Introduction to NOOS activities

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BOOS annual meeting 2018, EuroGOOS, Brussel, Belgium
22nd of May 2018
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What’s NOOS?

North West European Shelf Operational Oceanographic System

http://noos.eurogoos.eu/
What’s NOOS?

NOOS is a network of 23 governmental agencies and research institutions

- From the 9 countries bordering the NWS
- Active in operational oceanography
- Willing to operate real-time operational data, products and services
- For the whole NWS and its Atlantic margin
NOOS motu: Coordination, cooperation and co-production

- **[overall objective]** To develop and implement on-line operational marine data and information services.

- **[Obs]** To integrate national observing networks in order to give a reliable description of the actual marine condition of the European North West Shelf (NWS) area, including physical, sedimentological, and ecosystem variables.

- **[Data]** To establish a marine database from which time series and statistical analyses can be obtained, including trends and changes in the marine environment, and the economic, environmental, and social impacts.

- **[Models]** To provide analysis, forecasts, and model-based products describing the marine conditions.

- **[Added-value products]** To collaborate with national and multinational agencies in the NWS area to maximise the efficiency of the ocean observing system, and to optimize the value of the marine information products.
Overview of NOOS services

Outcomes of active collaborations for 17+ years in NOOS working groups and other projects
NOOS data portal
Integrating the national observing networks

- Steep increase of available data in the portal
  - Both NRT and delayed mode data now included
  - Nationally funded observational activities
  - Not sustainable -> sustainability & cost analysis
  - Update and check consistency of inventories

Back office work to
NOOS modelling activities both benefit and contribute to CMEMS NWS-MFC

- NOOS continuous efforts in operational models
  - physics, waves & BGC
  - forecast, hindcast & re-analysis
- NWS-MFC operated by a consortium built around Met Office, BSH, PML and NOC
Sea level and storm surge
Integration of observation and multi-models ensemble forecast

NEW

stations covering the whole NWS coastlines
Sea level and storm surge
Ensemble modelling (RWS)
Waves
Integration of observation and multi-models ensemble forecast
Assessing the variability of Mass, heat and salt transport
Multi-models ensemble forecast (MME)
Multi-Models ensemble of multi-years products (2002-2012)
NOOS-Drift (CMEMS DEM4-Lot 5, May 2018 - Nov 2019)

multi-models ensemble system to assess and improve drift forecast accuracy
Challenges for the next few years
Collaboration with the neighboring ROOSees
Collaboration with EuroGOOS Task Teams and WGs
Strengthening the connections with our stakeholders

- Ourselves, National institutes that serve our national users
- ICES
- OSPAR
- Bonn Agreement
- EMSA
- DG-ECHO
- JRC

Enforce ecosystem approach
(NoOS main driver for future? - MSFD)

Maritime safety

Be sure they don’t duplicate what we are doing

... Disadvantage: no equivalent to BONUS programs
Conclusion

NOOS and BOOS are twin ROOSes

NOOS focuses on long-term services, historically on maritime safety but we are moving towards ecosystems

NOOS and BOOS already share several WGs (MME, …)

NOOS is willing to enforces new collaboration with neighboring ROOSes