

***Interactive comment on “Experimental diagenesis: Insights into aragonite to calcite transformation of *Arctica islandica* shells by hydrothermal treatment” by Laura A. Casella et al.***

**Laura A. Casella et al.**

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Munich, 20th December 2016

Dear Dr. de Nooijer,

Please find attached our reply to all referee's comments and the revised manuscript entitled: "Experimental diagenesis: Insights into aragonite to calcite transformation of

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*Arctica islandica* shells by hydrothermal treatment" by L. A. Casella, E. Griesshaber, X. Yin, A. Ziegler, V. Mavromatis, D. Müller, A.-C. Ritter, D. Hippler, E. M. Harper, M. Dietzel, A. Immenhauser, B. R. Schöne, L. Angiolini and W. W. Schmahl.

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

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

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:

<http://www.biogeosciences-discuss.net/bg-2016-355/bg-2016-355-AC1-supplement.pdf>

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