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EMODnet Thematic Lot n° V - Biology

EASME/EMFF/2022/3.5.2/Lot V/SI2.895681

Start date of the project: 10/05/2023 (24 months)

Centralisation Phase

Phase V Kick off meeting minutes [D1.4.1]





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Document info

Title (and reference)	Phase V kick off meeting notes
WP title (and reference number)	WP1- Coordination
Task (and reference number)	Task 8: Monitor quality/performance and deal with user
Authors [affiliation]	Joana Beja, Leen Vandepitte, Benjamin Weigel, Marina Lipizer and Bart Vanhoorne
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Phase V Kick off meeting minutes

EMODnet Phase V started in 2023-05-10 and the kick off meeting was planned for June 8th in Crete-Greece, following the Phase IV final meeting. The meeting was held as a hybrid event with 16 partners attending in presence and another 25 online.

The consortium was represented by at least one person per organisation, which contributed to fruitful and varied discussions. The sections that follow summarise the information on participants, agenda and WP presentations, followed by the main topics of discussion.

1 Participants

The list of participants that attended the meeting is included in the table below:

Name	Organisation
Joana Beja	Flanders Marine Institute (VLIZ)
Salvador Fernandez	Flanders Marine Institute (VLIZ)
Ruben Perez Perez	Flanders Marine Institute (VLIZ)
Marc Portier	Flanders Marine Institute (VLIZ)
Leen Vandepitte	Flanders Marine Institute (VLIZ)
Bart Vanhoorne	Flanders Marine Institute (VLIZ)
Benjamin Weigel	Institut National de Recherche pour l'Agriculture, L'Alimentation et l'Environnement (INRAE)
Marina Lipizer	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale Trieste (OGS)
Marco Jokic	Istituto Nazionale di Oceanografia e di Geofisica Sperimentale Trieste (OGS)
Hans Jakobsen	Aarhus University, DCE-Danish Centre for Environment and Energy
Elena Couce	Centre for Environment, Fisheries and Aquaculture Science (CEFAS)
Oliver Williams	Centre for Environment, Fisheries and Aquaculture Science (CEFAS)
Dimitra Mavraki	Hellenic Centre for Marine Research (HCMR)
Georgia Sarafidou	Hellenic Centre for Marine Research (HCMR)
Carlos Pinto	International Council for Exploration of the Sea (ICES)
Lise Ronne-Grigorov	International Council for Exploration of the Sea (ICES)
Eneko Aierbe Sarasola	Instituto Español de Oceanografía (IEO)
Rafael Gonzalez-Quiros	Instituto Español de Oceanografía (IEO)
Alejandro Isla	Instituto Español de Oceanografía (IEO)
José Juanes	Instituto de Hidráulica Ambiental de la Universidad de Cantabria (IH Cantabria)
Elvira Ramos	Instituto de Hidráulica Ambiental de la Universidad de Cantabria (IH Cantabria)
Tino Ribes	Instituto de Hidráulica Ambiental de la Universidad de Cantabria (IH Cantabria)
Felien Festjens	Institute for Agricultural and Fisheries Research (ILVO)
Gert Van Hoey	Institute for Agricultural and Fisheries Research (ILVO)
Arnfinn Morvik	Havforskningsinstituttet Institute of Marine Research (IMR)
Lisa Benedetti	International Ocean Data Exchanged (IODE-UNESCO)
Pieter Provoost	International Ocean Data Exchanged (IODE-UNESCO)
Henrique Niza	Instituto Português do Mar e da Atmosfera (IPMA)

Name	Organisation
Antonina dos Santos	Instituto Português do Mar e da Atmosfera (IPMA)
Chloe Figueroa	Marine Biological Association (MBA)
Charlie Gough	Marine Biological Association (MBA)
Dan Lear	Marine Biological Association (MBA)
Tjerk Krijger	Marine Information Service (MARIS)
Elena Bisinicu	National Institute for Marine Research and Development "Grigore Antipa" (NIMRD)
Karline Soetaert	Royal Netherlands Institute for Sea Research (NIOZ)
Astrid Wittmann	Pangaea- University of Bremen
Luuk van der Heijden	Stichting Deltares
Tom Webb	University of Sheffield
Lisa Sundqvist	Swedish Meteorological and Hydrological Institute (SMHI)
Anders Torstensson	Swedish Meteorological and Hydrological Institute (SMHI)
Ville Karvinen	Suomen ympäristökeskus - Finnish Environment Institute (SYKE)
Charles Troupin	Université Liège

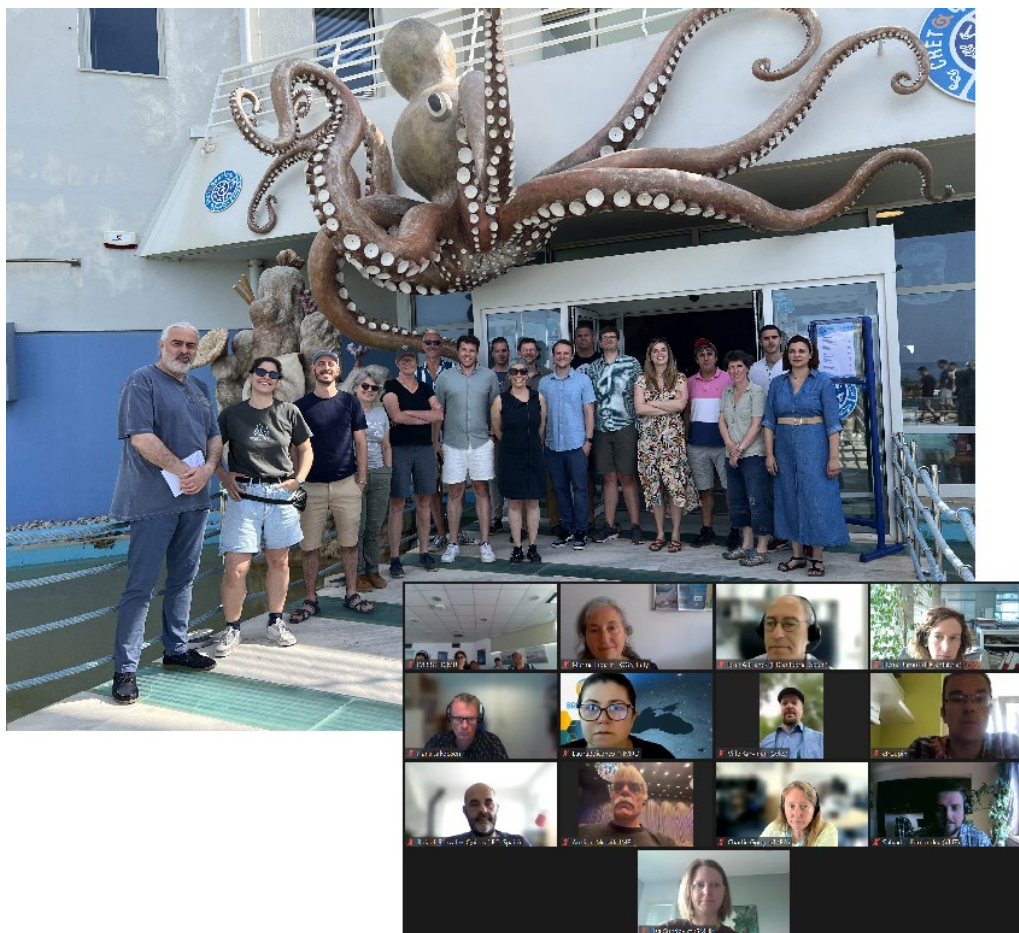


Figure 1. EMODnet Biology Phase V kick off meeting group photo

2 Agenda

All Work Package leads had a 30-minute slot to present the WP objectives, expectations, deliverables and deadlines. There various slots for Q&A from the participants and also a 1h slot for WP breakouts. The agenda is included in the table below.

Time	What
09:00-09:30	Welcome
9:30-10:00	WP1
10:00-10:30	WP2
10:30-11:00	Q&A
11:00-11:30	WP3
11:30-12:00	Coffee break
12:00-13:00	HCMR Aquarium visit
13:00-14:00	Lunch break
14:00-14:30	WP4
14:45-15:00	WP5
15:30-16:00	Q&A
16:00-17:00	WP breakouts

3 Work Packages presentations

EMODnet Biology Phase V Kick off meeting WP1- Coordination

8th June, Crete

Joana Beja
Coordination Board

VLIZ, bio@emodnet.eu
joana.beja@vliz.be





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WP1 tasks

- Task 8: Monitor quality/performance and deal with user
 - 1.1 Usage of service monitoring via indicators
 - Defined by the EMODnet Secretariat
 - Included in reporting: data, products, providers, usage, web stats, OGC/INSPIRE compliance
 - 1.2 Maintenance of centralised EMODnet catalogue of products
 - <https://emodnet.ec.europa.eu/geonetwork/srv/eng/catalog.search#/search?any=>
 - 1.3 User feedback and support to the centralised EMODnet helpdesk
 - Logged via EMODnet JIRA
 - Assigned by EMODnet Secretariat to thematic lot
 - Addressed with 2 working days
 - Monitored by EMODnet Secretariat



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WP1 Objectives

- ⦿ WP1 is set up to provide support to the whole project in terms of coordination and ensuring that all deliverables and objectives are met within the timelines proposed in the tender and also in this proposal.
 - ⦿ organising project meetings with all parties involved
 - ⦿ attending the EMODnet network meeting as well as other events, e.g. conferences, workshops, seminars, etc
 - ⦿ ensuring that reporting is submitted according to the tender specifications
 - ⦿ budget management



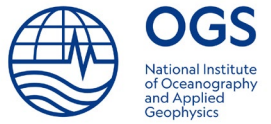


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WP1 Partners

Organisation	WP	Who	Logo
VLIZ	1	Joana Beja	
	2	Leen Vandepitte	
	5	Bart Vanhoorne	
INRAE	3	Benjamin Weigel	
OGS	4	Marina Lipizer	



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WP1 Deliverables

Task 8: Monitor quality/performance and deal with user

- ✚ 8.1.1 Quarterly Progress reports
 - ☐ QR25- 15 Jul 2023
 - ☐ QR26- 15 Oct 2023
 - ☐ QR27- 15 Jan 2024
 - ☐ QR28- 15 Apr 2024
 - ☐ QR29- 15 Jul 2024
 - ☐ QR30- 15 Oct 2024
 - ☐ QR31- 15 Jan 2025
 - ☐ QR32- 15 Apr 2025
- ✚ 8.1.2 Interim report (M12- 10 May 2024)
- ✚ 8.1.3 Final Report (M24- 09 May 2025)
- ✚ 8.2.1 Update of EMODnet Biology data products via the EMODnet CP catalogue (M12-M24)
- ✚ 8.3.1 Monitoring user feedback via EMODnet JIRA (M0-M24)
- ✚ 8.3.2 Operation of the EMODnet CP helpdesk (M0-M24)
- ✚ 8.5.1 Minutes from the three project meetings (kick off, annual and final)
 - ☐ Kick off (M1- 10 Jun 2023)
 - ☐ Annual (M12- 10 May 2024)
 - ☐ Final (M24- 09 May 2025)
- ✚ 8.6.1 Participation in the EMODnet Steering Committee meetings (M0-M24)
- ✚ 8.6.2 Participation in the EMODnet Open Conference (M0-M24)
- ✚ 8.7.2 Appropriate mechanisms and guidelines for handover (M24- 09 May 2025)



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Project organisation

WP2- Data
Management

WP4- Uptake and
Outreach

WP3- Data Products

WP5- Technical Infrastructure

WP1- Coordination



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Project Deliverables

- (()) ~70 deliverables, spread across all WPs
 - (()) Written documents will be available via <https://emodnet.ec.europa.eu/en/reports>
 - (()) EMODnet component= Biology
 - (()) Publication Type= Deliverable
- (()) Delivery deadlines
 - (()) published on the EMODnet Central Portal/sent to CINEA and DG MARE
 - (()) no further reviews/changes
 - (()) they are not submission date to VLIZ
- (()) All partners should :
 - (()) be aware deliverables they are involved in/leading and corresponding deadlines
 - (()) pro-actively communicate with WP leads
 - (()) report any constraints to WP leads/coordinator



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Project Reporting

- ((())) Quarterly Reports: 9 reports
 - ((())) Written document by coordination board
 - ((())) Input from all partners to meetings attended/planned and Authored peer-reviewed publications-> via google document
- ((())) Interim Report: due 2024-05-10
- ((())) Final Report: due 2025-05-10
- ((())) All reports are published by the EMODnet Secretariat and are available via <https://emodnet.ec.europa.eu/en/reports>
 - ((())) EMODnet component= Biology
 - ((())) Publication Type= Choose between Quarterly, Interim, Final Report
 - ((())) Publication Year= Choose from 2017-2023



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Payments

- ④ Interim/Final report sent to CINEA
- ④ CINEA must approve submitted documents and pay within 60 days of report submission. If CINEA has remarks, they will send them to VLIZ and the time limit for payment gets suspended. VLIZ has 30 days to make amendments or submit additional information or new report version. CINEA reviews and gives approval within remaining time (60 - x days)
- ④ VLIZ acts as the coordinator and receives the total contract value (2 million euros) in two payments
 - ④ 50% after approval of the interim report at the end of Y1
 - ④ 50% after approval of the final report at the end of Y2
- ④ Non-compliance with proposed work/contract might result in payment being suspended or decreased



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EMODnet and Biology thematic lot

- EU Operational service for in situ marine (biodiversity) data
- Will be the core data assets in the EU-DTO (https://research-and-innovation.ec.europa.eu/funding/funding-opportunities/funding-programmes-and-open-calls/horizon-europe/eu-missions-horizon-europe/restore-our-ocean-and-waters/european-digital-twin-ocean-european-dto_en)
- Several EU funded projects now require data to be made available via EMODnet (Biology)
- More interaction/collaboration with RSC
- More support towards Member State reporting activities

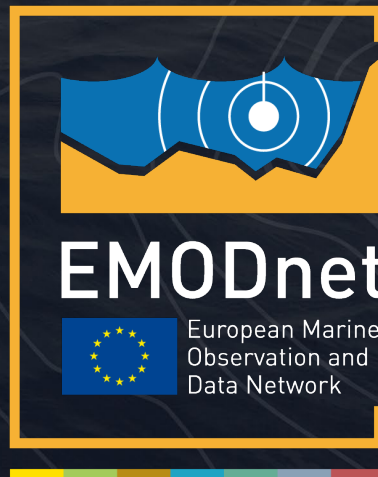


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EMODnet and Biology thematic lot

- Interested in 4EOD-CIG (EMODnet 4 Ocean Decade Coordination and Implementation Group)? Email natalie.tonne@emodnet.eu and debbie.tsang@emodnet.eu directly
- Interested in receiving key EMODnet information? Sign up via <https://ec.europa.eu/eusurvey/runner/EMODnetConsentForm>
- EMODnet Open Conference/Jamboree: 2023-11-27 to 2023-12-01 in Brussels



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www.emodnet-biology.eu

Your gateway to marine data in Europe

EMODnet Biology Phase V Kick off meeting WP2 – Data Management

8th June, Crete

Leen Vandepitte &
Ruben Perez Perez

VLIZ, bio@emodnet.eu





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WP2 - Partners & sub-contractors

(Lead: VLIZ; Partners: OGS; Subcontractors: Aarhus, Deltares, HCMR, ICES, IEO, IH Cantabria, ILVO, IMR, IPMA, MARIS, MBA, NIMRD, NIOZ, Pangea, SMHI, SYKE)





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Project organisation

WP2- Data
Management

WP4- Uptake and
Outreach

WP3- Data Products

WP5- Technical Infrastructure

WP1- Coordination



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WP2 task & focus

Task 1: Maintain and improve a common method of access to data held in repositories which will be addressed through the planning of various actions.

- (()) European seas: Water column, seabed & coastline
 - (()) Arctic, Atlantic, Baltic, Black, Mediterranean & North Sea
 - (()) Barents Sea
 - (()) Jurisdictional waters of Member States, UK & Norway for the Northeast Atlantic
 - (()) Celtic Seas
 - (()) Iberian coast
 - (()) Bay of Biscay
 - (()) Macaronesia
 - (()) Norwegian Sea
 - (()) Caribbean Sea
 - (()) European projects
 - (()) Horizon2020
 - (()) Horizon Europe
 - (()) Mission Ocean
- = > active support towards data sharing through EMODnet
- (()) Also: focus on under-represented areas & species groups



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WP2 - objectives & deliverables

Task 1: Maintain and improve a common method of access to data held in repositories which will be addressed through the planning of various actions.

2.1 Data interoperability

-  2.1.1 Maintenance of adequate mechanisms to ensure data are interoperable
-  2.1.2 Report on the standardisation and integration of datasets published during the Phase
 -  Primary data list
 -  35 new datasets (incl. 7 'omics' datasets)
 -  25 updates
 -  23 'mixed' datasets (new & updated data)
 -  Standards, formats & vocabs
 -  DarwinCore EventCore format (= partner/sub-contractor requirement)
 -  WoRMS, MarineRegions, BODC
 -  INSPIRE - FAIR



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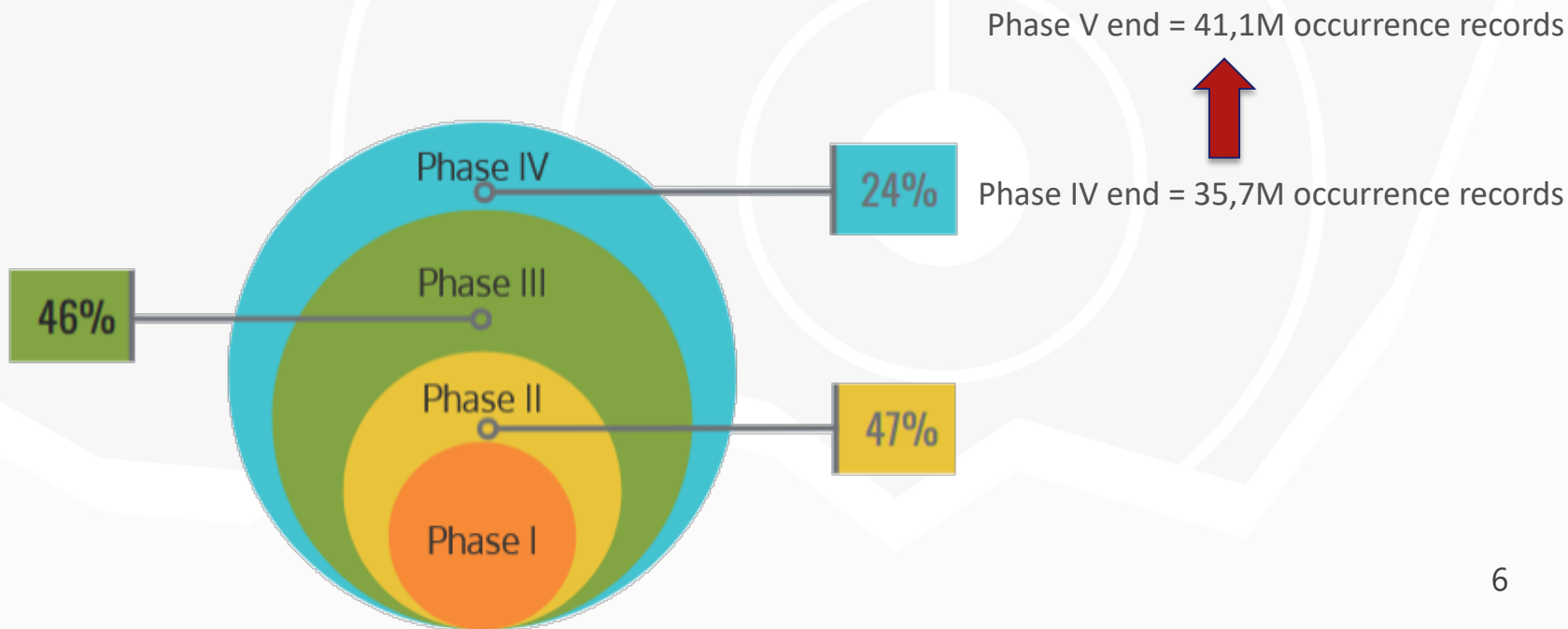
WP2 - objectives & deliverables

Task 1: Maintain and improve a common method of access to data held in repositories which will be addressed through the planning of various actions.



2.1 Data interoperability (cont.)

General aim: increase in data availability of at least 15% from the data available at the end of Phase IV





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WP2 - objectives & deliverables (cont.)

Task 1: Maintain and improve a common method of access to data held in repositories which will be addressed through the planning of various actions.

2.2 Streamline data holdings through Cloud technologies




2.2.1 Summary on Consortium data flows

Linked to WP5:

-  plan for streamlining different data holdings through Cloud technologies
-  possible solutions to overcome artificial boundaries between systems

2.3 Evaluation of data restrictions

2.3.1 Plan to optimise procedures to make restricted data available to users

-  Establish procedures to avoid sub-optimal indirect data discovery
-  List known restricted datasets + constraint reasons
-  List possibilities to remove restrictions, whilst ensuring everyone is comfortable with the outcomes



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WP2 - objectives & deliverables (cont.)



Task 1: Maintain and improve a common method of access to data held in repositories which will be addressed through the planning of various actions.



2.4 Data training workshops (lead HCMR)

-  2.4.1 Workshop on Zooniverse for data digitisation through citizen science
-  2.4.2 Data training workshop for Mediterranean organisations
-  2.4.3 Report on the availability of data following the workshops

-  Organisations inside & outside of the current project consortium
-  Focus on historical, paper-based resources
-  Further exploration of existing citizen science initiatives

-  Training workshop with focus on African institutes
-  Online training course will be kept available & updated where needed



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WP2 - objectives & deliverables (cont.)

Task 1: Maintain and improve a common method of access to data held in repositories which will be addressed through the planning of various actions.



2.5 Publication of omics data



2.5.1 Guidance for data management practices applied to omics data



WP2 => information needed to publish this data type



WP5 => technical solution to allow this data type to be made available via the EMODnet CP viewer as a distribution layer that will be queryable by users



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WP2 - support to partners & sub-contractors

- Regular contact, through the EurOBIS / EMODnet Bio & HCMR Data Management Team (DMT)
- DMT support on all levels of data management & data flows
- DMT service to assign DOIs to your datasets
- Tools at your disposal:
 - OceanTeacher training course
 - Bio-check tool
 - IPT-based: <https://rshiny.lifewatch.be/BioCheck/>
 - R-based: <https://github.com/EMODnet/EMODnetBiocheck#installation>
 - General 'lifeline': bio@emodnet.eu



Contributing datasets to EMODnet Biology

Home / My courses / EMODnetBiology_2020

Turn editing on







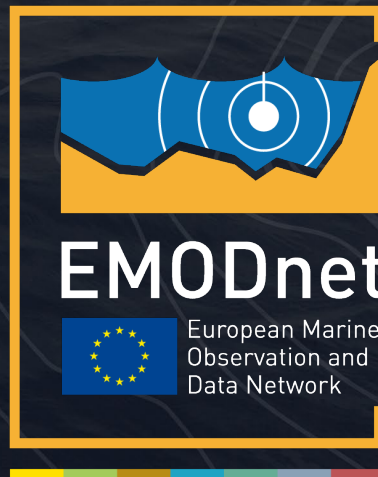
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WP2 - Partner & sub-contractor commitments

-  Delivery of promised new + updated datasets, taking into account made agreements on standards, formats & vocabs
-  Responsiveness to DMT communication
 -  => be pro-active in your communication!
-  Active & timely contribution



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Your gateway to marine data in Europe



BIOLOGY

Dive into data on Europe's marine life

EMODnet Biology Phase V Kick off meeting

June 8th , Crete

INRAE

Benjamin Weigel



INRAE

benjamin.weigel@inrae.fr



The European Marine Observation and Data Network (EMODnet) is financed by the European Union under Regulation (EU) No 508/2014 of the European Parliament and of the Council of 15 May 2014 on the European Maritime and Fisheries Fund.



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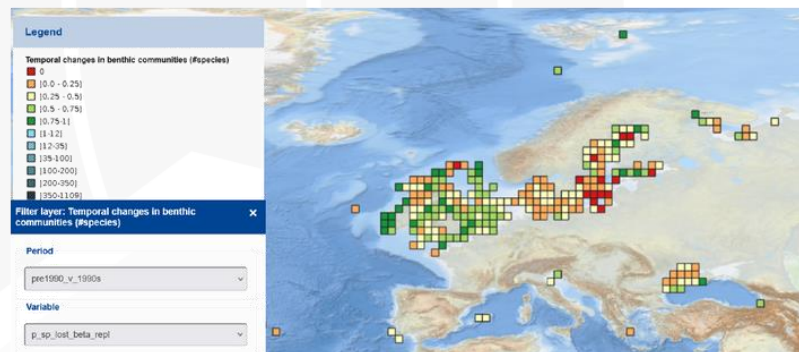
WP Tasks

WP3 – Data products

To construct data products from one or more data sources that provide users with information about the distribution and quality of parameters (species, facets of biodiversity, MSFD indicators) in time and space.

New EMODnet biology data product: Temporal turnover of benthic species in European seas

NEWS ARTICLE | 27 April 2023





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WP3 – Data products

Data product definition after the tender

A data product comprises **map layers of species distributions or a group of species distributions over space and time**

Data products should now be especially **linked to temporal changes of species distributions due to coastal infrastructure** considering cetaceans and migratory sea birds



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WP3 – Data products

Data product definition after the tender

A data product comprises **map layers of species distributions or a group of species distributions over space and time**

Data products should now be especially **linked to temporal changes of species distributions due to coastal infrastructure** considering cetaceans and migratory sea birds

Data products in phase V must comply with tender specifications and any deviation needs to be agreed on with the WP leader and the EMODnet office prior to creation.

Non compliance may result in non payment



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WP3 – Data products

Data product definition after the tender

A data product comprises **map layers of species distributions or a group of species distributions over space and time**

Data products should now be especially **linked to temporal changes of species distributions due to coastal infrastructure** considering cetaceans and migratory sea birds

Exception:

Data products may also be R packages for specific user applications.

Aim is to open up data product to a wider audience by making it less specific than a published data products as such, **providing an open source, reproducible tool that end-users can apply to own data and individual needs.**





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WP3 – Data products

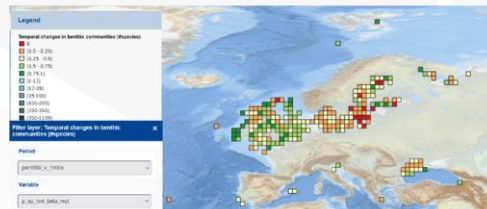
What data products are expected in Phase V

Digital map layers allowing analysis of changes in species abundance and extent over time and space.

Layers shall include data from more than one survey and/or more than one data source

New EMODnet biology data product: Temporal turnover of benthic species in European seas

NEWS ARTICLE | 27 April 2023



Species migration routes including timing and duration, particularly those that might be affected by construction or deployment of new coastal or offshore infrastructure.

Seabirds and cetaceans are of particular interest





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WP3 – Objectives

- ⦿ **Maximize uptake of existing and new data products by end-users**
 - ⦿ raising awareness of existing products
 - ⦿ provide training materials in form of tutorials to manipulate and visualize EMODnet products using the existing R packages developed in Phase III and IV
 - ⦿ **co-creation of data product needs with stakeholders** (e.g., RSCs, environmental agencies of member states)
- ⦿ **Products targeting species migration routes**
 - ⦿ identify and contact experts and relevant stakeholders
 - ⦿ assessing data sources of existing external products and indicators and the possibility of hosting these external products in EMODnet Biology
 - ⦿ Liaison with external entities and experts
- ⦿ **Continue creating distribution maps**
 - ⦿ Data products targeting groups of species, as well as presence/absence maps, both of which can be queried, subset and downloaded via the EMODnet Central Portal viewer



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WP3 – Actions to objectives

Evaluation of data products from previous phases

⦿ **Internal WP3 - WP4 workshop** to lay out roadmap for best achievable outputs in this phase

- ⦿ WP3 will contribute with knowledge of products and possible connections to other projects.
- ⦿ WP4 will contribute with specific information relating to their previous work with the RSCs and other European and international initiatives

Aims

- ⦿ Discuss RSCs needs and involvement
- ⦿ (Preparation for) aligning data products with RSCs' needs in close collaboration with WP4
- ⦿ Compile information on what WP3 could deliver
- ⦿ Focus on the relevance of data products



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WP3 – Actions to objectives

Community calls

Continuation of quartely communitiy calls

Purpose

-  Informal ground to discuss WP internal progress, possible arising challenges, provide feedback, keep all WP members informed
-  Promote collaboration and share information
-  Gather WP updates for quartely project reports.

1st community call Today!

To maximize WP member availability for community call participation we aim to schedule all calls for the remaining year asap.



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WP3 – Actions to objectives

Data product creation

 Liaison with external entities targeting seabird and cetacean migration outputs

 Data product creation



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WP3 – Deliverables and Deadlines

3.1 Internal Workshop WP3 and WP4 **10.09.2023 (M4)**

Discuss RSC needs and involvement

Evaluation of data products from previous phases

3.2 Quaterly community calls

M3 – M24

3.3.1 Liaison with external entities targeting
seabird and cetacean migration outputs

M0 – M24

report initiatives and outcomes

3.3.2 Data product creation

latest by December 2024 (M19)



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WP3 – Deliverables

The creation of data products is the main WP3 deliverable. A few partners have already proposed a line of work for Phase V which aims at, but is not limited to:

- ⦿ Developing an assessment tool of the impact of fishing activities on benthic ecosystems
- ⦿ Better integration of the work required for the RSCs and various HORIZON 2020 projects, as well as other European and International initiatives
- ⦿ Continuous development and maintenance of approaches to data product creation using multivariate analysis in DIVAnd
- ⦿ Creation and/or update of species distribution and presence/absence maps



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WP3 – Partners



**RÉPUBLIQUE
FRANÇAISE**

*Liberté
Égalité
Fraternité*

INRAE



Deltares



**Royal Netherlands Institute
for Sea Research**



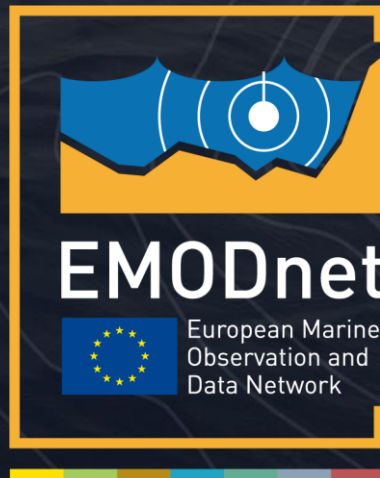
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www.emodnet-biology.eu

Your gateway to marine data in Europe

EMODnet Biology Phase V Kick off meeting WP4 - Uptake and Outreach

June 8th , Crete

OGS – National Institute of Oceanography and Applied Geophysics



Marina Lipizer



OGS – National Institute
of Oceanography and
Applied Geophysics
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WP4 - Uptake and Outreach

From MBA-Uk to OGS-It (Thanks Dan for the work done!)

⦿ **WP Objectives:** to promote EMODnet Biology data, products and services and engage relevant actors (e.g. RSC) and contribute to implementation of EU legislation

⦿ **Partners involved:**

⦿ VLIZ, INRAE, OGS, Aarhus, CEFAS, Deltares, HCMR, ICES, IEO, IH Cantabria, ILVO, IMR, IPMA, MARIS, MBA, NIMRD, NIOZ, Pangea, SMHI, SYKE, UkrSCES, U. Liège, U. Sheffield

⦿ **WP Tasks:**

- ⦿ Task 5. Contributing static content to dedicated spaces in the Central Portal (→ **Action 4.1**)
- ⦿ Task 6: Ensure the involvement of Regional Sea Conventions RSC (→ **Action 4.2**)
- ⦿ Task 7: Contribute to the implementation of the EU legislation and broader initiatives for open data (→ **Action 4.3 and 4.4**)

⦿ **WP actions**

- ⦿ **Action 4.1** Provide and update content to the EMODnet Central Portal
- ⦿ **Action 4.2** Interaction with the RSCs and ICES
- ⦿ **Action 4.3** Liaison with relevant EU initiatives, projects and parties
- ⦿ **Action 4.4** Ensure compatibility with INSPIRE Directive



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WP4 - Uptake and Outreach

4.1 Provide and update content to the EMODnet Central Portal (Lead: VLIZ)

Deliverable

4.1.1 Update connectivity maps and identification of stakeholder community

4.1.2 Informative material based on the 4.2.2 published in the EMODnet CP

4.1.3 Informative material based on the 4.2.3 outcomes

4.1.4 Informative material based on the 4.3.1 outcomes

4.1.5 Publication of four Use Cases

4.1.6 Publication of written documents

Participants:

VLIZ, INRAE, OGS, Aarhus, CEFAS, Deltares, HCMR, ICES, IEO, IH Cantabria, ILVO, IMR, IPMA, MARIS, MBA, NIMRD, NIOZ, Pangea, SMHI, SYKE, UkrSCES, U Liège, U. Sheffield

OGS, VLIZ, ILVO, MBA, NIMRD, SYKE, UkrSCES

OGS, VLIZ, ILVO, MBA, NIMRD, SYKE, UkrSCES

OGS, VLIZ

OGS, ILVO, NIMRD, SYKE, UkrSCES, IODE

VLIZ

Timeline

Deadline

M4	2023-09-10
M12	2024-05-10
M14	2024-07-10
M24	2025-05-10
M6, M12, M18, M24	2023-11-10
	2024-05-10
	2024-11-10
	2025-05-10
M0-M24	



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WP4 - Uptake and Outreach

4.2 Interaction with the RSCs and ICES (Lead: OGS)

number of specific lines of work are proposed: from **workshops** to **questionnaires** and publication of **informative material**

Deliverable

4.2.1 Engagement plan for each RSC

4.2.2 Questionnaire to inform about what data & products EMODnet Biology offers and to collect stakeholder needs

4.2.3 Workshop with RSCs to understand major needs

4.2.4 Report on progress for the publication of fisheries survey data

Participants:

OGS, ILVO, NIMRD, SYKE, UkrSCES

OGS, ILVO, MBA, NIMRD, SYKE, UkrSCES,

OGS, ILVO, NIMRD, SYKE, UkrSCES

VLIZ, ICES

Timeline

Deadline

M6 2023-11-10

M6 2023-11-10

M12 2024-05-10

M24 2025-05-10





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WP4 - Uptake and Outreach

4.3 Liaison with relevant EU initiatives, projects and parties (Lead: OGS)

Deliverable

4.3.1 Workshop with representatives of major recent and current European Research Projects and initiatives to share experience and knowledge in biodiversity monitoring and assessment and in data, tools and services

Participants:

VLIZ, INRAE, OGS, Aarhus, CEFAS, Deltares, HCMR, ICES, IEO, IH Cantabria, ILVO, IMR, IPMA, MARIS, MBA, NIMRD, NIOZ, Pangea, SMHI, SYKE, UkrSCES, Ulg, U. Sheffield, UkrSCES

Timeline

M18

Deadline

2024-11-10

4.3.2 Participation in TG DATA meetings

VLIZ, ICES

M0-M24

4.4 Ensure compatibility with INSPIRE Directive (Lead: OGS)

Deliverable

4.4.1 Ensure compatibility with INSPIRE Directive (data, metadata, data products)

Participants:

VLIZ

Timeline

M0-M24

Deadline

4.4.2 Report on the activities to support EU Member States regarding their reporting obligations

OGS, VLIZ,

M24

2025-05-10



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WP4 – Plan for year 1

Deliverable	Parteners	Working deadlines	Action:	Deadline
4.1.1 Update connectivity maps and identification of stakeholder community	VLIZ , INRAE, OGS, Aarhus, CEFAS, Deltares, HCMR, ICES, IEO, IH Cantabria, ILVO, IMR, IPMA, MARIS, MBA, NIMRD, NIOZ, Pangea, SMHI, SYKE, UkrSCES, U Liège, U. Sheffield	01/08/2023	Collect information through standard template	2023-09-10
4.2.1 Engagement plan for each RSC	OGS , ILVO, NIMRD, SYKE, UkrSCES	01/10/2023	Online meeting to present Draft; sharing of document, revision and consensus to be reached	2023-11-10
4.2.2 Questionnaire to inform about what data & products EMODnet Biology offers and to collect stakeholder needs	OGS , ILVO, MBA, NIMRD, SYKE, UkrSCES	01/10/2023	Draft based on EMD Chemistry shared and final version	2023-11-10
4.1.2 Informative material based 4.2.2 published in the EMODnet CP	OGS , VLIZ, ILVO, MBA, NIMRD, SYKE, UkrSCES	01/04/2024		2024-05-10
4.2.3 Workshop with RSCs to understand major needs	OGS , ILVO, NIMRD, SYKE, UkrSCES	01/04/2024	To be organized WELL in advance!	2024-05-10
4.1.5 Publication of four Use Cases	OGS , ILVO, NIMRD, SYKE, UkrSCES, IODE	01/10/2023?		2023-11-10
				2024-05-10
				2024-11-10
				2025-05-10

Stakeholder community
M4



Engagement plan
M6

Questionnaire
M6



Workshop
M12

Workshop organization



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WP4 – Next actions:

- 4.1.1: **(VLIZ coordination)** - Proposal: OGS sends template to update connectivity map and to “map stakeholders”
 - All involved partners to collect information and send to VLIZ (and OGS) the result – **Deadline: 1 August, 2023**
 - VLIZ finalizes the deliverable

1. «MBA» Survey for connectivity map

2. Stakeholder profiles:

stakeholder_contacts - Excel

Marina Lipizer

File Home Insert Layout of pagina Formule Dati Revisione Visualizza Guida Cosa vuoi fare?

Calibri 10 A A

Taglia Copia Copia formato

Appunti Carattere Allineamento Numeri Formattazione Formatta come condizionale

Normale Neutrale Valore non v... Valore valido Calcolo

Cella collegata Cella da cont... Collegamen... Collegamen... Input

Inserisci Elimina Formato

Somma automatica Riempimento Ordina e filtra Trova e seleziona

Cancella Modifica

C6

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	EMODnet Biology Stakeholder inventory															
2	Stakeholder information											Stakeholder engagement				
3	Contacting partner	Institution role	Type of Institution	Geograph. Relevance	Geographic focus	Organization Name	Address	Country	Contact person name	email	Website	Notes	Engaged in questionnaire	Engaged in workshop	Engaged in other (specify)	
4	OGS	Regional Sea convention	International Institution	sea-basin	Mediterranean	UNEP-MAP-PAP/RAC	Kraj Sv. Ivana 11, HR-21000 Croatia	Croatia	Dina SILOVIC	dina.silovic@paprac.org	https://paprac.org/					
5	OGS	NGO	Network	sea-basin	Mediterranean	MedPAN		France	Marie Romani	marie.romani@medpan.org	https://medpan.org/en					
6			Regional or Local Public Institution													
7			National Institution													
8			EU institution													
9			International Institution													
10			Small and Medium Enterprise													
11			University/Research													
12			NGO													
13			Network													

StakeholdersInventory DD-Code of Stakeholder roles



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WP4 – Next actions:

- ④ 4.2.1: **(OGS)** OGS proposes an online meeting to present the draft engagement plan (and questionnaire) – **end of June**;
 - ④ Draft is circulated for integrations – **After the meeting (Mid June)**
 - ④ All involved partners to revise and send to OGS – **Deadline: 1 October 2023**
 - ④ OGS: finalizes the deliverable
- ④ 4.2.2: **(OGS)** (Questionnaire) Parallel to activity done for 4.2.1 – **end of June (strong collaboration needed!)**
 - ④ Draft is circulated for integrations – **After the meeting (Mid June)**
 - ④ All involved partners to revise and send to OGS – **Deadline: 1 October 2023**
 - ④ OGS: finalizes the deliverable
- ④ 4.1.2: **(OGS)** OGS prepares a draft (on questionnaire): **1.03.2024** to be revised by partners: **1.04.2024 (strong collaboration needed!)**
- ④ 4.2.3: **(OGS)** OGS: organize online meeting after finalization of del. 4.2.2 to start workshop organization: **early November 2023?**
- ④ 4.1.5: **(OGS)** Use case 1?



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WP4 – Plan for year 2

Deliverable	Parteners	Working deadline	Action:	Deadline
4.1.6 Publication of written documents	VLIZ			continuos
4.3.2 Participation in TG DATA meetings	VLIZ , ICES			continuos
4.4.1 Ensure compatibility with INSPIRE Directive (data, metadata, data products)	VLIZ			continuos
4.1.3 Informative material based on the 4.2.3 outcomes	OGS , VLIZ, ILVO, MBA, NIMRD, SYKE, UkrSCES	01/06/2024		2024-07-10
4.3.1 Workshop with representatives of major recent and current European Research Projects and initiatives to share experience and knowledge in biodiversity monitoring and assessment and in data, tools and services	VLIZ , INRAE, OGS, Aarhus, CEFAS, Deltares, HCMR, ICES, IEO, IH Cantabria, ILVO, IMR, IPMA, MARIS, MBA, NIMRD, NIOZ, Pangea, SMHI, SYKE, UkrSCES, Ulg, U. Sheffield,	01/09/2024	To be organized WELL in advance!	2024-11-10
4.1.4 Informative material based on the 4.3.1 outcomes	OGS , VLIZ	01/03/2025		2025-05-10
4.2.4 Report on progress for the publication of fisheries survey data	VLIZ , ICES	01/03/2025		2025-05-10
4.4.2 Report on the activities to support EU Member States regarding their reporting obligations	OGS , VLIZ,	01/03/2025	Template to be used during the whole project (?)	2025-05-10

Working deadlines can be adapted according to needs



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Questions - discussion?



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WP4 – Next actions:

- 4.2.1 & 4.2.2: OGS proposes an online meeting to present the draft engagement plan (and questionnaire) – **end of June**;
 - Draft is circulated for integrations – **After the meeting (Mid June)**
 - All involved partners to revise and send to OGS – **Deadline: 1 October 2023**
 - OGS: finalizes the deliverable

Draft Engagement Plan for UNEP/MAP – Mediterranean Sea

Preamble:

The Mediterranean Sea is bordered by both EU and non-EU countries from 3 different continents, namely Europe, Africa and Asia. The Mediterranean Action Plan (MAP) of the Barcelona Convention works with Contracting Parties and partners to fulfill the vision of a healthy Mediterranean Sea and Coast that underpin sustainable development in the region.

Several EU-financed projects have provided information on data and indicators needed to address the MSFD Descriptors and the Ecological Objectives (UNEP/MAP) related to biodiversity conservation in the Mediterranean (e.g. project MEDREGION "Support Mediterranean Member States towards implementation of the MSFD new GES decision and programmes of measures and contribute to regional/subregional cooperation").

With the purpose of promoting the knowledge of EMODnet Biology in the Mediterranean Sea and of collecting feedbacks from UNEP/MAP needed to better address users' needs in the Mediterranean, it is proposed to organise an online meeting with experts from UNEP/MAP from the Regional Activity Centres (RAC) involved in environmental assessment and conservation:

- The Plan Bleu Regional Activity Centre (PB/RAC) based in Marseille, France
- The Priority Actions Programme Regional Activity Centre (PAP/RAC) based in Split, Croatia.
- The Specially Protected Areas Regional Activity Centre (SPA/RAC) based in Tunis, Tunisia
- The Regional Activity Centre for Information and Communication (INFO/RAC) based in Rome, Italy

Structure of the meeting:

- ❖ Present data and products availability for the Mediterranean Sea, implement by EMODnet.
- ❖ Present examples of products from other sea areas which could be relevant also for the Mediterranean
- ❖ Collect feedbacks on: needs in terms of data, products, services, ...

Meeting preparation:

Prepare and distribute a short overview of EMODnet Biology data and products, together with some questions on: data and product needs for environmental status assessment. Any other needs from EMODnet?

Why
Who
How
When

- ☐ Short material on what EMODnet provides with some «best examples»
- ☐ Questionnaire: feedbacks and needs
- ☐ Workshop



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WP4 – Questionnaire example – EMD Chemistry:

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Chemistry

Questionnaire to collect «advise» on EMODnet Chemistry products

EMODnet has the task to assemble marine data, products and metadata to make these fragmented resources more available to public and private users relying on quality-assured, standardised and harmonised marine data which are interoperable and free of restrictions on use.

EMODnet Chemistry targets:

- Eutrophication
- Contaminants
- Marine Litter

EMODnet Chemistry objectives:

- Shared approach at European level (EU + non EU)
- Basin scale overview
- Minimum Common Denominator

Current visualizations:

- Eutrophication
 - Basin scale maps
 - At seasonal scale
 - Based on 10-years running window (eg. 2006-2015)
 - Available for several depth layers
 - Time series

Vertical distribution:

Basin scale map

Time series

Several depth layers

- Contaminants
- Time series

Ex. Lead in Mytilus

- Marine litter
- To be defined

What we provide

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Chemistry

Fitness for use for the assessment of Environmental Status according to MSFD

☐ Use of Common indicators (eg. nutrient concentrations in the water column, chlorophyll,...)

☐ Fit
☐ Partially fit
☐ Unfit
 Suggestions?

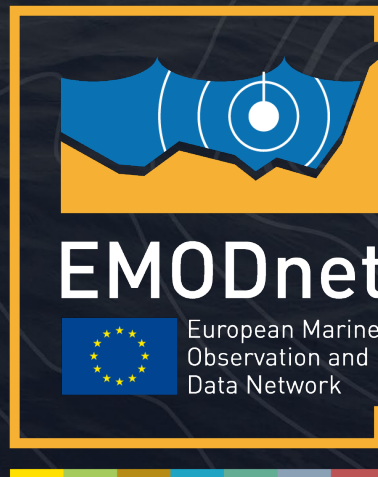
☐ Spatial resolution: basin scale (maps, for eutrophication only)

☐ Fit
☐ Partially fit
☐ Unfit
 Suggestions?

☐ Temporal resolution: 10-years running window - seasonal (maps, eutrophication)

☐ Fit
☐ Partially fit
☐ Unfit
 Suggestions?

Feedback & needs



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EMODnet Biology Phase V

Kickoff

WP5 Technical Infrastructure

Bart Vanhoorne, Frederic Leclercq

Flanders Marine
Institute





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5.1 Extend interoperability and data types (Lead: VLIZ, Subcontractor: MARIS)

Item	Summary	Details
New data types	Integration of omics and image data.	<ul style="list-style-type: none">- Using (DwC) standard extensions- Investigate how to store and track remotely linked large data blobs- Needs to link up to initiatives like the OBIS eDNA EMO-BON and eDNAQuaPlan
Alignment with other projects	Incorporation and implementation of other projects' outputs in EMODnet Biology	DTO Bio Flow, MAREGRAPH, ARMS (EMOBON), tracking data (ETN), plankton images, acoustics and developing a data model and ontology for the EurOBIS database
Interoperability	Set of agreed standards and techniques for extending the interoperable exchange of information within and outside EMODnet	<ul style="list-style-type: none">- Extending OGC standards with semantically annotated data and metadata- Link with i.e. Ocean InfoHub- Using the knowledge gathered within other projects, e.g. ENVRI, EOSC Life, FAIR Ease, EOSC interoperability framework, Open Data Directive, ...



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5.2 Implement m2m connections to data and products (Lead: VLIZ)

- ⦿ **Maintain & upgrade OGC stack** (EMODnet standard)
- ⦿ **New API endpoints for new data types (images, eDNA)**, so they can easily be queried via the EMODnet Central Portal and external machines
- ⦿ **Find ways to represent new data types** (i.e. on geoviewer)
- ⦿ **Client packages** (R, Python) will be further developed and maintained, so users can easily access the data without barriers (i.e. no login, registration, form, ...): FAIR



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5.3 Technical Infrastructure maintenance and operational management (Lead: VLIZ)

- ④ The main objective of this task is to keep the current **infrastructure and services operational**
- ④ New **microservices tech** . (i.e. Docker), using modern pipelines (i.e. CI/) + test framework (s)
- ④ Futher **develop the IPT harvest system** that is flexible and quicker in dealing with new data types (images, omics + possible others)
- ④ Tuning of the procedures and debugging of the code used to reformat the data from **BIO-ODV to DwC**



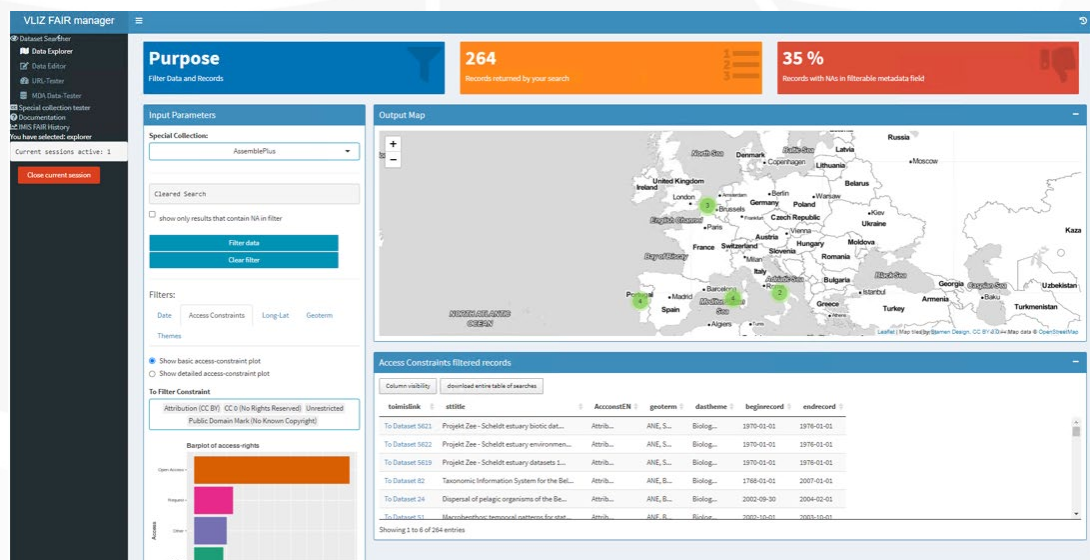
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5.4 Contribute data, data products and content to EMODnet Central portal (Lead: VLIZ)

- ⦿ Improve automated **synchronizing metadata** (from IMIS) to the EMODnet CP catalogue (GeoNetwork) and share with others e.g. the EU Open Data Portal, EOSC, EDITO-Infra, ...)

- ⦿ Via the **EOSC FAIR checker**, ensure FAIRness of existing metadata is improved





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5.4 Contribute data, data products and content to EMODnet Central portal (Lead: VLIZ)

📍 **INSPIRE compliance** will be maintained and improved (Central Portal checker)

📍 **Expand data filters CP geoviewer** to accommodate for more options. (i.e. the available seabed habitat point data, data source, species attributes, etc.)





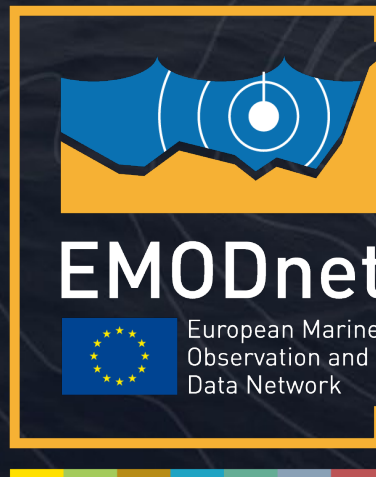
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Overview deliverables (12)

Task	Action	Deliverable	Consortium Organisation	Timeline
Task 3: Develop procedures for machine-to-machine connections to data and data products	5.1: Extend interoperability and data types	5.1.1 Streamlining semantic interoperability	VLIZ, MARIS	M0-M20
		5.1.2 Integration of omics data into the data model		M16
		5.1.3 List of agreed standards and techniques		M24
	5.2: Procedures for machine-to-machine connections to data and data products	5.2.1 M2M communication plan and solutions, including new data types	VLIZ	M0-M24
Task 4: Contribute data, data products and content to EMODnet Central Portal that allows users to find, view and download data and data products	5.3: EMODnet Biology Technical Infrastructure maintenance and operational management	5.3.1 Operational web services	VLIZ	M0-M24
		5.3.2 Technology stack upgrades: microservices, CI/CD & testing		M24
		5.3.3 Technical maintenance of procedures for ingestion of data from the data providers		M0-M24
		5.3.4 Development and implementation of procedures to publish omics data		M24
	5.4: Contribute data, data products and content to EMODnet Central Portal that allows users to find, view and download data and data products	5.4.1 Synchronisation of all data and data products metadata to the EMODnet CP catalogue (GeoNetwork)	VLIZ	M0-M24
		5.4.2 All data and products available through the EMODnet CP		M2-M24
		5.4.3 Participation in the EMODnet TWG meetings		M0-M24
		5.4.4 Maintenance and development of API used to query EMODnet Biology layers available via the EMODnet CP viewer		M0-M24



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4 Main topics discussed

WP1- Coordination

Q on report amendments-> usually language details on something to be better explained

Q about Open Conference structure→ open for everyone, it runs through a week but not all the time. Hoping to see presentations from the consortium but also from outside as in data users of EMODnet data. Some actions planned for Regional Sea Convention. Programme will be made public in September.

Suggestion-> maybe propose a topic on biodiversity data, addressing both the provider and user side

WP2- Data management

Q imagery data out of scope→ not out of scope. There is guidance published on how the data needs to be organised. The images stay with the provider

Q on omics data→ what is omics, eDNA? The tender mentions only omics, but we will address eDNA occurrence derived data. Guidelines will be available by the end of the year. linking to raw sequences allowed? Yes. We should also link to other projects and infrastructures

Q on datasets→ Where do we find the guidelines for dataset formatting? OTGA course. Not a problem to merge datasets if that's what makes most sense. How is the 15% increase of data calculated? The % increase is obtained by the number of new records.

Q on INSPIRE compliance→ focused on dataset metadata, however within EMODnet there is also monitoring of the thematic lots' webservices

WP3- Data Products

First group discussion on possible ways to create products that address the impact of marine/coastal infrastructure on migratory sea birds and cetaceans. The first community call was held during the WP breakout session where partners proposed the work they are planning to do during the phase.

WP4- Uptake and outreach

During WP4 breakout group the participants reviewed the template to map stakeholders to be engaged and evaluated the approach to involve the different Regional Sea Conventions. A meeting dedicated to revise the engagement plan and the questionnaire will be organised end of June.

Suggestion for the questionnaires: two-sided approach, from Bio to RSC and the other way around as well. Conventions report in September, for MSFD reporting is next year. We need to schedule our time to match theirs