Hydrology and Earth System Sciences Discussions

Hydrol. Earth Syst. Sci. Discuss., referee comment RC2
https://doi.org/10.5194/hess-2022-179-RC2, 2022

Comment on hess-2022-179

Anonymous Referee #1

Referee comment on "Characterizing 4 decades of accelerated glacial mass loss in the west Nyainqentanglha Range of the Tibetan Plateau" by Shuhong Wang et al., Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2022-179-RC2, 2022

The revised manuscript of “Characterizing four decades of accelerated glacial mass loss in the West Nyainqentanglha Range of the Tibetan Plateau” investigated changes in glacier area, surface elevation and mass balance and associated influence factors in the WNT over the past 44 years based on multi-source datasets. The authors have addressed most of reviewer’s comments and suggestions and have added other materials to the revised manuscript and supplementary material. In particular, they evaluate the hydrological impacts of glacier changes on water resources downstream through investigating the contribution of glacier meltwater to runoff variation of the Lhasa River station for the period of 1976-2013 and the Yangbajain station during 1979-2013. Compared to previous version, the new manuscript becomes better and can be accepted for publication of this journal.