



## EMODnet Thematic Lot n° 5 - Biology

EMODnet Phase III - Quarterly Report

Reporting Period: 01/04/2017 – 30/06/2017

Date: 15/07/2017

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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*

### WP 1: Project management (Lead partner VLIZ)

- The **EMODnet Biology Contract** [CONTRACT NUMBER - EASME/EMFF/2016/1.3.1.2 - Lot 5/SI2.750022, CALL No. EASME/EMFF/2016/006] has been signed on **19th April 2017** between EASME and 22 partners, represented by the Flanders Marine Institute (VLIZ). The project will run for two years, with a possible extension of two more years.
- A **Consortium Agreement** between VLIZ and the 21 partners has been drafted and is currently signed by all partners. At the time of writing, we still need 5 signatories before completion.
- A **kick off meeting** has been organised and took place in Oostende on the 25 and 26 of April, 2017. 41 partners from 23 organisations attended the kick off meeting. During this two day event, the consortium discussed the workplan of the project, focussing on the first year deliverables. A workshop report is available at the EMODnet Biology website at:  
[http://www.emodnet-biology.eu/sites/emodnet-biology.eu/files/public/documents/EMODnet\\_Biology\\_III/kickoff/minutes\\_KickOff\\_EMODnetBiology.pdf](http://www.emodnet-biology.eu/sites/emodnet-biology.eu/files/public/documents/EMODnet_Biology_III/kickoff/minutes_KickOff_EMODnetBiology.pdf)
- A call for grants to become an EMODnet Biology associated data partner will be launched. We invite partners to contribute to the project with more data to fill gaps and increase the EMODnet biology datasystem. The call for grants will be published on line, by the end of July and will close 15th of October, 2017. More information will be available at <http://www.emodnet-biology.eu/call-grant-associated-data-partner>

### Work Package 2: Data Management (Lead partner VLIZ)

- The data management team is currently focusing on **describing the metadata** of all the datasets that will be delivered during the project, so that these datasets can be discovered through the EMODnet Biology Data Catalogue (<http://www.emodnet-biology.eu/data-catalog>). This list will be described in D2.1: Assessment of data and databases, including list of datasets that will be used for creation of products. We plan to deliver this deliverable by July 30th. A working list of the datasets that will be delivered during the project are available at [https://docs.google.com/spreadsheets/d/1iK-b7s0j0F-3ULeKG0in0TWedj\\_1fl7p7ADlvG7agfE/edit#gid=2028958388](https://docs.google.com/spreadsheets/d/1iK-b7s0j0F-3ULeKG0in0TWedj_1fl7p7ADlvG7agfE/edit#gid=2028958388)

WP3: Data archaeology and rescue (Lead partner HCMR)

- A dashboard is being finalized to follow up the progress of WP3 data entry.
- Work on Villefranche dataset resumed: we will split the big dataset in several, basically on the couples taxonomic group / gear because depending on that, the abundance is not in the same units, and it created confusion in the original dataset.
- Review of the status of the LifeWatchGreece datasets ongoing to push those almost finished for publication in MedOBIS & EMODnet Biology
- NMRD started to deliver dataset parts for QC.

WP 5 : Outreach & Uptake (Lead partner MBA)

- The initial focus for WP5 is the planning, organisation and delivery of an **international workshop** to define the requirements for data products being developed in WP4. By working in close partnership with key stakeholders in the Regional Sea commissions, the EU and international bodies we will refine the data product requirements, framed by what is possible within the constraints of data and resource availability. The workshop was initially scheduled to take place in M3 of the project, however this would fall during the summer holiday period for many countries. In order to maximise attendance and align with other meetings planned for ICES and OSPAR the decision was made to move the workshop to early October 2017. Personal invitations to relevant stakeholders are now sent to attend the workshop:

**Essential Marine Biological Data Products Workshop, London – 10th October 2017**

- In addition, work has begun to form collaborations and partnerships with complimentary projects including AtlantOS and GLOBIS-B to minimise duplication and ensure that the outputs from EMODnet Biology Phase 3 are as relevant, accessible and essential as is possible.

WP5: Data product creation (Lead: Deltares)

- Discussions on the **functionalities and scope of the deliverable: D4.1: Atlas of data products of European Marine Life**. The atlas is a joint effort where other WP's, and even other EMODNET lots, play an important role. In particular, WP5 and the International Workshop will be important in determining the demands from the user community.
- Construction of a **Wish list of environmental layers**, for purpose of species distribution modelling, that will be further discussed with the other lots and refined. This work is done together with the Seabed Habitats Lot. The list has been communicated to the different lots aswell. The idea is to work towards a set of gridded layers with a common resolution over all variables.

WP 6: Technical update EMODnet biological portal & machine to machine connections (Lead VLIZ)

- During this period the plans for portal development were presented at the April kick-of meeting in Oostende. The Emodnet Biology Portal will continue to increase its functionality and services provided to the users. The portal was already operational before the start of phase III. Further improvements to the portal will be presented ahead of yearly meetings after which partners feedback is welcome. Interoperability of data products across EMODnet's thematic lots will be discussed during the upcoming Emodnet Technical Working group meeting in Italy.
- A new tutorial movie to use the download toolbox has been created and is available at: <http://www.emodnet-biology.eu/tutorials>
- A clear description of the EMODnet Biology API and how to access its web services has been published at: <http://www.emodnet-biology.eu/emodnet-biology-api>

## 2. 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

- The subcontractor PANGAEA decided to step out of the project. This will however not have any impacts on the foreseen deliverables of the project. The budget will be moved to the call of grants to become an Associated data partner to add more content to the datasystem.
- Start of work in WP3 was slightly delayed in HCMR due to new rules of recruitment in Greek administration.

## 3. 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
31/01/2017	/	Scientific	Technical: I'm interested in accessing emodnet biological dataset through WFS (I'd tried to toggle on the WFS in map viewer but I dont see the "address"). The purpose is to include it in a webgis for marine conservation.	We created a clear description and overview of the EMODnet API & web services at <a href="http://www.emodnet-biology.eu/emodnet-biology-api">http://www.emodnet-biology.eu/emodnet-biology-api</a>
01/02/2017	/	Scientific	Technical: On the Data Download page I wanted to download all records of a species from my country's EEZ (UK). In the 'select geographic area' section there is an option to search by EEZ but many EEZs are missing, e.g. the UK, France, Germany, Belgium, etc. I think many people would find it useful to be able to search by their country's EEZ. Thanks.	A bug, took 6 days to solve.
23/06/2017	/	Scientific	Invited to workshop to explore opportunities between Aquanis, MSFD, EASIN and EMODnet	Will attend workshop in September

## ***Annex 1 Updates on Progress Indicators***

*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***

Date	Records	Name Dataset	Dataprovider
2017-01-22	16459	Type locality distributions from the World Register of	WoRMS

21:03:02.030		Marine Species	
2017-01-27 14:14:28.443	277	Manipulative field experiment to study the predation by epibenthos on infaunal macrobenthos in a <i>Cerriops tagal</i> mangrove at Gazi Bay in 1992	KMFRI
2017-01-27 14:14:28.443	81	Population structure of penaeid shrimps sampled in Tudor Creek (Kenya) between January and May 1986	KMFRI
2017-01-27 14:14:28.443	1106	Epiphytic macroalgae vegetation on pneumatophores in the mangrove of Gazi Bay sampled between August and September 1989	KMFRI
2017-01-27 14:14:28.443	1910	Meiobenthos of 5 mangrove vegetation types at Gazi Bay (Kenya) in August 1989	KMFRI
2017-01-27 14:14:28.443	2728	An experimental approach to study epi-and infauna of mangrove forests in Gazi Bay (Kenya) between August 1992 and July 1993	KMFRI
2017-01-27 14:14:28.443	642	Vegetation of the tidal channels in Gazi Bay (Kenya) sampled between July and September 1989	KMFRI
2017-01-27 14:14:28.443	48	Faunal species composition of brackish water crabs at Gazi, Kanamai, Bamburi and Mkomani (Kenya)	KMFRI
2017-01-27 14:14:28.443	1167	Zooplankton and phytoplankton densities in the oyster farms of Gazi Creek (Kenya) sampled in October 1992	KMFRI
2017-01-27 14:14:28.443	943	Seasonal fluctuation of the meiobenthos community in <i>Avicennia marina</i> mangrove sediments at Gazi Bay (Kenya) between 1992 and 1993	KMFRI
2017-01-27 14:14:28.443	449	Zooplankton community of Shirazi bay (Kenya) sampled between April and December 1998	KMFRI
2017-01-27 14:14:28.443	3	LifeWatch observatory data: reference collection of unique observations in the Belgian Part of the North Sea	VLIZ
2017-02-22 21:03:00.037	16570	Type locality distributions from the World Register of Marine Species	WoRMS

2017-03-21 09:21:08.470	3795	ImagDOP Benthic Video Annotations in Condor seamount in 2010	IMAR
2017-03-21 09:21:08.470	300	Zooplankton abundance for six 24hrs sampling series across Port Reitz Creek (Mombasa, Kenya) in 1985 and 1986	KMFRI
2017-03-21 09:21:08.470	164	Harpacticoid copepods in tropical seagrass beds of Gazi Bay (Kenya) and Mbwani (Zanzibar) sampled in July and August 1996	KMFRI
2017-03-21 09:21:08.470	107	Dictyotales (Phaeophyta) of Kenya and Tanzania sampled between 1985 and 1994	KMFRI
2017-03-21 09:21:08.470	47	Abundance of <i>Echinothrix diadema</i> and its substrate coverage in the Mombasa Marine National Park and Reserve (Kenya) in September-October 1997	KMFRI
2017-03-21 09:21:08.470	146	Counts of epibenthic fish species sampled at Gazi Bay on 17 and 19 July 1996	KMFRI
2017-03-21 09:21:08.470	71	Fish community in Gazi Creek sampled between November 1990 and April 1991	KMFRI
2017-03-21 09:21:08.470	97	Counts of isopods sampled at Gazi Bay (Kenya) between 18 and 25 October 1994	KMFRI
2017-03-21 09:21:08.470	82	Kenyan reef corals sampled in November 1990	KMFRI
2017-03-21 09:21:08.470	35	Macrofaunal composition and zonation on sandy beaches at Gazi, Kanamai and Malindi Bay Kenya between April and December 1986	KMFRI
2017-03-21 09:21:08.470	54	Concentrations of phytoplankton, chlorophyll, POC, dry weight measurements and abiotic data in the surface water of Gazi creek (Kenya) sampled in August 1989	KMFRI
2017-03-21 09:21:08.470	133	Ecomorphology of the mangrove oyster <i>Crassostrea cucullata</i> in a mangrove swamp in Gazi (Kenya) in May 1991	KMFRI
2017-03-21	1980	Abundance of marine flora along the Kenyan coast between	KMFRI



09:21:08.470		July 1986 and February 1987	
2017-03-21 09:21:08.470	228	Microphytoplankton along four transects off the Kenyan coast in 1992	KMFRI
2017-03-21 09:21:08.470	53	Counts of Mysidacea sampled at night in Gazi Bay in October 1994	KMFRI
2017-03-21 09:21:08.470	424	Length, width and weight of <i>Echinotrix diadema</i> and <i>E. Calamaris</i> species sampled in Mombasa Marine National Park (Kenya) from December 1994 to March 1995	KMFRI
2017-03-21 09:21:08.470	20	Counts of Mysidacea from Gazi (Kenya), Uroa (Zanzibar) and Ambon (Indonesia) sampled between October 1994 and July 1996	KMFRI
2017-03-21 09:21:08.470	601	Algal community on the pneumatophores of mangrove trees of Gazi Bay in July and August 1987	KMFRI
2017-03-21 09:21:08.470	770	Waterbird observations in Lake Victoria wetlands, south Kenya coast and Tana River dams (Kenya) in 1995	KMFRI
2017-03-21 09:21:08.470	870	Zooplankton community in Gazi Creek sampled monthly between 1990 and 1991	KMFRI
2017-03-22 21:02:54.853	16776	Type locality distributions from the World Register of Marine Species	WoRMS
2017-04-22 21:02:54.220	16861	Type locality distributions from the World Register of Marine Species	WoRMS
<b>Total between January 2017 and official start project: 35 datasets - 85997 records</b>			
2017-04-25 10:00:24.257	1068	Trawl-survey data from the Pipeta programme in the Northern Adriatic Sea (Mediterranean) collected in 1988 and 1991	OGS
2017-04-25 10:00:24.257	556	Trawl-survey data in the Adriatic Sea (Mediterranean) collected in 1972, 1975 and 1981	OGS

2017-04-25 10:00:24.257	1976	Trawl-survey data from the Pipeta Expedition in the Adriatic Sea (Mediterranean) collected in 1982	OGS
2017-04-25 10:00:24.257	3139	Trawl-survey data in the central-eastern Adriatic Sea (Mediterranean) collected in 1957 and 1958	OGS
2017-04-25 10:00:24.257	3275	Trawl-survey data from the "expedition Hvar" in the Adriatic Sea (Mediterranean) collected in 1948-1949	OGS
2017-04-25 10:00:24.257	9723	Trawl survey data from the Jabuka Pit area (central-eastern Adriatic Sea, Mediterranean) collected between 1956 and 1971	OGS
2017-05-22 21:03:18.800	16961	Type locality distributions from the World Register of Marine Species	WoRMS
2017-06-12 13:48:16.007	496	Community structure and seasonal fluctuation of macrobenthos in a <i>Cerriops tagal</i> mangrove sediment at Gazi Bay in 1992 and 1993	KMFRI
2017-06-12 13:48:16.007	865	Epibenthic and fish community in Gazi Bay sampled from 12-15 October 1994	KMFRI
2017-06-12 13:48:16.007	42	Mangrove crabs and their relationship with the environment in mangrove forests of Dabaso and Gazi (Kenya) sampled in 1998 and 1999	KMFRI
2017-06-12 13:48:16.007	380	Seagrasses and associated macroalgae at West Gazi bay during July and August 1987 and abiotic data of the corresponding sampling locations	KMFRI
2017-06-12 13:51:41.830	4228	Mesozooplankton North Adriatic-Gulf of Trieste LTER time-series	OGS
2017-06-12 13:51:41.830	1236	Phytoplankton Adriatic-SESAME Project	OGS
2017-06-12 14:05:57.880	1976	Trawl-survey data from the Pipeta Expedition in the Adriatic Sea (Mediterranean) collected in 1982	OGS
2017-06-22 21:03:16.387	17141	Type locality distributions from the World Register of Marine Species	WoRMS

**Total for first quarterly reporting: 15 datasets – 63062 records**

*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)*

<b>Organisation</b>	<b>Country</b>	<b>Type</b>	<b>#</b>
Institute of Marine Research (IMAR)	Portugal	Research	1
National Institute of Oceanography and Experimental Geophysics (OGS)	Italy	Research	9
Flanders Marine Institute (VLIZ)	Belgium	Research	34
WoRMS SC	Int	Research	6

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

*None*

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

<b>Organizations (distinct)= 59</b>
GAZÄ° UNIVERSITY
University of York
JNCC
Haifa university
Earth Science Institute, Slovak Academy of Sciences
Vliz
CEFAS
Utwente
Ramboll
University of Aberdeen
Hartley Anderson Ltd
UNIMIB
University of Alaska
MESL
CSIRO
Deutsches Schiffahrtsmuseum
CSIRO

Newcastle
OGS
University of Sheffield
Uni of Hull
IPMA, IP
IPLR
Universiteit Twente
GEOMAR
Estonian Marine Institute, University of Tartu
Marine Geospatial Ecology Lab, Duke University
University of Miami - RSMAS
University of Miami
SMHI
OSU
The Oslo School of Architecture and Design
AHO
University of the Azores
Circolo 1554
CIIMAR
University of Alberta
Marine Institute

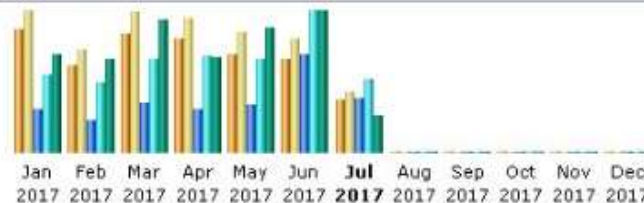
Plymouth University
University of Padova
Klaipeda University
Observatorio Ambiental Granadilla
Spanish Research Council
QMUL
Finnish Environment Institute
Alfred-Wegener-Institut, Helmholtz-Zentrum für Polar- und Meeresforschung
QMUL
MSC
MSC
Heriot Watt University
Heriot Watt University
UN-IHE Delft
EurÅka ModÅ©lisation
smhi
Hebrew University
NIMRD "Grigore Antipa"
Colruyt Group
Tokyo University of Marine Science and Techonology
University of MÅjlaga

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

Date	Number of downloads
01/01/2017 – 19/04/2017	214 downloads
20 April – 30 April 2017	7 downloads
May 2017	69 downloads
June 2017	224 downloads
1-16 July 2017	9 downloads

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

#### Monthly history



Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2017	12,160	13,967	34,040	60,675	77.02 GB
Feb 2017	8,590	10,185	25,107	54,461	73.38 GB
Mar 2017	11,792	13,818	38,941	73,689	104.37 GB
Apr 2017	11,201	13,255	33,669	75,280	74.58 GB
May 2017	9,704	11,896	37,543	73,930	97.66 GB
Jun 2017	9,264	11,223	77,365	110,955	110.74 GB
<b>Jul 2017</b>	5,254	6,025	42,126	56,906	29.44 GB
Aug 2017	0	0	0	0	0
Sep 2017	0	0	0	0	0
Oct 2017	0	0	0	0	0
Nov 2017	0	0	0	0	0
Dec 2017	0	0	0	0	0
<b>Total</b>	<b>67,965</b>	<b>80,369</b>	<b>288,791</b>	<b>505,896</b>	<b>567.19 GB</b>

*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.)*

<b>Purposes data download</b>	<b>Category</b>
A Postdoctoral study on vulnerability analysis of Barcelona coasts	Science
A research about the vertical distribution of Pteropods	Science
Academic	Science
analysis	Science
Analysis of impacts of climate change/thrawling on benthic species in the NS	Science
assesment	Assessment
Assessment	Assessment
Assessments	Assessment
Biodiversity mapping	Science
biogeography	Science
biogeography	Science
Biogeography of copepods.	Science
Biogeography of gastropods	Science
Check our app	Application
Collaboration with CEFAS for matching occurrence data of benthic organisms in the North Sea to habitat characteristics.	Science
Collation of data RE: EU project	Application
College Course Final Project	Courses
compositional analysis of benthic communités	Science



compositional analysis of benthic communities	Science
Coursework	Courses
Crustacea in North Sea	Science
Crustaceans North Sea	Science
curiosity	Other
Data check	Science
data exploration and analysis	Science
data for school project	Courses
Data is required for project concerned with marine ecosystem structure and function in the north sea and the effect of hard substrate.	Science
Data processing for species	Science
data required for project concerned with the structure and function of the ecosystem in the north sea and how it is affected by hard substrate	Science
Data required for project concerned with the structure and function of the marine ecosystem of the North Sea and the affect of hard substrate.	Science
Data required for project concerned with the structure and function of the marine ecosystem of the north sea and the effect of hard substrate.	Science
Data will be used to support the CBD EBSA meeting for the Black Sea	Assessment
dfafd	Other
Doing a Postdoctoral Research on vulnerability of Barcelona Coasts	Science
Edit to previous request, lifestages and full taxonomy added	Science
embsa	Science
Environmental Assessment	Assessment

exploration	Science
fdsf	Other
Fisheries Research	Science
For use in GIS	Science
For use in PhD reasearch, thanks!	Science
GIS exercise	Science
GIS exercise 2	Science
Global Trawling Best Practises Study	Science
I am a PhD student working on questions of community dynamics. I am interested in gathering some datasets and testing whether they behave according to several dynamical models which we've developed.	Science
Identify VMEs in the Azores	Science
Mapping species data	Science
Mapping species distribution	Science
Mapping species distributions	Science
marine mapping	Science
MSc	Science
MSc project	Science
MsC studies	Science
My name is Merli Põõrnoja and I am currently working under the INTERREG project Baltic Blue Growth. One of our aims in this project is to prepare the Baltic Sea database on mussel growth and environmental impacts related to mussel farming. The data will be used to model the production potential of mussels and sensitivity of the environment to the mussel farming.	Science
New version with more columns	Science

observational data	Science
Onderzoek phd	Science
personal use	Science
Personal use. No publication	Science
Personal use. No publication.	Science
Phd research	Science
PhD thesis.	Science
project for college course	Science
Project for GIS course	Courses
purpose	Courses
Research	Science
Research	Science
Research on the effects of climate change	Science
Review	Science
school project	Courses
science	Science
Scientific research	Science
Scientific study	Science
Spatial data distribution for a project	Science
Spatial distribution data for a project	Science
Species distribution	Science

Species distribution data for a project	Science
Species distribution data is required for a project concerned with the structure and function of the north sea ecosystem and how it is affected by hard substrate.	Science
Species distribution for a project	Science
Species distribution for a project.	Science
Species distribution for project	Science
Species distribution mapping	Science
Species distribution maps	Science
species distribution required for a project	Science
species distribution required for project	Science
Species mapping	Science
Species mapping data	Science
species spatial distribution data required for project	Science
species spatial distribution required for project	Science
Studio study survey	Science
study and survey	Science
Study of mussel mortality in relation to wild mussel location.	Science
Study of NS benthic community changes	Science
Teaching (multivariate analysis)	Courses
test	Science
test DP-311	Science
Test the own data downloading process!	Science

test voor demo	Courses
test2	Science
testing	Science
Testing purposes	Science
Testing purposes (curl issue)	Science
The data will be used to support the CBD EBSA planning meeting in Baku Azerbaijan	Assessment
These data will be used to support the CBS EBSA meeting in Baku, Azerbaijan	Assessment
trait test	Science
traits work	Science
trawling analysis	Science
Trawling best practises analysis	Science
understanding species distribution for project	Science
University module research project	Science
university undergraduate	Science
Used to support the CBD Black Sea EBSA meeting	Assessment
Used to support the CBD EBSA meeting for the Black Sea	Assessment
VMEs location	Science

*Indicator 8 - List of web-services made available and user organisations connected through these web-services*

Description of webservices are now available at:



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