

Thanks again for various constructive suggestions/comments from both of you. Based on your comments, we modified the manuscript as follows:

Responses to reviewer 1

> (Line 57 and more) No space between "20" and "degree-N" is required.

>

Our English proofreading service requested this space, but now we re-checked BG manuscript guidelines and found that the proper formulation of coordinates in BG is "a degree sign and a space when naming the direction (e.g. 30° N, 25° E)".

In the revised manuscript, we corrected styles of all coordinates in the text.

> (Line 136) The saturation state of calcite may not be necessary as the paper only mentions that of aragonite.

>

We removed the words regarding Ω_{ca} .

> (Line 190) "to > 1 mg L-1" > "by > 1mg L-1"

>

corrected.

> (Line 220 and more) "141,000 tN y-1" > "1.41 × 10⁵ tN y – 1" Significant figures should be aligned > with other places.

>

Numbers corrected to be displayed with index.

Figures will be properly aligned by editorial office at the publication.

> (Line 268 and more) "amplitude was the highest and ~ the lowest" > "amplitude was the largest ~ > and the smallest". The adjective for "amplitude" is generally considered to be "large" rather than > "high".

>

We corrected the expressions.

> (Line 429) Waldbusser et al. [2015] > Waldbusser et al. (2015)

>

corrected.

> (Line 496 in Table 2) Ohono > Ohno

>

corrected.

Responses to reviewer 2

> P27, L679: Please write "seawater" in one word.

>

corrected.

> P27, L681: Please correct "also".

>

corrected.

> P27, L687: Please write "..not the main cause.."

>

corrected.