

Dear Associate Editor,

On behalf of all coauthors, we have made the technical corrections indicated in your report:

Meltwater fraction is introduced prior to using the acronym (MWf).

We changed the reference for estimating diffusive flux from sediments.

When possible, figures do not use red and green colors, simultaneously. For example, Figure 4 was fixed.

We appreciate the handling of our manuscript through this process, and it has been our pleasure to work with you, the editorial team, and the referees.

Thank you,
Kiefer and co-authors