EMODnet Thematic Lot n° 4 - Chemistry

EASME/EMFF/2016/1.3.1.2

Start date of the project: 06/03/2017 - (24 months)

EMODnet Phase III – Quarterly Progress Report

Reporting Period: 01/04/2019 – 30/09/2019

Contents

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1 Highlights during the 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. **Please make sure that progress in each of the tasks specified in Section 1.4.1 of the Tender Specifications is covered. For those tasks not experiencing significant progress, please state so.** *In addition, you can (but not required) also consider the indicators or any other of the reporting sections.*

This report relates to an interim period after the end of Phase III (at 6/3/2019), and covers the second and the third quarter of 2019. During this period, the data infrastructure and related services maintained all functionalities for the users and the data providers.

New marine litter data coming from EEA (from Marine Litter Watch) were managed, completed with metadata, and ingested into the Beach litter database. Other chemical measurements were also loaded by the partnership and made available to the users. Feedback and user support was promptly given.

EMODnet Chemistry was presented and promoted to a number of events as shown in Chapter 6.

In the following the highlights are outlined for each of the tasks specified in Section 1.4.1 of the Tender Specifications:

Task 1: Develop a common method of access to data held in repositories:

- No new development to report.

Task 2: Construct products from one or more data sources that provide users with information about the distribution of parameters in time and space:

- The available products covering eutrophication, contaminants and marine litter were released during the contract. No new development are reported for this interim period.

Task 3: Develop procedures for machine-to-machine connections to data and data products:

- Machine-to-machine connections to data and data products are installed and maintained available. No new progress to report.

Task 4: Develop a web portal allowing users to find, visualise and download data:

- EMODnet Chemistry web portal is on line and is making findable, accessible, visible and downloadable both data and data products. No new development to report.

Task 5: Ensure the involvement of regional sea conventions:

- Dialogue with four Regional Sea Conventions has been maintained through the participation in the MSFD Technical Groups (on Data and Marine Litter), where a regular dialogue is established, and through the MSFD Board of experts, consulted prior to the release of new products.

Task 6: Facilitate interoperability with data distributed by non-EU organisations:

- The EMODnet Chemistry network of data centres includes several nodes from non-EU countries, from Eastern Europe and North Africa. It builds upon the SeaDataNet pan-European infrastructure, which has been widely implemented since the nineties. In addition, it takes advantage of the links and communication started within ODIP, the Ocean Data Interoperability Platform, developed as a European effort together with Australia, Canada, and USA. The formats used by EMODnet Chemistry are in line and interoperable with international practices.

Task 7: Install a process to monitor performance and deal with user feedback:

- Procedures are up and running. No new progress to report.

Task 8: Operate a help desk offering support to users:

- The helpdesk is kept operational in the reporting period. We receive a number of support question via the Help desk as listed in Section 4.

Despite the contract break, intense interaction with EMODnet Chemistry stakeholders sustain the following crucial use cases related to:

1. Data delivery to EEA. EMODnet Chemistry continued the dialogue and collected feedbacks on the harmonized, aggregated and validated data collections for contaminants in biota provided to EEA. Unfortunately, EEA did not mention EMODnet Chemistry as possible data platform to its Eionet National Reference Centres representatives.

2. Data support to JRC and TG ML. EMODnet Chemistry provided its assistance to JRC for planning the new beach litter data collection covering 2017 and 2018 once the new contract is finalised.

As an addition, intense dialogue with CMEMS preluded active chemistry data exchange properly defined through a dedicated Memorandum of Understanding. In this case, the requested input from EMODnet Chemistry is not only related to data provision but also to share expertise on data validation and joint data products.

These use cases, being all very specific requests, took time for their proper advancement, required dedicated effort prolonged over time and set the basis for long-term collaborations. Their fulfilment is crucial to demonstrate the reliability and benefit of EMODnet Chemistry data portal.

2 Challenges encountered during the reporting period

Provide an overview of the main challenges encountered during the reporting period and the measures taken to address them, including those related to technical and data provision issues.

[Please, provide information in the table.]

Main challenge	Measures taken
EEA did not mention EMODnet Chemistry as data platform for the collection of MSFD monitoring data to its Eionet National Focal point during the last WISE SoE Data Call as financial support wasn't guaranteed.	Highlight that the new Call for Tender was opened by DG MARE
Marine Litter Watch data handling	Contact with EEA to get explanation and additional metadata. Agreement on development of a catalogue of Beaches.

3 Identified issues: status and actions taken

Provide an overview of the issues identified, if any, during the reporting period, the status of those issues, and actions taken to address them.

[Please, provide information in the table.]

Issue identified	Status (Pending/Resolved)	Action taken	Date due
Ending of the contact	Pending		October 2019
Budget cut for the new phase	Pending	Reduce the partnership and focus the actions	

4 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.

[Please, provide information in the table. If you wish to include the full user feedback in the report you can attach it in Annex.]

Date	Organisation	Type of user feedback (e.g. technical, case study, etc.)	Response time
17/07/19	European Commission - Joint Research Centre JRC	Chat: technical	1 minute
25/07/19	European Commission - Joint Research Centre JRC	Chat: technical	1 minute
30/07/19	The Carbon Promenades	Email: technical	4.5 hours
22/08/19	VLIZ	Email: technical	30 minutes
27/08/19	JNCC	Email: technical	1 day
04/09/19	n/a	Chat: technical	1 minute
08/09/19	INGV	Chat: technical	1 day

5 Meetings held/attended since last report

List here the internal and external meetings held/participated by the contractant (e.g. meeting, conference, training (workshop), etc.) since the last quarterly report. Please add a short description on the meeting as well as the nature and volume of the audience. At the bottom of the table, provide the total number of events organised and events participated.

[Please, provide information in the table.]

See Outreach and Communication activities, where all meetings are listed with a short description.

6 Outreach and communication activities

Please list all the relevant communication/outreach activities or products you have developed/executed during this period (including presentations, lectures, trainings, demonstrations, workshops, etc., and development of communication materials such as brochures, videos, press releases, newsletters, etc.). At the bottom of the table, provide a total number for every type of communication activity you have developed/executed (e.g. total # of press releases, total # of presentations given, etc.).

Table: Communication activities.

Date	Communication action/material	Short description (of the material, title, …) and/or link to the activity	Main results (# participants, # views, # press clippings, etc.)
02-03/04/19	Oral presentation	UNEP MAP Meeting of the Ecosystem Approach Correspondence Group on Pollution Monitoring (2-3 April, 2019) held in Podgorica, Montenegro.	
04-05/04/19	Oral presentation	UNEP MAP Meeting of the Ecosystem Approach Correspondence Group on Marine Litter Monitoring (4-5 April, 2019) held in Podgorica, Montenegro.	
08-12/04/19	Oral presentation	"EMODnet Chemistry activities on the development of the pan-European Marine Litter Database" in EGU General Assembly, Vienna, Austria	
17/04/19	Contribution to EMODnet presentation	EMODnet – CMEMS Coordination meeting, Brussels, Belgium	Signing of EMODnet Chemistry MoU with CMEMS
14-15/05/19	Oral presentation	EMODnet Chemistry project with focus on the new Contaminants maps was presented at the MSFD Contaminants D8+D9 Workshop, Vigo, Spain	A lot of interest and requests for improvements. In particular, the upcoming EMODnet Chemistry updating, in line with the stakeholders' needs, are the possibility to filter for official monitoring data and to get information on the QC applied to the data in the different steps.
17-18/05/19	Oral presentation and poster	Naval technique and didactic equipment exhibition for naval education "SAILING TO THE FUTURE" organized by "Mircea cel Batran" Naval Academy, Constanta, Romania. The presentation was on line and in Romanian.	
20-24/5/2019	Signing of EMODnet Chemistry MoU	Copernicus Marine Service General Assembly, Brussels, Belgium	

	with CMEMS		
24/05/19	Oral presentation	Open Sea Lab 2019 kick-off event	
12-13/06/19	Oral presentation	EMODnet Chemistry activities on Marine Litter were presented at the Marine Litter Stakeholders Workshop, hosted by the European Environmental Agency, in Copenhagen, Denmark.	
26-28/06/19	Oral presentation	EMODnet Chemistry participated and was presented at the 13th TG-ML Technical Group on Marine Litter held in Goteborg, Sweden.	
01/07/2019	Skype call	Tuning joint presentation with Copernicus	
19-23 August	Poster	Baltic Sea Science Conference, BSSC, Stockholm, Sweden	Poster showing and promoting the Swedish participation in the different EMODnet lots
02-03/09/2019	Oral contribution + short presentation	EMODnet Steering Committee and Technical working Group	
04-06/09/19	Guiding development activity	Open Sea Lab 2019, Ghent, Belgium	
09/09/2019	Skype call	Tuning joint presentation with Copernicus	
16-20/09/19	Oral presentation + Session Chairing	Oceanobs 2019 Breakout Session on «Global Observing System for Marine Debris» 17/09/2019 Honolulu, Hawaii, USA.	
16-18/09/19	Oral presentation	"Workshop on marine observations execution problems", Mykolaiv, Ukraine. Speaker: ILYIN Y.P.	Estimation of the long-term changes for the water environment quality indices by the data of routine observations on the marine hydro-meteorological network of Ukraine.
17-28/09/19	Oral presentation	MEDITERRANEAN COAST AND MACRO-REGIONAL STRATEGIES WEEK	EMODnet and HarmoNIA presented at EU Strategy for the Adriatic and Ionian Region EUSAIR
27-29/09/19	Video showing	Trieste Next, festival della ricerca scientifica and European Researchers' Night	Promotion of EMODnet Chemistry Use Cases to society
30/09/19	Skype call	Tuning joint presentation with Copernicus	
SUM		19	**Total #**
SUM of Oral Presentation		11	**Total # of Oral Presentations**

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Relevant scientific and/or popular publications (scientific papers, book chapters, conference papers, …) you published or of which you know they have been published using/referring to EMODnet data or data products during this reporting period must also be reported here.

[Please, provide information in the table.]

Table: List of known publications using EMODnet data or data products.

Date	Name of journal, conference, …	Publication title	Authors	Organisation(s)
2019	Ocean and Coastal Management	EMODnet marine litter data management at pan-European scale	Maria Eugenia Molina Jack, Maria del Mar Chaves Montero, François Galgani, Alessandra Giorgetti, Matteo Vinci, Morgan Le Moigne, Alberto Brosich	OGS, IFREMER
28/8/2019	Frontiers in Marine Science	Towards the Integrated Marine Debris Observing System	Nikolai Maximenko et al.	
7/8/2019	Frontiers in Marine Science	Ocean FAIR Data Services	Toste Tanhua et al.	
12/7/2019	Frontiers in Marine Science	The European Marine Observation and Data Network (EMODnet): Visions and Roles of the Gateway to Marine Data in Europe	Belén Martín Míguez et al.	
In press	Problems of Hydrology, Hydrochemistry and Hydroecology. - Kyiv, Nika-Centre, 2019.	Long-term changes of hydrological and chemical regime including pollution indices for the coastal marine water (on the port Odessa example) - in Ukrainian.	ILYIN Y.P., ILYIN D.Y., ILYINA O.I., KLEBANOV D.O.	National Academy of Sciences of Ukraine.

7 Annex: Other documentation attached

List in Annex if you wish to provide any additional information.

8 Monitoring indicators

Please consult and fill in the designated excel template in annex, and provide a comment in the table on each indicator when possible/applicable.

[Please provide information in the table.]

Table: Comments on the progress indicators in the excel template.

Progress indicator	Comment
1.1 Volume of available acquired data	EMODnet Chemistry data volume is very high and this reduces the trend values calculated as growth rate (((ACTUAL-LAST)/LAST)*100). Nevertheless, this reporting shows a big increase for Antifoulants in the Mediterranean Sea, obtained thanks to the synergy with the Interreg HarmoNIA (Harmonization and Networking for contaminant assessment in the Ionian and Adriatic Seas) project. This win-win interaction is described as a use case in https://www.emodnet-chemistry.eu/documents/usecases/Use_of_EMODnet_ Chemistry_data_to_improve_Quality_Control_guidelines_ synergies_between_different_initiatives
1.2 Number and coverage of built & external data products	Internal data products are reported only
2. Organisations supplying each type of data	66 Data providers are listed, with related contributions
3. Interfaces to access or view data: list changes or new items within reporting period	
4. Usage of data and data products per interface and per theme	The manual downloads of the data products have shown a big increase, even though the map visualisations have generally decreased. We cannot explain as it is not possible to download without viewing the map, unless the access is from an external service. Seabed litter has the double of map visualisations compared to beach litter. Marine litter map visualisations trend values has a wide spectrum
5. Distribution of users that have used the portal's data and data products per organisation type and country, and their main use cases	Crucial use cases by EEA and JRC are reported
6. External products (websites, apps, …) built on top of web-services:	Here we reported the known ones

update since last quarterly report	
7. Published use case and number of readings	Figures as provided by TRUST-IT.
8. Portal and Social Media visibility	Portal visibility shows a decreasing trend. Suggested keywords should be adopted to improve performances evaluation.
9.1 Technical monitoring	Figures as provided by TRUST-IT.
9.2 Portal user-friendliness	Figures as provided by TRUST-IT.
10. Visibility & Analytics for web pages	Figures as provided by EMODnet Secretariat. Unable to understand why Unique page views are almost 0 in 2018 and then goes to almost 3.000 during the 2nd and 3rd quarter (when the contract ended).
11. Visibility & Analytics for web sections	Figures as provided by EMODnet Secretariat. Unable to understand why Indicator 11 drop to 0 at the end of 2019 (was there an issue in the setting of the monitoring?).
12. Average visit duration for web pages	Figures as provided by EMODnet Secretariat. Unable to comment