

## **Stratification and mixed layer depth around Iceland, characterization and inter-annual variability**

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I think that the authors have responded well to my comments and that the manuscript is ready for publication. I have only a few minor, editorial comments.

### **Detailed comments:**

Line 112:

Niskin bottle is misspelled.

Line 142:

There's one comma too many on this line.

Line 167:

The bulk and gradient Richardson numbers should be consistently capitalized.

Line 275:

There's at least one comma missing in "...deeper, colder, and fresher MLS...".

Line 305:

It would probably be more correct to write "The Pearson correlation coefficient...".

Line 362:

There's a mismatch between the legend and the description in the figure caption regarding the colors of the different lines. Also, the black dots and lines represent the mean fall, winter, and summer MLDs and standard deviations, not just from winter and summer.

Line 370:

Iceland is misspelled.

Line 370:

Northern is misspelled.

Supplementary Figure S4:

It is interesting to see the various combinations of forcing mechanisms, but I don't fully understand the text introducing the figure. Do you mean that you use summer profiles to initialize the simulations? In that case, shouldn't the time along the x-axis be adjusted with start in summer rather than fall? If you show the same simulations, there seems to be a mismatch between the MLD evolutions in Figures 8 and S4 that I can't account for. Please clarify the text.