

Interactive comment on “Impact of ambient conditions on the Si isotope fractionation in marine pore fluids during early diagenesis” by Sonja Geilert et al.

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The manuscript by Geilert and co-authors presents stable silicon isotope data obtained from pore fluid, water column, hydrothermal plume, and sediment samples at several different sites in the Guaymas Basin. The authors present the geochemical differences observed at these different sites and discuss the implications of processes, such as early diagenesis, on the cycling of Si in the marine environment. The data are of high quality and the authors have done an excellent job at interpreting and presenting their data. The manuscript is timely and worthy of publication in Biogeosciences. This is the second time that I have reviewed this manuscript (first time was with GCA), and I have

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very few additional suggestions to make, and only of an editorial manner.

Dear Jill Sutton, Thank you very much for your positive evaluation and the valuable feedback and comments on our manuscript. We will incorporate the changes you propose in case of a positive evaluation by the editor.

1) Lines 13 and 44 (for example) – Can the authors please check their usage of the definition of Si throughout the text? Here the authors describe silica as Si (line 13) but also silicon as Si. I would prefer that the authors of the manuscript use Si to describe silicon and SiO₂ for silica (consistent with the other abbreviations used throughout the text).

2+3) We will use the abbreviation Si for silicon and SiO₂ for silica throughout the revised text.

1) Line 226 – please change “insignificant” to “unimportant”.

2+3) We will change the word accordingly.

1) Throughout – it is De La Rocha (and not de la Rocha). Varela (2004) should be Varela et al. 2004

2+3) We will change the references accordingly.

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