Erratum to: Decadal cycling within long-lived carbon pools revealed by dual isotopic analysis of mineral-associated soil organic matter

Sarah L. O'Brien · Julie D. Jastrow ·
Karis J. McFarlane · Thomas P. Guilderson ·
Miquel A. Gonzalez-Meler

Published online: 8 June 2012
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Erratum to: Biogeochemistry DOI 10.1007/s10533-011-9673-0

The authors regret errors arising from ambiguity in ^{14}C -based turnover time calculations. Corrected values are reported in a revised Table 5. These corrections necessitate the following modifications to the text.

In the last paragraph of the **Results**, hydrolysable silt and clay had turnover times that were generally <100 years (not <5 years), and the $\Delta^{14}\text{C}$ of brome

total silt should be -30‰ (not -33‰). The authors ask that readers disregard the section in the first paragraph of the **Conclusions** that states, 'Using our fractionation scheme and the ^{14}C -based turnover times, the hydrolysable fraction would be deemed "active". Given that about one quarter of the soil C was hydrolysable, these findings are inconsistent with a prevailing paradigm in some models that the active pool is relatively small (<10 %) and largely attributable to microbial biomass and readily decomposable microbial products (Di Tizio and Grego 2008; Parton et al. 1988). Furthermore, only the POM fraction would be considered to be an intermediate turnover pool in most soil C models.'

The online version of the original article can be found under doi:[10.1007/s10533-011-9673-0](https://doi.org/10.1007/s10533-011-9673-0).

S. L. O'Brien · M. A. Gonzalez-Meler
Department of Biological Sciences, University of Illinois
at Chicago, 845 West Taylor Street M/C 066,
Chicago, IL 60607, USA

S. L. O'Brien (✉)
Institute for Genomics and Systems Biology,
Argonne National Laboratory,
9700 South Cass Avenue, Argonne, IL
60439, USA
e-mail: sobrien@anl.gov

J. D. Jastrow
Biosciences Division, Argonne National Laboratory,
9700 South Cass Avenue, Argonne, IL 60439, USA

K. J. McFarlane · T. P. Guilderson
Center for Accelerator Mass Spectrometry,
Lawrence Livermore National Laboratory,
7000 East Avenue, Livermore, CA 94551, USA

Table 5 $\Delta^{14}\text{C}$ and ^{14}C -derived mean turnover times of mineral-associated soil organic matter pools in 1986 (brome) or 1989 (corn)

	$\Delta^{14}\text{C}$ (‰)		Turnover time (years)	
	Brome	Corn	Brome	Corn
Silt				
Total	-30 ± 15	-61	490 ± 100	700
Hydrolysable ^a	265 ± 127	67	40 ± 30	130
NH	-170 ± 74	-144	$1,830 \pm 840$	1,460
NH-O ^a	-143 ± 83	-121	$1,560 \pm 870$	1,220
NH-NO	-268 ± 37	-274	$3,090 \pm 590$	3,120
Clay				
Total	-73 ± 10	-79	790 ± 80	840
Hydrolysable ^a	151 ± 16	116	60 ± 10	80
NH	-156 ± 11	-182	$1,590 \pm 120$	1,890
NH-O ^a	-149 ± 10	-176	$1,520 \pm 110$	1,810
NH-NO	-210 ± 18	-225	$2,230 \pm 240$	2,410

Values for brome are means ($n = 3$, except for hydrolysable, NH, and NH-O silt where $n = 2$) $\pm$ SE. Values for corn represent a single measurement on a composite of three replicates

NH non-hydrolysable, NH-O non-hydrolysable, oxidizable, NH-NO non-hydrolysable, non-oxidizable

^a Determined by mass balance according to Jagadamma et al. (2010)