

The altitude of the equilibrium line at Nordenskiöldbreen was estimated at 719 m a.s.l. (Van Pelt and others, [2012](#)). The study site is in the accumulation zone at 78.824°N, 17.432°E, 1200 m a.s.l. on a gently sloped dome. The local ice thickness derived from a GPR survey is 192 ± 5.1 m (R. Pettersson, unpublished data). Ice coring at the same site in 2009 showed a thickness of the firn layer of ~ 20 m (Wendl, [2014](#)). In accordance with the long-term warming