

The authors thank the editor and reviewer for this very encouraging second review and look forward to the finalisation of the article.

The new version following minor revisions includes the catchment boundaries on all maps (including the ones in the appendix), which should indeed help the reader identify the geographical features mentioned in the text.

Adjustments were also made to the introduction as suggested, to make a clearer point on the relevance and novelties of this study compared to existing works.

The structure of the literature review remains similar : it first presents the importance of land-atmosphere interactions for climate and its modelling, before addressing more specifically surface soil moisture heterogeneities and the associated feedbacks, and focusing on irrigation through three paragraphs presenting state-of-the-art knowledge gained from observations, mesoscale modelling, and global climate modelling studies.

The final parts were slightly simplified and remodelled to avoid long lists of examples and leave room for a better explanation of how this work complements existing research on the impacts of irrigation on climate, and hint at the possibilities it opens for future work with the IPSL-CM.