

Table 1. Summary of PARCA Cores Drilled Between 1995 and 1998^a

Core Name	Year Drilled	LAT., °N	LONG., °W	ELEV., masl	Depth, m	Oldest Year, A.D.	Accumulation Average $\pm \sigma$ Entire Record	Accumulation Average $\pm \sigma$ 1979-1994
NASA-U-1	1995	73.842	49.498	2369	151.24	1645	0.344 \pm .089	0.315 \pm .073
NASA-U-2	1995	73.842	49.498	2369	20.85	1965	0.330 \pm .073	0.318 \pm .074
NASA-U-3	1995	73.842	49.498	2369	20.46	1965	0.324 \pm .087 ^b	0.306 \pm .095 ^b
Humboldt-M	1995	78.527	56.830	1995	146.50	1153	0.141 \pm .040	0.154 \pm .041
Humboldt-N	1995	78.751	56.830	1905	21.00	1927	0.146 \pm .041	0.132 \pm .039
Humboldt-E	1995	78.598	55.699	2045	20.50	1929	0.147 \pm .039	0.145 \pm .030
Humboldt-S	1995	78.315	56.826	2058	20.70	1924	0.139 \pm .041	0.131 \pm .026
Humboldt-W	1995	78.452	57.958	1924	20.60	1924	0.139 \pm .042	0.130 \pm .042
GITS-Core 1	1996	77.143	61.095	1887	21.80	1965	0.344 \pm .065	0.326 \pm .070
GITS Core 2	1996	77.143	61.095	1887	120.50	1745	0.365 \pm .101	0.327 \pm .085
Tunu-1	1996	78.017	33.994	2113	69.00	UD	UD	UD
Tunu-2	1996	78.017	33.994	2113	19.00	UD	UD	UD
Tunu-N25	1996	78.330	33.888	~2050	14.94	~1925	~0.090 ^c	0.085 ^d 0.072 ^e
Tunu-E25	1996	78.000	32.927	~1990	11.87	NAS	NAS	0.111 ^d 0.085 ^e
Tunu-W25	1996	78.030	35.064	~2460	14.97	~1918	~0.082 ^c	0.077 ^d 0.064 ^e
Tunu-N50	1996	78.464	33.841	~2050	15.01	~1933	~0.105 ^c	0.108 ^d 0.104 ^e
Tunu-E50	1996	77.978	31.863	~2090	15.01	~1919	~0.085 ^c	0.084 ^d 0.081 ^e
Tunu-W50	1996	78.039	36.136	~2060	15.05	~1936	~0.110 ^c	0.118 ^d 0.084 ^e
Tunu-S7.5	1996	77.959	34.013	~2470	14.97	1942 ^f	~0.119	0.138 0.132 ^d 0.092 ^e
South Dome-1	1997	63.149	44.817	2850	24.57	1978	0.668 \pm .125	0.665 \pm .132
South Dome-2	1997	63.149	44.817	2850	15.30	1986	0.682 \pm .141	NA
North Dye 3-1 ^g	1997	66.000	44.501	2460	18.66	1976	0.452 \pm .096	0.449 \pm .102
North Dye 3-1 ^g	1997	66.000	44.501	2460	17.29	1978	0.453 \pm .104	0.458 \pm .105
Tunu South-1	1997	69.5	34.5	2650	20.56	1975 ^f	0.460 \pm .116	0.452 \pm .124
Tunu South-2	1997	69.5	34.5	2650	10.23	1987 ^f	0.446 \pm .109	NA
Tunu South-3	1997	69.5	34.5	2650	10.27	1987 ^f	0.439 \pm .113	NA
NASA East-1	1997	75.0	30.0	2631	20.19	1931	0.148 \pm .048	0.148 \pm .050
NASA East-2	1997	75.0	30.0	2631	10.81	1968	0.153 \pm .048	0.153 \pm .040
7147	1997	71.05	47.230	2134	19.86	1974	0.431 \pm .088	0.414 \pm .091
7247	1997	71.926	47.487	2277	20.02	1974 ^f	0.430 \pm .093	0.415 \pm .102
7551	1997	75.0	51.0	~2200	21.12	1965	0.325 \pm .090	0.300 \pm .085
7653-1	1997	76.0	53.0	~2200	14.93	1978 ^f	0.349 \pm .088	0.337 \pm .086
7653-2	1997	76.0	53.0	~2200	4.98	1993	0.398 \pm .059	NA
6945-1	1998	69.0	45.0	~2150	18.56	1977	0.424 \pm .122	0.420 \pm .122
6943	1998	69.2	43.0	~2500	17.85	1976 ^f	0.388 \pm .083	0.384 \pm .081
6941	1998	69.4	41.0	~2765	11.71	1985	0.400 \pm .095	NA
6939	1998	69.6	39.0	~2955	12.25	1982	0.338 \pm .092	NA
6841	1998	68.0	41.0	~2640	12.03	1987	0.491 \pm .146	NA
6745	1998	67.5	45.0	~2250	12.06	1984	0.379 \pm .078	NA
6839	1998	68.5	39.5	~2790	11.89	1985	0.395 \pm .145	NA
6938	1998	69.0	38.0	~2920	12.20	1983	0.361 \pm .072	NA
6642-2	1998	66.5	42.5	~2380	20.53	1982	0.646 \pm .157	NA
6345	1998	63.8	45.0	~2730	14.82	1977	0.332 \pm .058	0.335 \pm .059
6348 ^h	1998	63.8	48.0	~1960	15.02	NASM	NASM	NASM

7249	1998	72.2	49.4	~2170	15.25	1991	0.974±.315	NA
7347	1998	73.6	47.2	~2600	12.24	1980	0.294±.082	NA
7345	1998	73.0	45.0	~2815	14.60	1975	0.284±.069	0.274±.078
7145	1998	71.5	45.0	~2615	12.01	1986	0.457±.106	NA
7245	1998	72.25	45.0	~2770	12.11	1984	0.378±.067	NA

^aLayer thicknesses (meters of water equivalent) are calculated from successive winter dust minima unless indicated otherwise in the text, masl is meters above sea level. Data from the year of drilling are eliminated from all averages as that year is incomplete. The five Humboldt cores were corrected for thinning using a strain of 0.0001 year⁻¹ and the two GITS cores were corrected for thinning using a strain of 0.00034 year⁻¹ [Dansgaard and Johnsen, 1969]. The three NASA-U cores were corrected for thinning using a strain of 0.0002 year⁻¹ [Anklin *et al.*, 1998]. The Not included are two short (< 5 m) duplicate cores, two Dye 2 cores (not complete), and the Crawford Point core that was not datable. Abbreviations are as follows: LAT. means latitude, LONG. means longitude, ELEV. means elevation, NAS means it is undetermined as the annual signal is not preserved because of glaciological noise, NASM means it is undetermined as the annual signal is not preserved because of melting, NA means it is not applicable as the record did not extend back to 1979, UD means yet to be determined because the dating is imprecise and other time-stratigraphic data (e.g., volcanic events) will be needed.

^bThe initial year in this core is 1993.

^cThis is the best estimate of accumulation with no estimate of dating precision.

^dThe average value for 1963-1996 is based on the 1963 beta radioactivity horizon. The drilling year, 1996, is not a complete year.

^eThe average value for 1952-1962 is based on the beta radioactivity horizons, 1952 and 1963.

^fDating error is estimated to be ±1 year.

^gSite formerly called Saddle.

^hCore 6348 drilled in 1998 was not datable due to excessive melt.