

Your gateway to marine data in Europe

EMODnet Physics

EASME/EMFF/2016/006 - Operation, development and maintenance of a European Marine Observation and Data Network

EASME/EMFF/2016/1.3.1.2 - Lot 3/SI2.749411

Antonio Novellino

antonio.novellino@ettsolutions.com



EMODnet Physics















- Collect once and use many times
 - facilitate user uptake, free of restriction on use
 - FAIR: findable, accessible, interoperable, and reusable.
- Reduce fragmentation:
 - facilitate the ingestion/connection of new data sources and make available more data
- Real-time, near real time and multi-year historical data
- Build on and in collaboration with EuroGOOS ROOS, TT,
 Copernicus Marine INSTAC, SeaDataNet NODC
- Easy identification of and links to the data provider
- Provides feedback on the impact and use to data providers



EMODnet Physics

Parameters

Temperature

Salinity

Waves

Currents

Sea Level

Under water noise

Wind

Atmospheric param.

Biogeochemical param.

Optical properties

Ice data

River Runoff



comm



CMEMS INSTAC Global DAC Thematic AC¹









Global Networks

Regional Networks	ARGO
	OceanSITES
IOOS	
	DBCP
IMOS	2.50.
111100	GOSHIP/GOSUD
IAPB	G03/111/G030D

SOOS

Emerging Networks

OceanGliders (including EGO)

(Global) HFR

xAC functions:

- Acquisition
- Harmonization
 - QC (e.g. EuroGOOS DATA-MEQ WG)
 - Format
 - Vocs (SDN P01, P06, P09)
- Assessment & Validation

¹ when needed data flow were re-designed and «new» one designed



85 operational FB/Ships (294 total) but several issues

Data **coherent** in terms of:

 Data format, Metadata, Data quality flags, Processing chain, ...

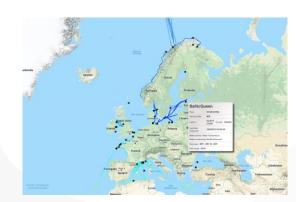
Different users, different needs:

- Data availability in near real time (within 24 hours)
- Data availability in delayed mode after calibration and/or validation
 - Reprocessed (typically within 12 months)
 - Validated (more than 12 months)

Consideration of 'Process' type studies *vs* 'operational' interests

 more metadata on sensors, calibration, accuracy ... (sensorML + SOS.SWE)

Data **easily accessible** from (e.g.) a unique point/portal Findable, Accessible, Interoperable and Reusable (**FAIR**) both for machines and for people



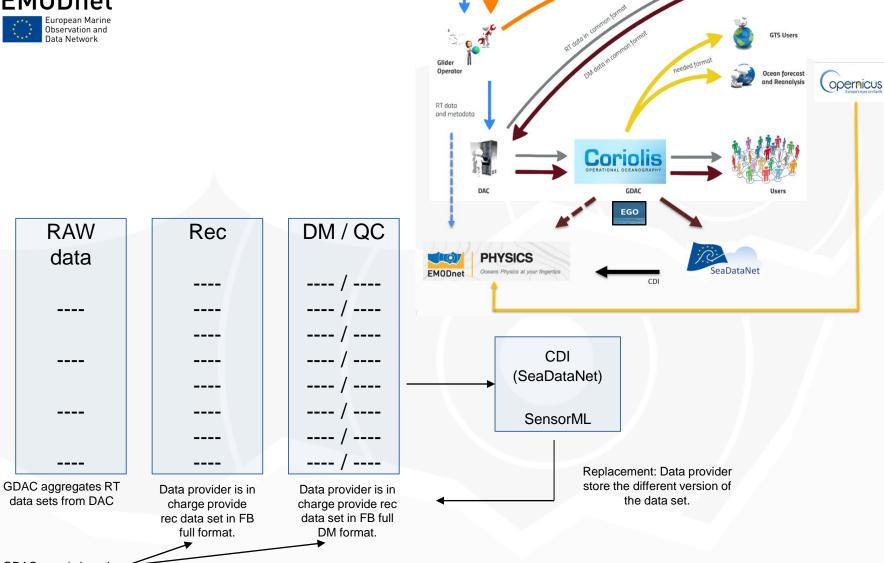


Ferrybox Workshop

Our goals:

- Present EMODnet program, EMODnet Physics and Ingestion platform.
- Engage audience on data format and data flow harmonization; facilitate more operators to join (open data distribution).
- Make data available for more users and new users
- Discuss about:
 - Common QC/QF to enable synch with other platforms
 - Resolution, format (netcdf, ODV, ...), data organization (daily, transect, cruise, ...)
 - Parameters, data flow, products and use in products (e.g. climatologies)
 - ...



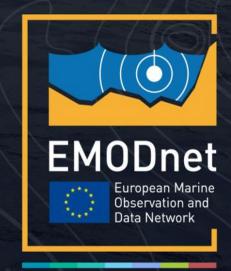


RT data

GDAC scan/mirror the DAC REC/DM datasets.



contacts@emodnet-physics.eu



www.emodnet.eu

Your gateway to marine data in Europe

