

DATAMEQ Working Group

Recommendations for the following two years

DATAMEQ WG October 2016 Ostende

The following recommendations were assembled based on the DATAMEQ discussions

On service to Users , the group recommends:

- to continue extending the regional portals with the parameters and platforms necessary for the ROOSes activities.
- to update aggregated historical in situ datasets, important for reanalysis activities carried out within EUROGOOS . In particular the group recommends NRT data providers together with SeaDataNET NODC's to set up periodic, namely yearly, aggregated data set providing the "best copy" (validation and removing duplicates) with upgraded metadata for core set of parameters (T&S , biogeochemical, currents).

On Interoperability between real-time and delayed mode data streams the group recommends:

- To use the same standards and code lists at European level based on SeaDataNet standards whenever exists
- Unique Platform code that should be delivered by a European institution and would be used both in ROOS portals and NODCs . Could be managed by JCOMMOPS in link with EMODNet. Recommendation: ROOSes contribute to maintenance and development of the 'platform directory' (C17)
- Use Provider codes (EDMO) to reference the institution of the provider. Can be managed by SeaDataNet but should be able to include monitoring institution in addition to the research institutes
- No data should be distributed without X&Y&Z&T
- a common level of platform description and sensor description using a hierarchical description of SensorML. The group suggest that this activity is carried on jointly by the EuroGOOS Task Teams together with SensorML experts
- To carry on standardized information to inform users on Quality Control Level applied on the data(Automatic RTQC, Scientifically Assessed,...)

Enhance discovery the group recommends to develop:

- an ISO19139 Schema based on the Ifremer/Sextant tool already used in CMEMS and SeaDataNet catalogues to Harmonize metadata information to describe Catalogue of products /datasets /collection
- a Catalogue of platforms (including relation to SeaDataNet C17 platform codes) , that would be operated at EU level .

- Guidelines for implementation of Data Citation (DOI) based on international work (link RDA ODIP2)

To improve interaction with Data providers the group recommends

- To Improve traceability of the use of data :
- Visibility of the providers on the integrators
- Feedback to providers of the use of data through integrators
- To Improve QC on data by efficient reporting to provider when an anomaly is detected
- To update guidelines to institutes through a handbook who want to exchange the observation they manage to connect to SeaDataNet network and/or CMEMS/EuroGOOS portals
- Involve more the potential providers by
 - organizing regional meetings
 - Support to organised data sharing for new type of platform through EuroGOOS Task Team
- Support to data centres (ROOS , NODC) to populate RT and Historical catalogues => Developing innovative ways for ingesting near real time data sets from operational stations required (for streamlining and optimizing workflows).
- Set up an efficient update process with providers using Cloud type IT services

Enhance Data quality the group recommends

- to update the DataMEQ RTQC procedures for
 - T&S, Current and Sea-Level especially for coastal data
 - For Wave
 - For Current from HF Radars
 - For O2 Chla Nitrate Carbon
- Provide error-bar and accuracy of the measurement together with the data whenever known. This action should be managed at Network level within the EuroGOOS task teams

Such recommendations will progress in close relation with major projects or organisations in Europe such as the ones listed hereafter:

- CMEMS INSTAC for real-time data stream
- SeaDataNet and CMEMS INSTAC for building historical products for reanalysis purposes
- SeaDataNet for standard improvements
- AtlantOS for trans-network in Atlantic : similar activities planned in Med and may be Arctic in 2015 BG12 call
- JERICO-Next for coastal network expertise
- EMODNet-Physics for interoperability with the EMODNet portal and contribution to unlocking access to private data
- ENVIR+, ODIP2, EUDAT : for Interoperability , Standardization and International collaboration
- EuroGOOS : to Enhance link with in situ observing system operators and downstream users
- JCOMMOPS : to Enhance link with in situ observing system operators and networks at International level