Dear Dr. Radić,

We have considered your suggestion to correct Eq. 4 and we agree with you that the original formula was unclear. Following your suggestion, that section now reads:

…The uncertainty of the cumulative series modeled for ECH $(\varepsilon_{(T)})$ were calculated by propagating (adding) the individual errors estimated for each reconstructed value. That is

$$\varepsilon_{(T)} = \sqrt{\sum_{t=1}^{t=T} \varepsilon_{reco(t)}^{2}} \qquad (4)$$

For consistency, we have also changed slightly Eqs. 2 and 3 and put in brackets (instead of after commas) the subscripts t in these equations (see 280-302 of the revised version).

… The uncertainties in each reconstructed mass balance value in year t $(\varepsilon_{reco(t)})$ were calculated integrating the standard error of the regression estimate (se_{regr}) and the standard error of the mean annual streamflow values used as predictors in the model $(se_{mean(t)})$. This latter error is derived from the standard deviation of the regional record (σ) and increases as the number of contributing streamflow series (n) decreases back in time (see Table 3).

$$\varepsilon_{reco(t)} = \sqrt{se_{regr}^{2} + se_{mean(t)}^{2}} , \text{ with} \qquad (2)$$

$$se_{mean(t)} = \frac{\sigma}{\sqrt{n_{(t)}}} \qquad (3)$$

The rest of the manuscript remains unchanged.

We believe this new version now reads very well, and would like to thank you once again for your time and help with this manuscript.

Best wishes from Mendoza,

Mariano Masiokas
IANIGLA-CONICET