
centre de brest z.i. de pointe du diable 29280 plouzane. franc	6	10	1.67	0:03:19
economic and social committee / committee	5	14	2.80	0:03:37
flanders marine institute	5	7	1.40	0:03:40
provider	5	8	1.60	0:01:37
dcenr public facing services	4	4	1.00	0:00:00
free sas	4	4	1.00	0:00:00
instituto hidrografico da marinha	4	7	1.75	0:01:10

statens kartverk	4	4	1.00	0:00:00
tno	4	6	1.50	0:00:12
universita degli studi di bologna	4	9	2.25	0:00:42
bundesamt fuer seeschiffahrt und hydrographie hamburg	3	4	1.33	0:03:16
dynamic pools	3	12	4.00	0:01:22
fundacion tecnalia	3	6	2.00	0:00:44
hellenic centre for marine research - athens	3	10	3.33	0:02:26
ip range assigned to vf-it customers	3	3	1.00	0:00:00
municipio da povoa de varzim	3	10	3.33	0:12:20
oregon state university	3	8	2.67	0:03:44
telecom italia s.p.a. tin easy lite	3	3	1.00	0:00:00
telia network services	3	4	1.33	0:00:14
universita degli studi di trieste	3	3	1.00	0:00:00
adsl ull pools	2	12	6.00	0:07:25
area della ricerca di padova	2	2	1.00	0:00:00
cableuropa s.a.u.	2	2	1.00	0:00:00
celeste	2	2	1.00	0:00:00
consejo superior de investigaciones	2	7	3.50	0:06:58
eircom	2	3	1.50	0:02:25
ftip003194010 hydrographics department	2	6	3.00	0:04:51
information society s.a.	2	3	1.50	0:00:11
ip pools	2	7	3.50	0:03:37
multiprotocol service provider to other isp s and end users	2	2	1.00	0:00:00
national board of waters and the environment (net-y-network)	2	2	1.00	0:00:00
nos comunicacoes s.a.	2	4	2.00	0:01:06
r cable y telecomunicaciones galicia s.a.	2	2	1.00	0:00:00
regione emilia romagna	2	7	3.50	0:00:37
southampton	2	4	2.00	0:06:50
telefonica de espana sau	2	3	1.50	0:00:34

telenet group bvba/sprl	2	2	1.00	0:00:00
tim	2	4	2.00	0:00:51
umts company	2	3	1.50	0:01:33
universidad de cantabria	2	4	2.00	0:00:29
universitat de les illes balears	2	4	2.00	0:00:40
university of berne	2	2	1.00	0:00:00
wl delft hydraulics network de voorst	2	3	1.50	0:01:56
3bb broadband internet service provider in thailand	1	3	3.00	0:00:00
754th electronic systems group	1	3	3.00	0:00:00
adc archeo projecten amersfoort	1	1	1.00	0:00:00
addresses ip for home clients	1	1	1.00	0:00:00
adsl llu pools	1	1	1.00	0:00:00
adsl-go-plus	1	1	1.00	0:00:00
adsl6	1	2	2.00	0:00:14
amateur radio digital communications	1	3	3.00	0:00:00
arcadis bv	1	1	1.00	0:00:00
arcor ag	1	1	1.00	0:00:00
assignments for always-on services	1	2	2.00	0:03:09
at&t internet services	1	3	3.00	0:00:00
athens	1	1	1.00	0:00:00
aztec west	1	1	1.00	0:00:00
beijing shenzhen greatwall	1	3	3.00	0:00:00
belnet customers fedman pop	1	1	1.00	0:00:00
bsren652 rennes bloc 1	1	1	1.00	0:00:00
bsren652 rennes bloc 2	1	1	1.00	0:00:00
bstln651 toulon bloc 1	1	1	1.00	0:00:00
bstln651 toulon bloc 2	1	1	1.00	0:00:00
bstou659 toulouse bloc 1	1	1	1.00	0:00:00
bstou659 toulouse bloc 2	1	1	1.00	0:00:00
bt-central-plus	1	1	1.00	0:00:00
bundesamt fuer wirtschaft und ausfuhrkontrolle	1	1	1.00	0:00:00
bureau de recherches geologiques et minieres	1	1	1.00	0:00:00

business	1	2	2.00	0:00:42
campus network	1	1	1.00	0:00:00
carnegie mellon university	1	1	1.00	0:00:00
carphone warehouse broadband services	1	1	1.00	0:00:00
cellcom-net	1	2	2.00	0:07:45
china unicom hebei province network	1	3	3.00	0:00:00
clayesmore school	1	4	4.00	0:08:45
cmvig03-mc5-cpe-stb	1	2	2.00	0:00:13
comcast cable communications inc.	1	1	1.00	0:00:00
computer sciences corporation	1	3	3.00	0:00:00
computing services	1	1	1.00	0:00:00
cong ty co phan mang luoi ky thuat cao	1	3	3.00	0:00:00
crpm	1	2	2.00	0:00:39
customers ie	1	1	1.00	0:00:00
customers procono	1	2	2.00	0:00:55
digicom	1	2	2.00	0:01:14
dynamic links	1	2	2.00	0:00:48
edpnet_adsl_be	1	1	1.00	0:00:00
eircom customer assignment	1	2	2.00	0:01:29
eskisehir yolu 9.km tarim bakanligi kampusu lodumlu ankara	1	1	1.00	0:00:00
etisalat-misr 2g/3g subscribers	1	3	3.00	0:00:00
eunetworks	1	2	2.00	0:05:34
european environment agency	1	1	1.00	0:00:00
fiber grid inc	1	3	3.00	0:00:00
forsvarets konsernfaelles informati	1	1	1.00	0:00:00
france telecom espana sa	1	4	4.00	0:25:03
free mobile sas	1	2	2.00	0:01:36
fugro norway shared services	1	1	1.00	0:00:00
fundacion publica observatorio puerto de granadilla	1	2	2.00	0:04:55
geesthacht	1	2	2.00	0:01:45
geodetski institut slovenije	1	4	4.00	0:03:35
gp systems riga	1	1	1.00	0:00:00

infrastructure for fastwebs main location	1	1	1.00	0:00:00
instituto de meteorologia	1	1	1.00	0:00:00
instituto tecnologico geominero de espan~a	1	1	1.00	0:00:00
ip addresses allocated to dsl customers	1	1	1.00	0:00:00
ip range assigned for vdf-it customers	1	1	1.00	0:00:00
irish research optical network	1	1	1.00	0:00:00
japan network information center	1	1	1.00	0:00:00
jazztel mobile services	1	1	1.00	0:00:00
kabel deutschland broadband customer 14	1	1	1.00	0:00:00
kcom group plc	1	1	1.00	0:00:00
kongsberg maritime as	1	2	2.00	0:00:17
krnic	1	2	2.00	0:01:42
latvian environment geology and meteorology agency	1	2	2.00	0:00:21
limited a.l.a.planning partnership environment	1	1	1.00	0:00:00
lirex net	1	5	5.00	0:05:36
main port of heraklion	1	1	1.00	0:00:00
maricopa county	1	3	3.00	0:00:00
marin it as	1	1	1.00	0:00:00
marine institute offices	1	11	11.00	0:28:12
messagelabs limited	1	1	1.00	0:00:00
metria ab	1	3	3.00	0:00:21
multicomplesso cinematografico s.r.l. - megacine	1	14	14.00	0:15:25
nas dhcp pool bergamo	1	3	3.00	0:00:00
nas dhcp pool perugia	1	1	1.00	0:00:00
natural environment research council (nerc)	1	1	1.00	0:00:00
navy network information center (nnic)	1	3	3.00	0:00:00
northwestel inc.	1	1	1.00	0:00:00

o2 germany gmbh & co. ohg	1	3	3.00	0:00:45
openconnect - english heritage	1	1	1.00	0:00:00
palacio de congresos network	1	1	1.00	0:00:00
pat/nat ip addresses pop 0504 for	1	1	1.00	0:00:00
pool for broadband dsl customers	1	1	1.00	0:00:00
pop lyon	1	1	1.00	0:00:00
primetel	1	1	1.00	0:00:00
provider local registry	1	1	1.00	0:00:00
proxad / free sas	1	2	2.00	0:00:40
psi line srl	1	11	11.00	0:09:59
psinet inc.	1	1	1.00	0:00:00
pt comunicacoes s.a.	1	3	3.00	0:27:59
rcs & rds residential	1	1	1.00	0:00:00
rectorat de l academie de nantes	1	3	3.00	0:03:37
red de servicios ip	1	3	3.00	0:03:32
reseau optique du campus de la doua	1	1	1.00	0:00:00
riksantikvarieambetet	1	1	1.00	0:00:00
risc group it solutions	1	1	1.00	0:00:00
rps	1	1	1.00	0:00:00
scansafe services llc	1	1	1.00	0:00:00
scite-peristyle	1	1	1.00	0:00:00
sede centrale ed istituti di roma	1	1	1.00	0:00:00
sl-cgn	1	1	1.00	0:00:00
sprint communications inc.	1	3	3.00	0:00:00
stazione zoologica a. dohrn - napoli	1	1	1.00	0:00:00
task academic computer network	1	1	1.00	0:00:00
teledyne brown engineering	1	4	4.00	0:01:13
telenet operaties n.v.	1	1	1.00	0:00:00
teliasonera ab	1	2	2.00	0:00:52
the national land survey of sweden	1	1	1.00	0:00:00
the university of malta	1	2	2.00	0:00:00
universidad de cadiz	1	3	3.00	0:00:41
universita degli studi di pavia	1	1	1.00	0:00:00
universite de strasbourg	1	1	1.00	0:00:00
universite pierre et marie curie	1	1	1.00	0:00:00
university of liverpool	1	1	1.00	0:00:00

university of piraeus	1	3	3.00	0:04:19
university of southampton	1	1	1.00	0:00:00
university of strathclyde	1	1	1.00	0:00:00
university of turku	1	1	1.00	0:00:00
voxility.net	1	1	1.00	0:00:00
w&w informatik gmbh	1	1	1.00	0:00:00