

Ding et al have adequately addressed my comments and I now find the manuscript suitable for publication in Ocean Science. The English of the manuscript is overall good; however, I noted some minor grammatical issues. I have noted a few instances below, but the manuscript should be read over before final publication. Also, this may just be my own stylistic preference, but I do recommend that the authors reserve the word “significant” for when results are statistically significant (i.e. there is an associated p value).

Line 167: “..., supplied by **the** Hansell Biogeochemical Laboratory”.

Line 172: it should be “analytical precision”, not “analytic precisions”.

Line 190: “The maximum total uncertainty is...” instead of “The total uncertainty is...or better”

Line 234: “In the upper 1000 m depth” should be replaced with “above 1000 m”.

Line 318: “Calculation” should be replaced with “**The** calculation”.

Line 333: Replace “combine in” with “both”. Also, remove “of”.

Line 459: “Significantly lower”, not “significant lower”.