Corrigendum to
“Reviews and syntheses: Revisiting the boron systematics of aragonite and their application to coral calcification” published in Biogeosciences, 15, 2819–2834, 2018

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During submission a wrong Supplement file was uploaded. In the original version of the supplemental script files (in R and MATLAB), there was an error in the application of a pressure correction to pK_B. The pressure correction was properly applied when calculating pH from δ^{11}B. However, the uncorrected pK_B was used for calculating [B(OH)_{4}^-], which in turn is used to calculate [CO_3^{2-}] and dissolved inorganic carbon (DIC). The updated script files now appropriately use the pressure-corrected pK_B for both pH and [B(OH)_{4}^-] calculations. We wish to thank Paolo Montagna for bringing this to our attention.

The effect of this error on calcifying fluid carbonate chemistry for shallow-water corals is negligible, but it becomes more important for deep-sea corals collected from hundreds or thousands of meters depth. The figure below shows how the updated calculations affect panel (f) of Fig. 8 from the original publication. Only the data from the deep-sea coral Desmophyllum dianthus (magenta circles) are perceptibly different. This does not change any of the conclusions in the published article, but future uses of the supplemental script files should use the updated version with the proper pressure correction, especially for applications to deep-sea corals.
Figure 8. Changes to Fig. 8f: (a) the original plot with the updated *D. dianthus* data plotted in semi-transparent magenta circles. (b) The updated plot with only the pressure-corrected data.

Figure 8. Correlations among coral calcifying fluid carbonate system parameters based on published boron systematics datasets: (a) B/Ca and $\delta^{11}$B, (b) pH$_{cf}$ and $\delta^{11}$B, (c) $[\text{CO}_3^{2-}]_{cf}$ and B/Ca, (d) pH and $[\text{CO}_3^{2-}]_{cf}$, (e) pH$_{cf}$ and DIC$_{cf}$, and (f) $[\text{CO}_3^{2-}]_{cf}$ and DIC$_{cf}$. Colors show different studies, and lines are plotted for significant ($p < 0.05$) correlations using all the data within each study. The grey area shows the convex hull of the parameter space covered in the abiogenic experiments of Holcomb et al. (2016). Calculations are performed using the Holcomb et al. (2016) $K_D$ formulation.