Arctic Mediterranean Exchanges: A consistent volume budget and trends in transports from two decades of observations” by Svein Østerhus et al.
https://doi.org/10.5194/os-2018-114

Response to Topic Editor

Please find our answer below (in yellow answering boxes).

Technical issues:

P2, L2 this enables us (instead of allows us)

**ANSWER** Changed accordingly

P6, L10 water originally (blank)

**ANSWER** Changed accordingly

P16, L2 delete: in principle

**ANSWER** Deleted

P16, L3-4 and is discussed in Sect. 4.1. (instead of: and deserves discussion (Sect. 4.1))

**ANSWER** Changed accordingly

P16, L17 “is” instead of “was”

**ANSWER** Changed accordingly

P16, L21-22 (Morison et al., 2007); this is further evidence that an imbalance of 0.1 Sv is unrealistic.

**ANSWER** Changed accordingly

P19, L7-8 “We should therefore not expect a perfect balance between average AM-import and AM-export.” I do not agree with that. With all these caveats, an imbalance is possible but not a priori expected.

**ANSWER** The word “expect” has been replaced by “demand”.

P20, L11 “For other purposes, this might not be the case, however.” It is not clear what is meant here. Please rephrase or explain.

**ANSWER** This sentence and the end of the paragraph have been replaced by: “The main motivation for monitoring these flows is, however, to observe their effects on conditions in the AM and on the AMOC. That purpose may be better served by locating some of the monitoring sections somewhat downstream from the intensive mixing areas over the Greenland-Scotland Ridge.”

Repetition:

The Conclusions section contains a lot of repetition from the previous sections, and not that much of new conclusions. Please check whether this can be reduced and changed.

**ANSWER** The Conclusions section has been reduced by more than 40% and is now hopefully less repetitive and more concise.
Several cases: Deep-Sea Research (hyphen)

**Answer**

All "Deep Sea" changed to Deep-Sea


**Answer**

Changed accordingly

Change, I. P. o. C.: Climate Change 2013 – The Physical Science Basis … This is not the author; should be Stocker et al. Please correct, also in the text.

**Answer**

Changed to:


Hansen and Meincke: Deep-Sea Research (in full, as in all other references, for consistency)

**Answer**

Change made

Please check some more at other references.

**Answer**

All references are checked and mistake corrected. Caltech Library Journal Title Abbreviations is used. For DOI’s we have used: https://doi.org/......