Ocean Science

*Supplement of*

# Application of the HIDRA2 deep-learning model for sea level forecasting along the Estonian coast of the Baltic Sea

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**Supplementary Material – Figure S1**

Figure S1 presents the predictions of HIDRA2 with a 24-hour lead time, alongside those of NEMO$_{BAL}$, for the entire study period at each station. For clarity, the performance of NEMO$_{EST}$—which demonstrated the lowest overall accuracy—is not included here (see Table 2 in the main manuscript for further details). Both HIDRA2 and NEMO$_{BAL}$ show consistent tracking of the observed SSH patterns, particularly during extreme SSH events throughout the comparison period.
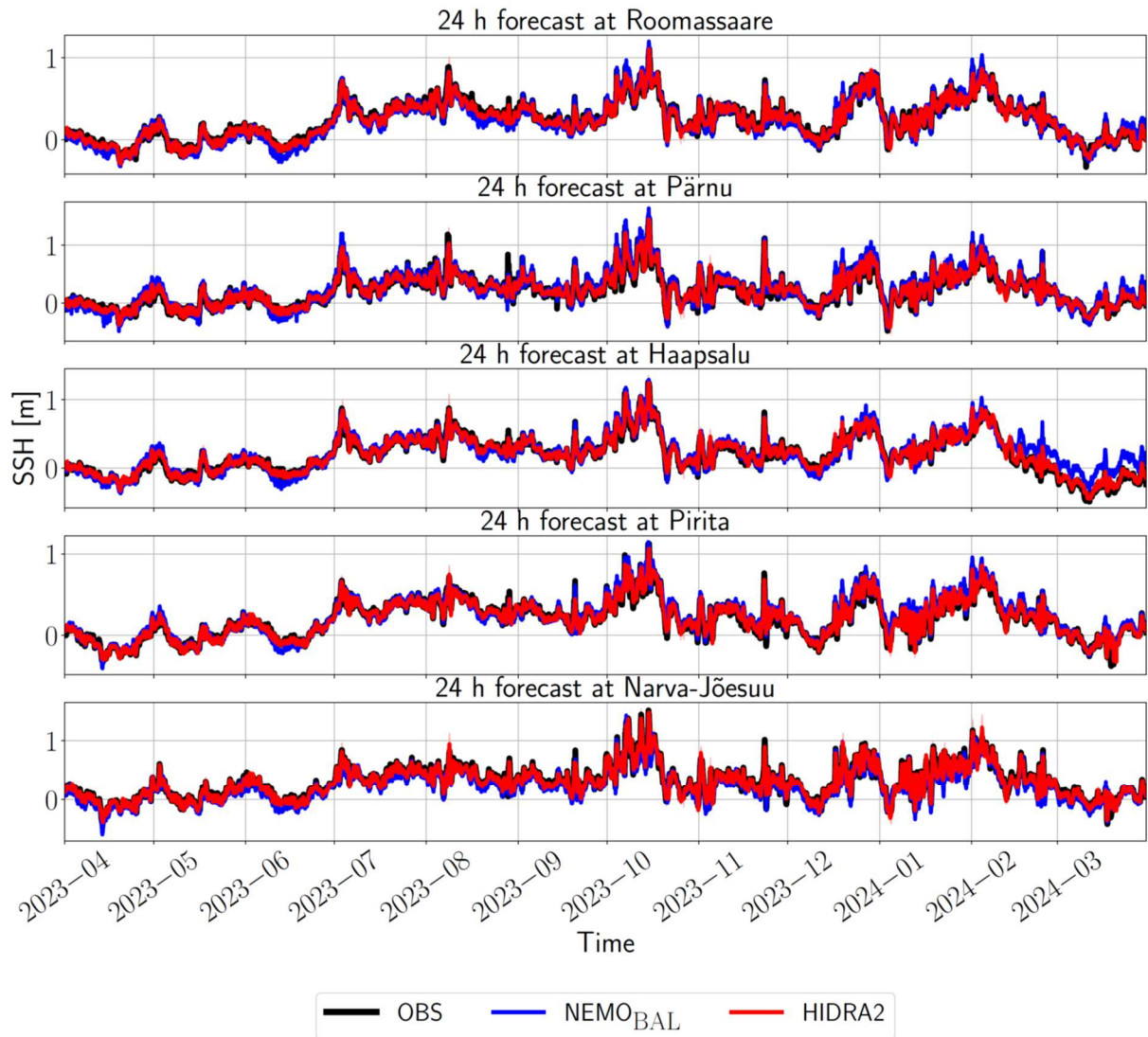


**Figure S1.** *Observed SSH (black line) versus NEMO_BAL (blue line) and HIDRA2 ensemble mean (red line) forecasts with a 24-hour lead time at various stations between April 2023 and April 2024.*