

## Author Correction: Frequent marine heatwaves hidden below the surface of the global ocean

Correction to: *Nature Geoscience* https://doi.org/10.1038/s41561-023-01325-w, published online 20 November 2023.

https://doi.org/10.1038/s41561-023-01359-0

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In the version of the article initially published, there were errors in Figs. 3a and 4a. In Fig. 3a, the range in the y-axis label has been changed from 200-100 to 200-0. In Fig. 4a, the range in the x-axis label has been changed from 1992-2004 to 1995-2020. The figures have been updated in the HTML and PDF versions of the article.

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## Author Correction: Hadean mantle oxidation inferred from melting of peridotite under lower-mantle conditions

Correction to: Nature Geoscience https://doi.org/ 10.1038/s41561-023-01169-4, published online 4 May 2023.

https://doi.org/10.1038/s41561-023-01363-4

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In the version of this article initially published, the amount of possibly formed Fe<sub>2</sub>O<sub>3</sub> via additional redox disproportionation of Fe<sup>2+</sup> during quenching in bridgmanite-enriched samples (run nos. OT2775 and OT2846) was incorrectly underestimated (i.e., 0.3-0.7 wt%), and we did not correct the Fe<sup>3+</sup>/ $\Sigma$ Fe ratios of these two samples because of small amounts of Fe<sub>2</sub>O<sub>3</sub> in comparison with the measured values of the samples (i.e., 4.26-5.02 wt%). The Fe<sub>2</sub>O<sub>3</sub> amounts possibly formed upon quenching were re-estimated from the mass fraction of tiny metal droplets (i.e., 0.2 wt% for OT2775 and 0.5 wt% for OT2846) to be 0.6 wt% for OT2775 and 1.4 wt% for OT2846 assuming the reaction of 3FeO  $\rightarrow$  Fe and Fe<sub>2</sub>O<sub>3</sub>. Accordingly, the revised Fe<sup>3+</sup>/ΣFe ratios of OT2775 and OT2846 are 0.378 and 0.351, respectively. Using these revised data, the required pressure derivative of bulk compressibility κ' of FeO<sub>1.5</sub> slightly changes from the original value of 1.4 to 1.5 to fit the experimental data. The change of κ' of FeO<sub>1.5</sub> slightly affects oxygen-fugacity profiles at high pressures above 20 GPa in Fig. 3. Fig. 2 and its caption and Fig. 3 have been updated. These corrections do not change the conclusion of the study and the authors apologize for any confusion for readers. It is noted that bright areas of back-scattered electron images identified as metal droplets may contain other minor phases, such as Ca-rich phase (i.e., former CaSiO<sub>3</sub> perovskite). If this is the case, the area fraction of metal droplets and amounts of  $Fe_2O_3$  possibly formed upon quenching are overestimated. Thus, the revised Fe<sup>3+</sup>/ΣFe ratios of OT2775 and OT2846 are likely lower bounds. Table 1 now contains both corrected data and measured original data of OT2775 and OT2846 for transparency.

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