

EMODnet Biology September 2017

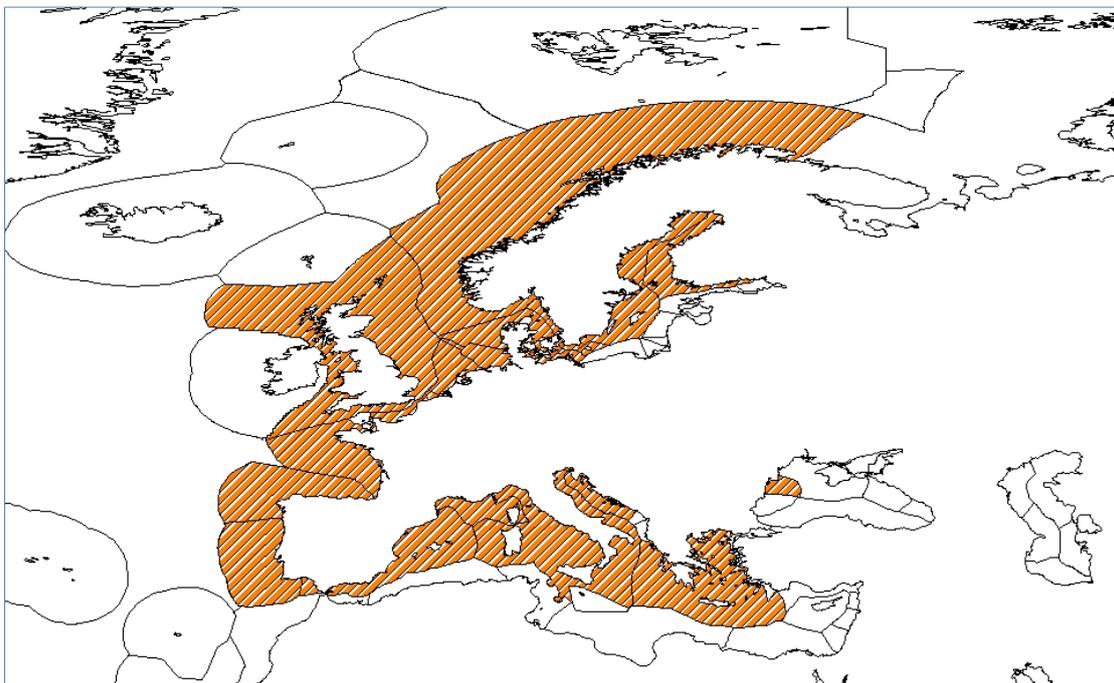
Work Package 2: Data Management

Lead: VLIZ (Leen Vandepitte)

Involved partner institutes: MBA, Deltares, SAHFOS, MARIS, SMHI, IEO, IMR, IFREMER, OGS, Aarhus Univ, ILVO, ICES, NIOZ, SYKE, NIMRD, Cefas, IPMA, IOF, PANGAEA (sub-contractor)

Reporting on the first Deliverable of WP2 (D2.1): Assessment of data and databases, including list of datasets that will be used for creation of products, to be completed by M3 (=July 2017)

During the first three months of the EMODnet Bio 3 project, the data management team at VLIZ 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>).



EEZs of European countries represented in WP2 that will provide access to marine biological monitoring data. Note that several organizations will make available data outside their EEZ (SAHFOS, ICES & EurOBIS)

In total, 95 new datasets will be delivered to EMODnet Biology 3. The following tables represent 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.

Institute	IPT	SeaDataNet	Web services	Excel	To be decided
Aarhus University (AU)		2			
Centre for Environment, Fisheries and Aquaculture Science (CEFAS)				5	
Deltares			2		
Finnish Environment Institute (SYKE)	1		2		
Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER)		2			
Institute of Agricultural and Fisheries research (ILVO)	4				
Institute of Marine Research (IMR)	6				
Instituto Español de Oceanografía (IEO)				1	
Instituto Português do Mar e da Atmosfera (IPMA)					7
International Council for the Exploration of the Sea (ICES)			8		
Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)	19				1
Marine Biological Association of the UK (MBA)	6				
National Institute for Marine Research and Development "Grigore Antipa" (NIMRD)					8
Royal Netherlands Institute of Sea Research (NIOZ)	10				
Ruđer Bošković Institute (RBI); Center for Marine Research					6
Swedish Meteorological and Hydrological Institute (SMHI)			4		1

Overview of the WP2 partner institutes, the amount of new datasets they will provide and which data exchange mechanism they have chosen. For the partners who have not yet decided, the available data exchange mechanisms is currently being discussed.

Provider	benthos	mixed (benthos + other)	non-benthic
Aarhus University (AU)			2
Centre for Environment, Fisheries and Aquaculture Science (CEFAS)		5	
Deltares		1	1
Finnish Environment Institute (SYKE)		1	2
Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER)			2
Institute of Agricultural and Fisheries research (ILVO)		3	1
Institute of Marine Research (IMR)		3	3
Instituto Español de Oceanografía (IEO)		1	
Instituto Português do Mar e da Atmosfera (IPMA)		4	3
International Council for the Exploration of the Sea (ICES)		1	7
Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)		6	3
Marine Biological Association of the UK (MBA)		2	4
National Institute for Marine Research and Development "Grigore Antipa" (NIMRD)		3	5
Royal Netherlands Institute of Sea Research (NIOZ)		4	6
Ruđer Bošković Institute (RBI); Center for Marine Research		2	3
Swedish Meteorological and Hydrological Institute (SMHI)		1	1

Overview of the WP2 partner institutes, the amount of new datasets they will provide roughly subdivided according to the groups that are represented within each of the datasets. Priority will be given to the incorporation of the purely benthic datasets, followed by the mixed ones and the ones that do not contain benthic data. A fourth priority will be to update already available datasets.

A lot of partners will also update datasets they have delivered in the past, making sure that EMODnet Bio 3 has access to the latest updates of already available data. The updates of these datasets will be dealt with in a final stage of the project.

Overview of the new data that will become accessible through the Portal, per partner

Here, we list the new datasets that will contribute to the EMODnet Biology Portal. Datasets that are already part of the Portal will be updated on a regular basis and are not listed here.

All datasets currently have a metadata record available. For some of the metadata records, information is still missing and the data management team is urging the providers to complete this information as quickly as possible.

Information on the taxonomic, spatial and temporal coverage of each dataset and an indication of the expected number of distribution records is available on https://docs.google.com/spreadsheets/d/1iK-b7s0j0F-3ULeKG0in0TWedj_1fl7p7ADlvG7agfE/edit#gid=2028958388. There, you will also find more information on the data exchange protocol that will be used to make the data accessible through the Portal.

Aarhus University (AU)

Datasets:

- Phytoplankton data for Danish marine monitoring (ODAM) from 1985 – 2016
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5664>
- Zooplankton data for Danish marine monitoring (ODAM) from 1985 - 2016
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5668>

Centre for Environment, Fisheries and Aquaculture Science (CEFAS)

Datasets:

- Macrobenthos from a dredged material disposal site (TY070) in English waters between 2000-2003
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5719>
- Macrobenthic time-series (1984-2006) from the Tyne sewage disposal site
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5720>
- Macrobenthic time-series (1984-2006) from the Thames sewage disposal site
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5721>
- Recovery of macrobenthos following the cessation of sewage sludge disposal from English waters
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5723>
- Macrobenthos from and aggregate extraction site (Shoreham) in English waters between 2000-2003
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5787>

Deltares

Datasets:

- Phytoplankton collected in the Dutch North Sea between 1990 and 2012
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5758>

- Benthos collected in the Dutch North Sea between 1991 and 2015
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5759>

Finnish Environment Institute (SYKE)

Datasets:

- Finnish Baltic Sea phytoplankton monitoring, KPLANK database
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5724>
- Finnish Baltic Sea benthic monitoring, POHJE database
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5725>
- Finnish Baltic Sea zooplankton monitoring
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5726>

Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER)

Datasets:

- RSL: Lagoon Monitoring Network of Languedoc-Roussillon
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=4411>
- REBENT: Benthic Network
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=4412>

Institute of Agricultural and Fisheries Research (ILVO)

Datasets:

- Subtidal macrobenthos monitoring in function of a foreshore suppletion at the Belgian coast, period 2013-2016
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5701>
- Subtidal hyperbenthos monitoring in function of a foreshore suppletion at the Belgian coast, period 2013-2016
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5708>
- Subtidal epibenthos and demersal fish monitoring in function of a foreshore suppletion at the Belgian coast, period 2013-2016
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5712>
- Gelatinous zooplankton in the Belgian part of the North Sea and the adjacent Westerscheldt estuary, period 2011-2012
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5716>

Institute of Marine Research (IMR)

Datasets:

- Northern shrimp (*Pandalus borealis*) in the Norwegian Deep and Skagerrak, 1984-2017
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5729>
- *Lophelia pertusa* reefs in Norwegian seawaters
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5730>
- IMR Fish database
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5731>
- Red king crab survey data from Finnmark Northern Norway in the period 1994 -2016

- <http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5732>
- Incidental sightings of marine mammals
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5728>
- Counts of harp seal and hooded seal pups in the Greenland Sea
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5820>

Instituto Español de Oceanografía (IEO)

Dataset:

- Demersal and mega-benthic species from the MEDITS (Mediterranean International Trawl Survey) project on the Spanish continental shelf between 1994 and 2010
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5760>

Instituto Português do Mar e da Atmosfera (IPMA)

Datasets:

- Benthic fauna of the Arrábida MPA (SW Portugal)
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5780>
- Benthic fauna of Ericeira coast (central Portugal)
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5781>
- EEMA (Ecological State of Marine Waters), Portugal
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5782>
- Benthic fauna of the SW Alentejo and Vicentine Coast Natural Park (SW Portugal)
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5783>
- Zooplankton monitoring off Portugal
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5784>
- Deep-sea plagic shrimps from Portuguese coast
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5785>
- Zooplankton off northern Portuguese coast
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5786>

International Council for the Exploration of the Sea (ICES)

Datasets:

- Portuguese International Bottom Trawl Survey
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=4413>
- Mackerel and horse mackerel eggs surveys
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=4421>

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

Datasets:

- Microzooplankton monitoring in the Mar Piccolo of Taranto. 2013-2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5734>
- Microphytobenthos monitoring in the Mar Piccolo of Taranto. 2013-2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5735>
- Microphytobenthos in mussel farms - North Adriatic Sea (SosteMiTS Project) 2008-2009
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5740>

- Phytoplankton in Panarea Island. ECO2 Project
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5741>
- Microzooplankton in Panarea Island. ECO2 Project
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5742>
- Microphytobenthos in Panarea Island. ECO2 Project
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5743>
- Phytoplankton monitoring in the Trieste harbour, North Adriatic Sea (Port Authority), March 2015
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5736>
- Microphytobenthos monitoring in the Trieste harbour, North Adriatic Sea (Port Authority) in 2015
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5737>
- Zooplankton monitoring in the Trieste harbour, North Adriatic Sea (Port Authority) in 2015
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5738>
- Phyto- and microzooplankton in mussel farms - North Adriatic Sea (SosteMiTS Project) 2008-2009
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5739>
- Phytoplankton monitoring in Grado, GO - North Adriatic Sea. 2016
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5744>
- Phytoplankton in the Gulf of Trieste - North Adriatic Sea (OGS-EPOCA Campaign 2011)
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5745>
- Zooplankton monitoring in the Trieste harbour - North Adriatic Sea (FERRIERA). 2008-2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5746>
- Phytoplankton collected in the Po River Delta - North Adriatic Sea (RITMARE Project) 2013-2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5747>
- Phytoplankton in the South Adriatic Sea (MEDGES Project) 2013
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5748>
- Microzooplankton in the South Adriatic Sea (MEDGES Project) 2013
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5749>
- Phytoplankton in the South Adriatic Sea (ADREX Experiment) 2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5750>
- Microzooplankton in the South Adriatic Sea (ADREX Experiment) 2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5751>
- Microphytobenthos collected in the Po River Delta - North Adriatic Sea (RITMARE Project) 2013-2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5752>
- Phytoplankton monitoring in the Trieste harbour - North Adriatic Sea (FERRIERA). 2008-2014
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5778>

Marine Biological Association of the UK (MBA)

Datasets:

- 1844-2016, The Marine Biological Association, Verified Marine records from Indicia-based surveys, United Kingdom.
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5656>
- 1800-2016 Department for Environment Food & Rural Affairs (Defra), Marine Strategy Framework Directive (MSFD) Collation of invasive non-indigenous species data United Kingdom
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5666>
- 2010-ongoing UK Offshore Marine Conservation Zone (MCZ) Survey Data

- <http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5670>
- 1817-1983 Paul F. Clark North East Atlantic Crab Atlas
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5685>
- 1844-1995 Ivor Rees North Wales Marine Fauna Ad-hoc sightings shore and ship-based surveys
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5688>
- 1800-2010 National Marine Aquarium (NMA) United Kingdom Marine Fish Recording Scheme
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5693>

National Institute for Marine Research and Development "Grigore Antipa" (NIMRD)

Datasets:

- Romanian Black Sea Zooplankton data from 1961 to 1970
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5649>
- Macrozoobenthos collected from the longitudinal profiles in the Romanian marine waters between 1986-1990
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5650>
- Romanian Black Sea Phytoplankton data from 1961 to 1970
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5651>
- Macrozoobenthos data collected in the East Constanta sector of the Romanian marine waters between 1977 and 1999
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5661>
- Macrozoobenthos data collected in the Northern part of the Romanian littoral (Danube mouths) between 1977 and 1999
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5663>
- Phytoplankton data collected in the Romanian Black Sea waters between 1975 and 1980
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5773>
- Zooplankton data collected in the Romanian Black Sea waters between 1956 and 1960
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5774>
- Zooplankton data collected in the Romanian Black Sea waters between 1971 and 1980
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5775>

Royal Netherlands Institute of Sea Research (NIOZ)

Datasets:

- NIOZ Biodiversity data ZKO cruises 2009-2010
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5761>
- NIOZ Eems Dollard Macrozoobenthos
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5762>
- NIOZ EMOWAD Cruises 1986
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5763>
- NIOZ Epibenthos cruises 1974
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5764>
- NIOZ Fish Survey 1961-1964 in Western Wadden Sea
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5765>
- NIOZ High Tide Balgzand Fisheries Program 1974-present
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5766>
- NIOZ Wadden Sea Macrozoobenthos Balgzand 1971-present
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5767>
- NIOZ Wadden Sea Phytoplankton
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5768>

- NIOZ Western Wadden Sea subtidal macrozoobenthos survey
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5769>
- NIOZ Kom Fyke Mokbaai
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5776>

Ruđer Bošković Institute (RBI); Center for Marine Research

Datasets:

- Phytoplankton composition, primary production and chlorophyll a from 1966-2017 in the Middle Adriatic
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5718>
- Bottom trawl fishery monitoring in the Croatian territorial waters of the Adriatic Sea
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5770>
- PELMON-MEDIAS Pelagic ecosystem monitoring with acoustic surveys in the Adriatic
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5772>

Swedish Meteorological and Hydrological Institute (SMHI)

Datasets:

- SHARK - National Epibenthos monitoring in Sweden since 1992
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=2455>
- SHARK - National Grey seal monitoring in Sweden since 1989
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=2457>
- SHARK - National Ringed seal monitoring in Sweden since 1995
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=2458>
- SHARK - National Harbour seal monitoring in Sweden since 1988.
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=2459>
- SHARK - Regional monitoring and monitoring projects of Epibenthos in Sweden since 1994
<http://www.emodnet-biology.eu/data-catalog?module=dataset&dasid=5727>

Flanders Marine Institute - VLIZ

The European Ocean Biogeographic Information System—EurOBIS—is an integrated data system developed in 2004. Its principle aims are to centralize the largely scattered biogeographical data on marine species collected by European institutions and to make these quality-controlled data freely available and easily accessible. Data are shared between EurOBIS and OBIS, the international Ocean Biogeographic Information System, gathering marine data from the world oceans and seas. OBIS in its turn works together with GBIF, the Global Biodiversity Information Facility and is often referred to as the ‘thematic marine node’ of GBIF.

Data in EurOBIS originate from a variety of sources: short-term research activities, long-term monitoring data, museum collections, more general distribution records from literature or datasets with a mixed origin. Not only the origin of the dataset but also the content varies greatly. Researchers typically focus on one or a few (species) groups, leading to a wide variety of available species data, covering benthos, plankton, macro-algae, fish, plants, reptiles, birds and mammals.

The constituting datasets of EurOBIS will be made available through the EMODnet biology portal and will deliver data for the creation of gridded abundance data products.

For a full overview of the datasets available through EurOBIS, we refer to http://www.eurobis.org/dataset_list.

The data are already available to EMODnet Biology through IPT.

Changes in datasets to be delivered, compared to the original project proposal

A number of datasets were listed in the original project proposal, which will eventually not be delivered through WP2. We are listing them here per partner.

National Institute for Marine Research and Development "Grigore Antipa" (NIMRD)

Datasets:

- Romanian Black Sea Zooplankton data from 1961 to 1970
- Macrozoobenthos collected from the longitudinal profiles in the Romanian marine waters between 1986-1990
- Romanian Black Sea Phytoplankton data from 1961 to 1970
- Macrozoobenthos data collected in the East Constanta sector of the Romanian marine waters between 1977 and 1999
- Macrozoobenthos data collected in the Northern part of the Romanian littoral (Danube mouths) between 1977 and 1999
- Phytoplankton data collected in the Romanian Black Sea waters between 1975 and 1980
- Zooplankton data collected in the Romanian Black Sea waters between 1956 and 1960
- Zooplankton data collected in the Romanian Black Sea waters between 1971 and 1980

These datasets were found to fit more under WP3 instead of WP2, according to the guidelines for the distinction between WP2 and WP3 which was discussed at the kick-off meeting.

WP2	WP3
<ul style="list-style-type: none">- data after year 2000- dataset still ongoing (e.g., yearly surveys, long-term monitoring)- data already digitized in a structured way	<ul style="list-style-type: none">- data before year 2000- dataset finished (no updates and additions anymore)- data to be digitized or digitized under an unstructured format

As all WP3 data will also flow into EurOBIS, these datasets will also become available to the EMODnet Biology project, and it does not matter under which WP they are processed.

Centre for Environment, Fisheries and Aquaculture Science (CEFAS)

Dataset:

- Macrozoobenthos from a dredged material disposal site (TY080)

The reason for not delivering this dataset is linked to time: it is not sure whether the data will be processed in time for the delivery deadline and therefore it will not be considered in a first instance.

Institute of Agricultural and Fisheries Research (ILVO)

Datasets:

- Intertidal macrobenthos monitoring in function of a foreshore suppletion at the Belgian coast, period 2013-2016
- Intertidal hyperbenthos monitoring in function of a foreshore suppletion at the Belgian coast, period 2013-2016
- Intertidal epibenthos and demersal fish monitoring in function of a foreshore suppletion at the Belgian coast, period 2013-2016

These datasets can be made available through the EMODnet Biology Catalogue, but the data itself will not be delivered to the project.

Marine Biological Association of the UK (MBA)

Datasets:

- Environment Agency (EA), (2016) Water Framework Directive (WFD) Surveillance Monitoring Saltmarsh Extent
- National Marine Aquarium Rare Fish database

For the first dataset, MBA is still having problems locating the data, so for now, it will be impossible to submit it for WP2. The second dataset is a subset of the dataset "Marine fish volunteer ad-hoc recording scheme and historical records from around the United Kingdom between 1800 and 2010" and is thus already part of the coming data-delivery.

IOF

Datasets:

- Benthos
- Macroalgae
- FITOPLANKTON-SG

For the first two datasets, IOF is still checking whether the data format corresponds with the EMODNET Biology format, and they hope they will be able to transform the data and send them to EMODnet Bio before the end of the project. The last dataset is a subset of the "Phytoplankton composition, primary production and chlorophyll a from 1966-2017 in the Middle Adriatic" and is thus already part of the planned data delivery.

Institute of Marine Research (IMR)

Dataset:

- Minky whale

This dataset will be replaced by "Incidental sightings of marine mammals"

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale (OGS)

Datasets:

- Adricosm-STAR
- PRISMA
- Marine macrophytes (SHARK)

These three datasets will be delivered through WP3 and will thus also become part of EMODnet Biology (although through another channel).

Swedish Meteorological and Hydrological Institute (SMHI)

Dataset:

- Marine macrophytes (SHARK)

This dataset is the same as the dataset “SHARK - National Epibenthos monitoring in Sweden since 1992” and is thus already part of the planned data delivery.