

Dear Topical Editor,

Thank you for having reviewed our revised manuscript.

Please find bellow a point-by-point reply to your comments.

We hope this reply and the improvements proposed in the revised manuscript will clarify the questions that were raised.

Sincerely yours,

Rémy Ballot, on behalf of the authors

Comment: *In your response letter, you mentioned a code error related to temporary grassland, and you've appropriately adjusted the corresponding figures, tables, and text after resolving the issue. I would like to confirm if this error had any impact on the data product. If it did, please ensure that the data product has been corrected accordingly.*

Reply: We confirm that this error impacted the data product. A corrected version was uploaded on July 7. 2023.

Comment: *This manuscript well addresses data quality and potential uncertainties. Could you provide further insights into the implications for future data users, particularly concerning the underestimated importance of grassland crop sequences and the overestimated significance of other crop sequence types?*

Reply: We elaborate the implications of this misestimation lines 289-293 of the revised manuscript “As highlighted by previous research (e.g. Martin et al. 2020), crop sequences with temporary grasslands provide specific services such as carbon sequestration, biodiversity conservation or weed control. Future users of our dataset should therefore be aware that this underestimation of the importance of crop sequences with temporary grasslands may result in underestimating such services, as well as overestimating the production from other overestimated crops.”