

Table 1: Surface mass balance measurements (in m w.e.) along the K-transect at 67°N. Distances are presented in kilometres from the western ice margin. Values at S4 are recalculated to a height of 383 m. a.s.l. Bold values are outside the 2σ interval with respect to the 20 year mean (1990-2010) and standard deviation.

| | Site 4 | Site 5 | SHR | Site 6 | Site 7 | Site 8 | Site 9 | Site 10 |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 383 | 490 | 710 | 1010 | 1110 | 1260 | 1520 | 1850 |
| | (m a.s.l.) | (m a.s.l.) | (m a.s.l.) | (m a.s.l.) | (m a.s.l.) | (m a.s.l.) | (m a.s.l.) | (m a.s.l.) |
| | 3 km | 6 km | 14 km | 37 km | 52 km | 63 km | 91 km | 143 km |
| 1990-1991 | -4.23 | -3.64 | -3.20 | -2.77 | -1.75 | -1.47 | -0.26 | |
| 1991-1992 | -2.14 | -2.03 | -1.52 | -1.02 | -0.30 | 0.08 | 0.46 | |
| 1992-1993 | -3.05 | -3.04 | -2.71 | -1.54 | -1.60 | -0.14 | 0.23 | |
| 1993-1994 | -3.58 | -3.49 | -3.08 | -1.37 | -1.06 | -0.45 | 0.10 | |
| 1994-1995 | -4.41 | -4.00 | -3.52 | -1.70 | -1.78 | -1.09 | -0.05 | 0.01 |
| 1995-1996 | -4.04 | -2.87 | -1.95 | -0.93 | -0.47 | -0.03 | 0.40 | 0.49 |
| 1996-1997 | -4.40 | -3.87 | -3.30 | -2.84 | -1.64 | -0.88 | -0.02 | 0.27 |
| 1997-1998 | -4.08 | -4.08 | -3.22 | -1.59 | -1.57 | -0.97 | -0.01 | 0.29 |
| 1998-1999 | -4.55 | -3.77 | -3.35 | -1.46 | -1.30 | -0.86 | -0.17 | 0.06 |
| 1999-2000 | -4.17 | -3.31 | -2.70 | -1.26 | -1.05 | -0.51 | -0.06 | 0.26 |
| 2000-2001 | -4.58 | -3.66 | -3.16 | -1.03 | -0.98 | -0.49 | 0.16 | 0.57 |
| 2001-2002 | -4.23 | -3.29 | -2.95 | -1.30 | -1.55 | -0.93 | 0.17 | 0.29 |

| | | | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|------|
| 2002-2003 | -5.04 | -3.89 | -3.29 | -1.97 | -1.77 | -1.07 | -0.53 | 0.11 |
| 2003-2004 | -4.68 | -3.99 | -3.53 | -1.47 | -1.73 | -0.66 | 0.01 | 0.45 |
| 2004-2005 | -4.28 | -3.63 | -3.24 | -1.28 | -1.57 | -0.17 | 0.08 | 0.45 |
| 2005-2006 | -4.17 | -3.70 | -2.97 | -1.50 | -1.13 | -0.23 | 0.08 | 0.39 |
| 2006-2007 | -4.7 | -4.19 | -3.55 | -2.00 | -2.30 | -1.16 | -0.68 | 0.04 |
| 2007-2008 | -4.29 | -4.10 | -3.54 | -1.48 | -1.36 | -0.44 | 0.02 | 0.21 |
| 2008-2009 | -3.97 | -3.38 | -2.84 | -1.34 | -1.47 | -0.22 | 0.23 | 0.20 |
| 2009-2010 | -5.9 | -5.12 | -4.39 | -2.95 | -2.99 | -1.93 | -1.01 | 0.20 |
| Mean 90-10 | -4.22 | -3.65 | -3.10 | -1.58 | -1.45 | -0.64 | -0.03 | 0.27 |
| standard deviation | 0.76 | 0.63 | 0.62 | 0.54 | 0.60 | 0.50 | 0.36 | 0.17 |
| 2010-2011 | -3.81 | -4.23 | -3.21 | -2.08 | -1.59 | -1.89 | -0.84 | |