

Interactive comment on “Assessment of hydrothermal alteration on micro- and nanostructures of biocarbonates: quantitative statistical grain-area analysis of diagenetic overprint” by Laura A. Casella et al.

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Munich, October 15th 2018

Dear Dr. de Nooijer,

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Please find attached our reply to all referee's comments and the revised manuscript entitled: "Hydrothermal alteration of aragonitic biocarbonates: assessment of micro- and nanostructural dissolution-reprecipitation and constraints of diagenetic overprint from quantitative statistical grain-area analysis" by Laura A. Casella, Sixin He, Erika Griesshaber, Lourdes Fernández-Díaz, Martina Greiner, Elizabeth M. Harper, Daniel J. Jackson, Andreas Ziegler, Vasileios Mavromatis, Martin Dietzel, Anton Eisenhauer, Sabino Veintemillas-Verdaguer, Uwe Brand and Wolfgang W. Schmahl.

We are happy about the positive replies of all three referees and express our acknowledgements to the reviewers for their comments which helped to improve the manuscript.

We attached a detailed reply to all reviewers' comments and a description of all changes made in the revised manuscript. The manuscript has been consequently amended. Acopy of the manuscript showing the changes is attached.

Due to additional data on TGA measurements presented in the revised manuscript, we extended our list of co-authors as follows: Martina Greiner and Sabino Veintemillas-Verdaguer. Both co-authors contributed to the preparation, conduction, and data evaluation of TGA data during the revision of our manuscript.

We hope that the manuscript in its revised version will be acceptable for publication in Biogeosciences. Thank you for your time handling our manuscript.

Yours sincerely, Laura Casella

Please also note the supplement to this comment:
<https://www.biogeosciences-discuss.net/bg-2018-249/bg-2018-249-AC6-supplement.pdf>

Interactive comment on Biogeosciences Discuss., <https://doi.org/10.5194/bg-2018-249>, 2018.

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