



EMODnet Thematic Lot n° 5 - Biology

EMODnet Phase III - Quarterly Report

Reporting Period: 01/07/2017 – 30/09/2017

Date: 16/10/2017

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1. Highlights in this reporting period

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 Consortium Agreement between VLIZ and the 21 partners has been drafted and was signed by all partners on 22/09/2017. The signed document has been sent to all partners.
- Participation in the Genua technical meeting (5-6/07/2017) to discuss performance indicators for Biology (Task 7) and to discuss interoperability of data products across different themes (Task 3)
- Participation in the Rome Steering Committee meeting (13-15/09/2017) to discuss progress, including proposal new indicators (Task 7)
- A feedback form has been added to the website (Task 8)
- A call for grants to become an EMODnet Biology associated data partner has been launched on 17/07/2017 and will close on 15/10/2017. . We invite partners to contribute to the project with more data to fill gaps and fill the EMODnet biology datasystem. The call for grants was published at <http://www.emodnet-biology.eu/call-grant-associated-data-partner> and was tweeted through the EMODnet tweet. It was retweeted 40 times <https://twitter.com/EMODnet/status/907151478833532928>

Work Package 2: Data Management (Lead partner VLIZ)

- The first deliverables of WP2, (D2.1): Assessment of data and databases, including list of datasets that will be used for creation of products has been published. The deliverable is available under the folder EMODnet_Biology_III/Deliverables at <http://www.emodnet-biology.eu/documents>.

During the first three months of the EMODnet Bio 3 project, the data management team WP2 has focused 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>). In total, 95 new datasets will be delivered to EMODnet Biology 3. D2.1 contains the number of new datasets that each partner will contribute, including an indication of the data exchange format that will be used and the focus

in terms of functional groups that will be included in the data. (Task 1: Develop a common method of access to data held in repositories).

WP3: Data archaeology and rescue (Lead partner HCMR)

- The MedOBIS IPT (ipt.medobis.eu) has been entirely re-installed and set up due to incompatibility with some components after recent updates, and the reorganization of servers in HCMR/Crete. A large part of the time was dedicated to that activity (Task 4).
- D3.1 Scientific document presenting the data archeology and rescue strategy of the project:
 - The dataset on Plankton from Villefranche has been published (in fact split in several ones).
 - The fixation of this dataset has allowed us to improve the data flow, by taking into account the heterogeneity of gears and methods used for this dataset. Following the OBIS-ENV schema has led us to structure the dataset in 4 different ones around this information in order to simplify the metadata description, and the quality control.
 - However, it took much of our time, and the reviewed workflow will be published by the 15 November.
- D3.2: Report on the digitization of 3 datasets under the modified procedure
 - Due to the activities above, the test of the protocol on other datasets just started in September and are on-going, we delayed the publication of the reports by the end of November.
 - The digitization of 3 test datasets started in September.
- Activities under D3.3: Update of the list of the 76 datasets along with a list of selected datasets for digitization
 - To select the datasets for D3.2, we advanced D3.3 and have listed a number of potential datasets in addition to those listed under EMODNET2. The deliverable is planned on time.
- Activities under D3.4: Policy report on biodiversity data management sent to research organizations
 - Phytoplankton dataset 1961 – 1970: ready in DwC for publishing; historical sheets scanned.
 - Zooplankton dataset 1961 – 1970: ready in DwC for publishing; historical sheets scanned and bibliography scanned. Period 1971-1980 in preparation.
 - Zoobenthos datasets 1986 – 1990: ready in DwC for publishing; bibliography to be scanned.
 - Macrozoobenthos dataset 1977-1999: to be started.
 - Other partners: digitization process ongoing.

WP 4 : Outreach & Uptake (Lead partner MBA)

- During this reporting period, all effort went into the organisation of the international stakeholder workshop entitled Essential Marine Biological Data Products Workshop, London – 10th October 2017. Overall objective of this workshop is 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. We have confirmed participation from OSPAR, Helcom, UNEP-MAP, Black Sea Commission, EEA, WWF, UNEP-WCMC, IODE-IOC, GOOS, IOOS, MBON, NOAA, GLOBISB, GEOBON, AECOM and WP5 partners. (Task 5: Ensure the involvement of regional sea conventions & Task 6: Facilitate interoperability with data distributed by non-EU organisations)

WP5: Data product creation (Lead: Deltares)

- Further discussion on the content and the scope of the European Atlas of Marine Life. A concept note on the outline of the product is under development. Before publishing, this document needs more input from the stakeholder workshop (Task 2)
- Benthic functional trait data analysis: As part of an extensive trait data collection at the world scale, efforts were concentrated on European seas. Presently, there are 441 European species documented (from the Arctic to the Mediterranean) for 14 biological traits. The basis of the data originates from a previous work as part of the DEVOTES project (7th Framework Program) where trait documentation was done on the North Sea benthic fauna from which indicators of faunal vulnerability to beam-trawling were successfully achieved (ongoing publication). The current extension of this data set reveals that the pattern of trait correlations is unchanged at the European scale, as it is also at the world scale and strongly supports a generalization for building universal indicators. For the present time, the compilation provides an exhaustive list of documented arthropods and a large part of documented annelids. Some works remain to be achieved on mollusks and echinoderms in the coming months. Nevertheless, the documented taxa already represent a large part of the total community biomass so that a first map including an almost exhaustive coverage of several northern European seas can be envisaged soon (Task 2).

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

- A major update of the geospatial infrastructure of EMODnet Biology has been made. The hardware set-up where the EMODnet-biology Toolbox database was running on was examined, after which various optimizations were implemented: the database moved to another server, one which is better suited for dealing with resource intensive queries (SSDs are now used for

locale storage, lots of RAM to allocate, ...). Besides those hardware improvements, we made sure that our server ran the latest version of Geoserver (2.11) and PostgreSQL (9.6) in order to be sure we are taking advantage of all latest improvements. (Task 4).

- EMODnet biology participated in the technical working group meeting of EMODnet in Genua, July 2017. They reported on the data and data product workflow.
- More input has been given to the description page of the EMODnet Biology API, published at: <http://www.emodnet-biology.eu/emodnet-biology-api>
There is now a description available on how to retrieve occurrence data and measurement data through WFS, how to query WoRMS using the AphiaID, how to query IMIS, using the datasetID and how to retrieve data from the gridded abundance dataproducts using WMS/WFS. (Task 3).

2. Specific challenges or difficulties encountered during the reporting period

The stakeholder workshop, important to define the requirements of the regional seas and the international networks for the construction of biological data products was switched from M3 to M6. Therefore the development of the data products was a bit delayed, but the deliverables are still feasible within the proposed timeline.

3. 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.

[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
23/06/2017	/	Scientific	Invited to workshop to explore opportunities between Aquanis, MSFD, EASIN and EMODnet	Attended the workshop on 06/09/2017 at IEO, Madrid. Links between WRiMS, AquaNIS and EASIN were discussed.
07/07/2017	/	U.S.	Calculation SDG14 product for	Provide feedback on

		Geological Survey	the GEO BON meeting using EurOBIS data from Norway	integration of abundance data
24/07/2017	/	JNCC	Use EurOBIS datascheme to store habitat data	We organized a workshop 24-25/07/2017 to discuss how EurOBIS datascheme can be used to store habitat data, next to species occurrences. We worked out a proposal and the OBIS ENv scheme will be used by EMODnet habitats
16/08/2017	/	ICES	Request to launch news OOPS Zooplankton products through ICES communication channels	News released on http://www.ices.dk/news-and-events/news-archive/news/Pages/Zoom-in-on-zooplankton-data.aspx
23/09/2017		ETT	With EMODnet Physics we discussed the Sea Mammals data (MEOP DataBase) and how the mammal observation could be interated into EurOBIS/OBIS.	We linked this with the global network of MEOP through the ODIP project. We will further develop a use case within ODIP on how to link physical-biological observations from MEOP
28/09		IMDC	Informaiton request on data licenses of EMODnet biological data	We made an analysis on what percentage of the EMODnet data is CC-BY and CC-BY-NC

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
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2017-07-22 21:03:23.210	17309	Type locality distributions from the World Register of Marine Species	WoRMS
2017-08-18 10:00:02.117	9265	Microzooplankton South Adriatic-PRISMA1-Flussi Project	OGS
2017-08-18 10:00:02.117	15224	Mesozooplankton abundance and biomass in Sevastopol Bay and inshore waters off the Crimean Coasts of the Black Sea	Update
2017-08-18 10:00:02.117	2500	Gelatinous macrozooplankton abundance and biomass in Sevastopol Bay and inshore waters off the Crimean Coasts of the Black Sea	Update
2017-08-18 10:00:02.117	737	Phytoplankton data collected in the Black Sea during a cruise of the R/V "Experiment"	Update
2017-08-18 10:00:02.117	14036	Phytoplankton of the northern part of the Black Sea 1992-1993	Update
2017-08-18 10:00:02.117	2670	Phytoplankton data collected in the Black Sea during 37 cruise of the R/V "Professor Vodyanitskiy"	Update
2017-08-18 10:00:02.117	2742	Phytoplankton data collected in the Black Sea during 33 cruise of the R/V "Professor Vodyanitskiy"	Update
2017-08-18 10:00:02.117	1527	Phytoplankton data collected in the Black Sea during the 5th cruise of the R/V "Kiev"	Update
2017-08-18 10:00:02.117	879	Cetacean sightings in the Black Sea, Sea of Azov and Kerch Strait	Update
2017-08-18 10:00:02.117	26357	Zooplankton in the Ukraine Black Sea shelf (1989-2005)	Update
2017-08-18 10:00:02.117	27015	MAREANO - Base-line mapping of fauna obtained with grab	IMR
2017-08-18 10:00:02.117	15733	MAREANO - Base-line mapping of epifauna obtained with Beamtrawl	IMR
2017-08-18 10:00:02.117	9967	MAREANO - Base-line mapping of hyperbenthic crustacea fauna obtained with RP-sledge	IMR
2017-08-18 10:00:02.117	3944	Phytoplankton monitoring in the Trieste harbour - North Adriatic Sea (FERRIERA), 2008-2014	OGS

2017-08-18 10:00:02.117	201	Phytoplankton monitoring in the Trieste harbour, North Adriatic Sea (Port Authority), March 2015	OGS
2017-08-18 10:00:02.117	605	Polychaeta distribution data from: Deep-sea fauna of European seas - an annotated species check-list of benthic invertebrates living deeper than 2000 m in the seas bordering Europe	WoRMS
2017-08-18 10:00:02.117	2063	Phytoplankton monitoring data from Sevastopol Bay (Black Sea) from 1952 to 1963	Update
2017-08-18 10:00:02.117	9630	Zooplankton from the north-eastern Black Sea	Update
2017-08-18 10:00:02.117	214	Benthic data from Sevastopol (Black Sea)	Update
2017-08-18 10:00:02.117	2627	Phytoplankton data collected in the Black Sea during 107 cruise of the R/V "Kovalevskiy"	Update
2017-08-18 10:00:02.117	8692	YugNIRO-1 - Macrozoobenthos data and accompanied environmental data from the Black Sea	Update
2017-08-18 10:00:02.117	2831	Phytoplankton data collected in the Black Sea during the 33rd cruise of the R/V "Professor Kolesnikov" in 1995	Update
2017-08-18 10:00:02.117	4758	Phytoplankton monitoring data from a polygon near Belbek River (Black Sea) from 1987 to 1990	Update
2017-08-18 10:00:02.117	774	Zooplankton data collected during cruises on the R/V Knipovich in April 1950	Update
2017-08-18 10:00:02.117	1006	Phytoplankton collected in the Mediterranean Sea in 1959 on board the R/V Akademik S. Vavilov	Update
2017-08-18 10:00:02.117	1829	Benthos collected in the Azov Sea in 1935 on board the R/V N. Danilevskiy	Update
2017-08-18 10:00:02.117	1258	Benthos collected in the Azov Sea during several expeditions in 1934-1935	Update
2017-08-18 10:00:02.117	2837	Phytoplankton data collected in the Black Sea during the 117th cruise of the R/V "Kovalevskiy" in 1990	Update
2017-08-18 10:00:02.117	4156	Phytoplankton data collected in the Black Sea, Bosphorus area, Marmara Sea, Aegean Sea, Ionian Sea, Tunisian Strait, and Mediterranean Sea during the 65th cruise of the R/V	Update

		"Kovalevskiy" in 1969-1970	
2017-08-18 10:00:02.117	263	Phytoplankton data collected in the Black Sea and Bosphorus area during a cruise of the R/V "Mgla", year 1968	Update
2017-08-18 10:00:02.117	146	Phytoplankton data collected in the Black Sea and Bosphorus area during a cruise of the R/V "Mgla", year 1969	Update
2017-08-18 10:00:02.117	421	Phytoplankton data collected in the Black Sea during the 4th cruise of the R/V "Kiev" in 1995	Update
2017-08-18 10:00:02.117	176	Phytoplankton data collected in the Black Sea in 1958	Update
2017-08-18 10:00:02.117	716	Phytoplankton data collected during R/V Issledovatel cruise in October 1948	Update
2017-08-18 10:00:02.117	418	Phytoplankton data from the Sukhumi region, Black Sea, collected in November 1948	Update
2017-08-18 10:00:02.117	808	Phytoplankton data collected in deep waters of the halistatic region of the Black Sea in September 1948	Update
2017-08-18 10:00:02.117	1132	Phytoplankton data collected during cruises on the R/V Knipovich in 1948 and 1950	Update
2017-08-18 10:00:02.117	989	Phytoplankton data collected near Yalta, Black Sea, in June 1950	Update
2017-08-18 10:00:02.117	787	Phytoplankton data collected during First Ukrainian Antarctic Expedition (March 1997) on board of R/V Krenkel in Bransfield strait and region of Ukrainian Antarctic Station	Update
2017-08-18 10:00:02.117	3072	Phytoplankton data collected during cruise 22 of R/V Fiolent (December 1987 – April 1988) in the Indian sector of the Southern Ocean	Update
2017-08-18 10:00:02.117	526	Microzooplankton data (Tintinnida) collected during 7-th Ukrainian Antarctic Expedition (March, 2002) on board of R/V Horizont (Bransfield Strait)	Update
2017-08-18 10:00:02.117	3049	Phytoplankton data collected during cruise 37 (second joint Soviet-American expedition) of R/V Akademik Korolev (July 1984) in the Bering Sea	Update

2017-08-18 10:00:02.117	165	Microzooplankton data (Tintinnida) collected during First Ukrainian Antarctic Expedition (March-April 1997) on board of R/V Krenkel	Update
2017-08-18 10:00:02.117	2345	Phytoplankton data collected during Second Ukrainian Antarctic Expedition (March-April 1998) on board of R/V Krenkel	Update
2017-08-18 10:00:02.117	2034	Phytoplankton samples collected near Sochi, Black Sea, in 1974-1975 (sochi_1974-1975)	Update
2017-08-18 10:00:02.117	771	Phytoplankton data collected in the Black Sea along the Tuapse transect in August 1951	Update
2017-08-18 10:00:02.117	3906	Phytoplankton data of Sevastopol Bay of the Black Sea during 1972	Update
2017-08-18 10:00:02.117	2414	Phytoplankton data collected during cruise 24 of R/V Skif (February - March 1989) in the Indian sector of the Southern Ocean	Update
2017-08-18 10:00:02.117	488	Phytoplankton data collected during cruise 25 of R/V Skif (January 1990) in the Indian sector of the Southern Ocean	Update
2017-08-18 10:00:02.117	677	Phytoplankton data collected during a cruise in the Black Sea in May 1957	Update
2017-08-18 10:00:02.117	550	Phytoplankton data collected in the Black Sea in February 1957	Update
2017-08-18 10:00:02.117	1230	Zooplankton collected in the Black Sea along the Yalta-Batumi transect in February 1951	Update
2017-08-18 10:00:02.117	957	Zooplankton collected in the Black Sea during Cruise 5 in February 1957	Update
2017-08-22 21:03:42.040	17599	Type locality distributions from the World Register of Marine Species	WoRMS
2017-09-22 21:03:08.380	17861	Type locality distributions from the World Register of Marine Species	WoRMS
2017-09-29 10:54:48.110	3137	Phytoplankton South Adriatic-PRISMA1-Flussi Project	OGS
2017-09-29	2068	Semi-quantitative microplankton analysis (Sylt Roads Time Series)	PANGAEA

10:54:48.110		in the Wadden Sea off List, Sylt, North Sea in 2013	
2017-09-29 10:54:48.110	2038	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2012	PANGAEA
2017-09-29 10:54:48.110	2333	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2011	PANGAEA
2017-09-29 10:54:48.110	2121	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2010	PANGAEA
2017-09-29 10:54:48.110	2376	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2009	PANGAEA
2017-09-29 10:54:48.110	2323	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2008	PANGAEA
2017-09-29 10:54:48.110	2711	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2007	PANGAEA
2017-09-29 10:54:48.110	2606	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2006	PANGAEA
2017-09-29 10:54:48.110	2637	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2005	PANGAEA
2017-09-29 10:54:48.110	2818	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2004	PANGAEA
2017-09-29 10:54:48.110	2766	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2003	PANGAEA
2017-09-29 10:54:48.110	2942	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2002	PANGAEA
2017-09-29 10:54:48.110	2673	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2001	PANGAEA
2017-09-29 10:54:48.110	2587	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 2000	PANGAEA
2017-09-29 10:54:48.110	3122	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1999	PANGAEA
2017-09-29	3066	Semi-quantitative microplankton analysis (Sylt Roads Time Series)	PANGAEA

10:54:48.110		in the Wadden Sea off List, Sylt, North Sea in 1998	
2017-09-29 10:54:48.110	2775	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1997	PANGAEA
2017-09-29 10:54:48.110	1949	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1996	PANGAEA
2017-09-29 10:54:48.110	2899	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1995	PANGAEA
2017-09-29 10:54:48.110	2962	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1994	PANGAEA
2017-09-29 10:54:48.110	2962	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1994	PANGAEA
2017-09-29 10:54:48.110	2542	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1993	PANGAEA
2017-09-29 10:54:48.110	3127	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1992	PANGAEA
2017-09-29 10:54:48.110	2725	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1991	PANGAEA
2017-09-29 10:54:48.110	2855	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1990	PANGAEA
2017-09-29 10:54:48.110	2914	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1989	PANGAEA
2017-09-29 10:54:48.110	2320	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1988	PANGAEA
2017-09-29 10:54:48.110	1774	Semi-quantitative microplankton analysis (Sylt Roads Time Series) in the Wadden Sea off List, Sylt, North Sea in 1987	PANGAEA
2017-09-29 10:54:48.110	2139	Mesozooplankton South Adriatic-PRISMA1-Flussi Project	OGS
2017-09-29 10:54:48.110	319	Seasonal variation of the zooplankton community at Gazi, Lamu and Malindi (Kenya) sampled between 1990 and 1992	KMFRI
2017-09-29	2485	Study of epifauna and meiobenthos by means of cage experiments in a <i>Cerriops tagal</i> and <i>Avicennia</i>	KMFRI

10:54:48.110		marina mangrove at Gazi Bay (Kenya) in August and September 1992	
2017-09-29 10:54:48.110	2183	Study of epifauna and meiobenthos using field exclusion experiments in a <i>Cerriops tagal</i> and <i>Avicennia marina</i> mangrove at Gazi Bay (Kenya) in August and September 1992	KMFRI
2017-09-29 10:54:48.110	8	Summary of benthos at Gazi Bay, Kenya (EC-project 1989-1992)	KMFRI
2017-09-29 10:54:48.110	28598	Personal library collection of Martin Angel of published and unpublished Halocyprid (Ostracoda) occurrences	WoRMS
2017-09-29 10:54:48.110	1289	Phytoplankton monitoring in the South Adriatic (Adricosm-STAR project), 2008-2009	OGS
2017-09-29 10:54:48.110	690	Faunistic factors in the regeneration of mangroves of Gazi Bay and Mida Creek (Kenya)	KMFRI
2017-09-29 10:54:48.110	139	Macrobenthos of the mangroves of Gazi Bay (Kenya) sampled in September 1990	KMFRI
2017-09-29 10:54:48.110	1610	Diversity of meiobenthos in tropical seagrass beds of Gazi Bay (Kenya) sampled from 16 to 19 July 1996	KMFRI
Total for second quarterly reporting: 94 datasets – 369,512 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)

Organisation	Country	Type	#
Institute of Marine Research (IMR)	Norway	Research	3
National Institute of Oceanography and Experimental Geophysics (OGS)	Italy	Research	6

AWI Long time series (thorough PANGAEA)	Germany	Research	27
WoRMS SC	Int	Research	5
Black Sea datasets (through IBSS)	Ukr	Research	46
KMFRI	Kenia	Research	7

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

Date	Number of downloads
01/07/2017 – 30/09/2017	94 downloads

Indicator 5 - Organisations that have downloaded each data type

Organizations (distinct)= 30
Heriot-Watt University
MSC
Freelance
Imperial
Institute for Hydrobiology and Fisheries Science
UFRN
BRL ingenierie

Deltares
Freelance
PANGAEA, Data Publisher for Earth and Environmental Science
UCA
University of MÃjlaga
AWI
BRL ingenierie
Cerema
enveco
Finnish Environment Institute
Heraspace startup candidate ESA BIC
Merkator
NIOZ
ogs
Portsmouth University
SINAY
SOCIB
Syke
Thales Research
UN-IHE Delft
University of Piraeus
VLIZ
Wageningen University & Research

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



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.)

Purposes data download	Category
Algorithms research	<i>Science</i>
Analysis of multiple species distributions	<i>Science</i>
Belgian Census	<i>Assessment</i>
Consulting services	<i>Commercial</i>
CSV	<i>Science</i>

Cumulative effet impact	Science
curiosity	Science
dataset check	Science
Dissertation Project	Science
Doing a Postdoctoral Research on vulnerability of Barcelona Coasts	Science
EEA biodiversity assessment	Assessment
Etude priv��	Commercial
Exploration of where Mathasterias glacialis lives (in the North Sea)	Science
For data analyse	Science
For Gis Analysis	Science
general analysis	Science
I am postdoc in Un-IHE Delft. I want to use biological datasets to evaulate the coastal sustainability level Barcelona Coasts	Science
investigating emodnet biology data products	Science
Je r��alise une ��tude de suivi sur l'esp��ce "Sardinella aurita" sur l'europe.	Science
Mapping species populations	Science
My thesis support	Science
Non-native species data check	Science
Parameterisation of an end-to-end Ecosystem model for the North-Sea.	Science
Posgraduate work	Science
preparing data products for Emodnet biology	Science
Project ATLAS	Science
Research	Science

Research for a fishery improvement project.	Science
Research for University MSc project in endangered threatened and protected species.	Science
Review	Science
science	Science
Scientific research	Science
species distribution	Science
species mapping	Science
Supported my thesis development	Science
Test	Science
testing performance	Science
Thesis support	Science
To populate conditional probability tables for a Bayesian Belief Network	Science

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

Description of webservices updated at:

<http://www.emodnet-biology.eu/emodnet-biology-api>