

Line 40 and 499: In both instances work by Kiselev et al. (2017) is quoted for size-dependency of INPs and the role of an organic coating. Though the Kiselev et al. (2017) study is very nice, it does not focus on these points. Kiselev et al. (2017) examine ice nucleation using SEM. Their work may be cited better at another place in the document. Though I do not want to promote my own work here, we discuss size-dependency of INPs and organic matter as INP in our 2018 review (Knopf et al., ACS ESC, 2018). The AGU Monograph review by Kanji et al. (2017) may cover these topics as well.

Thank you for your recommendation. The updates have been made on both lines 42 and 501. Additionally, the Kiselev et al. (2017) reference has been relocated to a more appropriate section at line 39.

Line 122: Missing citation?

The citation appears at the end of the paragraph because all the information presented here is drawn from that same reference.

Line 283 and following throughout the manuscript: In places there is a superfluous space after the bracket letter.

I intended to use the approximate symbol “~,” but it was incorrectly coded in the libtext file. I have now corrected this and updated all occurrences throughout the manuscript.

Line 370: There is a question mark after "December".

I have updated the question mark to a period.

Line 451: There seems to be a citation issue: "(, USGS...)".

When I attempt to update this reference, it still appears unchanged. I will collaborate with the technical review team to ensure the citation is displayed correctly.

Line 531 and following: The headlines for the following four paragraphs are missing.

I have verified that the libtext file is coded correctly, but the titles still are not displayed in the PDF. I will collaborate closely with the technical review team to ensure the titles appear appropriately in each section.