

NOOS PROJECT SUMMARY

November 13th 2018

KEYWORDS Water level, data exchange

<i>NOOS Water level data exchange</i>			
Project Aims	To exchange observed and forecasted water level in the NW Shelf Sea in near real-time between NOOS partners, in order to improve each partner's national storm surge and water level prediction service.		
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France	-	-	-
Present status (Nov. 2018)	<p>Water level observation exchange Real-time tide gauge data is exchanged between 8 NOOS partners: DMI, BSH, MDK, MI, Met.no, POL, RWS and SMHI. The data exchange includes 53 coastal and 1 off-shore stations. It is managed thru ftp boxes at each partner.</p> <p>France is at present not included.</p> <p>DMI collects and presents at the NOOS web page https://noos.eurogoos.eu/observations/water-level-obs-2/ in near real-time. The page displays a synoptic chart, and includes time series in graphical and digital format going one week back.</p> <p>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 tar ball on a regular basis (1, 2 or 4 times a day) for other NOOS partners to retrieve thru ftp</p>		

	<p>and use as auxiliary information in their national storm surge warning service. The forecasts include surge, sea level, tide, or a combination of these, for a fixed station table.</p> <p>The data is not to be passed on to third party.</p> <p>Superstructure and quality studies Deltares has developed an information system Matroos / Ensurf that provides real-time multi-model forecasts. The system adds value to the forecast ensemble by dynamically assigning weights using a Bayesian moving average method. This is interfaced with Google maps, and may be accessed thru the NOOS web page https://noos.eurogoos.eu/model-results/water-level-fc/</p>
Project timescale <i>Eg ongoing / to complete in 2018</i>	2018 <ul style="list-style-type: none"> • A final attempt to access observations from France thru IBI-ROOS • √ fix issue with British data • fix issue with Belgian data • update station table – only coastal stations • add Danish observations to forecast page • highlight the Bayesian mean forecast
Planned Developments	Validate Bayseian forecast, to quantify the benefit of using such in practical storm surge warning. This would require a study of several years' data.
To be assessed	The benefit of adding a synoptic surge map, in addition to the sea level map, in a practical storm surge warning context. The amount of work involved in setting up such service. The possibility of having a forecast page including only coastal stations.
Link to project documents (password protected URL ??)	-