

## ***Interactive comment on “Contrasting trends in element incorporation in hyaline and miliolid foraminifera” by Inge van Dijk et al.***

**Inge van Dijk et al.**

inge.van.dijk@nioz.nl

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Dear Dr Fujita,

Thanks for the thorough reading of our manuscript and your constructive comments.

In general, the main concern of this referee was the focus of the manuscript, which should be more towards the potential of Zn/Ca and Ba/Ca as carbonate system proxies. By changing and restructuring the introduction and discussion session, we shifted the focus of the manuscript more towards the changes in Zn and Ba incorporation as a function of pCO<sub>2</sub>. The conclusions and abstract are changed accordingly. Another one of the suggestions by both reviewers is to broaden the discussion by including other biomineralization and ion transport models to explain the species-specific trends in element incorporation.

Attached you can find a pdf with the comments of the referee are posted (in italics). We address these issues point by point, in bold.

Please also note the supplement to this comment:

<http://www.biogeosciences-discuss.net/bg-2016-402/bg-2016-402-AC1-supplement.pdf>

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Interactive comment on Biogeosciences Discuss., doi:10.5194/bg-2016-402, 2016.

**BGD**

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