

SeaDataNet Products

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Definition of SeaDataNet products (1/2)

Collections of observations data

- Aggregated data set
 - 1 NetCDF file, several zipped ODV files
- Aggregation criterions
 - Per region (i.e. "Sea Basins" defined in Dow)
 - Per parameter
 - Per instrument (differences in accuracy and resolution)
 - Per year
- Include
 - All available data within SeaDataNet
 - With "Open Access" or "SDN Licence"



Definition of SeaDataNet products (2/2)

- Interpolated fields
 - From SeaDataNet "Collections of Observations"
 Some non public data may be added if documented (from SeaDataNet consortium : national holdings + ?)
 - One field per region / per parameter (P021)
 - Fixed grid, constant resolution in lat and lon
 - Fixed depth according to the regions (harmonization of upper layers?)
 - Annual analyses mandatory,
 other temporal resolution optional (depending on data availability)
 - 1 NetCDF file per interpolated field



Associated documentation and products access

- Products must be described in product catalogue (ISO 19139 standard to be Inspire compliant)
- For "Collections of Observations"
 - One map with location of observations at surface accessible via product catalogue
 - Several maps per depth (optionnal)?
- For "Interpolated fields"
 - Maps with interpolated field at the different depths accessible via OceanBrowser
 - Maps with estimated error?
- Downloadable from Ocean Brower and Product Catalogue
 - Under SeaDataNet license for registered users
 - Repository at ULG?



Priorities for products

First: Collections of observation data

"SeaDataNet is data management oriented"

- Collections must be fully harmonized and compliant with SeaDataNet procedures quality (flags), format, ...
- Collections must demonstrate the "SeaDataNet data collection" in relationship with EMODNET?
- (1) T, S, (2) O2, Chlorophyl, (3) Nutrients (4) PH, PCO2,?
- Only one release required (with an update for (1)?)

Secondly: "Interpolated fields"

- Main objective : to assess the quality of collections of observed data
- Validation of interpolated fields may be not fully complete (if documented)
 - → to be delegated to associated projects



Technical implementation for data aggregation

- User interface available now is not efficient for data aggregation at large scale
 - No more 500 results / request
- A new query processor is required
 - Definition of request with specific user's interface (for product managers)
 - Processing of the request in batch mode
 "no limit in quantity of data" even if elapsed time long
 - Back office development is started at Maris
 "request broker" based on existing monitoring system
 - User interface to be defined and developed (criterions, ...)
 - Available by the end of this year?
 - → definition of interface before end of october
- ODV to assemble retrieved data from all data centres sdn-userdesk@seadatanet.org www.seadatanet.org



Collaboration with MyOcean?

- SeaDataNet services must fit users' needs
- Operational Oceanography is one the major users' community of SeaDataNet (especially for T & S)
- MyOcean is very interested by SeaDataNet products (historical data : climatologies, model validation, hindcast, ...,)
- However:
 - Schedule of MyOcean2 is different from SeaDataNet one in-situ data must be ready at beginning of next year
 - SeaDataNet products are available under SeaDataNet licence
 - SeaDataNet products include only data from SeaDataNet partnership
 - MyOcean requires data from worldwide data sources
 - Global scale
 - International countries are active in seas adjacent to Europe
 - → MyOcean will have to add other data from international sources to SeaDataNet products



Possible ways for collaboration

 High priority for SeaDataNet to deliver collections of T&S data

feasible if batch mode request broker is available for the end of this year?

- Can SeaDataNet and MyOcean collaborate for quality checks? (quality procedures are similar...)
- Can MyOcean collaborate on validation of interpolated fields?
- SeaDataNet products delivered under SeaDataNet licence
- Products with non European data sources delivered under a common license?
- Products access procedures can be the same (product catalogue, Ocean Browser, user registration, ...)