



# Corrigendum: Borealization of the Arctic Ocean in Response to Anomalous Advection From Sub-Arctic Seas

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## A Corrigendum on

**Borealization of the Arctic Ocean in Response to Anomalous Advection From Sub-Arctic Seas** by Polyakov, I. V., Alkire, M. B., Bluhm, B. A., Brown, K. A., Carmack, E. C., Chierici, M., et al. (2020). *Front. Mar. Sci.* 7:491. doi: 10.3389/fmars.2020.00491

In the original article, there was an error. The description of the method used to calculate the depth of the lower boundary of the halocline is not complete. “This algorithm is used in **Figures 12, 13**. The depth of the 0°C isotherm defines the total halocline base depth; it is used in all other figures where the depth of the halocline base is required (**Figures 7, 8, 14, 15** and **Supplementary Figure 7**).” was missing from the original description.

A correction has been made to **Methods, Sub-section a. Methods in physical observations, Sub-section Halocline Base Depth**:

“For each CTD and ITP profile the lower halocline boundary is defined following Bourgain and Gascard (2011) who show that the density ratio  $R_\rho = (\alpha \partial \theta / \partial z) / (\beta \partial S / \partial z) = 0.05$  ( $\alpha$  is the thermal expansion coefficient and  $\beta$  is the haline contraction coefficient,  $\theta$  is potential temperature and  $S$  is salinity) may be used to identify the cold halocline base depth. This algorithm is used in **Figures 12, 13**. The depth of the 0°C isotherm defines the total halocline base depth; it is used in all other figures where the depth of the halocline base is required (**Figures 7, 8, 14, 15** and **Supplementary Figure 7**).”

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

## REFERENCES

Bourgain, P., and Gascard, J.-C. (2011). The Arctic Ocean halocline and its interannual variability from 1997 to 2008. *Deep Sea Res. I* 58, 745–756. doi: 10.1016/j.dsr.2011.05.001

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