

Interactive comment on “Multi-decadal marine and land-terminating glacier recession in the Ammassalik region, Southeast Greenland” by S. H. Mernild et al.

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Thanks to Pelto for his critique of this article. Below, one will see our answers to his comments.

533-11: Due to the references listed by Pelto, we will extend the discussion.

534-23: The text has been re-written.

537-14: The text has been re-written.

540-6-10: We will do necessary changes, and extend the discussion.

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Interactive Discussion

Discussion Paper



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Comment

544-13: Discussing observed AAR conditions for the Mittivakkat Gletscher was already done in Mernild et al (2011). We show based on AAR conditions that the glacier is significantly out of balance and will likely lose at least 70% of its current area and 80% of its volume even in the absence of further climate changes. We will add a comment to the manuscript about the future potential conditions of Mittivakkat Glacier.

Ref: Mernild, S. H., N. T. Knudsen, W. H. Lipscomb, J. C. Yde, J. K. Malmros, B. H. Jakobsen, and B. Hasholt 2011. Increasing mass loss from Greenland's Mittivakkat Gletscher. *The Cryosphere*, 5, 341–348, doi:10.5194/tc-5-341-2011.

Interactive comment on *The Cryosphere Discuss.*, 6, 531, 2012.

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