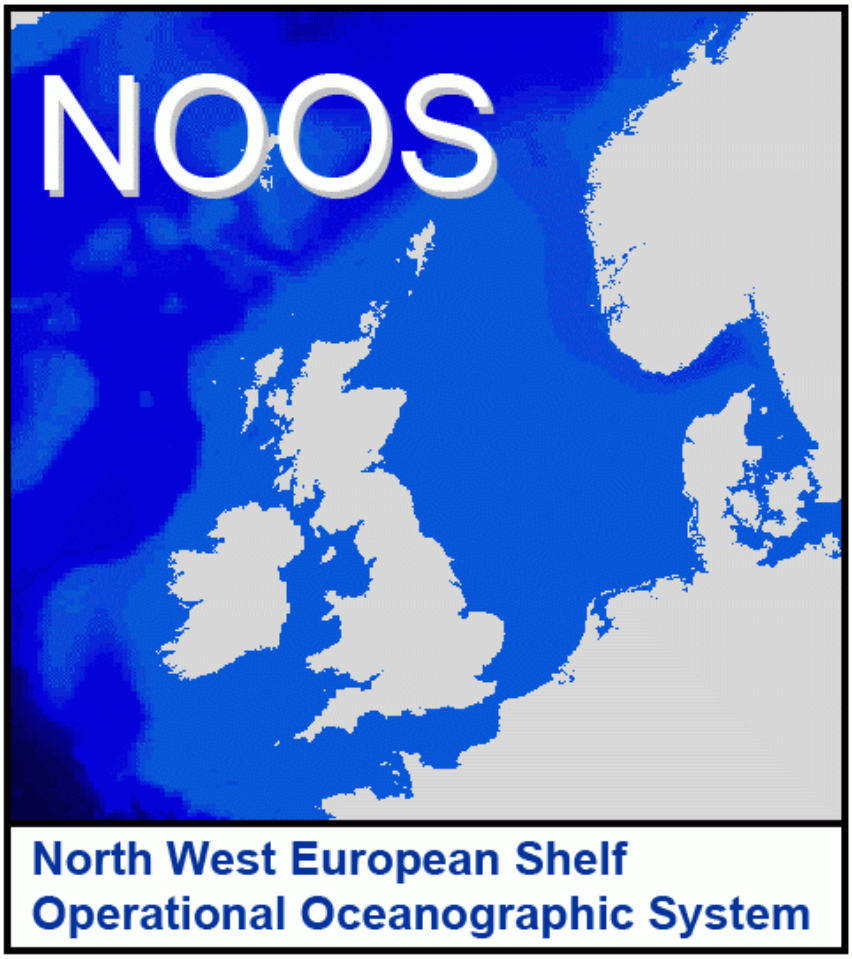
NOOS Annual Meeting 2010



08th and 09th of September 2010, BSH and GKSS, Hamburg, Germany

Document history

	Name	*Organization*	*Date*
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Amended by	***W. Pettersen*** ***Kees van Ruiten***	***GKSS / Deltares***	***23/09/2010***
Amended by	***J. Schulz-Stellenfleth***	***GKSS***	***23/09/2010***
Amended by	***S. Dick***	***BSH***	***23/09/2010***
Commented by	***S. Legrand*** ***H. Wehde*** ***S. Fennell*** ***L. Funkquist*** ***K-C. Soetje*** ***J. W. Nielsen***		***24.09. – 01.10.2010***

Participant List

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1. Welcome word by Christoph Brockmann, vice President of the BSH, and Kees van Ruiten

2. Introduction of participants

See above list

3. Thematic Workshop on data exchange (Thursday 09/10 AM)

3.1. Presentation of MyOcean WP15 activities on NOOS portal (Kai Soetje)

Kai Soetje presented an overview on the data management used for ECOOP and MyOcean. Furthermore he described the prospects of the DAPPER for presentation and downloads of data while using the NOOS-Portal (http://noos.cc)
For further information see the “Manual for NOOS Web Editors”.
In myOcean a new software (oceanotron) is actually under development, which could possibly replace DAPPER in the future.

3.2. Presentations from large scale projects

COSYNA:
Wilhem Petersen presented the recent advances of the COSYNA project (www.cosyna.de). COSYNA’s main targets are the development of an operational system based on in-situ-measurements, satellite and model data. Furthermore the project shall offer long-term climatological scenarios for the coast. A good cooperation of all institutes and agencies along Germans North Sea coast is demanded. New stations are Cuxhaven (realised) and FINO3 (in planning)

Ferryboxes:
No change in status. GKSS, NIVA and IMR intend to intensify their activities. The problems with changing routes and the planning of the maintenance still resulting in loss of data

JERICHO:
Negotiation period is finished and now we are in the phase of preparing the contract including establishment of a consortium agreement etc. Expected starting date May 2011.

MyOcean:
See business meeting

E-Hype:
Lennard Funkquist presented first results of the project E-Hype (High Resolution Hydrological Model over Europe). The model offers daily information about the river run off and nutrient discharge of main European rivers.

Furthermore it offers the average of annual runoffs and snow coverage. The model is able to supply a “now-casting”.

4. Review of the national monitoring projects and new initiatives

This review is synthesized in the NOOS member reports available on the NOOS website : http://www.noos.cc/index.php?id=159

BSH

Kai Herklotz reports about radar gauges with wave option, which were tested on the FINO1, FINO3 and on offshore wind turbines within the RAVE-project. First results should be available on the next NOOS meeting.

DAMSA

Niels Holt presented:
Deployment of 4 off-line, low cost TCD-sensors from Star Oddi at the TC-Chain in the Great Belt (http://www.star-oddi.com/products/3/DST-CTD/default.aspx) to test the accuracy and stability after long time deployment.
If the result of this test is good, we will consider using these sensors for measuring e.q. fronts in high spacious resolution.

UKMO

John Siddorn informed about:

- Porcupine Abyssal Plain oceansites buoy has new Met Buoy and surface and 30m T, S, U and V reporting hourly
- MAWS *(Marine Automated Weather Stations)* – 7 offshore including two in Biscay, two inshore (off SW Wales), 5 Light Vessels on-shelf in English Channel.
- Data from North-Sea rigs and platforms received and transmitted on GTS. Met-ocean
- including waves and some SST. Of the order 30 presently operating.
- Marine engineering team moved to National Oceanography Centre in Southampton.
- Deployment of drifters (purchased through E-SURFMAR) in the North Atlantic.

Other key issues were:

- transition to NEMO model
- MyOcean backup system

Marine Institute

Sheena Fennell reported:

- EasyCO project instrumenting Bantry Bay (SW) with non real time currents, temperature, salinity and passive samplers. Instrumenting two rivers for temperature.
- 5 operational weather buoy stations recording hourly weather and temperature and salinity. Next generation buoys will be deployed during

2010/2011 and will include directional wave information as well as meteorological information

- 2 inshore buoys recording meteorological and oceanographic parameters
- 19 operational tide gauges
- Operatioanl modelling activities using ROMS, Swan Wave Model
- Under development is a biogeochemical model and particle track analysis for fish farming; pancreatic disease, sea lice transport, HAB events

IMR + met.no

- Eight fixed hydrographic stations along the Norwegian coast running bi-monthly
- Buoy measurements conducted in Fjords with real time data transfer for T, S, currents wind and air temperature.
- Regular research vessel cruises
- New observational technology is actively supported by the IMR. The suitability of for instance ocean gliders, for monitoring purposes are tested i.e. in IPY projects. The main objective here is, to include the within the our regular monitoring programme.
- Activities within the ICES working Group on operational products (WGOOFE)

Universität Oldenburg

Thomas Badewien reported about the planned station west of the friesian island Spiekeroog. Main target is the interaction between the wadden sea and the open water of the German Bight.

DMI

Jacob Nielsen informed that 8 new tide gauges in the North Sea / Baltic transition area are being installed

MUMM

Sebastien Legrand reported about the installation of a Ferrybox on the “R.V. Belgica” (status : installation delayed to January 2011)
In cooperation with the University of Liege new remote sensing algorithms for turbidity and pCO2 are under development .

MDK
Sebastien Legrand reported about the renewal of the Monitoring Network Flemish Banks and presented the new website
www.meetnetvlaamsebanken.be

GKSS

Wilhelm Pettersen reported about the planned scanfish. Further activities see top 3 (COSYNA, Ferrybox).

SMHI

Lennart Funkquist reported: a new Ferrybox system on a transect from Kemi in the northernmost part of the Gulf of Bothnia to Gothenburg on the Swedish west coast is in operation since October 2009. This is a co-operative project between the Finnish Environment Institute, the Transatlantic Shipping Company and SMHI. Data is available in real-time and a web page for presentation of data is under development at SMHI.

5. NOOS and EU projects

Frank Janssen gave a presentation on NOOS related activities at BSH. The key issues were:

- Drift modelling in the context of GMES and DeMarine
- Model for the river Elbe in the context of the OPTEL project

John Siddorn from UK Metoffice gave an overview of recent developments in the MYOCEAN project.
Different options to connect NOOS more closely to MYOCEAN activities were discussed, e.g.:
a proposal for calibration/validation activities. A discussion was triggered by the general impression that existing and well established activities (e.g., existing operational forecast systems) at different NOOS partner institutions are not well taken into account in the preparation of the MYOCEAN-2 proposal.

Sebastien Legrand gave an overview of NOOS related activities at MUMM. The key issued were:

- Upgrade of the MUMM operational models suite made of a 2D storm surge model (resolution: ~5km), a regional 3D baroclinic model covering the Eastern English Channel and the southern North Sea (resolution: ~5km) and a 3D baroclinic model centred on the Belgian waters (resolution: ~ 0.75 km)
- Oil spill drift modelling

Johannes Schulz-Stellenfleth gave a presentation on NOOS related modelling activities at GKSS. The key issues were:

- Assimilation of HF radar data into a German Bight model
- Assimilation of FerryBox data
- Observation network assessment

A general discussion followed coming back to MYOCEAN related topics. Of particular concern was the consideration of end user requirements in the marine core services (MCS).

6. Business meeting

Storm surge: see project report
http://noos.cc/fileadmin/user_upload/Reports/NOOSWLproject_2010.pdf

Discussion on follow up of Evaluation report Storm surge forecast comparison winter 2003-2004: It is too ambitious to ask a partner to do so else that a push button action. The need is not under discussion, the workload is.
Finally, DMI (Jacob) showed their yearly evaluation of NOOS-model performance as very adequate for our need. Conclusion: national model performances are the best on national location see
http://ocean.dmi.dk/validations/surges/2009/compare_noos.uk.php

Data policy: Discussion on forecast information to open public through NOOS-portal/Seprise. It is no problem for 10-days forecast. However, if a forecast is directly related to a specific NOOS-partner it might results in constrains from this partner. In the NOOS-portal the BMA- Surge forecast for next 36h is anonymous.
However, a check on national level should be made. Action John: contact POL about data policy.

Waves: see project report (will be produced by Deltares in October 2010)
All available wave stations are on the map. However, wave data are still missing from a large number of partners. (Action: Martin Verlaan).
NOOS-portal is open for wave forecasts. (Contact: Martin Verlaan)
Needs for analysis on diffractions, swell and effect of ocean current into waves.
Check, whether there is any MyOcean MCS wave product? Action: Martin Verlaan
JCOMM has established a table of 'reliable' stations, used for global wave model intervalidation. One such table exists for the NWS area and you get it by contacting Jean Bidlot of ECMWF.
Met.no will check their six buoy locations.
MI (Glenn Nolan) must be contacted for Irish wave observation stations.

Transport: see project report
http://noos.cc/fileadmin/user_upload/Reports/NOOS-transports-factsheet_2010.pdf

MetOffice, Deltares, Met.No, DAMSA promised to have modeled transport on indicated transects in the NOOS-area in the NOOS-portal before the end of the year (Action: John, Kees and Niels contact Stephan for procedure)
After having this service running for 3 years, an excerpt of the 1st evaluation has been presented. Results are very promising. For instance, for year 2008, the correlation coefficient R^2 between BSH and MUMM models is of 0.85 (Action: MUMM, DMI, BSH).
Analysis: Look to long-term influx at Shetlands as effect of North Atlantic oscillation impact by hindcasting.

Temperature & Salinity: see project Report
Report not on NOOS-portal!! (Action Kai Soetje?)
Main effort is in MyOceaan WP 15 by BSH (Kai Soetje). MyOcean (In-situ-Tac) should be linked to NOOS-portal (Action: Kai Soetje)
Update of Metadata needed (Action: Deltares will contact RWS about their Metadata)

Drift Models (Search &Rescue, Oil spills): see project Report
http://noos.cc/fileadmin/user_upload/Reports/NOOS-drift-factsheet_2010.pdf
In the working group MUMM, Met.no, SMHI, BSH and Deltares participate.
All models have been evaluated.
Need for a shared roadmap for the future services:
Action: MUMM-Sebastien

3D-project: No report
Contact MetOffice. John will have to start up activities by taking over from Martin Holt. Action John

River runoff (E-Hype)
Additional report from Öyvind Saetra, details see 3.2

Ecological data- EMECO see project report (Report missing)
(Action Dave Mills)
http://www.emecogroup.org/
EMECO is a network, which is focusing on providing tools to integrate ecological relevant oceanographic parameters. NOOS (via Seadatanet) is one of the observational data sources. Due to absence of Dave Mills this will be discussed later. More active participation through the WP6 is EU-Jerico next year. Action Cefas-Dave
Relation NOOS-OSPAR can be linked to this activity. The draft North Sea QSR 2010 can we used to discuss the relation with Georg Pichot during EUROGOOS meeting at MUMM October. Action: Sebastien, Dave, Kees

Data exchange
NOOS is prepared for SeaDataNet. Delayed data is ok to use. However, archived data have an extra validation step. Thus, on-line data and archived data (for assessment work) should not be mixed.
National policy need for well-connected and cost-effective observations on the marine environment in the context of international drivers such as the Oslo and Paris Conventions (OSPAR), the Urban Waste Water Treatment Directive (UWWTD), the Water Framework Directive (WFD) and the Marine Strategy Framework Directive (MSFD)are being connected through EMODNET.

EMODNET (EU-Call):
What is expected from NOOS? We do not want to change the SeadataNet metadata structure.
Finally SeaDataNet and MyOcean data models should be harmonized.
Action: NOOS-partners in MyOcean will stay active in this message (IMR, BSH)

Other matter:
Need for referencing SL-stations. Contact with ESEAS is needed. Action Kees to contact DMI-Vibeke about status.

NOOS Strategic plan:
Eurogoos-office (Hans Dahlin) is offering support to write a practical plan (future steps). A draft workplan discussed in a workshop and ending with future products, development and maintenance plan. Action Kees to produce first discussion paper.

MyOcean Discussion
During the NOOS-meeting we have had a serious discussion and have contacted other in MyOcean involved persons (i.e.Kai Soetje), the NOOS-members have expressed their concerns about the development of the proposal for MyOcean II.
The complete group of NOOS-members, gathered at the NOOS Annual meeting, expresses their concerns and their recommendations to the board of MyOcean through an official NOOS-letter. A copy of this letter was send to chairs of BOOS and Arctic-ROOS, Hans Dahlin.
Main issues are the need for a multi model approach and some respect for 40 years experience on oceanography in the NOOS-region in the communication during development of the proposal.

Elections of Steering Group Members
2007: Kees van Ruiten (Chair) and Henning Wehde in 2007 (Oslo)
2008: Stephan Dick reappointed
2009 John Siddorn appointed
2010 Bruce Hackett reappointed, Sebastien Legrand appointed, Lennart Funkquist resign

New webpage:
Good progress. Thanks to Kai Soetje and Vibeke. Member products have to be partly completed (e.g. GKSS – COSYNA etc.). All members should check the links.

AOB
GKSS will change its legal name and will as of 1st November 2010 be officially called: "*Helmholtz-Zentrum Geesthacht, Zentrum für Material- und Küstenforschung GmbH* ". The acronym to be used will change to "*HZG"*.

Next Annual Meeting:
Sept 2011 in Galway (MI)

7. Steering group meeting

Attending: Kees, Henning, Sebastien, John, Stephan, Willi (partly)

7.1. Letter on planning of MyOcean 2

A letter with recommendations for continued development of Marine Core Services was formulated.
Action: Stephan to send letter to SG members for final comments until 10.09.2010.
Stephan to send letter to Kai Soetje for further distribution in BOOS
Kees to send it to Stein for Arctic ROOS
Kees to send it to NOOS members on 10.09.10 and ask for reply before 13.09.10.
Kees to send letter to Pierre Bahurel and the MCS Implementation Group on 13.09.10

7.2. Training Issues

Training activities on water level and storm surge issues have started between Deltares and BSH. For operational issues there is a strong need for training (also including e-learning).
Thomas Badewien raised the topic that there is a strong interest of universities to find places for training on the job. The SG strongly supports the training as it is often very difficult for operational agencies to find young scientists.
Action: Kees to contact Thomas asking for a request to NOOS.
All to check possibilities to offer training.

7.3. NOOS memberships

Status of NOOS memberships had been checked.

Actions:
Rijkswaterstaat: Kees to contact Marc
CEFAS: Kees is in contact with Dave
IFREMER: Henning to contact Patrick Farcy
Meteo France: Kees to contact Joel Hoffmann
KNMI: Kees to contact Jitze
NERC/POL: Kees to contact Roger for successor
NOCS: John to contact colleague at NOCS
SHOM: Kees to contact Gronan Creach
NERC: Henning to contact colleague at NERC
NERSC: Henning to contact Johnny Johannessen: Agreement that Henning will contact them prior to upcoming meetings/upcoming tasks to either agree on their participation or that the input of NERSC is assured.

7.4. Actions from last SG Meeting

NOOS Strategy:
There is a offer of EuroGOOS to provide some money for developing a NOOS work plan or strategy for the near future of NOOS. One idea is to make a workshop on that subject to get more ideas from NOOS members.
Action: Kees will formulate a short document on main strategic principles including the EuroGOOS offer. Kees will contact Hans for more information on EuroGOOS support.

7.4.1 OSPAR:
NOOS shall have better interaction within OSPAR.
Action: Sebastien to contact Georges Pichot to decide what is the OSPAR interest in OO. QSR2010 (to be published on 28th September) could be a good starting point. Sebastien will report to Kees for futher action.

7.4.2 SEPRISE:
What is the present status of SEPRISE?
Action: Henning will send email to Patrick
Status: Still alive, but no real progress. Thought to be incorporated in the actual EMODNET proposal.

7.4.3 Sealevel/Storm surge
DMI has made an assessment on the quality of surge models participating in the storm surge exchange. It is intended to put the report of the assessment on the NOOS web pages.
Action: Sebastien to contact Jakob asking him to contact the Storm Surge Exchange Group in order to agree on the publication of the results on the NOOS web pages.

7.4.4 Transports
There is good progress with strong interest of Met.Office, DAMSA, Met.No, IMR, Deltares and others to participate soon.
Action: Stephan to provide partners with needed information.

7.4.5 EMECO
There is a need to improve the cooperation between NOOS and EMECO. NOOS results on ecosystem parameters should be available in the internet. There will be activities within JERICHO but some action are desirable before.
Action: All to provide Dave Mills with input.

7.4.6 Support to the EEA to refine requirements for in-situ data for GMES
Henning and Dave Mills have represented NOOS at the EEA Meeting in June 2010 and formulated a document based on the available information from NOOS members.
Action: Henning/Dave will update the document and send it to NOOS members for further remarks.

7.4.7 WG on monitoring

There is a need for a platform to deal with or discuss monitoring issues.
Action: Henning will replace Roger as leader of the activity.

7.4.8 Communication

There is a need for a better communication within the Steering Group and between Steering Group and NOOS members.

Member and project reports
Member and project reports are very valuable – especially for the NOOS Annual Meeting.
Actions: All NOOS members should provide annual member reports (in time) before the Annual Meeting.
Project leaders should update or provide annual project reports.

7.5 Next Steering Group Meeting

The next Steering Group Meeting will be on 14. April 2011 in Delft at Deltares.