

Interactive comment on "River ice flux and water velocities along a 600 km long reach of Lena River, Siberia, from satellite stereo" *by* A. Kääb et al.

Anonymous Referee #2

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In this manuscript, the authors present the extension of a method, already published by Kaab and Prowse (2011), by which flow velocity fields for rivers during ice breakup can be extracted from stereo pairs of optical satellite imagery. In this manuscript, they improve the accuracy of their original method and calculate and analyze surface velocity vectors for \sim 600 km of the Lena River in Siberia.

I suppose I could find a few things to quibble about here and there in this manuscript, but why bother? It is well-written and clear, it presents novel science, the methods are well-explained, errors are carefully considered, and the implications of the results are exciting for hydrology, geomorphology, etc. I have been reviewing papers for more than a decade and I have never recommended that a paper be published as-is, but I am doing so here (subject to the minor revisions suggested by the other reviewer). C4855

Excellent job.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 10, 9967, 2013.