

***Interactive comment on “Impact of climate and hydrochemistry on shape variation – a case study on Neotropical cytheroidean Ostracoda” by Claudia Wrozyna et al.***

**Anonymous Referee #2**

Received and published: 4 December 2017

Presented data and descriptions in this manuscript include interesting and important information. The research focus on the influence of the environmental conditions on the geographical-scale morphological variation of ostracod valves was interesting. However, the descriptions of discussion section were too descriptive, and telling only that morphological differences were found among the remotely distributed sites, and those differences seemed to be related to environmental gradients. This is the weakest point of this manuscript as an original article. I feel that the authors should discuss about the mechanisms behind the apparent relationship between shape of ostracod valves and environmental parameters. It would be better if the authors could show some hypothetical interpretation from their observed results. I think deeper discussions on this

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point contribute to improve the scientific significance of this manuscript.

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Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2017-390>, 2017.

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