

Interactive comment on “Technical note: Precipitation phase partitioning at landscape-to-regional scales” by Elissa Lynn et al.

Elissa Lynn et al.

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Dear Reviewer 2, We appreciate your insightful and constructive review of our manuscript. In the attached supplement, please find our responses to all of your major, minor, and specific comments. In particular, to address your major comment regarding the use of an older reanalysis (NCEP/NCAR; an issue also raised by Reviewer 1), we have performed additional analysis applying the method to the ERA-5 reanalysis to provide a comparison with the initial results generated using the NCEP-NCAR reanalysis (what the North American Freezing Level Tracker was built from in approximately 2008). We also re-worked the data and methods sections to more clearly describe the approach. We will be working on a schematic to visually demonstrate the approach, as we found this to be a great suggestion that many may find helpful.

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We have substantially revised our manuscript in accordance with addressing your comments and look forward to submitting our revisions to the journal. If any of the specific responses change during the revision process, we will post an update reply to review comments. On behalf of all authors, thank you for taking the time to review our manuscript.

Sincerely, Benjamin Hatchett

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2020-122/hess-2020-122-AC2-supplement.pdf>

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2020-122>, 2020.