

NOOS EuroGOOS Annual meeting

22.-23.11.2012 Hamburg

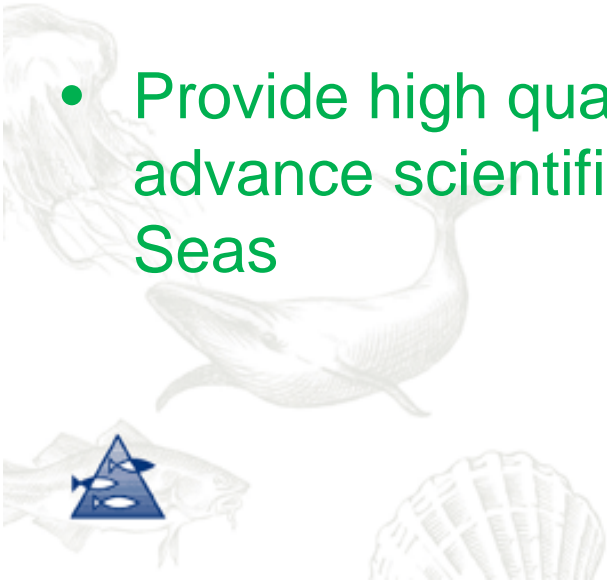
Henning Wehde
NOOS Chair





NOOS objectives

- Co-ordinate, improve and harmonize the development of operational marine data and information services
- Provide analysis, forecasts and model based products describing the marine conditions of the North West Shelf area
- Provide high quality data and long time series required to advance scientific understanding of the NW European Shelf Seas

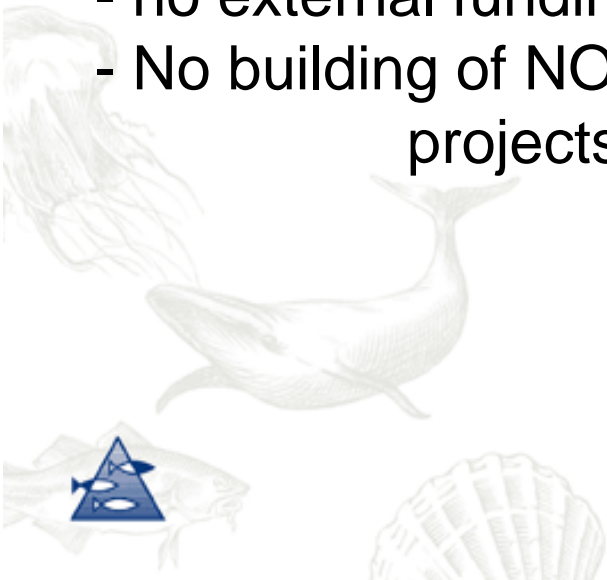




NOOS regional practice

- NOOS stands for:
 - the best way to produce services with national Contributions
 - supported by coordination, cooperation and coproduction
 - deliver to multiple end users and be publicly available through our NOOS-portal
- <http://noos.cc/>
- no external funding needed except during development
 - No building of NOOS-services without contributions of National projects

Relevant aspects are:
Exchange operational practice
Open access to data/services
International co operation
Continuity of services

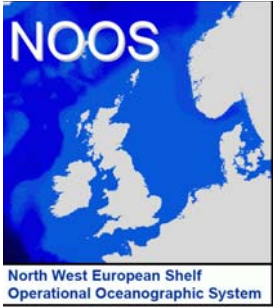




NOOS members in 2012

- Members (19)
 - BSH, DMI, IMR, MUMM, MetOff, Met.no, RWS, POL, KNMI, SMHI, Marine Institute, AWZ, **RDANH**, SHOM, Cefas, Ifremer, ACRI, Meteo France, NOCS
- Associate Members (5)
 - NERSC, NIVA, GKSS, Uni-Oldenburg, Deltares
- Representing:
 - Belgium, Denmark, France, Germany, Ireland Netherlands, Norway, Sweden and UK
 - CETMEF showed interest to become a member, DAMSA is now DCOO

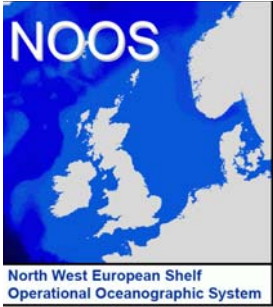




NOOS Steering Group

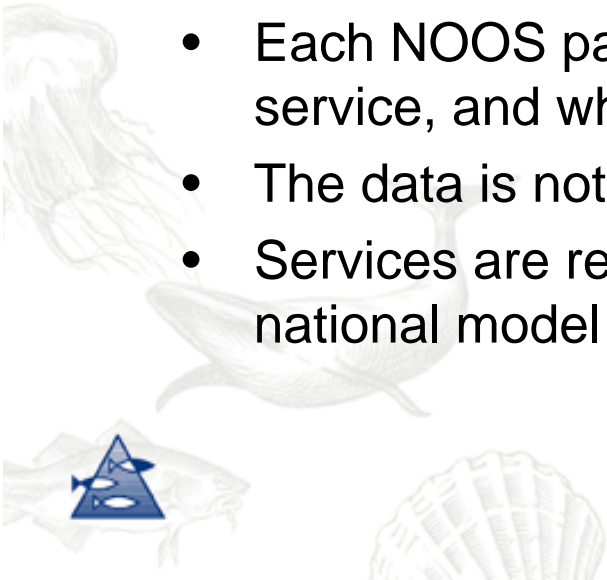
- Henning Wehde N, IMR (chair)
- Stephan Dick G, BSH
- Niels Holt DK, DCOO
- Bruce Hackett N, met.no
- Sebastien Legrand B, MUMM
- John Siddorn UK, UKMO





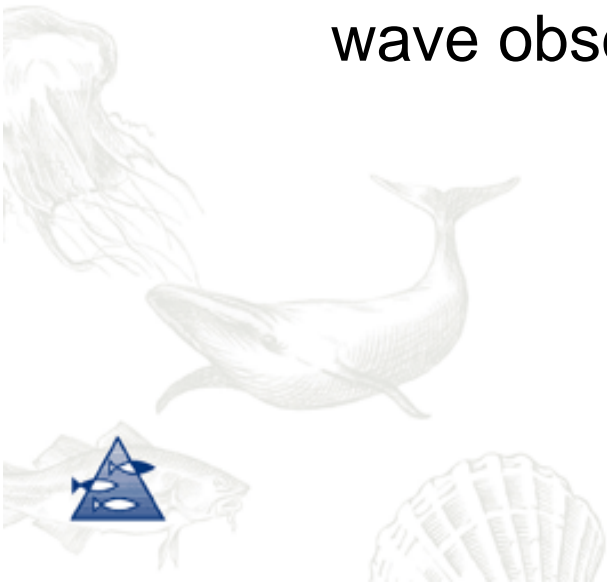
NOOS services

- **Storm surge services:** To exchange observed and forecasted water level in the NW Shelf Sea in near realtime between NOOS partners, in order to improve each partner's national storm surge and water level prediction service.
- Water level observation exchange between 8 NOOS partners: DMI, BSH, RWS, MDK, POL, MI, Met.no and SMHI. (53 coastal tide gauge stations and 1 offshore station)
- Water level forecast exchange
- Each NOOS partner who runs an operational sea level forecast service, and who so may wish, uploads a water level forecast
- The data is not to be passed on to third party.
- Services are reaching Maturity level with a yearly evaluation of all national model forecasts by DMI

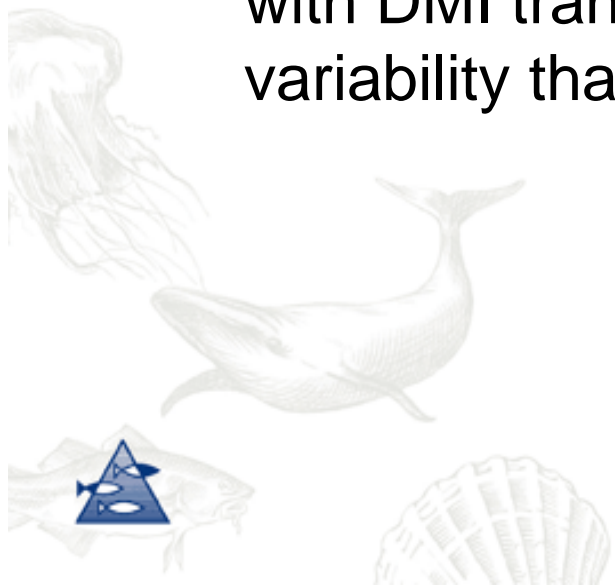




- **Wave services** The data of various wave measurements is available via the NOOS-website (<http://www.noos.cc/>), as well as via MATROOS (<http://noos.deltares.nl/>).
- However, not all locations seem to be present on these websites but DELTARES initiated a step forward in collecting all NOOS related operational wave observations in real time.

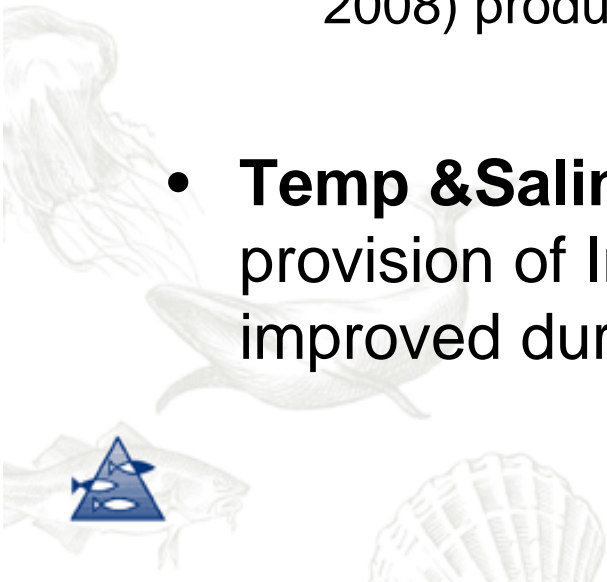


- **Transport service** Daily multi-model forecasts for salt and heat fluxes are provided on 29 transects. (BSH, MUMM, DMI and recently Metoffice)
- Results are presented in the NOOS website <http://www.noos.cc> which include charts and data of net, positive and negative water transports, vertical profiles as well as the plotting of time series.
- 3-year analysis by J.Ozer, MUMM shows good agreement across the three models in general, only with DMI transports exhibiting somewhat higher variability than the two others





- **River discharge:** Make river runoff data observed and predicted fresh water flux and nutrient/contaminant loads available to NOOS partners
 - Prognostic runoff data
 - E-HYPE: Hindcast data(daily and monthly means 1980-2008) produced
- **Temp & Salinity services** The portal for the provision of In Situ data established at BSH severely improved during the last year





NORTHWEST-SHELF DATA PORTAL



[Imprint](#) [Contact](#) [Help](#)

Legend

- Fixed buoy / Mooring
- Drift buoy
- Water level
- Profiling float
- Ship

Ferrybox routes

- M/S Color Fantasy
- M/S Trollfjord
- M/S Norbjorn 2
- M/S Bergensfjord
- Pont-Aven
- M/S Lysbris
- M/S FunnyGirl

Statistics

Facilities

Add external Layer

1. Select time range

- Last 30 days
- Monthly / Delayed

2. Select Facilities by Parameter

- Temperature
- Salinity
- Wave
- Biochemical
- Meteorology
- Water Level

Ferrybox

Ferrybox Routes

Layers

- Overlays
- Temperature
- Base Layer
- Blue Marble
- GEBCO

Delete Tracks

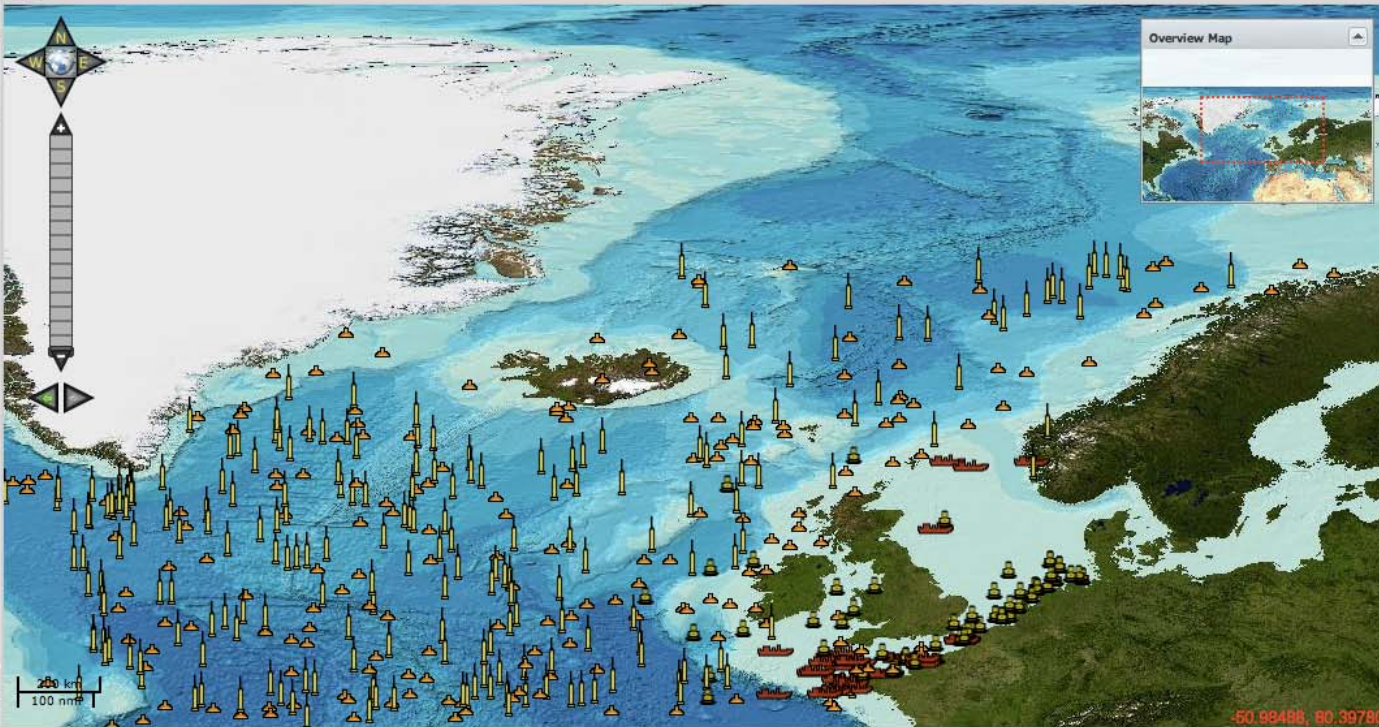
Reset

Regions

Locate Facilities

Links

Map

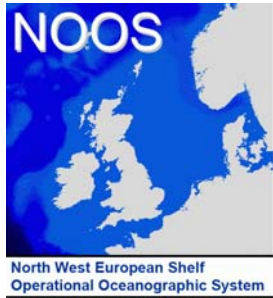


200 km
100 nmi

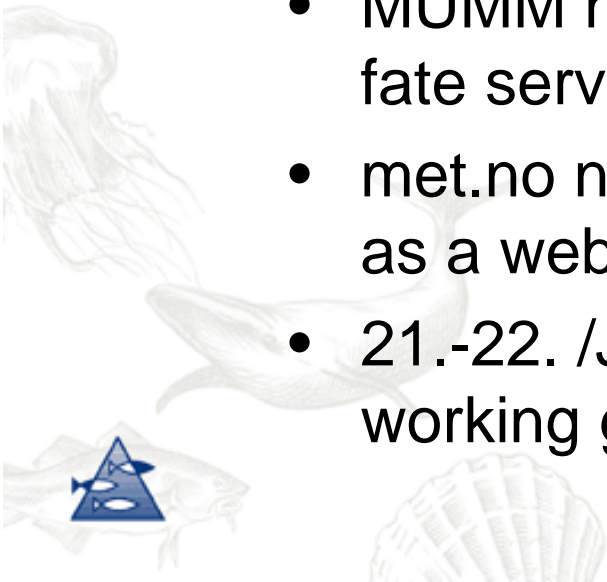
-50.98488, 80.39780

Choose Scale: 1 : 22500000



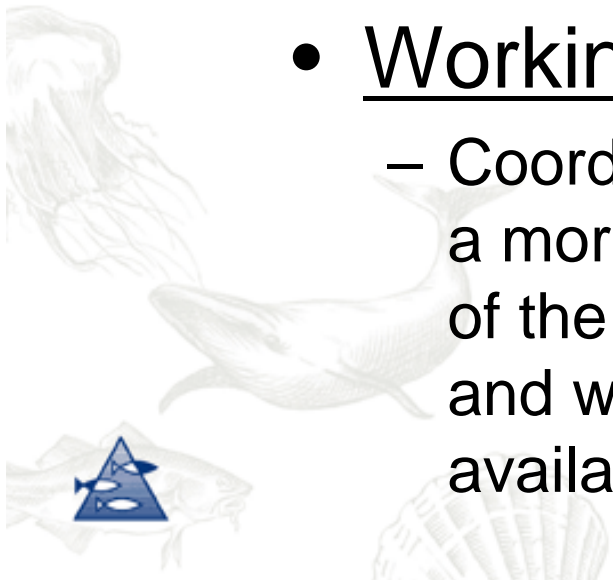


- **Drift forecast project:**
 - Set-up of the working group wiki site:
https://wiki.met.no/noos/start.
 - Set-up of a preliminary list of common test-cases
 - A short and informal update of the working group has been given at the OTSOPA annual meeting 2012.
 - MUMM has launched OSERIT, its new oil drift and fate service. (<http://oserit.mumm.ac.be/>)
 - met.no now has the Sintef/OSCAR model operational as a web service
 - 21.-22. /January 2013 : a first workshop of the working group will take place in Brussels





- Working group on modeling:
 - To understand user requirement for boundary conditions from shelf wide models to drive local high resolution models.
 - Facilitating the exchange of information on ocean modeling practices.
 - Facilitating the exchange of information on ocean-wave-atmosphere.
 - Work initiated on updating the NOOS bathymetry
- Working group on in situ monitoring:
 - Coordination of the NOOS monitoring activities in a more effective way and to foster communication of the national agencies to avoid redundancies and work to ensure the sustainability of InSitu data availability





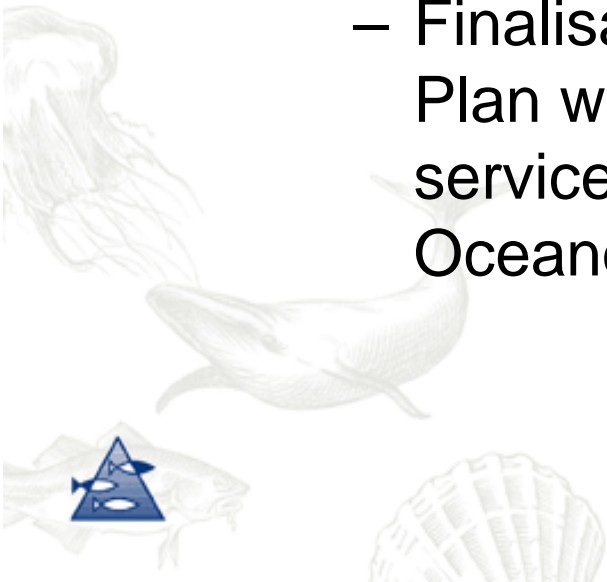
Plans for next year

- **NOOS NRT Services**

- For all observational services, efforts to extend the data coverage will be continued. More members are expected to contribute forecast data for waves and transports in the NOOS area.

- **NOOS/EuroGOOS relation**

- Finalisation of the work with the NOOS Strategy Plan with longer term future steps for NOOS services and networking within the Operational Oceanography.





Challenges

- **Last year's challenges remain for the future:**
- Achieve better coordination of national monitoring systems.
- Several members struggle to find resources for participating in NOOS and its projects
- Bridging the gap between Marine Core Services and Downstream services

