Project

Exchange of wave data and forecasts

About this document

This document (dated October 2018) outlines the requirements and structure for developing terms of reference for one of the NOOS activities.

Table of Contents

1. Background, Rationale, and Link with EuroGOOS Strategic Priorities

- The water level forecast exchange consists of three main activities.
  1. gather individual forecasts of waves and guard continuous delivery;
  2. gather wave observation data;
  3. redistribute and display information with Matroos data server of Rijkswaterstaat.
- With the view of the EuroGOOS Strategic Agenda 2020 and the short-term priority areas (EuroGOOS General Assembly 2016), how does this activity underpin those strategies? Demonstrate the alignment and usefulness of the working group for the implementation of the EuroGOOS strategy (short and long term) – 1-2 paragraphs

2. Target Audience and Expected Impact

- Main target audience are the NOOS partners interested in wave observations and forecasts.
- By making data easily accessible and open a whole range of users can be served.
- Comparing forecast quality gives insight in the band width of the model results, as well as insight in the model and methods which is the basis for knowledge exchange and improvement of the forecasts. This may lead to improved models and more accurate forecasts. Furthermore, it provides a fall-back option in case of a major breakdown in one of the forecast systems.

3. Aim, Objectives and Deliverables

- The aim is to make the wave observation data and forecasts available for all NOOS-partners, as part of the NOOS vision
- By exchanging each others forecasts for their own locations the individual (national) forecasting services gather extra information. This helps to improve their forecasts. Besides that, one can get a quick indication on consistency.
- Forecasts of other partners can be used as a fall-back if there is a major breakdown in their own systems.
- Gathering all information in the matroos data server of Rijkswaterstaat gives possibilities of guarding delivery (and take action by mailing provider), archive forecasts, redistribute to partners and NWS data portal and provide easy access to partners and display on the NOOS site.
- Main outputs are the mentioned operational services, incorporated in the Rijkswaterstaat operational systems and maintenance. Web services can be found at https://noos.matroos.rws.nl , viewer incorporated in http://noos.eurogoos.eu .

4. Composition and Operation

Rijkswaterstaat will carry out this task with the aid of NOOS partners who deliver their forecasts. Deltares will support is as a contractor of Rijkswaterstaat.

The following participants are involved:
- RWS, Marc Philippart
- DMI, Jacob Woge Nielsen
- FCOO, Carsten Hansen
- RBINS, Sebastien Legrand
- UKMO, Andrew Saulter
- BSH, Thorger Brüning, Susanne Tamm
- Deltares, Caroline Gautier

5. Mode of Operation

- The project is approved by NOOS SG.
- Interaction by mail to all NOOS members, individual contact on specific (technical) issues.
- Progress and plans are presented at Annual NOOS meetings.

6. Indicative Timetable

	2018				2019				2020			
Check the incorporated data flows			X	X	X			X	X			
Include additional model sources				X			X	X				
Include additional locations					X		X	X				
Check wave frequency domain						X						
Find co-operation with validation working group within NOOS					X	X						
Improve user friendliness in format of shared data (not only plots)							X					
Check possibilities and need for Bayesian Model Averaging (BMA)								X	X			