

## Response to Referees

Dear anonymous Referees,

5 we wish you a Happy New Year and want to express our gratitude for once again reviewing our pre-print. Your previous feedback was very helpful to improve the quality of our manuscript, and we are pleased that you are satisfied with the corrections, changes and additions we implemented. Thank you for pointing out the additional corrections and typos, which we will rectify in our manuscript. Below, please find a point-by-point reply to your latest comments. Thank you for your time and dedication to improving our work.

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Greetings from Hamburg

### Response to referee#2

Referee comment:

15 Overall: Standardize the paragraph spacing in the text.

**Response:** Thank you for the remark. We standardized the paragraph spacing by adding a 6 pt. space before each paragraph. We kindly ask the editorial team to notify us, if that is not wanted. Additionally, we added and deleted some paragraph spaces for a clearer text arrangement.

20 **Action:** We changed the formatting by adding a 6 pt. space before each paragraph. Additionally, we added and deleted some paragraph spaces for a clearer text arrangement.

Referee comment:

Line 7: Remove comma.

**Action:** We changed the sentence as suggested

Referee comment:

25 Line 8: "...raise water levels but also..."

**Action:** We changed the sentence as suggested

Referee comment:

Line 35: Remove extra space after "2012".

**Action:** We changed the sentence as suggested

30 Referee comment:

Line 82: Remove extra "(" after "e.g.".

**Action:** We changed the sentence as suggested

Referee comment:

Line 114: "...parameters of estuarine geometry: mean hydraulic..."

35 **Action:** We changed the sentence as suggested

Referee comment:

Figure 1: Fonts are still hard to read. Perhaps would be safer to change it to a standard font like Arial or so? Numbers are either squeezed (y-axis left panel), or small (x-axis left panel).

40 **Reply:** Thank you for your comment. We agree, and therefore we changed the font to Arial and increased the font size in Figure 1 and Figure 5.

**Action:** We changed the font type and font size in Figure 1 and Figure 5 to improve the readability.

## Response to referee#1

Referee comment:

45 1) Line 72: Suggestion: “This can in turn lead [...]” instead of “This can in turn led [...]”.

**Action:** We changed the sentence as suggested

Referee comment:

2) Line 87: Shouldn't it be “time-dependent” instead of “time-depended”?

**Action:** We changed the sentence as suggested

50 Referee comment:

3) Line 110: Suggestion: “[...] estuary [...]” instead of “[...] estuariy [...]”.

**Action:** We changed the sentence as suggested

Referee comment:

55 4) Some of the figures seem to have rather low resolution. The authors might consider to use a higher resolution for their figures. If this issue was only caused by the compression of images during the generation of the pdf-file, this comment might be neglected.

**Reply:** Thank you for pointing out the low resolution of the figures. We now realize that the figures were compressed when we inserted them into the document, which caused a low resolution. We now replaced the figures with a high resolution.

60 **Action:** We replaced all figures with higher resolution figures.

Referee comment:

5) Full stops are missing at the end of many figure/table captions.

**Action:** We added full stops at the end of figure and table captions.

Referee comment:

65 6) Figure 5: Why is the station “Scharhörn” shown in this figure? This station is never mentioned in the entire manuscript. Accordingly, the station shouldn't necessarily be highlighted in this figure.

**Reply:** Thank you for your suggestion. We agree and therefore deleted the marker for Scharhörn in the figure.

70 **Action:** The marker “Scharhörn” is deleted from Figure 5 and Scharhörn is not mentioned anymore in the figure caption.

Referee comment:

7) Line 247: Suggestion: “[...] key parameter [...]” instead of “[...] keyparameter [...]”.

**Action:** We changed the sentence as suggested

Referee comment:

75 8) Line 373: Suggestion: “[...] a SLR [...]” instead of “[...] an SLR [...]”.

**Action:** We changed the sentence as suggested

Referee comment:

9) Line 472: Suggestion: “[...] changes in intertidal [...]” instead of “[...] changes in of intertidal [...]”.

80 **Action:** We changed the sentence as suggested

Referee comment:

10) Line 477: Suggestion: “[...] in the estuary.” instead of “[...] in estuary.”.

**Action:** We changed the sentence as suggested

Referee comment:

85 11) Line 481: Suggestion: “[...] in estuary cross-sections [...]” instead of “[...] in an estuary cross-sections [...]”.

**Action:** We changed the sentence as suggested

Referee comment:

90 12) Line 531: Suggestion: “[...] gradual convergence [...]” instead of “[...] gradually convergence [...]”.

**Action:** We changed the sentence as suggested