

Clim. Past Discuss., author comment AC2
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Reply on RC2

Robin Fentimen et al.

Author comment on "A 300,000 year record of cold-water coral mound build-up at the East Melilla Coral Province (SE Alboran Sea, western Mediterranean)" by Robin Fentimen et al., Clim. Past Discuss., <https://doi.org/10.5194/cp-2021-162-AC2>, 2022

We thank the reviewer for the constructive comments and suggestions given in his letter. We believe that the proposed corrections will reinforce the manuscript and that they can all be integrated to a future revised version of this work. It is true that the introduction and discussion omits a certain number of key papers that have, for some, recently been published in the last couple of months (noticeably Wang et al., 2021 and Corbera et al., 2022). Referencing and discussing the observations made in these studies will indeed help to reinforce the discussion and this shall be done in the revised version. The PhD of Thomas Krenzel had not been discussed since it was unpublished (as mentioned by the Reviewer) but we fully agree that this thesis is a considerable piece of work on the given topic and needs to be included and discussed in a revised version. In the same way, we shall reference to the PhD thesis of the first author (Robin Fentimen) as it was published in 2020 and includes the results presented in this manuscript. Some parts of the discussion may be indeed slightly unclear or immature in part. We shall strive to focus better on the main message that corals grew during both interglacial and glacial periods but quite possibly under stressful environmental conditions.

Regarding the specific comments and the structure of the manuscript, we agree with what has been suggested and the corrections will be made. We thank the reviewer for his thorough reading together with the detailed corrections he provided and shall prepare a revised version of the manuscript including all the corrections proposed.

Best regards,

Robin Fentimen and co-authors