

**Table 1:** ACT-10 firn cores. Mean annual accumulation rates are given with one standard deviation for firn cores and for calibrated Polar MM5, representing the range of the annual values in each time series. Calibrated Polar MM5 and firn core mean accumulation rates have been calculated from the beginning of each firn core until 2008.

NAMES	Latitude	Longitude	Elevation (m)	Length (m)	Mean accumulation (m w. eq. $y^{-1}$ )		Time span (y)	Coefficient of variation
					Firn cores	Polar MM5		
ACT10-A	65°41'N	41°28'W	1825	47	$1.26 \pm 0.373$	$1.19 \pm 0.152$	1985 - 2010	0.29
ACT10-B	65°46'N	41°52'W	1999	49	$1.09 \pm 0.265$	$1.08 \pm 0.123$	1980 - 2010	0.24
ACT10-C	65°59'N	42°46'W	2354	49	$0.83 \pm 0.158$	$0.83 \pm 0.084$	1973 - 2010	0.19