

egosphere-2025-2309

Title: How does integrating multi-scale monitoring and compound-specific isotope analysis improve the evaluation of S-metolachlor degradation in agro-ecosystems?

Comment:

In the original manuscript, the value was reported as $98\% \pm 20\%$ for an ϵ value of -1.2‰ , and it was erroneously retained as $98\% \pm 20\%$ following revision with an updated ϵ value of -1.8‰ .

We apologise for this oversight. The calculations and Figure 4 were updated using the revised ϵ value of -1.8‰ ; however, the corresponding text was not updated accordingly.

In the revised manuscript, Lines 20–21 have now been corrected to read: “*CSIA-based estimates of S-metolachlor degradation corroborated the mass balance results, indicating a degradation extent of $95 \pm 20\%$.*”

In addition, Line 468 has been amended to: “*In October, the degradation estimated using CSIA ($95 \pm 20\%$, $\pm SD$) was consistent with the overall biodegradation derived from the mass balance approach ($99 \pm 5\%$, $\pm SD$).*”

The associated uncertainty remains unchanged, as it is derived from the propagation of instrumental and experimental errors throughout the calculation and is therefore independent of the updated ϵ value.

Sylvain Payraudeau, on behalf of the co-authors

4 January 2026