

We have addressed the editors comments.

In reply to:

"Confirm SI unit of salinity: Is it "ppt" or dimensionless? And how does this differ from salt concentration (used earlier in manuscript)?"

We express salinity in ppt (g/kg) rather than PSU, which is acceptable and SI-compatible. ppt corresponds directly to the salt concentration by mass (i.e., 36 ppt = 36 g of salt per kg of water), see Section A2. We've clarified this point in the manuscript and changed "salt concentration" to "salinity" to avoid confusion.

We've addressed the linguistic changes as requested with two modifications.

"l220: Remove ", quite roughly, "."

This changes the meaning a bit, so instead we changed to "though roughly".

"l242: Remove parenthesis around new sentence."

We instead included the new sentence in the old one.

In addition some typo corrections and stylistic changes were made.