



## Corrigendum to “Pathfinder v1.0.1: a Bayesian-inferred simple carbon–climate model to explore climate change scenarios” published in Geosci. Model Dev., 15, 8831–8868, 2022

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Incorrect values were inserted into Table 1 during proof-reading. Please find the corrected table below.

**Table 1.** Constrained variables in Pathfinder, with values before and after calibration. Variables are noted under their text notation, and Tables B1 and B2 provide the corresponding notation in code. The uncertainty corresponds to the  $1\sigma$  uncertainty range.

Variable	Period	Method	Prior	Posterior	Constraints	Unit
$E_{CO_2}$	2011–2020	Mean	$9.1 \pm 1.3$	$10.0 \pm 0.7$	$11.0 \pm 0.9$	$\text{PgC yr}^{-1}$
$\frac{dC}{dt}$	2011–2020	Mean	$2.41 \pm 0.06$	$2.40 \pm 0.01$	$2.40 \pm 0.01$	$\text{ppm yr}^{-1}$
$F_{\text{land}}$	1960–2020	Sum	$95 \pm 52$	$123 \pm 26$	$145 \pm 35$	PgC
$F_{\text{ocean}}$	1960–2020	Sum	$89 \pm 12$	$97 \pm 13$	$105 \pm 20$	PgC
$C_v$	1750	Mean	$407 \pm 54$	$407 \pm 37$	$450 \pm 50$	PgC
$C_s$	1750	Mean	$1181 \pm 735$	$1086 \pm 284$	$1088 \pm 249$	PgC
$F_{\text{NPP}}$	1998–2002	Mean	$60.0 \pm 7.9$	$59.5 \pm 3.9$	$55.0 \pm 5.0$	$\text{PgC yr}^{-1}$
$C$	2012–2021	Mean	$403.6 \pm 0.3$	$403.6 \pm 0.1$	$403.6 \pm 0.1$	ppm
$R_x$	2010–2019	Mean	$0.01 \pm 0.47$	$0.33 \pm 0.37$	$0.56 \pm 0.53$	$\text{W m}^{-2}$
$T$	2001–2020	Mean	$0.96 \pm 0.08$	$0.97 \pm 0.06$	$1.00 \pm 0.07$	K
$\frac{dT}{dt}$	2000–2019	Mean	$0.028 \pm 0.003$	$0.028 \pm 0.002$	$0.029 \pm 0.002$	$\text{K yr}^{-1}$
$\frac{dU_{\text{ohc}}}{dt}$	2006–2018	Mean	$0.56 \pm 0.10$	$0.62 \pm 0.09$	$0.72 \pm 0.17$	$\text{W m}^{-2}$
$\frac{dH_{\text{thx}}}{dt}$	2006–2018	Mean	$1.02 \pm 0.22$	$1.14 \pm 0.21$	$1.39 \pm 0.40$	$\text{mm yr}^{-1}$
$\frac{dH_{\text{glc}}}{dt}$	2006–2018	Mean	$0.63 \pm 0.24$	$0.62 \pm 0.04$	$0.62 \pm 0.03$	$\text{mm yr}^{-1}$
$\frac{dH_{\text{ais}}}{dt}$	2006–2018	Mean	$-0.02 \pm 0.23$	$0.30 \pm 0.10$	$0.37 \pm 0.08$	$\text{mm yr}^{-1}$
$\frac{dH_{\text{gis}}}{dt}$	2006–2018	Mean	$0.36 \pm 0.12$	$0.57 \pm 0.10$	$0.63 \pm 0.07$	$\text{mm yr}^{-1}$
$H_{\text{tot}}$	1901–1990	Difference	$72 \pm 17$	$83 \pm 10$	$89 \pm 32$	mm
$H_{\text{lia}}$	1750	Mean	$45 \pm 17$	$45 \pm 11$	$30 \pm 13$	mm
logit(ff)	1750	Mean	$1.69 \pm 0.38$	$1.47 \pm 0.28$	$1.38 \pm 0.37$	1