

Interactive comment on “Mass balance, runoff and surges of the Bering Glacier, Alaska” by W. Tangborn

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Received and published: 13 February 2013

Response to Jay Fleisher review

Runoff is produced from ablation, precipitation as rain, and the release of water from englacial storage (which was not mentioned in the paper). As this reviewer has pointed out, there is significant water loss during jokulhlaups which is derived from englacial storage and is due to ablation that has occurred over several months prior to the flood event. Section 3 Bering Surges, Snow Accumulation and Runoff has been rewritten to reflect this comment in the revised paper.

The reference Fleisher et al (1995) has been added to the list of references and the text revised to show that restarting of rapid ice movement after the 1994 jokulhlaup was

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first described in Fleisher et al. (1995), and not in Molnia and Post (1995)

First appearance of PTAA includes (precipitation-temperature-area-altitude) P 3, 1 Introduction, last sentence of 1st paragraph added reference (personal correspondence, Austin Post (1995))

P 7, 4 Changed “files” to “fires” Last paragraph of 7, eliminate “for”

Interactive comment on The Cryosphere Discuss., 6, 5095, 2012.

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