

NOOS PROJECT SUMMARY

October 14th 2019

KEYWORDS Sea level, data exchange

<i>NOOS Sea level data exchange</i>			
Project Aims	To exchange observed and forecasted sea level in the NW Shelf Sea in near real-time between NOOS partners, in order to improve each partner's national storm surge and sea level prediction service.		
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Present status (Oct. 2019)	<p>Sea level observation exchange Real-time tide gauge data is exchanged between 9 NOOS partners: DMI, BSH, MDK, MI, Met.no, POL, RWS, SHOM and SMHI. It is managed thru urls and ftp boxes at each partner.</p> <p>There is a total of 3 NOOS presentation pages</p> <ol style="list-style-type: none"> Synoptic chart, coastal stations https://noos.euogoos.eu/observations/water-level-obs-2/ Managed by DMI NRT data plus 5 days archive France is at present not included, as the time delay is too large. Matroos chart https://noos.euogoos.eu/observations/nl-matroos-obs/ Managed by Deltares Includes data download service Part of the more general Matroos forecast service. France, Denmark, Norway not included – but Swedish Baltic is. 		

	<p>Inland/upstream and off-shore stations included</p> <p>3. NWS data portal nwportal.bsh.de Managed by BSH General ocean data service, not limited to sea level Pass-word protected Includes download of daily, monthly, annual series in netcdf format. Seems to be comprehensive</p> <p>Sea level forecast exchange Each NOOS partner in charge of an operational sea level forecast service, is encouraged to upload a sea level forecast tar ball on a regular basis (1, 2 or 4 times a day) for other NOOS partners to retrieve thru ftp 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. The data is not to be passed on to third party.</p> <p>1. The data is collected, presented and archived thru the Deltares Matroos / Ensurf interface at https://noos.eurogoos.eu/model-results/water-level-fc/ https://noos.matroos.rws.nl/ A forecast ensemble weighted mean is added by a Bayesian moving average method.</p> <p>2. The data is collected and archived for statistical study at DMI.</p>
Project timescale <i>Eg ongoing / to complete in 2020</i>	<ul style="list-style-type: none"> • Add Danish, French, Norwegian data to Matroos observation page. • Port this to the extent possible to the Matroos forecast page • Highlight the Bayesian mean forecast
Planned Developments	<ul style="list-style-type: none"> • Inventory of Matroos / Ensurf forecasts. What is stored? • Validation of this data set, to quantify the possible benefit of using such in practical storm surge warning.
To be assessed	<ul style="list-style-type: none"> • The benefit of and work needed to adding a synoptic surge map, in addition to the sea level map, in a practical storm surge warning context. • The possibility of having a forecast page switch to include only coastal stations.
Link to project documents (password protected URL ??)	-