

***Interactive comment on “Estimation of future
glaciation and runoff in the Tanimas basin,
Eastern Pamirs” by W. Hagg et al.***

W. Hagg et al.

hagg@lmu.de

Received and published: 23 February 2011

We thank the referee for the positive feedback and the numerous technical corrections which will clearly help to improve the manuscript.

We agree that the uncertainty introduced by the assumption that parameter values are valid in a future climate should be mentioned. It will be added to the conclusions of a revised version, together with the remark that scenario-based results are no predictions, but have to be regarded as estimates of possible changes.

The critical point in deglaciation, from which (annual) runoff begins to decrease, can only be determined by model applications in several future periods or by an iterative procedure. On a catchment scale, the timing additionally varies with size and

C149

current glaciation of the basin. These facts and the need for further studies will also be discussed in the conclusions.

Thank you for the close look at our submission!

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 1507, 2011.