

Correction to “Volcanic forcing of climate over the past 1500 years: An improved ice core-based index for climate models”

Chaochao Gao, Alan Robock, and Caspar Ammann

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[1] In the paper “Volcanic forcing of climate over the past 1500 years: An improved ice core-based index for climate models” by C. Gao et al. (*Journal of Geophysical Research*, 113, D23111, doi:10.1029/2008JD010239, 2008) an erroneous

longitude was given in one of the ice cores – DML_B33 – in Table 1 as well as Figure 1. The correct coordinates should be “75.2°S, 6.5°E” instead of “75.2°S, 6.5°W.” The corrected Figure 1 and Table 1 are below.

Table 1. Ice Core Time Series Used in the Study^a

Name	Location	Period	Resolution	Measure Type	Units	Reference
A84 ^b	80.7°N, 73.1°W	1223–1961	1/a	ECM	μA	Fisher et al. [1995]
A77 ^b	80.7°N, 73.1°W	453–1853	1/a	ECM	μA	Fisher et al. [1995]
NGT_B20	79°N, 36.5°W	830–1993	12/a	CFA	ng/g (ppb)	Bigler et al. [2002]
NorthGRIP1.ECM	75.1°N, 42.3°W	190–1969	2/a	ECM		Gao et al. [2006]
NorthGRIP1.SO ₄	75.1°N, 42.3°W	190–1969	1/a	total SO ₄	μequiv/kg	Gao et al. [2006]
GISP2 ^b	72.6°N, 38.5°W	1–1984	0.5/a	NSS SO ₄	ppb	Zielinski [1995]
Dye3 deep	72.6°N, 37.6°W	1–1768	4/a	ECM		Gao et al. [2006]
Greenland Site T	72.6°N, 38.5°W	1731–1989	1/a	EXS	kg/km ²	Mosley-Thompson et al. [1993]
GRIP main	71.3°N, 26.7°W	1–1642	4/a	ECM		Gao et al. [2006]
Crête	71.1°N, 37.3°W	553–1778	4/a	ECM		Gao et al. [2006]
Greenland Site A	70.8°N, 36°W	1715–1985	1/a	EXS	kg/km ²	Mosley-Thompson et al. [1993]
Renland	70.6°N, 35.8°W	1000–1984	1/a	ECM		Gao et al. [2006]
20D ^b	65°N, 45°W	1767–1983	1/a	NSS SO ₄	ng/g	Mayewski et al. [1990]
Mt. Logan ^b	60.6°N, 141°W	1689–1979	1/a	total SO ₄	μequiv/L	Mayewski et al. [1993]
Law Dome	66.7°S 112.8°E	1301–1995	12/a	NSS SO ₄	μequiv/L	Palmer et al. [2002]
Dyer	70.7°S, 65°W	1505–1989	1/a	total SO ₄ flux	kg/km ²	Cole-Dai et al. [1997]
G15 ^b	71.2°S, 46°E	1210–1983	varies	DEP	μS/m	Moore et al. [1991]
Talos Dome	72.8°S, 159.1°E	1217–1996	varies	NSS SO ₄	μequiv/L	Stenni et al. [2002]
Herculese Névé	73.1°S, 165.5°E	1774–1992	1/a	NSS SO ₄	μequiv/L	Stenni et al. [2002]
Dome C ^b	74.7°S, 124.2°E	1763–1973	1/a	NSS SO ₄	μequiv./L	Legrand and Delmas [1987]
DML_B32.SO ₄	75°S, 0°W	159–1997	varies	NSS SO ₄	ng/g	Traufetter et al. [2004]
DML_B32.ECM	75°S, 0°W	159–1997	12/a	NSS-conductivity	μS/cm	Sommer et al. [2000a]
DML_B33	75.2°S, 6.5°E	1–1996	12/a	NSS-conductivity	μS/cm	Sommer et al. [2000a]
DML_B31	75.6°S, 3.5°W	463–1994	12/a	NSS-conductivity	μS/cm	Sommer et al. [2000a]
Siple Station	76°S, 84.3°W	1417–1983	1/a	Total SO ₄ flux	kg/km ²	Cole-Dai et al. [1997]
ITASE 01–5	77°S, 89°W	1781–2002	varies	SO ₄	μg/L	Dixon et al. [2004]
ITASE 00–5	77.7°S, 124°W	1708–2001	varies	SO ₄	μg/L	Dixon et al. [2004]
ITASE 00–4	78°S, 120°W	1799–2001	varies	SO ₄	μg/L	Dixon et al. [2004]
ITASE 01–3	78.1°S, 95.6°W	1859–2002	varies	SO ₄	μg/L	Dixon et al. [2004]
ITASE 00–1	79.4°S, 111°W	1651–2001	varies	SO ₄	μg/L	Dixon et al. [2004]
ITASE 99–1	80.6°S, 122.6°W	1713–2000	varies	SO ₄	μg/L	Dixon et al. [2004]
Plateau Remote ^b	84°S, 43°E	1–1986	1/a	SO ₄	ppb	Cole-Dai et al. [2000]
PS1 ^b	90°S	1010–1984	1/a	NSS SO ₄	ng/g	Delmas et al. [1992]
PS14 ^b	90°S	1800–1984	1/a	NSS SO ₄	ng/g	Delmas et al. [1992]
SP2001c1	90°S	905–1999	1/a	Total SO ₄ flux	kg/km ²	Budner and Cole-Dai [2003]
SP95	90°S	1487–1992	varies	SO ₄	μg/L	Dixon et al. [2004]

^aECM, electrical conductivity measurement; DEP, dielectric profiling; NSS SO₄, non-sea-salt sulfate; CFA, continuous flow analysis; NSS-conductivity, non-sea-salt conductivity; EXS, excess sulfate.

^bUsed by Robock and Free [1995].

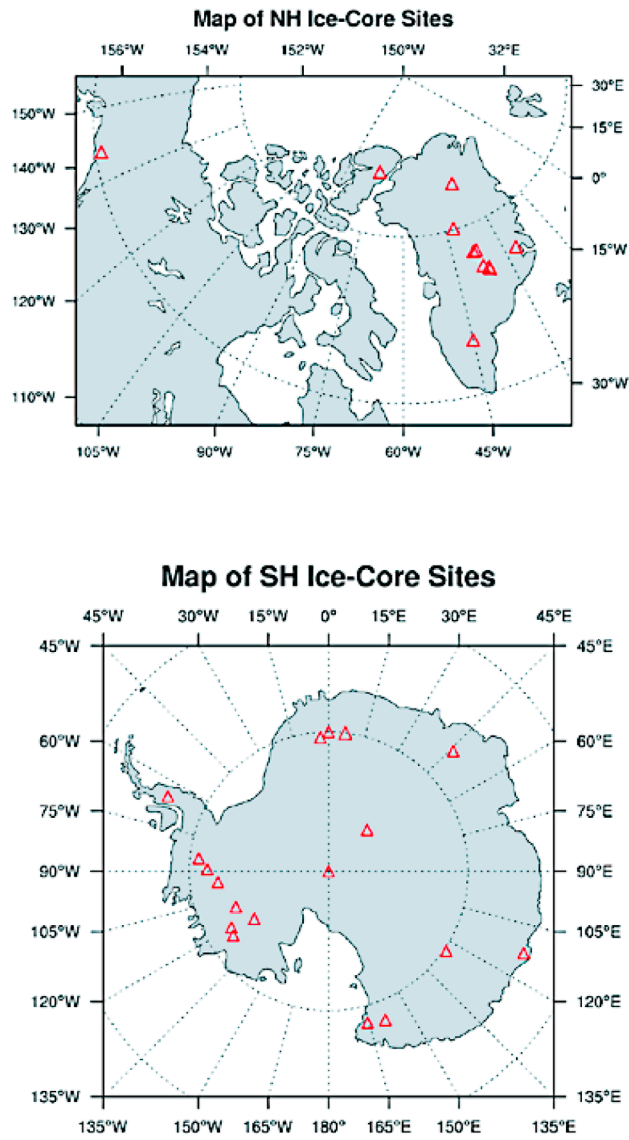


Figure 1. Distribution of ice core sites in the Arctic and Antarctic. See Table 1 for details about each time series.