

Deglaciation of the southwestern Scandinavian Ice Sheet using ^{10}Be dating

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We present a number of ^{10}Be ages from glacial erratic boulders along the major fjord systems of Boknafjorden and Hardangerfjorden to constrain the dimension of the Scandinavian Ice Sheet in southwest Norway during deglaciation. The results complement our previous findings that the Norwegian Channel Ice Stream collapsed during as early as ~ 20 ka (Svendsen et al. 2015). A second pulse of deglaciation started at ~ 16 ka when the ice front retreated towards the head of Boknafjorden. Two younger glacier advances culminated during the Older and Younger Dryas cold spells (Briner et al. 2014). The ice sheet profiles during deglaciation seem to have been rather steep with typical gradients ~ 30 m/km.

References:

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