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Interactive comment on “Record mass loss from Greenland’s best-observed local glacier” by S. H. Mernild et al.

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In the attached file, new additional figures for the paper is shown. The figures are showing: - the topography of the glacier, stake network, and average ELA (annual variations in ELA is shown in a table), - the location of the glacier margin at the end of the Little Ice age, due to trimline observations from fieldwork, - Net balance with altitude 1995–2010.

Interactive comment on The Cryosphere Discuss., 5, 461, 2011.

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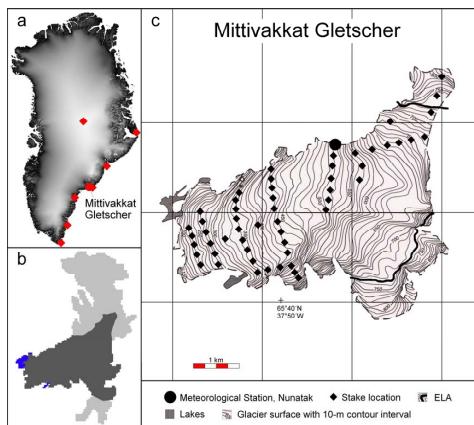
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Fig. 1 (a) Location of the Mittivakkat Gletscher (red circle) and coastal meteorological stations (red diamonds) in Southeast Greenland; (b) glacier outline where net balance has been observed (dark gray); and (c) topographic map (10-m contour interval), a black circle showing the location of the meteorological station at the nunatak on the glacier, black diamonds showing the stake locations for the glacier observation program (due to a high density of crevasses SE of glacier, no stakes were located), and a black line showing average ELA.

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Fig. 1. Fig. 1 (a) Location of the Mittivakkat Gletscher (red circle) and coastal meteorological stations (red diamonds) in Southeast Greenland; (b) glacier outline where net balance has been observed (dark g

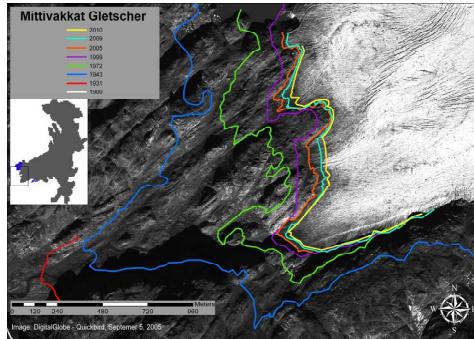
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Fig. 1 (d) The location of the Mittivakkat Glacier margin delineated as thick lines for 1900, 1931, 1943, 1972, 1999, 2005, 2009, and 2010. The 1900 Little Ice Age trimline was estimated from field observations, and the 1931, 1943, and 1972 margins were estimated from aerial photos, and the more recent margins were obtained from topographic surveys: Kern Theodolite and GPS-measurements. The Mittivakkat Glacier glacier outline with a black square indicating the photographic area (background photo: DigitalGlobe, Quickbird, 2005).

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Fig. 2. Fig. 1 (d) The location of the Mittivakkat Glacier margin delineated as thick lines for 1900, 1931, 1943, 1972, 1999, 2005, 2009, and 2010. The 1900 Little Ice Age ob

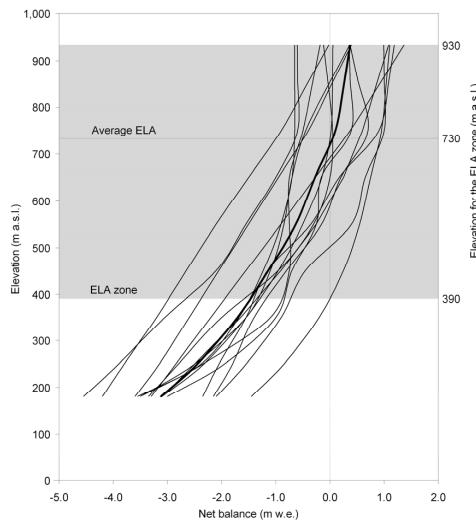
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Fig. 3 Net balance with altitude for the Mittivakkat Glacier 1995–2010. The bold line is average, and the different years are not labeled individually. The net balance data for Mittivakkat Glacier reported here are updated from Knudsen and Hasholt (2008).

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Fig. 3. Fig. 3 Net balance with altitude for the Mittivakkat Glacier 1995–2010. The bold line is average, and the different years are not labeled individually. The net balance data for Mittivakkat Glacier rep