

**Preparatory Actions for European Marine Observation and Data  
Network**

**NINTH PROGRESS REPORT  
FOR THE PERIOD  
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## 1. INTRODUCTION

This report gives an overview of the activities undertaken during two months of the project (4<sup>th</sup> of February 2011 – 3<sup>rd</sup> of April 2011).

This period was very active, mainly focused to the development and operation of the new data products as suggested during the EMODNET Chemical Data Products Experts workshop, held in Venice the 20<sup>th</sup> – 21<sup>st</sup> of September 2010. In fact, to answer to the Experts workshop conclusion, we developed the following elements:

- a matrix of Variables vs Marine Regions was defined with the EMODNET Chemical CDI metadata and made available under the section [Metadata & Data](#);
- a prototype of time series linked to a station map is made available in the EMODNET Chemistry Data Products Viewing and Downloading Service by Gher and IFREMER as WMS Server.

These elements and all the last projects implementations were presented at the EMODNET Chemistry Second year plenary meeting, held in Ispra the 31 March - 1 April 2011. The conclusions of the meeting, as summarised in the Action list, are given in the following. The meeting agenda, all partners presentations and action list are available on the EMODNET portal under the section [Meetings](#).

## **2. EMODNET CHEMISTRY SECOND YEAR PLENARY MEETING**

The EMODNET Chemical lot Second Annual Meeting was held at the Hotel Europa in Ispra (Italy) the 31 March - 1 April 2011, soon after the SeaDataNet Fifth Year Plenary Meeting. A total of 33 participants of partners institutes from 19 countries contributed to the event.

The plenary meeting objectives were to present the work carried out by each partner during the second year of the project, to review and discuss about the work still to do for the next months, in terms of proposals, remarks and technical prototypes, to outline the problems/lessons learned encountered during the project.

The meeting opened with a general introduction to EMODNET by Iain Shepherd (DG-MARE) and with the presentation of EMODNET Chemical lot: introduction and administrative issues by Alessandra Giorgetti / Matteo Vinci (OGS). Then the feedback on the two short questionnaires available on-line, specifically on data discovering, ordering and using , and on the products derived from the data, and the feedback on MRAG assessment of user friendliness of Emodnet portals were given by Mark E. Charlesworth (NERC-BODC). A brief summary from each partner about the data collection followed the general overview on data collection in the three regions (North Sea by Anders Windelin (NERI), Black Sea by Alexey Khaliulin (MHI) and Mediterranean by Sissy Iona (NCMR)).

The first day closed with the presentation of the status on the incoming CDI-metadata, the CDI discovery service and the new discovery matrix (named Variables vs Marine Regions), presented by Dick Schaap (MARIS).

The second day was mainly focused on QC/QA and products from a planning and operational point of view.

The guidelines for QC/QA and products, recent GE-BICH meeting experts feedback, were given by Anders Windelin (NERI-MAR) / Neil Holdsworth (ICES).

Then Neil Holdsworth (ICES) presented the status of the WP3 EMODNET Chemistry project guidelines for QC/QA and products. About this topic, the present status and the future possible steps were analyzed. To clarify the needs and the objectives of the WP3, a workshop/report with the participation of experts from the 3 Regions of interest was suggested by Neil Holdsworth (ICES). Then an brainstorming open-session, with Reiner Schlitzer (AWI) and all the other partners, discussed about several QC issues.

An overview on the EMODNET Chemistry products viewing interface Ocean Browser, and its upgrades was given by Charles Troupin that presented the work of the UIG /Gher group (Jean-Marie Beckers, Alexander Barth, Aida Alvera, Charles Troupin). The status of the last Diva software features, as the DivadoXML (Mohamed Ouberdous / Charles Troupin), was also presented.

The status of EMODNET Chemistry products discovery service CAMIOON Catalogue was presented by Gilbert Maudire (IFREMER).

An open discussion started while thinking to the general mechanism for “time-series products” metadata harvesting/management, and possible link to EMODNET products viewing interface (Ocean Browser). The prototype, set up by Jean-Marie Beckers, Alexander Barth, Aida Alvera, Charles Troupin (UIG /Gher)/ Gilbert Maudire (IFREMER), was presented by Charles Troupin. The possible use of ODV for plots generation (with a small test of plot generation and suggested steps to follow to use ODV) was presented by Reiner Schlitzer (AWI).

Finally, before the meeting closure and the brief summary about the topic discussed during the two days, Alberto Brosich (OGS) gave an overview about a proposal for a Chemical Lot WIKI. This was proposed to the partners as a common and structured collection tool of lessons learned for the 5 WP. An open discussion, about technical set up and possible solution, followed the presentation.

During the final synthesis an overview about the INSPIRE SDICS and the next possible meeting, between the SDN consortium Emodnet Chemistry Lot and INSPIRE, was given by Dick Schaap (MARIS) .

All the presentations are available from the project web site under the section [Meetings](#) together with the action list, also given in the following.

### **3. ACTION LIST EMODNET CHEMISTRY PLENARY**

#### **WP1: PROJECT MANAGEMENT**

- the document with the mapping between MSFD parameters and P021 vocab provided by Mark of BODC should be included in the Extranet.
- We have to decide whether we also want to include the MSFD - P021 mapping in the Chemistry CDI interface as has been done for EDIOS and UKDMOS already (see [www.ukdmos.org](http://www.ukdmos.org)). If ok, implementation by MARIS
- OGS will prepare for the Final report of the year 2 and the presentation at the Concertation meeting in June 2011
- Dick has taken the initiative for organising a meeting with EEA about the EMODNet Chemistry - WISE Marine link. EEA has accepted and we are planning soon a meeting in Copenhagen with a kernel group. The outcome can be used for the next EMODNet Chemistry project.
- Mid April there will be a Upgrade Black Sea SCENE project DQC Workshop to validate the present chemistry data inventory and its quality with a large group of Black Sea institutes and experts. OGS will participate.

#### **WP2: DATA COLLECTION & METADATA COMPILATION**

##### 1. General:

2. each partner should continue their activities to collect extra data and to fill the gaps in their data for the 3 matrixes (water, sediment, biota)
3. each partner must report any problems with local organisations to contribute relevant data so that we can make a list of problems for the EU report
4. each partner should check that its provided data sets are also described and included in its CDI collection in the CDI service

##### 5. Regional:

6. ICES will compare the present CDI summary for the Greater North Sea with the ICES DOME inventory to see whether there are any data lacking behind
7. MHI will include also data sets from non-EMODNet members (such as Turkey) and from international sources (such as HCMR, ..) in its analyses

#### **WP3: QC/QA AND PRODUCTS**

- Suggested by Neil ICES to ask a marine chemistry expert working group from the 3 Regions to review and discuss the QC/QA activity for data and products of the Chemical Lot. This specifically for the discussion of the management of the new “exotic” parameters. The meeting should take place within the end of this second year of work.
- Suggested the use of ODV software for QC checks of the more classic parameters (as range check...)

- We need to study how to manage in an efficient way the complexity of metadata related to Chemical data. At the moment the P011 vocab is growing very fast in amount of terms. As a next development we might think of splitting the information in specific vocabularies to make more modular and flexible the use of SDN common vocabularies.
- We should study a way to make it easier to compare datasets reported with different basis (wet/dry) or matrix (water, sediment, biota). For example we could encourage to submit data with suggested basis providing normalization factors and conversion tools if available.
- We should find a way to flag datasets from different sources that had quality assessment from the same standard. Suggestion from Mark to use L151 + L201 vocabs.
- Should we include documentation about used methods and if so, how?
- For Maps we should focus on a small range of parameters with good geographical and temporal coverage
- All other parameters should be covered by station time series products

#### **WP4: TECH DEV**

- About time series products:
  - Time series plots for datasets with a data distribution not suitable to produce DIVA interpolated maps will be produced by NODCs using ODV software following the examples already tested by Reiner. The Regional Leaders, OGS and BSH will work to provide soon a sample of this kind of products for the June progress meeting in Bruxelles.
  - All NODCs will follow suit after the June meeting to get a good coverage per partner.
  - Concerning the work flow: NODCs will provide time series plots to IFREMER and a metadata index file that will be loaded by IFREMER in the WFS layer following the format suggested by Gher and IFREMER. If necessary IFREMER and Gher will circulate the index file format.
  - As agreed time series plots will be produced as following : 1 station:1 parameter:1 depth. If a station has more than one depth many plots (n plots:n depths) will be linked to that station.
  - The time series products will be available on the web through the OceanBrowser viewing system.
  - Each partner must try to synchronise the use of station names in the index and the related CDIs and later in EDIOS because the station name will act as a linking pin
  - OGS in collaboration with the partners working on the development of time series products infrastructure will prepare and distribute soon a detailed document / manual with instructions to partners about the way forward, that is summarised above.
  - Note: in a later stage (next EMODNet project) we will make use of EDIOS to describe stations and of decentral visualisation for the time series plots.

- IFREMER will finalise soon the CAMIOON CS-W Catalogue for describing EMODNet and SeaDataNet products in a ISO19139 metadata format and it will distribute the associated Documentation / Manual. There is an online CMS available by which XML docs can be produced that have to be sent to IFREMER for inclusion in the Catalogue. The DIVA tool also has a function to create these XML docs via DIVAdoXML.
- The 3 regional managers will have to make a final list of products that will be published in the OceanBrowser and for which a CAMIOON entry has to become available
- Gher has find a way to include the CAMIOON Catalogue in the OceanBrowser so that users can see the metadata of chemical products and can use the catalogue to add WMS layers for additional SeaDataNet or EMODNet products.
  
- Gher will include bottom data in the 1st level in the OceanBrowser

#### **WP5: ANALYSIS AND EVALUATION**

- waiting for the MRAG final assessment and acting positive towards their possible suggestions
- concerning MRAG remark about ODV format: undertake action to update the ODV documentation and to include a reference to this documentation in the ODV file header
- each datacentre should approach users in its network (including OSPAR, HELCOM, etc) to complete the on-line users questionnaire
- collect feedback from the whole consortium about the difficulties on data collection
- start a collection of lessons learned for the final report (WIKI?)
- OGS will consider whether the WIKI and the present Extranet for documents can be combined in one tool
- activate extra publicity via possible newsletters of partners to encourage completing of the online questionnaire by external users