

Table 1. Site information and snow accumulation value.

Site name	Latitude (°)	Longitude (°)	Elevation (m)	Entire Record (kg m <sup>-2</sup> yr <sup>-1</sup> )	Tambora-present (kg m <sup>-2</sup> yr <sup>-1</sup> )	1960s-present (kg m <sup>-2</sup> yr <sup>-1</sup> )	Present (kg m <sup>-2</sup> yr <sup>-1</sup> )	References
SIPLE DOME	81.65	-149.00	620	120 (1890-1994)		118 (1922-91)		Kaspari et al., 2004
ITASE00-5	77.68	-124.00	1828	140 (1716-2000)		141 (1922-91)		Kaspari et al., 2004; Spike et al., 2004
ITASE99-1	80.62	-122.63	1350	139 (1724-1998)		146 (1922-91)		Kaspari et al., 2004
ITASE00-4	78.08	-120.08	1697	189 (1799-2000)		193 (1922-91)		Kaspari et al., 2004; Spike et al., 2004
RIDS A	78.73	-116.33	1740	235 (1831-1995)		234 (1922-91)		Kaspari et al., 2004
WDC05A	79.46	-112.13	1759	200±34 (1775-2005)				Banta et al., 2008
WDC05Q	79.47	-112.09	1759	204±35 (1521-2005)				Banta et al., 2008
ITASE00-1	79.38	-111.24	1791	220 (1653-2001)		222 (1922-91)		Kaspari et al., 2004
ITASE01-2	77.84	-102.91	1353	427 (1890-2001)		436 (1922-91)		Kaspari et al., 2004
ITASE01-3	78.12	-95.65	1633	325 (1859-2001)		331 (1922-91)		Kaspari et al., 2004
ITASE1-5	77.06	-89.14	1246	388 (1780-2001)		342 (1922-91)		Kaspari et al., 2004
GOMEZ	73.59	-70.36	1400	720 (1855-2006)	655 (1855-1970s)	925 (1970s-2006)		Thomas et al., 2008
DRYER PLATEAU	70.67	-64.89	2002	440 (1500-1989)	460 ie*	540 ie*		Thompson et al., 1994; Raymond, 1996
JAMES ROSS ISLAND	64.22	-57.68	1640		443 (1847-1980)	578 (1964-1990)		Aristarain et al., 2004
BERKNER B25	79.57	-45.72	890	130±40 (1080-1994)	131 (1815-1965)	141 (1965-1994)		Ruth et al., 2004
CV	76	-8.05	2400	60 (1452-1997)	62 (1816-1997)	68±2 (1965-1997)	70 (1992-	Karlof et al., 2000

							1997)	
<b>B31 (locality DML07)</b>	75.58	-3.43	2669	63 (1259-1997)	58.4 (1816-1997)	59.8 (1960-1996)		Sommer et. Al. 2000; Oerter et al., 2000
<b>NUS08-2</b>	87.85	-1.80	2583	67.4±2.6 (1815-2007/8)	67.4±2.6 (1815-2007/8)	63.4±4.2 (1963-2007/8)		Anschutz et al., 2011
<b>SOUTH POLE</b>	90.00	0.00	2850	78.0±2.2 (1801-1991)	76.5 (1816-1956)	84.8±3.3 (1965-1994)	84.5±8.9 (1992- 1997	Mosley-Thompson, 1999; van der Veen et al., 1999a; Kaspari et al., 2004
<b>B32 (locality DML05)</b>	75.00	0.01	2882	60.9 (1259-1997)	63 (1816-1997)	80 (1966-1997)		Sommer et. al., 2000; Oerter et al., 2000
<b>AMUNDSENISEN</b>	75.00	2.00	2900	77 (1865-1991)	78 (1865-1965)	76 (1966-1991)		Isaksson et al., 1996
<b>S100</b>	70.23	4.80	48	290±90 (1737-2000)	292 (1816-2000)	284 (1956-2000)	260±80 (1991- 2000)	Kaczmarska et al., 2004
<b>B33 (locality DML17)</b>	75.16	6.50	3160	44.4 (1259-1997)	45.9 (1816-1997)	55 (1966-1989)		Sommer et. al., 2000; Oerter et al., 2000
<b>NUS07-1</b>	74.72	7.98	3174	52±2 (1815-2007/8)	52±2 (1815-2007/8)	55.9±3.9 (1963-2007/08)		Anschutz et al., 2009; 2011
<b>SITE I</b>	73.72	7.98	3174		52.0±1.3 (1816-2007)	56.0±4.7 (1963-2007)		Anschutz et al., 2009
<b>NUS08-6</b>	81.70	8.57	2447	39.2±1.5 (1815-2007/8)	39.2±1.5 (1815-2007/8)	49.2±3.4 (1963-2007/8)		Anschutz et al., 2011
<b>M150</b>	74.99	15.00	3470	43	43 (1816)	45±4 (1965-1996)		Isaksoon et al., 1999
<b>M, MA, MB, MC, MD</b>	75.00	15.00	3470		41.0±0.7 (1816-1884)	41.0±0.5 (1955-2000)		Karlof et al., 2005
<b>NUS08-5</b>	82.63	17.87	2544	35.5±0.8 (1259-2007/8)	35.0±0.8 (1815-2007/8)	37.6±2.3 (1963-2007/8)		Anschutz et al., 2011
<b>NUS08-4</b>	82.82	18.90	2552	37.2±1.3 (1622-2007/8)	36.7±0.9 (1815-2007/8)	36.1±2.1 (1963-2007/8)		Anschutz et al., 2011
<b>NUS08-3</b>	84.13	22.00	2625	38.8±1.4 (1641-2007/8)	40.1±1 (1815-2007/8)	45.3±3.1 (1963-2007/8)		Anschutz et al., 2011
<b>NUS07-2</b>	76.07	22.47	3582	33.3±1.2 (1259-2007/8)	33.0±0.7 (1815-2007/8)	28±2 (1963-2007/8)		Anschutz et al. 2011

<b>MP</b>	-75.89	25.83	3661		33.1±1.0 (1286-2008)	38.7±0.9 (1964-2008)		Fujita et al., 2011
<b>NUU07-3</b>	77.00	26.01	3589	27.8±1 (1600-2007/8)	22.0±0.5 (1815-2007/8)	23.7±1.7 (1963-2007/8)		Anschutz et al., 2009; 2011
<b>NUS07-4</b>	78.22	32.85	3595	20.9±0.8 (1622-2007/8)	19.0±0.5 (1815-2007/8)	17.5±1.2 (1963-2007/8)		Anschutz et al., 2009; 2011
<b>NUS07-5</b>	78.65	35.63	3619	26.0±0.9 (1259-2007/8)	24±0.5 (1815-2007/8)	20.1±1.4 (1963-2007/8)		Anschutz et al., 2011
<b>DOVE FUJI</b>	77.32	39.70	3810	25.5±0.3 (1260-2001)	26.3 (1816-2001)	28.8±0.7 (1964-2008)	27.3±0.3 (1995-2006)	Kameda et al., 2008; Fujita et al., 2011 Igarashi et al., 2011
<b>YM85</b>	71.58	40.63	2246	97 (1260-2002)	140 (1816-2002)	135 (1965-2002)		Takahashi et al., 2009
<b>H 72</b>	69.20	41.08	1214	311 (1831-1998)	311 (1831-1998)	307	307 (1973-1998)	Nishio et al., 2002;
<b>PR-B (PLATEAU REMOTE)</b>	84.00	43.00	3330	37.7 (1816-1986)	37.5 (1816-1986)	37 (1986-1968)		Cole-Dai et al. 2000
<b>NUS07-6</b>	80.78	44.85	3672	21.1±0.7 (1600-2007/8)	16.0±0.4 (1815-2007/8)			Anschutz et al. 2009; 2011
<b>G15</b>	71.20	45.98	2544	130 (1210-1984)	86 (1816-1964)	116 (1964-1984)		Moore et al., 1991
<b>NUS07-8</b>	84.18	53.53	3452	32.0±1.2 (1815-2007/8)	32.0±1.2 (1815-2007/8)	30±2.1 (1963-2007/8)		Anschutz et al. 2009; 2011
<b>NUS07-8</b>	84.18	53.53	3452		32±1.2 (1816-2007)	30±2.1 (1963-2007)		Anschutz et al., 2009
<b>NUS07-7</b>	82.07	54.55	3725	29.5±1 (1259-2007/8)	29.4±0.6 (1815-2007/8)	26.1±1.9 (1963-2007/8)		Anschutz et al., 2011
<b>DT401</b>	79.02	77.00	3760	29 (1999-186)	19 (1999-1816)	24 (1999-1963)	25±16 (1999-2005)	Ren et al., 2010; Ding et al., 2011
<b>DT001-LGB65</b>	71.85	77.92	2325	127 (1745-1996)	131 (1810-1959)	131 (1959-1996)		Xiao et al., 2004
<b>VOSTOK</b>	78.45	106.83	3488		20.6±0.3 (1816-present)	21.5±0.5 (1955-present)	20.8 (1958-2010)	Ekaykin et al., 2004 <a href="http://south.aari.nw.ru/stations/vostok/vostok_en.html">http://south.aari.nw.ru/stations/vostok/vostok_en.html</a>

<b>LAW DOME</b>	66.77	112.98	1370	680	687 (1966-1816)	742 (1966-2005)		Morgan et al., 1991 Van Ommen, 2010
<b>DOME C</b>	75.12	123.31	3233	<25 (1259-1998)	25.3 (1816-1998)	28.3 (1965-1998)	28 (2004-2011)	Urbini et al., 2008; Frezzotti et al., 2005; Castellano et al., 2005; <a href="http://www-igge.ujf-grenoble.fr/ServiceObs/SiteWebAntarc/dc.html">http://www-igge.ujf-grenoble.fr/ServiceObs/SiteWebAntarc/dc.html</a>
<b>D6 A</b>	75.44	129.81	3027		36.0±1.8 (1816-1998)	29.0±1.4 (1966-1998)	39 (1998-2002)	Frezzotti et al., 2005
<b>D66</b>	68.94	136.94	2333		196 (1966-1864)	213±13 (1965-2001)	197 (2001-03)	Magand et al., 2004; This paper
<b>D2 A</b>	75.62	140.63	2479		20.0±1.0 (1816-1998)	31.0±1.6 (1966-1998)	30 (1998-2002)	Frezzotti et al., 2005
<b>GV1</b>	70.87	141.38	2244		114 (1816-2001)	117 ± 7 (1965-2001)	96 (2001-03)	Magand et al., 2004; This paper
<b>GV2</b>	71.71	145.26	2143		112 (1816-2001)	112 ± 7 (1965-2001)	92 (2001-03)	Magand et al., 2004; This paper
<b>MDPT A</b>	75.53	145.86	2454		36.0±1.8 (1816-1998)	45.0±2.7 (1966-1998)	47 (1998-2010)	Frezzotti et al., 2005; This paper
<b>GV3</b>	72.63	150.17	2137		81 (1816-2001)	84 ± 5 (1965-2001)	73 (2001-03)	Magand et al., 2004; This paper
<b>M2 A</b>	74.80	151.27	2278		17.0±0.8 (1816-1998)	15.0±7.5 (1966-1998)	8.5 (1998-02)	Frezzotti et al., 2005
<b>GV4</b>	72.39	154.48	2126		119 (1816-2001)	100±6 (1965-2001)	96 (2001-03)	Magand et al., 2004; This paper
<b>31DPT A</b>	74.03	155.96	2069		98.0±4.9 (1816-1998)	112.0±5.6 (1966-1998)	98 (1998-2002)	Frezzotti et al., 2005;
<b>GPS2A</b>	74.64	157.502	1804	102 (1745-1998)	60.0±3.0 (1816-1998)	54.0±2.7 (1966-1998)	55 (1993-2000)	Frezzotti et al., 2005
<b>GV5</b>	71.89	158.54	2184		129 (1816-2001)	129±7 (1965-2001)	135 (2001-2004)	Magand et al., 2004; Frezzotti et al., 2007
<b>GV7</b>	70.68	158.86	1947		237 (1854-2001)	241±13 (1965-2001)	252 (2001-2004)	Magand et al., 2004; Frezzotti et al., 2007
<b>TALOS DOME</b>	72.77	159.08	2316	80 (1259-1996)	83.6 (1816-2001)	86.6 (1966-1996)	68 (2001-	Magand et al., 2004; Frezzotti et al., 2007, this paper

							2010)	
<b>HERCULES NEVE</b>	73.10	165.40	2960	119 (1770-1992)	118 (1816-1966)	129 (1966-1992)		Stenni et al., 1999

\*ie= ice equivalent