

Dear Editor,

Thank you for the final comments. We corrected the manuscript according to the comments.

- Sections 1.1 and 1.2 should be moved to 'Materials and Methods'

Done

- Cruise NBP1502A – please specify timing of the cruise and research vessel used

The details are added at the beginning of section 2.2.

- The sentence regarding replicates remains unclear (see lines 161 and 184). Please, rephrase.

It is now changed into "Two replicates were analysed for SH in samples 200 and 280 cm from KC30." At the end of section 2.4.

- Fig. 5 is cited before Figs. 3 and 4; Fig. 7 is cited before Fig. 6. Please, revise the figure numbers according to the order in which they are cited in the text

Early citation of Fig. 5 is removed. Figs 6 and 7 renumbered.

Moreover, the *Data availability* statement has been updated. And the doi location of Table S1 indicated in the Supplement.

With the kindest regards,

Wojtek Majewski and co-authors