The Cryosphere Discussions

The Cryosphere Discuss., referee comment RC1
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Comment on tc-2021-352

Atle Nesje (Referee)

Referee comment on "Timing and climatic-driven mechanisms of glacier advances in Bhutanese Himalaya during the Little Ice Age" by Weilin Yang et al., The Cryosphere Discuss., https://doi.org/10.5194/tc-2021-352-RC1, 2021

Surface exposure dating with cosmogenic nuclides is inherited with relatively large age uncertainties (large standard deviations). Dating results using this technique must therefore be interpreted with care, especially when dating young LIA moraines that are relatively close in age. In ideal cases, this dating method should be supplemented with other techniques, such as lichenometry and AMS radiocarbon dating of organic material associated with the marginal moraines. The authors have, however, provided the necessary information about the surface exposure dates in the table of the dated samples.

The English must be checked by an English native person who knows this field of science.

Additional comments/suggestions are provided as sticky notes in the attached file.

Please also note the supplement to this comment:
https://tc.copernicus.org/preprints/tc-2021-352/tc-2021-352-RC1-supplement.pdf