

Review of “Ice volume and basal topography estimation using geostatistical methods and GPR measurements: Application to the Tsanfleuron and Scex Rouge Glacier, Swiss Alps” revision by Neven et al.

The revision sufficiently addressed my comments. The hydrological methods description is more complete, and the discussion on ice sheet evolution implications is much stronger. I appreciate the description of how kriging cannot be used to estimate ice volume uncertainty - thank you for teaching me something!

Figure 9d: “Krigging” → “Kriging”

Line comments

On a minor note, shouldn't glaciers be plural, even if they are connected?

Title: “Tsanfleuron and Scex Rouge Glacier” → “Tsanfleuron and Scex Rouge Glaciers”

Line 11 and 398: “Scex Rouge and Tsanfleuron Glacier” → “Scex Rouge and Tsanfleuron Glaciers”

Line 115: “estimation of possible flow accumulation” → “estimation of hydrological flow accumulation”

Line 160: “this feature simulate” → “this feature simulates”

Line 177: “this option as the advantage” → “this option has the advantage”

Lines 289-291: “This method is used not to represent precisely the possible flow at the base of the glacier but to compare easily and rapidly the results of the application of ...”

The wording is a bit challenging. I recommend rewording it to something like this: “This method is not used to precisely represent hydrological flow at the base of the glacier. Rather, it is used to easily and rapidly compare the results of the application of...”

Line 292: “cells connectivity” → “cells' connectivity”

Line 419: “5.2 Ice volume of the Tsanfleuron Glacier”

Shouldn't this include Scex Rouge in the heading?

Line 497: “Kriging and SGS require to analyze...” → “Kriging and SGS require the analysis of...”

Line 513: “Training Image”

This is the only place where training image is capitalized. I recommend making it lower case for consistency.