Corrigendum to Earth Syst. Sci. Data, 18, 3211–3288, 2026
https://doi.org/10.5194/essd-18-3211-2026-corrigendum
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Corrigendum to "Global Carbon Budget 2025" published in Earth Syst. Sci. Data, 18, 3211–3288, 2026

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Published by Copernicus Publications.

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Published: 26 October 2026

During the peer-review process, we updated the number of data sets used for the ocean interior derived estimate of the ocean sink from four to three. This had an impact on the mean and spread of this estimate. The methods and text were updated; however, Table 6 had not been updated accordingly. In this correction, we update Table 6 to be in line with the published methods and results. The only change is on the ocean interior estimate of the ocean carbon sink. These changes do not affect any of the other results from the paper.

The updated version of Table 6 is shown on the next page.

Table 6. Comparison of results for the un-adjusted ocean sinks from the fCO_2-products, from global ocean biogeochemistry models (GOBMs), the best estimate for GCB2025 (adjusted S_{OCEAN}) calculated from fCO_2-products and GOBMs) and used in the budget Table 7, as well as additional estimates from ocean interior observation-based changes in the dissolved inorganic carbon (DIC) inventory, atmospheric oxygen, atmospheric inversions and Earth System Models (ESMs) for different periods, the last decade, and the last year available. All values are in GtC yr^{-1}. Uncertainties represent $\pm 1\sigma$ of the estimates from the GOBMs and inversions ($n > 10$) and range of ensemble members is given for ensembles with $n < 10$ (fCO_2-products, inversions, ocean interior, ESMs). The uncertainty of the GCB2025 budget estimate is based on expert judgement (Sect. 2 and Supplement Sects. S1 to S4) and for oxygen it is the standard deviation of a Monte Carlo ensemble (Sect. 2.8). Note that adjustments were applied to the fCO_2-products and two of the ocean interior estimates to match the definition of S_{OCEAN} (see Sects. 2.5.1 and S3.6).

Mean (GtC yr^{-1})								
Product	1960s	1970s	1980s	1990s	2000s	2010s	2015–2024	2024
GCB2025 Budget	1.3 ± 0.4	1.6 ± 0.4	2.1 ± 0.4	2.3 ± 0.4	2.6 ± 0.4	3.1 ± 0.4	3.2 ± 0.4	3.4 ± 0.4
fCO_2-products	–	–	–	2.3 [2,3]	2.5 [2.4, 2.9]	3.1 [2.9, 3.5]	3.3 [2.9, 3.9]	3.5 [2.8, 4.2]
GOBMs	1.1 ± 0.2	1.3 ± 0.2	1.8 ± 0.2	2 ± 0.2	2.2 ± 0.3	2.6 ± 0.3	2.7 ± 0.3	2.9 ± 0.3
Atmospheric O_2	–	–	–	2 ± 0.4	2.8 ± 0.4	3.4 ± 0.5	3.5 ± 0.5	–
Inversions	– [–, –]	– [–, –]	– [–, –]	2.4 [2.2, 2.5] (2)	2.3 [2.2, 2.4] (3)	2.9 [2.1, 3.1] (8)	3 ± 0.3 (14)	3 ± 0.4 (14)
Ocean interior	1.1 [–, –]	1.3 [–, –]	1.8 [–, –]	2.2 [2.1, 2.3]	2.4 [2.3, 2.5]	3 [2.7, 3.4]	–	–
ESMs	0.7 [0.1, 1.1]	1 [0.4, 1.4]	1.5 [0.7, 2]	1.7 [1.1, 2.1]	1.9 [1.5, 2.2]	2.4 [2, 2.7]	2.5 [2.2, 2.8]	2.6 [2.2–3.1]