



Operational Oceanography for the NW European Shelf:

NOOS

North West European Shelf Operational Oceanography System

Henning Wehde

NOOS Chair since End of October 2011



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 acces to data/services
International co operation
Continuity of services



NOOS members in 2011

- 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

NOOS Steering Group

- Henning Wehde N, IMR (chair)
- Stephan Dick G, BSH
- Sheena Fennell I, MI
- Bruce Hackett N, met.no
- Sebastien Legrand B, MUMM
- John Siddorn UK, UKMO

NOOS services

- **Storm surge services** are reaching Maturity level with a yearly evaluation of all national model forecasts by DMI
- **Wave services** still have to be extended with more observations for better coverage and has started with forecast information
- **Transport service** (29 transects) with daily multi-model output. A model to model comparison has been carried out, comparing them to estimates published connection to MyOcean project. MUMM will continue the model to model comparison on a annual basis

- **River discharge:** Make river runoff data observed and predicted fresh water flux and nutrient/contaminant loads available to NOOS partners
- **Temp & Salinity services** A newly develop portal for the provision of In Situ data is establish ed at BSH. There is still an issue with standardising Meta-data information

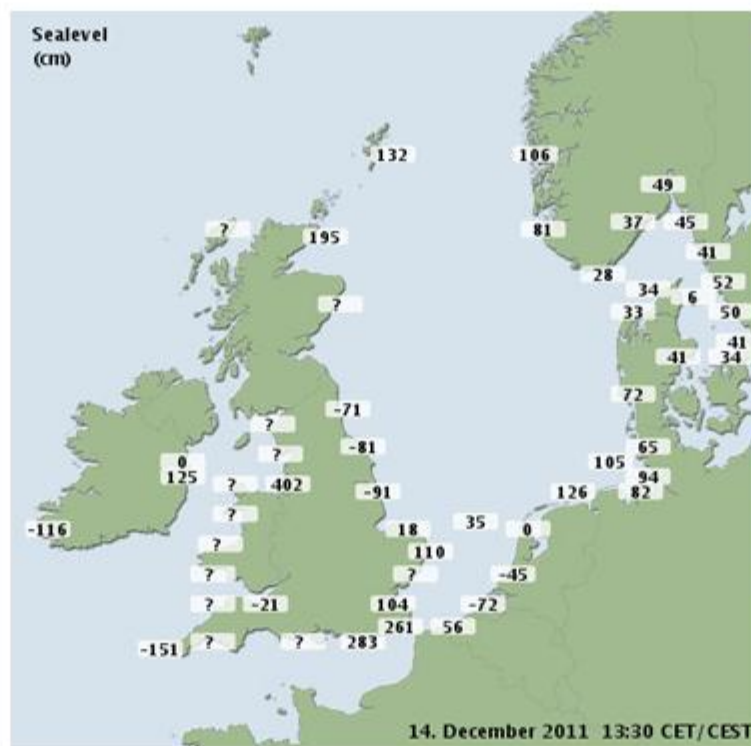


NEWS

no news in this list.
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HOME PRODUCTS REPORTS PROJECTS BACKGROUND INFOSYSTEM LINKS CONTACT

WATERLEVEL



Aberdeen
Barmouth
Bergen
Borkum
Boumemouth
Bremerhaven

Map view

Graph

Table

14. Dec 2011

13. Dec 2011

12. Dec 2011

11. Dec 2011

10. Dec 2011

9. Dec 2011



NEWS

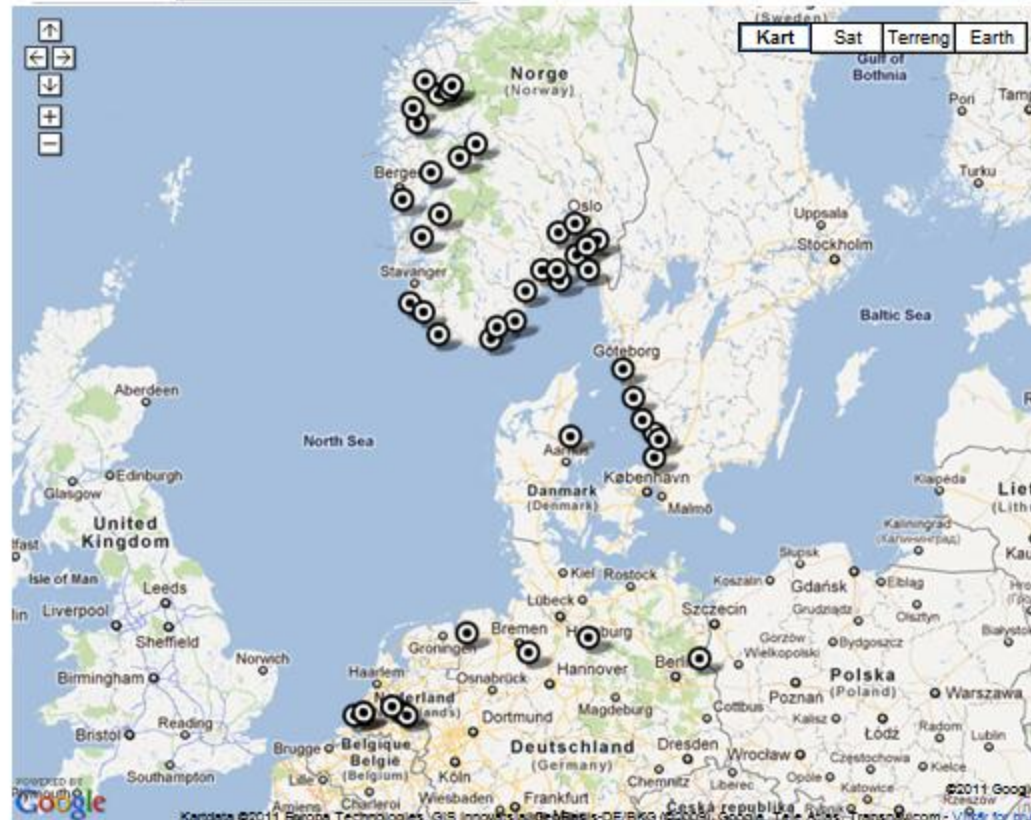
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DISCHARGE

Location set: NOOS-DISCHARGES From: 2011-12-14 00:00:00 To: 2011-12-17 00:00:00





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HOME

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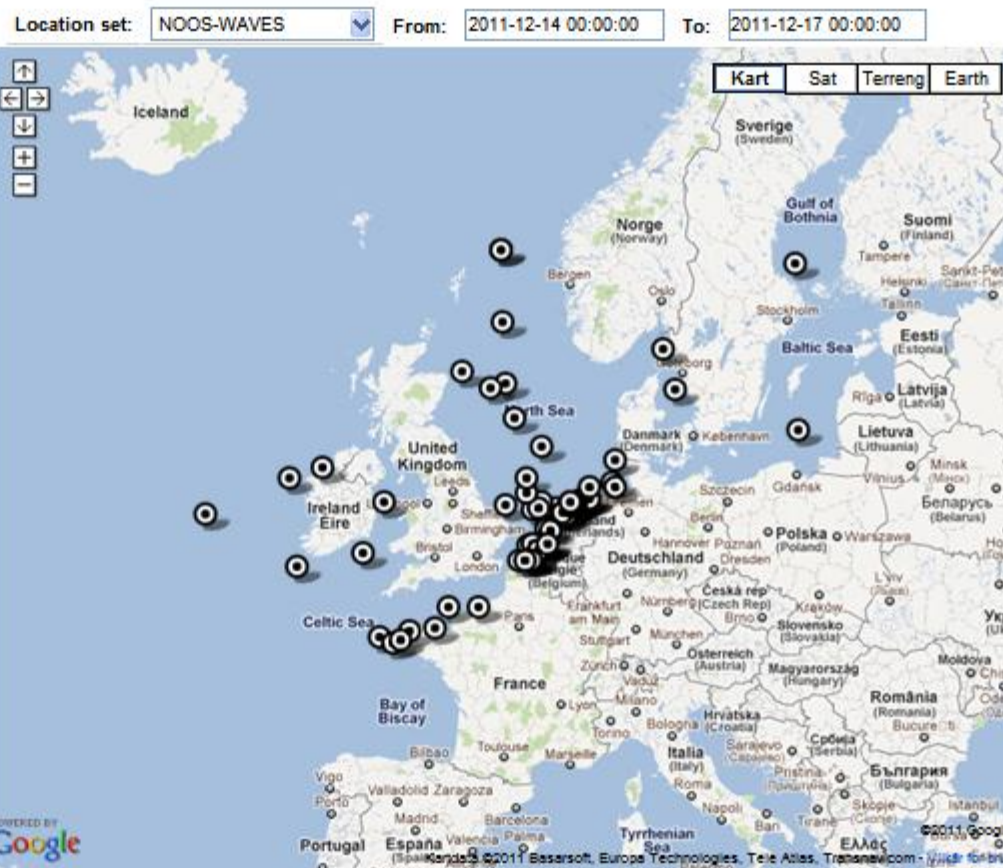
BACKGROUND

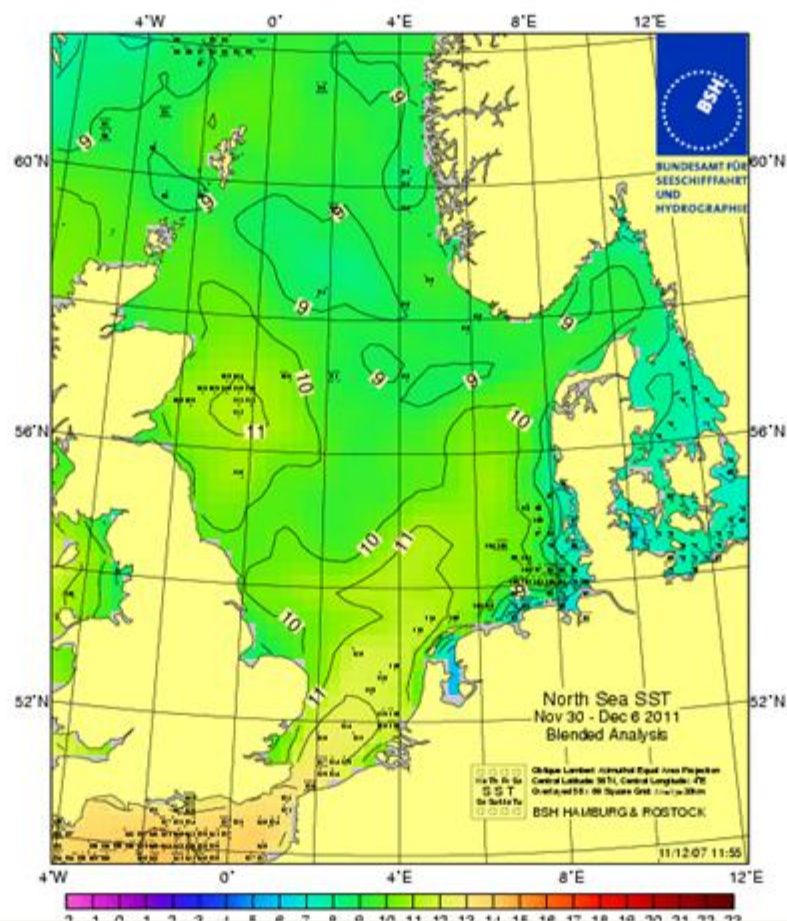
INFOSYSTEM

LINKS

CONTACT

WAVES

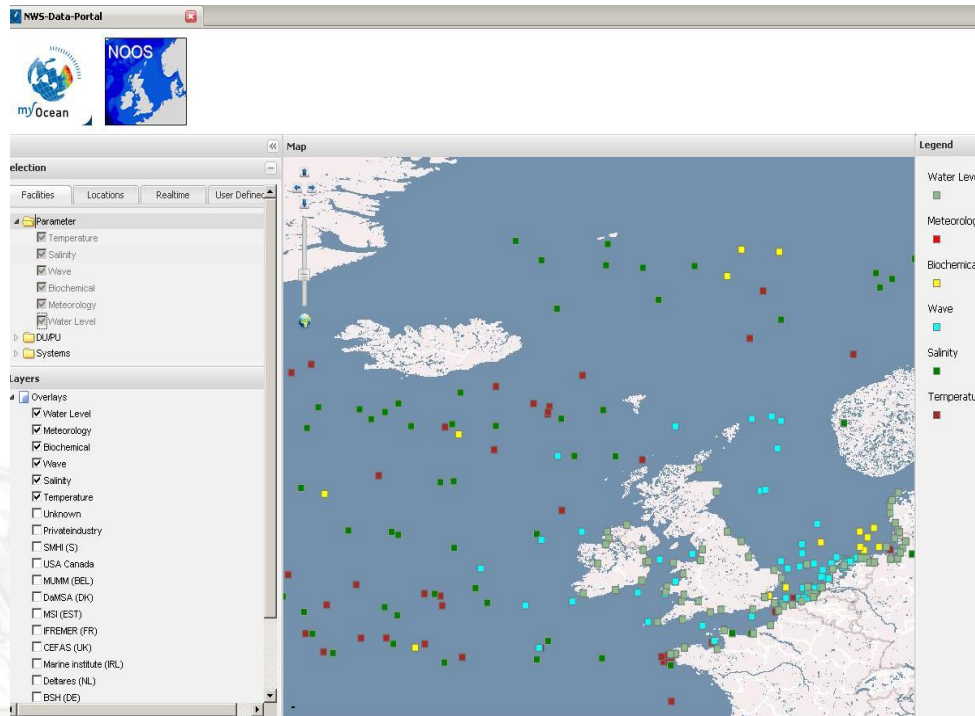




Available platforms / parameter

~200 buoys and fixed platforms

Total: ~ 250 inclusiv Drifter, Argo, Vessel and Ferrybox



Parameter | # of data sources

Temperature 115

Salinity 49

Sealevel 70

Current 14

Wave 59

(Screening on: 2011-10-21)



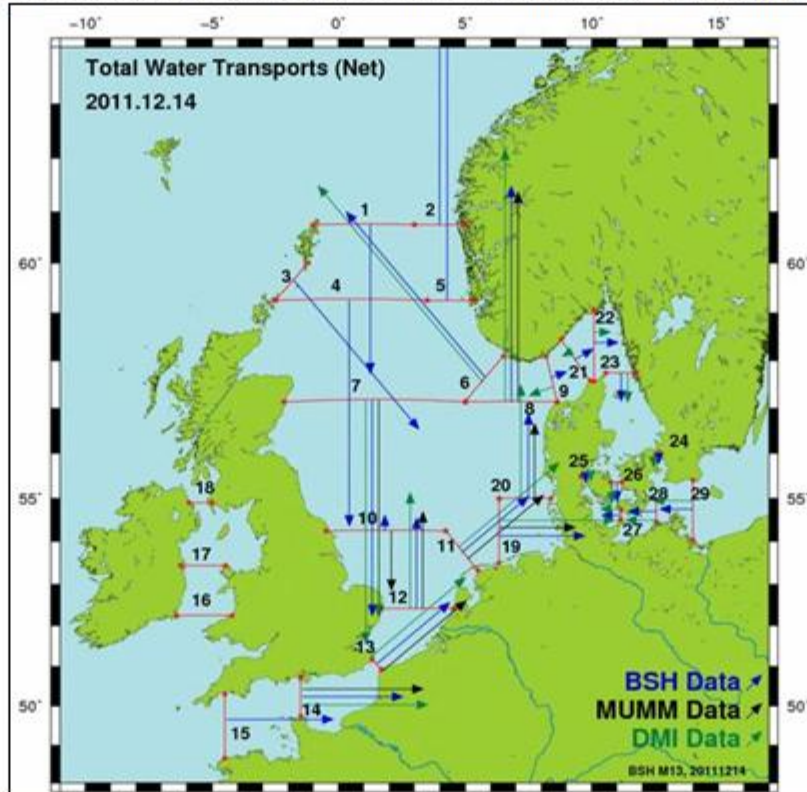
NEWS

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North Sea Transports



Computed Water Transports (Results of Different Circulation Models)
 In order to look at transects or tables click the BSH, MUMM or DMI button.



Current Charts and Transects

- 14. Dec 2011
- 13. Dec 2011
- 12. Dec 2011
- 11. Dec 2011
- 10. Dec 2011
- 9. Dec 2011
- 8. Dec 2011

[diagrams](#)

Online Archive:

(Type a Date)

20111214

EMECO project



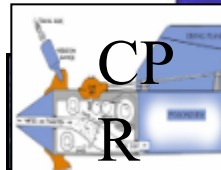
*Research
vessel*



Ferries



Glider



*Towed
bodies*

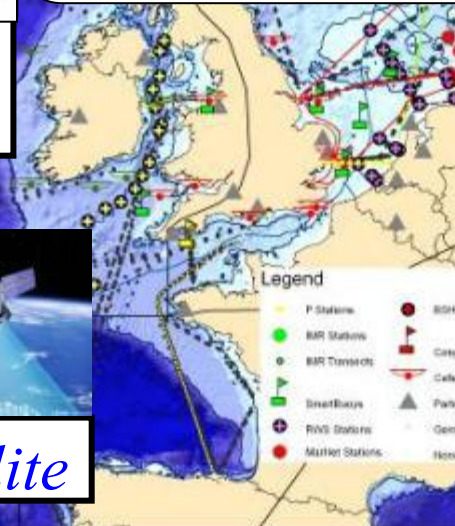
European Marine
Ecosystem
Observatory



Buoys



Satellite



Model

- **Transport project:**

- Lead Scientist: Stephan Dick, BSH
- Daily multi-model forecasts for salt and heat fluxes are provided on 29 transects.
- A model to model comparison has been carried out, comparing them to estimates published connection to MyOcean project
- MUMM will continue the model to model comparison on a annual basis.

- **River runoff project**

- Lead Scientist: Bruce Hackett, met.no
- Make river runoff data
- observed and predicted fresh water flux and nutrient/contaminant loads
- available to NOOS partners

- **Drift forecast project:**

- Lead Scientist: Sebastien Legrand, MUMM
- The Group on Search & Rescue and Oil-spill drift has been active by a first model outcome comparisons.
- Intercomparison of met.no, BSH and DAMSA models for the Full City Accident were undertaken (Brostrøm et al., 2011)

- Working group on modeling:

- Lead Scientist: John Siddorn, Metoffice
- The focal points for that Group is:
 - 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.

- Working group on in situ monitoring:
 - Lead Scientist: Henning Wehde, IMR
 - The group hasn't been active for a certain period.
 - The aim is to revitalize that group in order to coordinate the NOOS monitoring activities in a more effective way and to foster communication of the national agencies

Areas of collaboration

- continue collaboration on *in situ* observations harmonisation, collation and dissemination
- Possible common collation and provision of community forcing information; atm forcing, bathymetries, rivers
- Collaboration on forecasts for drift and spill
 - Provision ensemble of 3D ocean currents for inclusion in spill/drift models
 - Develop an community oil spill model for testing use of deterministic and probabilistic ensemble models

Areas of collaboration cont'd

- Forecasts for surge
 - Provide ensemble of SSH for inclusion in surge prediction
- Transport
 - Development of common products (observational and modeled)
- Common discussion on the 'future EuroGOOS'