

Interactive comment on “Water-balance and hydrology research in a mountainous permafrost watershed in upland streams of the Kolyma River, Russia: a database from the Kolyma Water-Balance Station, 1948–1997” by Olga Makarieva et al.

P. Restrepo

pr.engconsult@gmail.com

Received and published: 13 December 2017

This paper presents an excellent description of the Kolyma Water Balance Station and the observations that were collected at the station from 1947 to 1997. Given the location of the station and the sensitivity of continuous permafrost to climate warming, it would be a loss for science if this station is not restored to full operation. The authors make a good suggestion about the possibility of the station being available during

C1

part of the year for in-residence research from international scientists. But, even if that recommendation is not implemented due to the costs necessary to have suitable accommodations, I strongly recommend that funding for the station be re-established to allow the continuation of this priceless dataset.

Editorial comments/suggestions:

51: it would be good to have the geographic coordinates at the beginning.

163 and 164: Do you mean “. . . Osipiev AND the hydrologist-technician. . .”?

166: what does it mean partially? Only part-time?

170: what do you mean by rationalization of the network?

172: what are the sensors included in the water balance sites?

196: max and min temperature?

214: cliff? Do you mean slope? Cliff is almost vertical, too steep to have a station there.

223: What do you mean by “The angle of the horizon is 4 224 degrees”?

415: eliminate “could” from the sentence

425: “Considering the insufficient. . .”

Figures 5, 6 and 9 should have a source cited. Also, Figure 9 appears as Figure 7 in its caption.

Interactive comment on Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2017-125, 2017.

C2