Earth Syst. Sci. Data Discuss., author comment AC2
https://doi.org/10.5194/essd-2021-279-AC2, 2022
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Reply on RC1

Xiaona Chen et al.

Author comment on "A temporally consistent 8-day 0.05° gap-free snow cover extent dataset over the Northern Hemisphere from 1981–2019" by Xiaona Chen et al., Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2021-279-AC2, 2022

We accept all the constructive suggestions and comments from the Reviewer, which will be carefully considered in the revised manuscript.

According to these suggestions and comments, we will made following major changes in the revised manuscript:

- Produce an annual and monthly climatological analysis between CLASS SCE, GHCN and MOD10C2
- Add temporal bias between GLASS and MODIS SCE
- Add comparison between GLASS SCE and GHCN data, as well as between MOD10C2 and GHCN
- Add an additional data layer that indicates the source of the SCE estimate for each pixel
- Outline how JASMES and ESA CCI can fill gaps
- Remap figures

The above question will be carefully resolved in revised manuscript. These work may take 2-3 month, please wait our second response letter.

Thanks□

Chen on behalf of all co-authors