

Dear Kiersten,

Many thanks for your corrections and comments. We improved MS following your proposals.

Before finally accepting the paper for publication in ESSD, I have some questions and a suggestion for your data table

- I am very impressed by your extensive data table and its presentation. However, I wanted to ask you for some adjustments in the URL column of the "references APA" spreadsheet:

Please change all URLs leading to DOI referenced articles directly via the DOI link

(<https://doi.org/10.xxxx/YYYY>, e.g. change "<https://link.springer.com/article/10.1007/s10347-017-0492-1>" in the URL column to <https://doi.org/10.1007/s10347-017-0492-1>. Using DOI links ensures that the paper will always be reached, even if a URL changes (e.g. when a journal changes the publisher).

- corrected. A few more references and datapoints were also added, and these updates additionally listed in the new spreadsheet (Additions to v.2)

- After uploading the new data table to Zenodo, please update the DOI and respective reference in the manuscript (i.e. include the new version and new DOI to the reference).

- done

- Line 253: Please change "Updates will be available under the same web address" (this is not correct, because the DOI above references the actual version 2.0 that should change to 3.0 after you have updated the data table as suggested above) to "New versions of the database will be also published via Zenodo. The most recent version of will always be accessible via <https://doi.org/10.5281/zenodo.4289834>"

- done

- Line 171: here you are referring to "stable carbon and oxygen isotope data" in the supplementary material. Is this still correct? I didn't find any geochemical data in the Supplementary material. Please clarify

"Supplementary include" replaced by "Database includes also"

Our database includes the isotopic data , spreadsheets "Cenozoic glendonite and ikaite", "Mesozoic glendonite", "Paleozoic glendonite"

Mikhail Rogov, on behalf by all co-authors