

1 **Author's response**

2 **1) Comment from the editor**

3 **Public justification (visible to the public if the article is accepted and published):**

4 I thank the referees for their constructive comments and the authors for their comprehensive responses. In line with the
5 referee reports, I believe the manuscript holds potential for publication, but requires clarification on several points. I
6 therefore invite the authors to submit a revised manuscript that incorporates the amendments outlined in their responses.

7 Kind regards,

8 Daniel Viviroli

10 Additional private note (visible to authors and reviewers only):

11 Regarding the supplementary tables:

13 I can imagine Supplementary Table S1 go to the main text as a standard table, even though it is at the edge of disrupting the
14 flow. Please go ahead with this option if the table fits onto a single page in the layout template. If it does not, presenting it as
15 an appendix would still keep it together with the manuscript. (Guidelines at <https://www.hydrology-and-earth-system-sciences.net/submission.html>)

17
18 For Supplementary Table S2 (which appears too extensive for inclusion in the main manuscript), please ensure it is provided
19 as a selectable (i.e., text-based) table rather than an image.

21 **2) Author's response**

22 Thank you for your report. Indeed, we have proceeded to the required changes.

23 Best regards, Bastien Charonnat

25 **3) Author's changes in the manuscript**

26 I modified the manuscript by integrating the modifications proposed in our replies to Referee 1 and 2.

27 I moved the Table S1 to the appendix (it is now called Table A1 in the manuscript) as it could not fit in one single page.

28 I made sure that the 2 tables (Table A1 in the appendix and Table S1 in Supplemental Material) are text-based.