

## ***Interactive comment on “A validation of an operational wave and surge prediction system for the Dutch Coast” by L. Sembiring et al.***

**L. Sembiring et al.**

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Thank you for your comments and suggestions on the manuscript. Our response to the comments:

1. The proposed model system CoSMoS couples ocean, coastal, and nearshore models so that coastal hazard information (water level, wave heights, currents, dune erosion) can be provided along the coast. In this paper, we present the setup and the validation of the system for the Dutch continental shelf and the Central Holland coast. In this paper, we did not present the ‘in context’ application, as it will require analysis of nearshore region and the processes, while in the paper, we focused on the system setup and validation of the regional models as boundary generators.

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We do not incorporate the model uncertainty in the analysis. We believe such study needs more dedicated work, and is an area of future research, in which we should be able to define prediction threshold for decision making purposes. We will add a note on this limitation into the paper accordingly.

2. Minor items:

a. A table for all variables including the units

We will add a table to the manuscript

b. Font size in figures should be bigger

We will make the font size bigger for figures

c. Colored lines with symbol

We will modify some figures so that lines can be read more easily

d. Figure legend

We will add legends to the figures

e. Precision, use 0.1 precision

We will use a uniform precision of 0.1

f. More details in figure caption regarding abbreviation

We have provided information in Table 3 for station names and the abbreviations used in the paper. For astronomical tidal constituents like M2, S2, and M4 ... we believe these are well known concept, therefore explanation in the caption of Figure 5 is not necessary.

g. Size of figures, make them vertical instead of horizontal to gain space

We will re-arrange the display of Figure 9 to become vertically displayed.

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Best regards,  
Sembiring et al.

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