Glaciological Data Collected by the 38th Japanese Antarctic Research Expedition during 1997-1998

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1. Outline of field observations during 1997 – 1998

A five-year glaciological program, the deep ice coring project at Dome Fuji, Antarctica, was started in 1992. Dome Fuji station is located on the second highest dome in East Antarctica (77°19'01"S, 39°42'12"E, 3,810 m a.s.l.). In 1991 and 1992, the 32nd and 33rd Japanese Antarctic Research Expeditions (JARE-32 and JARE-33) extended new routes from Mizuho Station to Dome Fuji about 1,000 km inland from Syowa Station (FUJII, 1992; KAMIYAMA *et al.*, 1994). In 1993-94, three oversnow traverses were carried out by JARE-34 (MOTOYAMA *et al.*, 1995a). Shallow ice coring 112 m deep and casing of the borehole at Dome Fuji were carried out from December 1993 to January 1994 by JARE-34 (MOTOYAMA *et al.*, 1995b). In 1994-95, four oversnow traverses were performed by JARE-35 (SHIRAIWA *et al.*, 1996). JARE-35 constructed the buildings of Dome Fuji Station in the 1994-95 season (SHOJI *et al.*, 1996). In 1995-96, the wintering-over party of JARE-36 first carried out deep ice coring at Dome Fuji Station. Glaciological and meteorological observations were also carried out during that period both at the station and along the 1,000 km long traverse route between Syowa Station and Dome Fuji Station (AZUMA *et al.*, 1997). In 1996-97, JARE-37 carried out the second wintering for deep ice coring to 2503 m depth at Dome Fuji Station. The observations started by JARE-36 were basically continued. In addition, radar sounding of the ice sheet was done during oversnow traverses and at Dome Fuji Station (FUJITA *et al.*, 1998)

In 1997-1998, the wintering-over party of JARE-38 carried out mainly glaciological and meteorological observations. Oversnow traverses carried out in this period are listed in Table 1-1. Table 1-2 shows the glaciological and meteorological observations conducted on the oversnow traverses. The participants and their assignments in the JARE-38 program are listed in Table 1-3. Glaciological observations at Dome Fuji Station are summarized in Table 1-4.

We would like to express our sincere thanks to all members of JARE-38 who extended generous and long term support in the field work.

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Table 1-1. Oversnow traverses carried out by JARE-38 from December 1996 to February 1998

Traverse No	Period from	to	Traverse Route from	through	to	Distance (km)	Participants	Oversnow Vehicle
1-a	29 Dec. 1996	2 Jan 1997	S16		Mizuho	270	13	SM50(4), SM100(3)
-b	2 Jan. 1997	6 Jan 1997	Mizuho		Dome F	730	5	SM100(2)
-c	2 Jan 1997	16 Jan 1997	Mizuho		Dome F	730	11	SM50(4), SM100(2)
-d	25 Jan. 1997	8 Feb 1997	Dome F		S16	1,000	8	SM50(3), SM100(3)
2-a	15 Sep 1997	20 Sep. 1997	Syowa		Mizuho	270	6	SM50(1), SM100(1)
-b	22 Sep. 1997	26 Sep. 1997	Mizuho		Syowa	270	6	SM50(1), SM100(1)
3-a	10 Oct 1997	28 Oct 1997	Syowa		Dome F	1,032	8	SM100(4)
-b	3 Nov. 1997	19 Nov 1997	Dome F		Syowa	1,032	8	SM100(3)
4-a	22 Nov 1997	27 Nov 1997	Dome F	Dome Camp	Dome F	354	4	SM100(2)
-b	8 Dec 1997	20 Dec. 1997	Dome F	S79E42 5	Dome F	525	4	SM100(2)
5-a	17 Jan 1998	1 Jan 1998	Dome F		S16	1,000	6	SM100(3)
-b	24 Jan 1998	6 Jan. 1998	Dome F		S16	1,000	8	SM50(2), SM100(3)

SM50 and SM100 are types of oversnow vehicles. The numbers of each type vehicle are shown in parentheses

Traverses 1-b and 1-d were joint traverse with JARE-37 Traverse 5-b was a joint traverse with JARE-39

Table 1-2. Glaciological and meteorological observations during the oversnow traverses.

Item	Interval	Traverse No.	Main observers
Snow accumulation along routes	2km	1-a, 1-c, 2, 3-a and 4-a	Hirasawa, Nakajima, Kurita, Kizu and Motoyama
Stake farm and stake row		1-a, 1-c, 2, 3-a and 4-a	Hirasawa, Nakajima, Kurita, Kizu and Motoyama
Snow sampling	10km	1-a, 1-c, 1-d, 3-a, 4 and 5-b	Motoyama, Li, Fujii and Yamanouchi
Pit observation of deposited snow		1-d and 4	Li, Fujii and Motoyama
Surface snow density		1-a, 1-c and 4	Li and Motoyama
Set-up and maintenance of AWS		1-a, 1-d, 3-a and 5-b	Motoyama, Nakajima, Fujita, Kizu and Suzuki
GPS observation		1-a, 2, 3, 4 and 5b	Motoyama, Kanao and Higashi
Gravity observation		3 and 5b	Higashi and Kawabata
Meteorological observations		1, 2, 3, 4 and 5	Hirasawa, Nakajima, Kurita, Kizu, Motoyama and Kaneto

AWS: abbreviation of Automatic Weather Station

Drs. Fujii and Fujita were members of JARE-37.

Dr. Suzuki was a member of JARE-39.

Dr. Li was an exchange scientist in JARE-38

Table 1-3. Participants of the oversnow traverses and their assignments in the JARE-38 program.

Name	Assignments	Traverse No.
Susumu KANETO*	Deputy leader, Meteorology	1-a, 1-c, 5-b
Hideaki MOTOYAMA*	Glaciology	1-a, 1-b, 4-a, 4-b, 5-b
Yasushi KAWAMURA*	Glaciology	1-a, 1-b, 4-b, 5-a
Naohiko HIRASAWA*	Atmospheric science	1-a, 1-c, 4-a, 5-a
Masahiko HAYASHI*	Atmospheric science	1-a, 1-c, 5-b
Masato FUKUDA*	Medical doctor	1-a, 1-c, 4-b, 5-a
Jun NISHIMURA*	Cook	1-a, 1-c, 4-a, 5-a
Yoichi SATO*	Mechanic	1-a, 1-c, 4-a, 5-b
Ryo NISHIHIRA*	Radio communication	1-a, 1-c, 4-b, 5-a
Tetsuji NAKAJIMA**	Meteorology	1-a,1-c,1-d
Yutaka SEKIGUCHI**	Mechanic	1-a, 1-c, 1-d, 3-a, 3-b
Yuansheng LI***	Exchange scientist, Glaciology	1-a,1-c,1-d
Shigeki MIYAJIMA***	Observer	1-a,1-c,1-d
Masaki KANAO**	Earth Science	2-a, 2-b
Osamu Shiozaki**	Mechanic	2-a, 2-b
Isao Matsumoto**	Logistics	2-a, 2-b
Kuniaki KURITA**	Meteorology	2-a, 2-b
Toru FUKATSU**	Satellite observation	2-a, 2-b
Michio KAWABATA**	Pilot	2-a, 2-b, 5-b
Takashi YAMANOUCHI**	Leader, Atmospheric science	3-a, 3-b
Toshihiro HIGASHI**	Earth Science	3-a, 3-b
Satoshi TAKEUCHI**	Upper atmospheric physics	3-a, 3-b
Musubu TANAKA**	Radio communication	3-a, 3-b
Nobuhiko KIZU**	Meteorology	3-a, 3-b
Katsuji KITADA**	Cook	3-a, 3-b
Takami KOSEKI**	Logistics	3-a, 3-b

*: Overwintering party at Dome Fuji Station in 1997

**: Overwintering party at Syowa Station in 1997

***: Summer party

Table 1-4. Glaciological observations carried out at Dome Fuji Station in 1997-1998.

Item	Interval	Main observers
Snow accumulation measurement (36-stake farm)	15 days	Motoyama and Kawamura
Snow sampling	15 days	Motoyama
Air and aerosol sampling	monthly	Hirasawa, Motoyama
Pit observation of deposited snow	monthly	Motoyama
Snow temperature	10 minutes	Motoyama
Precipitation	daily	Motoyama
Sublimation from surface snow	daily	Motoyama
GPS continuous observation (Sep'97 - Jan'98)	30 sec	Motoyama

2. Net accumulation of snow

Observers: JARE-36: Takao KAMEDA and others
JARE-37: Shuji FUJITA and others
JARE-38: Hideaki MOTOYAMA, Yasushi KAWAMURA,
Naohiko HIRASAWA, Tetsuji NAKAJIMA,
Kuniaki KURITA, Nobuhiko KIZU and others

Net accumulation of snow was measured by the stake method along oversnow traverse routes in the 1997-98 season (Fig. 1).

2.1. Route S-H-Z (Mizuho Route)

Stake heights along the route were measured in December 1995 by JARE-36 (AZUMA *et al.*, 1997), and in December 1996 and September 1997 by JARE-38. The height differences which approximate the net balance of snow along the routes are tabulated in Table 2-1. The last column of the table gives approximately the annual net accumulation of snow. Minimum readings were 1 cm.

2.2. Route MD (Dome Fuji Route)

Stake heights along the route from IM0 to DF80 during the 1995 – 1997 season were measured along the same traverse as the Mizuho route. All data along the route are shown in Table 2-2. The last column of the table gives approximately the annual net accumulation of snow. Minimum readings were 1 cm.

2.3. Route DF (JARE-26 Route)

Route DF was set by JARE-26 in 1985 (AGETA *et al.*, 1987). Stake heights along the route were measured again in November 1997 by JARE-38. All data along the route are shown in Table 2-2. Minimum readings were 1 cm. The last column of the table gives the positions of stakes which were re-measured by global positioning system.

2.4. 36-Stake farms, 50-stake row, 100-stake row and 101- stake row along the route

36-stake farms (100 m x 100 m in area, see Figure 2 in AZUMA *et al.*, 1997) were set up at S16, H68, H180, S122 and Z40 along the Mizuho route. Stake heights of the farms were measured by JARE-36, -37 and –38 on the way to and from Dome Fuji Station. The results are shown in Tables 2-4, 2-5, 2-6, 2-7 and 2-8. The last column of the table gives approximately the annual net accumulation of snow; the last row gives averages

and standard deviations of net snow accumulation for each period.

A 101-stake row located at Mizuho Station was measured (see Fugure 3 in AZUMA *et al.*, 1997). The results of the measurements are given in Table 2-9.

50-stake rows were set up at MD180, MD364, MD560 and DF80. These stake rows are perpendicular to the prevailing wind direction, and the distance between stakes is 2 m (see Figure 4 in AZUMA *et al.*, 1997). The results are shown in Table 2-10, 2-11, 2-12 and 2-13.

A 100-stake row was installed at Dome Camp by JARE-26. The distance between stakes is 5 m. The result is shown in Table 2-14.

2.5. 36-stake farm at Dome Fuji Station

A 36-stake farm was established 300 m from Dome Fuji Station by JARE-36. JARE-36 conducted the measurements in 1995. JARE-37 and –38 continued in 1996 and 1997. The distance between stakes is 20 m. This stake-farm is located north-east from the station (see Figure 5 in AZUMA *et al.*, 1997). This direction corresponds to the prevailing wind direction at Dome Fuji. Heights of 36 stakes were measured twice each month. The results are shown in Table 2-15. The last column of the table gives approximately the annual net accumulation of snow, and the last row gives averages and standard deviations of net accumulation of snow for each period. Minimum readings were 0.5 cm.

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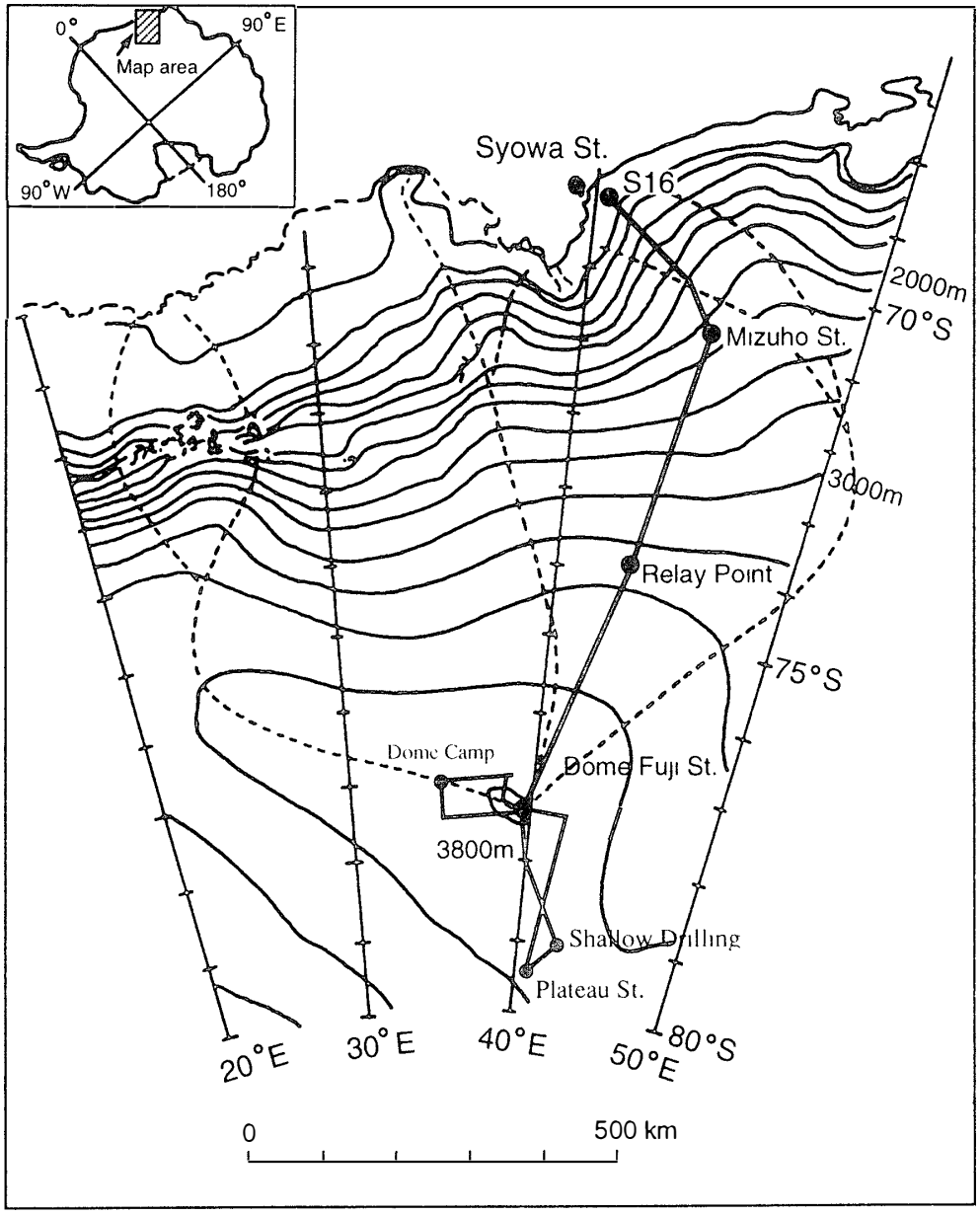

Fig. 1. Location map of the traverse route.

Table 2-1. Net accumulation along Routes S-H-Z in 1995-1997.

(cm in depth)

Station No.	Dec.25-30 1995 (365 - 373 days)	Dec.29-Jan.1 1996 1997 (257-271 days)	Sep.15-26 1997
S 16	-7		-
S 17	36		-
S 18	52		31
S 19	45		35
S 20	53		29
S 21	47		22
S 22	72		73
S 23	70		57
S 24	40		21
S 25	51		40
S 26	42		43
S 27	56		-
S 28	45		58
S 29	53		51
S 30	79		54
H 3	48		51
H 9	56		46
H 15	61		54
H 21	49		32
H 27	58		35
H 35	57		33
H 42	39		22
H 48	44		26
H 54	46		24
H 60	37		29
H 64	34		49
H 68	34		-4
H 72	64		51
H 76	12		24
H 80	21		18
H 84	32		23
H 88	45		37
H 92	32		29
H 96	37		40
H 100	36		26
H 104	26		14
H 108	26		47
H 112	14		19
H 116	28		22
H 120	32		26
H 124	10		21
H 128	28		17
H 132	20		30
H 136	22		25
H 140	23		43
H 144	17		28
H 148	32		27
H 152	22		15

(cm in depth)

Station No.	Dec.25-30 1995 (365 - 373 days)	Dec.29-Jan.1 1996 1997 (257-271 days)	Sep.15-26 1997
H 156	-4		25
H 160	25		31
H 164	48		26
H 168	52		15
H 172	37		15
H 176	39		21
H 180	41		14
H 184	42		31
H 188	22		23
H 192	35		37
H 196	45		42
H 200	17		37
H 204	17		20
H 208	17		21
H 212	20		44
H 216	44		30
H 220	-4		27
H 224	37		11
H 228	19		23
H 232	27		17
H 236	13		12
H 240	40		20
H 244	7		28
H 248	27		23
H 252	3		37
H 256	53		24
H 260	20		31
H 264	25		33
H 268	11		27
H 272	1		8
H 276	-2		23
H 280	59		8
H 284	52		21
H 288	24		-1
H 293	4		8
H 297	13		5
H 301	57		38
S 122	24		-2
Z 2	13		12
Z 4	-19		3
Z 6	6		-
Z 8	1		16
Z 10	1		26
Z 12	0		15
Z 14	47		38
Z 16	7		1
Z 18	0		1
Z 20	38		5

(cm in depth)

Station No.	Dec.25-30 1995	Dec.29-Jan.1 1996 1997 (365 - 373 days)	Sep.15-26 1997 (257-271 days)
Z 22	-42		-3
Z 24	25		-
Z 26	-5		13
Z 28	-4		5
Z 30	2		-1
Z 32	13		10
Z 34	25		-2
Z 36	8		32
Z 38	-3		-1
Z 40	0		10
Z 42	7		-3
Z 46	-6		-1
Z 50	28		27
Z 54	5		0
Z 58	17		3
Z 62	16		5
Z 66	-3		21
Z 70	29		-3
Z 72	-6		-5
Z 74	14		4
Z 76	27		7
Z 78	35		18
Z 80	12		-
Z 82	12		12
Z 84	12		25
Z 86	30		14
Z 88	-3		3
Z 90	7		-4
Z 92	-6		0
Z 94	21		9
Z 96	1		-
Z 98	-5		-1
Z 100	23		32
Z 102	27		0

Table 2-2. Net accumulation along Route MD in 1995-1997.

(cm in depth)

Station No.	Dec.31-Jan.12 1995 1996 (358 - 389 days)	Jan.4-23 1997 (263-297 days)	Oct.13-28 1997 (263-297 days)
IM 0	4	-	
IM 1	6	5	
IM 2	2	-2	
MD 0	7	-1	
MD 2	39	-2	
MD 4	18	0	
MD 6	5	12	
MD 8	32	11	
MD 10	32	-1	
MD 12	1	2	
MD 14	7	-6	
MD 16	51	24	
MD 18	32	10	
MD 20	41	28	
MD 22	62	31	
MD 24	53	10	
MD 26	4	-1	
MD 28	9	-4	
MD 30	9	1	
MD 32	20	6	
MD 34	49	0	
MD 36	24	30	
MD 38	11	31	
MD 40	2	-1	
MD 42	31	-1	
MD 44	67	2	
MD 46	29	50	
MD 48	32	47	
MD 50	-3	25	
MD 52	22	24	
MD 54	-3	8	
MD 56	-6	0	
MD 58	33	10	
MD 60	3	30	
MD 62	-8	-5	
MD 64	17	5	
MD 66	22	38	
MD 68	5	0	
MD 70	43	32	
MD 72	27	33	
MD 74	11	7	
MD 76	31	50	
MD 78	31	2	
MD 80	2	27	
MD 82	52	31	
MD 84	31	-3	
MD 86	-3	-1	
MD 88	55	50	

(cm in depth)

Station No.	Dec.31-Jan.12 1995 1996 (358 - 389 days)	Jan.4-23 1997 (263-297 days)	Oct.13-28 1997 (263-297 days)
MD 90	36	8	
MD 92	4	-3	
MD 94	-2	-2	
MD 96	0	0	
MD 98	3	30	
MD 100	21	49	
MD 102	45	80	
MD 104	-4	1	
MD 106	-3	1	
MD 108	-8	0	
MD 110	-4	2	
MD 112	9	18	
MD 114	2	4	
MD 116	-3	-1	
MD 118	35	2	
MD 120	-4	1	
MD 122	26	11	
MD 124	21	19	
MD 126	25	39	
MD 128	41	16	
MD 130	29	12	
MD 132	-5	-1	
MD 134	16	-2	
MD 136	21	-2	
MD 138	-3	32	
MD 140	30	16	
MD 142	22	10	
MD 144	57	11	
MD 146	6	19	
MD 148	65	36	
MD 150	52	6	
MD 152	53	50	
MD 154	21	5	
MD 156	22	26	
MD 158	5	32	
MD 160	0	27	
MD 162	22	44	
MD 164	32	8	
MD 166	7	-5	
MD 168	5	2	
MD 170	55	2	
MD 172	13	16	
MD 174	57	39	
MD 176	9	-2	
MD 178	-4	-2	
MD 180	-2	1	
MD 182	-5	2	
MD 184	3	-1	

(cm in depth)

Station No.	Dec.31-Jan.12 1995 1996 (358 - 389 days)	Jan.4-23 1997 (263-297 days)	Oct 13-28 1997
MD 186	4	1	
MD 188	32	17	
MD 190	45	41	
MD 192	22	33	
MD 194	-1	4	
MD 196	70	0	
MD 198	-1	-2	
MD 200	-3	0	
MD 202	-5	1	
MD 204	31	-2	
MD 206	33	-4	
MD 208	0	20	
MD 210	4	1	
MD 212	12	-1	
MD 214	16	4	
MD 216	12	1	
MD 218	2	1	
MD 220	-4	-1	
MD 222	8	3	
MD 224	22	-3	
MD 226	13	15	
MD 228	48	30	
MD 230	26	47	
MD 232	3	1	
MD 234	60	0	
MD 236	-3	-1	
MD 238	49	31	
MD 240	-1	-3	
MD 242	-5	-3	
MD 244	0	-3	
MD 246	-3	-1	
MD 248	19	-4	
MD 250	11	2	
MD 252	1	-1	
MD 254	-2	1	
MD 256	18	0	
MD 258	51	29	
MD 260	33	14	
MD 262	29	11	
MD 264	44	-2	
MD 266	19	18	
MD 268	0	6	
MD 270	19	28	
MD 272	29	35	
MD 274	3	17	
MD 276	-	-	
MD 278	27	-4	

(cm in depth)

Station No.	Dec.31-Jan.12 1995 1996 (358 - 389 days)	Jan.4-23 1997 (263-297 days)	Oct 13-28 1997
MD 280	23	14	
MD 282	-2	2	
MD 284	6	35	
MD 286	31	0	
MD 288	16	-1	
MD 290	-1	0	
MD 292	-3	0	
MD 294	20	1	
MD 296	13	1	
MD 298	20	7	
MD 300	3	1	
MD 302	1	4	
MD 304	28	4	
MD 306	9	17	
MD 308	26	11	
MD 310	17	26	
MD 312	22	28	
MD 314	7	49	
MD 316	15	2	
MD 318	34	0	
MD 320	0	7	
MD 322	24	-1	
MD 324	41	27	
MD 326	7	38	
MD 328	-46	-2	
MD 330	-2	-1	
MD 332	6	1	
MD 334	-2	0	
MD 336	-3	1	
MD 338	-1	4	
MD 340	21	9	
MD 342	3	16	
MD 344	9	0	
MD 346	13	10	
MD 348	28	18	
MD 350	21	27	
MD 352	40	-1	
MD 354	-1	0	
MD 356	11	-1	
MD 358	16	9	
MD 360	35	-2	
MD 362	12	2	
MD 364	2	0	
MD 366	7	5	
MD 368	7	14	
MD 370	19	3	
MD 372	28	15	

(cm in depth)

Station No.	Dec.31-Jan.12 1995 1996 (358 - 389 days)	Jan.4-23 1997 (263-297 days)	Oct.13-28 1997
MD 374	23	17	
MD 376	-1	0	
MD 378	13	22	
MD 380	25	9	
MD 382	21	3	
MD 384	-3	1	
MD 386	13	13	
MD 388	4	4	
MD 390	23	3	
MD 392	17	4	
MD 394	7	3	
MD 396	22	-1	
MD 398	3	17	
MD 400	37	-10	
MD 402	4	12	
MD 404	15	0	
MD 406	23	-1	
MD 408	13	6	
MD 410	11	4	
MD 412	14	-1	
MD 414	19	10	
MD 416	26	-1	
MD 418	-1	-2	
MD 420	11	8	
MD 422	6	22	
MD 424	0	25	
MD 426	14	8	
MD 428	36	3	
MD 430	15	15	
MD 432	29	-1	
MD 434	0	4	
MD 436	6	1	
MD 438	4	1	
MD 440	18	10	
MD 442	17	4	
MD 444	0	5	
MD 446	16	0	
MD 448	13	9	
MD 450	2	13	
MD 452	4	0	
MD 454	14	12	
MD 456	4	14	
MD 458	6	12	
MD 460	24	23	
MD 462	10	0	
MD 464	0	4	
MD 466	3	1	

(cm in depth)

Station No.	Dec.31-Jan.12 1995 1996 (358 - 389 days)	Jan.4-23 1997 (263-297 days)	Oct.13-28 1997
MD 468	29	26	
MD 470	19	7	
MD 472	6	6	
MD 474	11	5	
MD 476	0	0	
MD 478	10	6	
MD 480	12	17	
MD 482	19	10	
MD 484	7	21	
MD 486	14	3	
MD 488	37	-1	
MD 490	15	3	
MD 492	7	7	
MD 494	-1	2	
MD 496	17	10	
MD 498	19	10	
MD 500	20	4	
MD 502	22	14	
MD 504	-1	3	
MD 506	18	14	
MD 508	24	1	
MD 510	-91	1	
MD 512	9	0	
MD 514	18	16	
MD 516	4	2	
MD 518	9	13	
MD 520	12	14	
MD 522	23	-2	
MD 524	0	13	
MD 526	4	13	
MD 528	27	5	
MD 530	2	11	
MD 532	2	6	
MD 534	16	1	
MD 536	7	14	
MD 538	15	4	
MD 540	14	17	
MD 542	27	4	
MD 544	11	14	
MD 546	15	0	
MD 548	8	4	
MD 550	23	-1	
MD 552	10	5	
MD 554	10	6	
MD 556	5	20	
MD 558	13	3	
MD 560	0	19	

(cm in depth)

Station No.	Dec. 31-Jan. 12 1995 1996 (358 - 389 days)	Jan. 4-23 1997	Oct. 13-28 1997 (263-297 days)
MD 562	-2		2
MD 564	28		1
MD 566	3		28
MD 568	6		3
MD 570	-2		0
MD 572	-1		-1
MD 574	9		1
MD 576	14		6
MD 578	4		6
MD 580	9		0
MD 582	11		13
MD 584	19		12
MD 586	1		10
MD 588	1		16
MD 590	18		5
MD 592	22		3
MD 594	16		0
MD 596	2		10
MD 598	6		1
MD 600	0		4
MD 602	26		4
MD 604	16		7
MD 606	17		27
MD 608	-2		10
MD 610	22		8
MD 612	21		9
MD 614	12		5
MD 616	5		6
MD 618	4		9
MD 620	7		10
MD 622	-		2
MD 624	16		0
MD 626	4		12
MD 628	8		19
MD 630	17		8
MD 632	7		6
MD 634	7		31
MD 636	22		2
MD 638	3		18
MD 640	5		5
MD 642	9		7
MD 644	2		17
MD 646	13		6
MD 648	13		13
MD 650	20		16
MD 652	11		6
MD 654	9		6

(cm in depth)

Station No.	Dec. 31-Jan. 12 1995 1996 (358 - 389 days)	Jan 4-23 1997	Oct. 13-28 1997 (263-297 days)
MD 656	5		5
MD 658	12		7
MD 660	9		12
MD 662	4		3
MD 664	7		6
MD 666	11		7
MD 668	13		6
MD 670	13		8
MD 672	15		7
MD 674	12		1
MD 676	16		0
MD 678	14		1
MD 680	10		15
MD 682	8		5
MD 684	11		6
MD 686	10		15
MD 688	5		12
MD 690	14		2
MD 692	5		3
MD 694	28		0
MD 696	9		2
MD 698	0		0
MD 700	0		10
MD 702	19		5
MD 704	8		5
MD 706	7		15
MD 708	0		3
MD 710	-5		21
MD 712	13		1
MD 714	11		4
MD 716	7		9
MD 718	17		4
MD 720	6		15
MD 722	14		10
MD 724	12		2
MD 726	22		0
MD 728	19		0
MD 730	15		10
MD 732	12		14
MD 734	-		7
MD 736	-		3
MD 738	-		5
DF 80	-		-12

Table 2-3. Net accumulation and position along Route DF in 1985-1997.

(cm in depth)

Station No.	Nov.23-30 1985 (4375 - 4387 days)	Nov.22-27 1997	Latitude(S)	Longitude(E)
DF 0	96		77° 0.01'	34° 59.92'
DF 1	89		77° 0.04'	35° 4.72'
DF 2	86		77° 0.10'	35° 9.45'
DF 3	84		77° 0.02'	35° 14.33'
DF 4	98		77° 0.05'	35° 19.15'
DF 5	67		76° 59.98'	35° 24.03'
DF 6	83		76° 59.95'	35° 28.80'
DF 7	78		76° 59.97'	35° 33.64'
DF 8	50		76° 59.97'	35° 38.34'
DF 9	97		76° 59.97'	35° 43.14'
DF 10	67		76° 59.96'	35° 48.03'
DF 11	74		76° 59.97'	35° 52.83'
DF 12	59		76° 59.96'	35° 57.79'
DF 13	92		76° 59.87'	36° 2.60'
DF 14	84		76° 59.79'	36° 7.41'
DF 15	90		76° 59.81'	36° 12.21'
DF 16	80		76° 59.84'	36° 17.04'
DF 17	71		76° 59.81'	36° 21.96'
DF 18	92		76° 59.83'	36° 26.77'
DF 19	79		76° 59.77'	36° 31.43'
DF 20	65		76° 59.60'	36° 36.19'
DF 21	58		76° 59.51'	36° 40.99'
DF 22	87		76° 59.48'	36° 45.89'
DF 23	58		76° 59.31'	36° 50.48'
DF 24	75		76° 59.26'	36° 55.39'
DF 25	99		76° 59.31'	37° 0.19'
DF 26	101		76° 59.20'	37° 4.99'
DF 27	96		76° 59.23'	37° 9.82'
DF 28	70		76° 59.17'	37° 14.64'
DF 29	49		76° 59.05'	37° 19.42'
DF 30	90		76° 58.92'	37° 24.18'
DF 31	93		76° 58.85'	37° 28.90'
DF 32	63		76° 58.69'	37° 33.66'
DF 33	75		76° 58.63'	37° 38.62'
DF 34	74		76° 58.66'	37° 43.28'
DF 35	70		76° 58.70'	37° 48.11'
DF 36	72		76° 58.49'	37° 52.81'
DF 37	86		76° 58.39'	37° 57.66'
DF 38	73		76° 58.41'	38° 2.43'
DF 39	88		76° 58.44'	38° 7.25'
DF 40	70		76° 58.51'	38° 12.08'
DF 41	88		76° 58.47'	38° 16.89'

(cm in depth)

Station No.	Nov.23-30 1985 (4375 - 4387 days)	Nov.22-27 1997	Latitude(S)	Longitude(E)
DF 42	98		76° 58.33'	38° 21.70'
DF 43	95		76° 58.25'	38° 26.50'
DF 44	92		76° 58.12'	38° 31.02'
DF 45	78		76° 58.12'	38° 36.13'
DF 46	89		76° 58.19'	38° 40.91'
DF 47	85		76° 58.17'	38° 45.75'
DF 48	74		76° 58.10'	38° 50.60'
DF 49	72		76° 58.13'	38° 55.32'
DF 50	63		76° 58.10'	39° 0.31'
DF 51	61		76° 59.16'	38° 39.71'
DF 52	95		77° 0.19'	38° 38.64'
DF 53	98		77° 1.22'	38° 37.11'
DF 54	63		77° 2.29'	38° 35.64'
DF 55	71		77° 3.28'	38° 34.45'
DF 56	76		77° 4.38'	38° 33.78'
DF 57	79		77° 5.17'	38° 30.55'
DF 58	90		77° 5.94'	38° 27.18'
DF 59	65		77° 6.76'	38° 23.87'
DF 60	93		77° 7.51'	38° 27.50'
DF 61	93		77° 8.21'	38° 31.13'
DF 62	78		77° 8.96'	38° 34.62'
DF 63	92		77° 9.71'	38° 38.37'
DF 64	99		77° 10.41'	38° 41.83'
DF 65	86		77° 11.18'	38° 45.28'
DF 66	97		77° 11.95'	38° 48.68'
DF 67	93		77° 12.71'	38° 52.30'
DF 68	105		77° 13.38'	38° 56.04'
DF 69	73		77° 14.11'	38° 59.76'
DF 70	100		77° 14.62'	39° 4.05'
DF 71	94		77° 15.05'	39° 8.56'
DF 72	70		77° 15.50'	39° 13.02'
DF 73	110		77° 16.35'	39° 15.87'
DF 74	94		77° 17.23'	39° 18.88'
DF 75	85		77° 18.11'	39° 21.70'
DF 76	96		77° 18.97'	39° 24.98'
DF 77	105		77° 19.80'	39° 27.99'
DF 78	105		77° 20.67'	39° 31.06'
DF 79	87		77° 21.49'	39° 34.02'
DF 80	66		77° 22.41'	39° 36.82'
DF 81	108		77° 22.62'	39° 31.77'
DF 82	120		77° 22.66'	39° 26.76'
DF 83	95		77° 22.77'	39° 21.92'

(cm in depth)

Station No.	Nov.23-30 1985 (4375 - 4387 days)	Nov.22-27 1997	Latitude(S)	Longitude(E)
DF 84	84		77 ° 22.82 '	39 ° 17.02 '
DF 85	81		77 ° 22.75 '	39 ° 12.08 '
DF 86	68		77 ° 22.74 '	39 ° 7.03 '
DF 87	88		77 ° 22.73 '	39 ° 2.03 '
DF 88	91		77 ° 22.77 '	38 ° 57.07 '
DF 89	65		77 ° 22.71 '	38 ° 52.26 '
DF 90	109		77 ° 22.68 '	38 ° 47.23 '
DF 91	102		77 ° 22.78 '	38 ° 42.17 '
DF 92	100		77 ° 22.69 '	38 ° 37.30 '
DF 93	93		77 ° 22.62 '	38 ° 32.43 '
DF 94	85		77 ° 22.58 '	38 ° 27.47 '
DF 95	100		77 ° 22.55 '	38 ° 22.38 '
DF 96	85		77 ° 22.52 '	38 ° 17.40 '
DF 97	106		77 ° 22.55 '	38 ° 12.54 '
DF 98	100		77 ° 22.41 '	38 ° 7.56 '
DF 99	93		77 ° 22.35 '	38 ° 2.68 '
DF 100	99		77 ° 22.33 '	37 ° 57.62 '
DF 101	94		77 ° 22.32 '	37 ° 52.72 '
DF 102	72		77 ° 22.22 '	37 ° 47.78 '
DF 103	69		77 ° 22.20 '	37 ° 42.88 '
DF 104	98		77 ° 22.19 '	37 ° 37.92 '
DF 105	95		77 ° 22.20 '	37 ° 32.95 '
DF 106	85		77 ° 22.26 '	37 ° 27.97 '
DF 107	60		77 ° 22.33 '	37 ° 22.95 '
DF 108	82		77 ° 22.40 '	37 ° 18.20 '
DF 109	86		77 ° 22.45 '	37 ° 13.00 '
DF 110	60		77 ° 22.42 '	37 ° 8.16 '
DF 111	70		77 ° 22.50 '	37 ° 2.97 '
DF 112	95		77 ° 22.45 '	36 ° 58.09 '
DF 113	78		77 ° 22.44 '	36 ° 53.30 '
DF 114	118		77 ° 22.40 '	36 ° 48.32 '
DF 115	105		77 ° 22.40 '	36 ° 43.38 '
DF 116	104		77 ° 22.39 '	36 ° 38.28 '
DF 117	111		77 ° 22.42 '	36 ° 33.33 '
DF 118	80		77 ° 22.34 '	36 ° 28.33 '
DF 119	89		77 ° 22.29 '	36 ° 23.49 '
DF 120	85		77 ° 22.34 '	36 ° 18.50 '
DF 121	111		77 ° 22.42 '	36 ° 13.42 '
DF 122	89		77 ° 22.49 '	36 ° 8.51 '
DF 123	100		77 ° 22.50 '	36 ° 3.63 '
DF 124	75		77 ° 22.54 '	35 ° 58.73 '
DF 125	84		77 ° 22.44 '	35 ° 53.71 '

(cm in depth)

Station No.	Nov.23-30 1985 (4375 - 4387 days)	Nov.22-27 1997	Latitude(S)	Longitude(E)
DF 126	90		77 ° 22.43 '	35 ° 48.73 '
DF 127	101		77 ° 22.39 '	35 ° 43.80 '
DF 128	93		77 ° 22.32 '	35 ° 38.68 '
DF 129	75		77 ° 22.25 '	35 ° 33.92 '
DF 130	88		77 ° 22.20 '	35 ° 28.96 '
DF 131	105		77 ° 22.22 '	35 ° 24.01 '
DF 132	90		77 ° 22.13 '	35 ° 19.01 '
DF 133	106		77 ° 22.17 '	35 ° 14.17 '
DF 134				
DF 135	91		77 ° 22.28 '	35 ° 4.23 '
DF 136	119		77 ° 22.29 '	34 ° 59.79 '
DF 137	118		77 ° 20.66 '	34 ° 59.58 '
DF 138	107		77 ° 19.03 '	35 ° 0.34 '
DF 139	114		77 ° 17.40 '	35 ° 0.87 '
DF 140	101		77 ° 15.76 '	35 ° 0.94 '
DF 141	83		77 ° 14.14 '	35 ° 0.72 '
DF 142	83		77 ° 12.50 '	34 ° 59.97 '
DF 143	76		77 ° 10.90 '	35 ° 0.09 '
DF 144	75		77 ° 9.26 '	35 ° 0.50 '
DF 145	93		77 ° 7.62 '	35 ° 0.35 '
DF 146	86		77 ° 5.99 '	35 ° 0.22 '
DF 147	78		77 ° 4.36 '	35 ° 0.29 '
DF 148	87		77 ° 2.74 '	34 ° 59.97 '
DF 149	80		77 ° 1.10 '	34 ° 59.87 '

Table 2-4. Net accumulation in 36-stake farm at S16 in 1996-1997.

(cm in depth)

Stake No.	6 Feb. 1996 10 Oct. 1996 (247days)	10 Oct. 1996 9 Feb. 1997 (122days)	9 Feb. 1997 15 Sep. 1997 (218days)	6 Feb. 1996 9 Feb. 1997 (369days)
I −1	20	-27	13	-7
−2	11	-31	24	-20
−3	74	-21	23	53
−4	13	-30	24	-17
−5	72	-38	7	34
−6	26	-12	21	14
II −1			10	
−2	-13	-25	32	-38
−3	60	-19	21	41
−4	-25	37	13	12
−5	75	-12	5	63
−6	41	-16	22	25
III −1	22	-5	7	17
−2	29	-17	28	12
−3	27	-16	25	11
−4	48	-18	12	30
−5	111	-12	-1	99
−6	21	-12		9
IV −1	32	-18	9	14
−2	72	-2	9	70
−3	40	-11	23	29
−4	28	-20	14	8
−5	52	-35	10	17
−6	36	-17	18	19
V −1	43	-29	9	14
−2	111	-11	19	100
−3	34	-18	18	16
−4	31	-14	11	17
−5	58	-25		33
−6	31	-21	22	10
VI −1	66	-20	133	46
−2	28	-12	185	16
−3	55	-14	11	41
−4			16	
−5	67	-21	17	46
−6			16	
average	42	-17	24	25
s.d.	29	13	36	29

Table 2-5. Net accumulation in 36-stake farm at H68 in 1996-1997.

(cm in depth)

Stake No.	5 Feb. 1996 13 Oct. 1996 (251days)	13 Oct. 1996 30 Dec. 1996 (78days)	30 Dec. 1996 25 Sep. 1997 (269days)	5 Feb. 1996 30 Dec. 1996 (329days)
I −1	31	15	10	46
−2	29	22	2	51
−3	13	6	14	19
−4	12	1	11	13
−5	13	9	38	21
−6	4	-2	32	2
II −1	34	26	6	59
−2	14	9	29	22
−3	25	15	14	39
−4	23	13	11	36
−5	24	15	20	38
−6	-1	-6	16	-7
III −1	37	28	15	64
−2	36	29	6	64
−3	31	19	10	50
−4	18	11	-11	28
−5	9	2	18	11
−6	4	-1	8	3
IV −1	22	10	7	32
−2	7	1	-2	7
−3	12	1	14	12
−4	22	14	5	35
−5	33	22	8	54
−6	31	29	-6	60
V −1	3	-8	-2	-5
−2	16	9	12	25
−3	23	18	8	41
−4	24	19	-5	42
−5	22	18	-4	39
−6	22	9	15	30
VI −1	27	15	2	41
−2	18	11	5	29
−3	13	9	21	22
−4	19	11	16	29
−5	17	0		17
−6	34	10	-17	43
average	20	11	9	31
s.d.	10	10	11	19

Table 2-6. Net accumulation in 36-stake farm at H180 in 1996-1997.

(cm in depth)

Stake No.	4 Feb. 1996 13 Oct. 1996 (252days)	13 Oct. 1996 31 Dec. 1996 (79days)	31 Dec. 1996 17 Sep. 1997 (260days)	4 Feb. 1996 31 Dec. 1996 (331days)
I −1	44	10	21	54
−2	27	1	29	28
−3	30	-1	19	29
−4	30	4	17	34
−5			28	
−6	6	7	17	13
II −1	28	15	5	43
−2	37	-1	18	36
−3	27	0	20	27
−4	18	-2	22	16
−5	24	-3	29	21
−6	19	-4	30	15
III −1	39	-18	30	21
−2	35	-7	24	28
−3	31	-2	26	29
−4	11	-6	33	5
−5			21	
−6	40	-2	24	38
IV −1	5	9	3	14
−2	18	-3	25	15
−3	41	-2	35	39
−4	24	-4	37	20
−5	12	-3	19	9
−6	31	-5	26	26
V −1	51	-17	19	34
−2	38	3	8	41
−3	27	7	29	34
−4			21	
−5	39	-1	16	38
−6	27	-1	21	26
VI −1	38	-25	38	13
−2	33	-5	16	28
−3	44	-1	11	43
−4	40	4	28	44
−5	31	9	30	40
−6	24	16	21	40
average	29	-1	23	28
s.d.	11	9	8	12

Table 2-7. Net accumulation in 36-stake farm at S122 in 1996-1997.

(cm in depth)

Stake No.	4 Feb. 1996 15 Oct. 1996 (254days)	15 Oct. 1996 1 Jan. 1997 (78days)	1 Jan. 1997 23 Sep. 1997 (265days)	4 Feb. 1996 1 Jan. 1997 (332days)
I −1	24	-6	8	18
−2	19	-1	16	18
−3	32	1	5	33
−4	22	-9	-1	13
−5	21	-3	12	18
−6	21	-4	27	17
II −1	51	-8	2	43
−2	9	6	23	15
−3	35	-5	30	30
−4	32	-5	18	27
−5	19	3	-1	22
−6	-4	-3	10	-7
III −1	33	-3	9	30
−2	21	6	8	27
−3	40	-14	-2	26
−4	11	-2	3	9
−5	1	2	-3	3
−6	25	-3	6	22
IV −1	25	0	-1	25
−2	24	-5	10	19
−3	18	-3	9	15
−4	23	2	0	25
−5	24	-6	0	18
−6	14	-3	1	11
V −1	0	-2	13	-2
−2	25	-7	8	18
−3	22	0	10	22
−4	1	-1	4	0
−5	6	-3	11	3
−6	-1	8	1	8
VI −1			11	
−2	6	-4	13	2
−3	12	-5	1	7
−4	22	-8	-4	14
−5	3	-1	6	2
−6	5	-8	10	-3
average	18	-3	8	15
s.d.	13	5	8	11

Table 2-8. Net accumulation in 36-stake farm at Z40 in 1996-1997.

(cm in depth)

Stake No.	3 Feb. 1996 21 Oct. 1996 (261days)	21 Oct. 1996 1 Jan. 1997 (72days)	1 Jan. 1997 19 Sep. 1997 (261days)	3 Feb. 1996 1 Jan. 1997 (333days)
I −1	12	-3	9	9
−2	11	-3	-1	8
−3	10	15	-3	25
−4	4	-3	0	1
−5	-2	-5	-1	-7
−6	20	-1	6	19
II −1	-2	-1	-1	-3
−2	-1	-3	9	-4
−3	12	-4	-2	8
−4	17	-5	2	12
−5	29	-2	0	27
−6	9	-4	2	5
III −1	-7	-2	5	-9
−2	10	-3	19	7
−3	16	3	11	19
−4	11	2	11	13
−5	3	-2	7	1
−6	-39	-2	6	-41
IV −1	34	-4	-1	30
−2	-1	-2	42	-3
−3	7	9	-1	16
−4	-1	-2	24	-3
−5	-4	-3	16	-7
−6	46	-2	-1	44
V −1	20	2	41	22
−2	37	-9	-2	28
−3	11	-3	4	8
−4	3	-3	70	0
−5	-3	29	-2	27
−6	46	-5	-1	41
VI −1	1	-4	5	-3
−2	3	-1	-3	2
−3	9	-2	1	7
−4	13	-1	5	12
−5	16	-2	-2	14
−6	-23	2	3	-21
average	9	-1	8	8
s.d.	16	7	15	17

Table 2-9. Net accumulation along 101-stake row at Mizuho Station in 1996-1997.

(cm in depth)

Stake No.	2 Feb. 1996 20 Nov. 1996 (292days)	20 Nov. 1996 3 Jan. 1997 (44days)	3 Jan. 1997 20 Sep. 1997 (260days)	2 Feb. 1996 3 Jan. 1997 (336days)
102	1	-5	1	-5
103	2	-4	2	-2
104	4	-5	0	-1
105	2	-1	1	1
106	-1	-2	-1	-3
107	1	-1	1	-1
108	0	-2	-1	-2
109	1	-3	1	-2
110	8	-2	-1	6
111	7	-2	1	5
112	12	-3	4	9
113	19	-2	-2	17
114	11	-3	1	8
115	9	-2	12	7
116	-1	-3	9	-4
117	4	-5	3	-2
118	12	-7	11	5
119	5	-3	-3	2
120	9	-2	-3	7
121	16	-7	2	9
122	6	-2	11	4
123	7	-3	15	4
124	4	4	7	8
125	7	-5	11	2
126	8	-3	3	5
127	2	0	-1	2
128	10	1	-3	11
129	11	-3	-2	8
130	11	-4	-2	7
131	5	-3	-2	2
132	21	-3	-1	18
133	37	-1	-3	36
134	35	2	-3	37
135	15	21	-3	36
136	17	19	-2	36
137	-1	24	-2	24
138	3	26	-3	29
139	5	25	0	30
140	16	22	-3	38
141	30	5	-1	35
142	51	-23	-1	28
143	46	-10	-6	36
144	23	10	-12	33
145	36	-5	-3	31
146	23	7	-2	30

(cm in depth)

Stake No.	2 Feb. 1996 20 Nov. 1996 (292days)	20 Nov. 1996 3 Jan. 1997 (44days)	3 Jan. 1997 20 Sep. 1997 (260days)	2 Feb. 1996 3 Jan. 1997 (336days)
147	8	12	-1	20
148	11	7	-1	18
149	5	10	-1	15
150	15	16	-1	31
151	5	23	-2	28
51	0	19	-2	19
152	4	20	-2	24
153	6	11	-1	17
154	1	6	-4	7
155	0	2	-2	2
156	-1	-2	-2	-3
157	-1	-7	0	-8
158	5	-1	-3	4
159	2	-3	-1	-2
160	1	-2	-1	-2
161	0	-3	-2	-3
162	-1	-2	3	-3
163	1	-2	-2	-1
164	1	-3	-2	-3
165	9	-6	0	3
166	-1	-2	-3	-3
167	4	-5	0	-1
168	5	-6	-1	-1
169	7	-3	-6	4
170	4	-5	-2	-1
171	2	-4	-1	-3
172	-1	-1	-1	-2
173	1	-2	-2	-2
174	-1	-2	-3	-3
175	-1	-3	-1	-4
176	-2	-2	-3	-4
177	-6	-4	-3	-10
178	-1	-1	-1	-2
179	-1	-1	-3	-2
180	-1	-2	-2	-3
181	-1	-3	-2	-4
182	0	-2	-2	-2
183	-3	1	-3	-2
184	-2	0	-6	-2
185	-2	5	-3	3
186	-2	3	-4	2
187	-1	-1	0	-2
188	4	-5	-3	-2
189	4	-10	5	-6
190	11	-4	0	7

(cm in depth)

Stake No.	2 Feb. 1996 20 Nov. 1996 (292days)	20 Nov. 1996 3 Jan. 1997 (44days)	3 Jan. 1997 20 Sep. 1997 (260days)	2 Feb. 1996 3 Jan. 1997 (336days)
191	8	-3	-3	5
192	11	-1	-4	10
193	7	-2	-2	5
194	7	0	-1	7
195	14	-3	-2	11
196	20	-3	-1	17
197	21	-4	0	17
198	13	-2	-6	11
199	1	-7	-1	-7
200	5	-4	0	1
201	2	-6	-2	-5
average	7	0	-1	8
s.d.	10	8	4	13

Table 2-10. Net accumulation along 50-stake row at MD180 in 1996-1997.

(cm in depth)

Stake No.	1 Feb. 1996 17 Nov. 1996 (290days)	17 Nov. 1996 7 Jan. 1997 (51days)	7 Jan. 1997 10 Nov. 1997 (307days)	1 Feb. 1996 7 Jan. 1997 (341days)
0	2	-3	1	-2
1	-2	15	-2	14
2	-1	14	1	13
3	-2	1	-3	-1
4	-1	1	-3	0
5	-1	-1	-1	-2
6	-2	-1	-1	-3
7	8	-2	-5	6
8	8	-4	-3	4
9	1	2	-1	3
10	1	-2	0	-2
11	0	-3	0	-3
12	-4	-3	1	-7
13	1	-2	1	-2
14	1	-3	-1	-2
15	1	-3	0	-2
16	0	-2	-3	-2
17	-1	-3	1	-4
18	1	-3	1	-3
19	1	-3	-2	-2
20	-1	-1	-1	-2
21	1	2	-1	3
22	-1	-2	-1	-3
23	1	-1	0	0
24	1	-2	-1	-2
25	3	-3	7	0
26	0	-3	1	-3
27	-9	0	4	-9
28	1	-2	1	-1
29	-1	-2	1	-3
30	1	-3	1	-3
31	1	-3	1	-2
32	1	-3	-1	-3
33	0	-3	-1	-3
34	-1	0	-1	-1
35	0	-3	-1	-3
36	0	-2	2	-2
37	-1	-3	2	-4
38	-8	-2	1	-10
39	-4	-2	-6	-6
40	0	-2	-6	-2
41	0	-3	-2	-3
42	4	1	-1	5
43	-2	-2	-2	-4
44	-2	-2	-1	-4
45	-1	-3	1	-4
46	-1	-3	-1	-4
47	-1	-2	-1	-3
48	0	-3	1	-3
49	-1	-2	-1	-3
50	-1	-2	0	-3
average	0	-1	0	-2
s.d.	3	4	2	4

Table 2-11. Net accumulation along 50-stake row at MD364 in 1996-1997

(cm in depth)

Stake No.	30 Jan. 1996 15 Nov. 1996 (290days)	15 Nov. 1996 10 Jan 1997 (56days)	10 Jan. 1997 21 Oct. 1997 (284days)	30 Jan. 1996 10 Jan. 1997 (346days)
0	4	-1	0	3
1	4	-6	0	-2
2	0	2	-1	2
3	4	11	1	15
4	7	4	10	11
5	4	-1	12	3
6	4	-2	1	2
7	11	-4	4	7
8	17	-2	-1	15
9	-1	9	0	9
10	1	6	0	7
11	8	6	2	14
12	13	5	0	18
13	-2	1	0	-1
14	-1	2	3	2
15	0	-2	5	-2
16	1	-2	1	-1
17	3	3	1	6
18	9	-1	0	8
19	0	-1	4	-1
20	4	-3	0	1
21	-1	-3	0	-4
22	2	0	2	2
23	3	1	1	4
24	-1	2	2	2
25	10	-7	0	3
26	8	-1	-2	7
27	16	-7	-1	9
28	5	0	1	5
29	0	3	1	3
30	0	7	2	7
31	-2	8	4	7
32	-2	1	6	-1
33	-1	-1	4	-2
34	-1	0	-1	-1
35	0	1	1	1
36	0	-2	1	-2
37	-1	-1	2	-2
38	5	-3	0	2
39	1	-1	0	-1
40	5	-2	2	3
41	7	1	-2	8
42	13	-5	1	8
43	1	-2	0	-1
44	0	-2	1	-2
45	0	-2	1	-2
46	1	-3	1	-3
47	1	-4	0	-3
48	0	1	0	1
49	7	0	3	7
50	1	-1	0	-1
average	3	0	1	3
s d	5	4	3	5

Table 2-12. Net accumulation along 50-stake row at MD560 in 1996-1997.

(cm in depth)

Stake No.	27 Jan. 1996 11 Nov. 1996 (289days)	11 Nov. 1996 13 Jan. 1997 (63days)	13 Jan. 1997 25 Oct. 1997 (285days)	27 Jan. 1996 13 Jan. 1997 (352days)
0	0	0	19	0
1	17	-3	2	14
2	14	-2	6	12
3	13	-3	13	10
4	16	-2	2	14
5	17	-2	8	15
6	11	0	14	11
7	9	3	12	12
8	15	0	14	15
9	17	2	0	19
10	15	7	-1	22
11	1	2	-2	3
12	12	-1	9	11
13	-1	2	1	2
14	14	-3	0	11
15	10	-1	1	9
16	14	-1	2	13
17	25	-6	1	19
18	17	-2	0	15
19	11	-1	3	10
20	11	-1	0	10
21	16	-2	0	14
22	1	-1	7	-1
23	3	0	4	3
24	14	4	0	18
25	10	-2	1	8
26	2	3	2	5
27	4	-1	13	3
28	8	1	5	9
29	15	-2	2	13
30	0	0	23	0
31	3	-1	7	2
32	5	0	3	5
33	-1	-1	1	-2
34	0	1	7	1
35	4	0	13	4
36	-1	5	8	5
37	5	-5	4	-1
38	6	1	12	7
39	9	0	10	9
40	8	5	-2	13
41	12	1	-1	13
42	17	3	-1	20
43	18	-3	0	15
44	8	-3	22	5
45	11	-3	6	8
46	1	-2	0	-2
47	8	-1	2	7
48	2	-2	13	0
49	11	-2	7	9
50	3	-1	8	2
average	9	0	5	8
s.d.	6	3	6	6

Table 2-13 Net accumulation along 50-stake row at DF80 in 1996-1997.

(cm in depth)

Stake No	23 Jan. 1996 23 Jan 1997 (366days)	23 Jan. 1997 1 Nov 1997 (282days)
0	21	5
1	24	5
2	24	0
3	24	0
4	23	0
5	15	9
6	15	8
7	15	7
8	17	5
9	21	5
10	21	3
11	18	3
12	12	1
13	17	0
14	12	2
15	10	1
16	12	1
17	7	13
18	10	13
19	11	8
20	10	6
21	14	2
22	13	1
23	14	3
24	15	14
25	12	11
26	7	9
27	11	1
28	12	2
29	15	5
30	8	15
31	4	7
32	5	1
33	2	12
34	2	19
35	2	21
36	3	18
37	3	14
38	2	11
39	5	6
40	5	4
41	8	9
42	7	14
43	10	11
44	6	2
45	7	1
46	9	1
47	6	5
48	4	13
49	4	6
50	2	0
average	11	7
s.d.	7	6

Table 2-14. Net accumulation along 100-stake row at Dome Camp in 1985-1997.

Stake No.	(cm in depth) 7 Dec. 1985 24 Nov. 1997 (4370days)
1	108
2	114
3	98
4	108
5	113
6	117
7	115
8	113
9	96
10	106
11	107
12	114
13	117
14	109
15	103
16	118
17	125
18	113
19	110
20	121
21	121
22	114
23	115
24	109
25	127
26	103
27	117
28	115
29	119
30	114
31	116
32	103
33	107
34	115
35	98
36	114
37	112
38	106
39	115
40	106
41	112
42	107
43	108
44	112
45	108
46	123
47	122
48	120
49	117
50	107
51	109
52	101
53	108
54	107
55	123
56	113
57	115
58	111
59	104
60	107
61	106
62	101
63	95
64	98
65	109
66	107
67	103
68	132
69	120
70	122
71	124
72	118
73	113
74	110
75	115
76	112
77	112
78	114
79	103
80	105
81	123
82	113
83	105
84	129
85	119
86	116
87	111
88	109
89	123
90	102
91	96
92	106
93	103
94	113
95	119
96	113
97	115
98	111
99	111
100	108
average	111
s.d.	8

Table 2-15. Net accumulation at Dome Fuji Station
from 20 January 1997 to 15 January 1998.

(cm in depth)

Stake No.	20 Jan. 1997 4 Feb. (15)	4 Feb. 17 Feb. (13)	17 Feb. 1 Mar. (12)	1 Mar. 15 Mar. (14)	15 Mar. 1 Apr. (17)
I -1	0.0	3.5	-1.0	1.0	0.0
I -2	-1.0	1.0	-0.5	0.0	0.5
I -3	0.5	1.0	0.5	0.5	0.5
I -4	0.0	0.5	1.5	0.0	1.0
I -5	0.5	0.0	0.5	1.0	1.0
I -6	-0.5	0.5	0.5	0.0	0.5
II -1	0.0	-0.5	0.5	0.0	0.5
II -2	1.0	0.5	0.0	0.5	0.5
II -3	1.0	0.5	0.5	0.5	0.5
II -4	6.5	-5.5	1.5	-0.5	1.0
II -5	1.5	-0.5	0.5	-0.5	1.0
II -6	0.0	1.0	1.5	0.0	1.0
III -1	0.0	-1.0	1.5	0.0	1.0
III -2	0.0	-1.0	3.0	0.0	0.5
III -3	0.0	-0.5	0.5	0.0	0.0
III -4	1.0	-1.5	2.0	-5.5	5.0
III -5	0.0	-0.5	1.0	0.0	0.5
III -6	1.0	-1.0	1.5	0.0	0.5
IV -6	0.0	0.0	0.0	0.0	-0.5
IV -6	0.5	1.0	0.0	0.0	1.0
IV -6	0.0	0.0	0.0	0.0	1.0
IV -6	0.0	5.0	0.5	0.0	1.0
IV -6	1.0	-1.5	1.5	0.0	1.0
IV -6	0.5	-1.0	1.0	0.0	1.0
V -1	1.5	7.5	0.0	0.5	1.0
V -2	0.0	0.0	0.5	0.0	1.0
V -3	0.5	-0.5	0.5	0.0	1.0
V -4	0.5	-0.5	0.5	-0.5	1.5
V -5	0.5	-0.5	1.5	0.0	0.5
V -6	1.0	3.0	0.5	-0.5	1.5
VI -1	-0.5	-0.5	1.5	0.0	1.0
VI -2	0.5	-0.5	1.5	0.0	0.5
VI -3	0.0	-0.5	1.0	0.0	1.0
VI -4	-0.5	0.0	0.5	0.0	1.5
VI -5	0.0	-1.5	1.0	0.0	1.5
VI -6	0.0	-1.0	0.5	0.5	0.5
average	0.5	0.1	0.8	-0.1	0.9
s.d.	1.2	2.1	0.8	1.0	0.8

(cm in depth)

Stake No.	1 Apr. 17 Apr. (16)	17 Apr. 1 May (14)	1 May 15 May (14)	15 May 4 Jun. (20)	4 Jun. 16 Jun. (12)
I -1	0.5	-1.0	2.0	-1.5	1.0
I -2	0.0	1.0	2.5	3.0	-2.0
I -3	-1.0	1.0	-0.5	-0.5	1.0
I -4	-1.5	0.0	2.5	1.5	-0.5
I -5	-0.5	2.5	-1.5	-0.5	0.0
I -6	-1.0	0.0	-0.5	0.5	-0.5
II -1	1.0	-2.0	0.0	-0.5	0.0
II -2	-1.5	0.0	0.0	0.5	0.0
II -3	-1.0	-0.5	1.5	-1.5	1.0
II -4	3.5	-2.0	-1.5	0.5	0.0
II -5	-1.0	0.0	-1.0	0.0	0.0
II -6	-1.5	0.5	-0.5	0.5	-1.0
III -1	2.5	-1.0	0.5	1.0	-3.0
III -2	-1.0	-0.5	0.0	0.0	0.0
III -3	-0.5	0.0	-1.0	0.5	-0.5
III -4	-0.5	-0.5	0.5	-0.5	0.5
III -5	2.0	-3.5	1.0	-0.5	0.0
III -6	-0.5	4.0	-0.5	-1.0	0.5
IV -6	0.0	0.0	-0.5	1.0	-1.0
IV -6	-1.5	1.5	-1.0	0.0	-1.0
IV -6	-1.5	1.0	-0.5	1.0	0.0
IV -6	-1.5	2.5	-2.5	0.0	0.0
IV -6	-1.5	-0.5	-0.5	1.0	-1.0
IV -6	-0.5	0.0	1.5	1.0	-1.0
V -1	-1.0	5.0	-1.0	2.0	-0.5
V -2	-0.5	1.0	-1.5	0.0	-0.5
V -3	-0.5	0.0	-0.5	2.5	0.0
V -4	-0.5	0.0	-1.0	0.0	0.5
V -5	-0.5	0.0	0.5	2.0	-0.5
V -6	-1.5	-0.5	0.0	0.5	0.0
VI -1	0.0	0.0	1.5	1.0	-0.5
VI -2	0.0	7.0	-0.5	-0.5	0.0
VI -3	1.5	-2.5	0.0	0.0	1.5
VI -4	-2.0	7.5	-1.0	0.0	-0.5
VI -5	-1.5	0.5	-1.0	1.0	-1.5
VI -6	-1.5	1.0	-0.5	0.5	-0.5
average	-0.5	0.6	-0.1	0.4	-0.3
s.d.	1.2	2.3	1.2	1.0	0.9

(cm in depth)

Stake No.	16 Jun. 6 Jul. (20)	6 Jul. 20 Jul. (14)	20 Jul. 7 Aug. (18)	7 Aug. 19 Aug. (12)	19 Aug. 4 Sep. (16)
I -1	1.5	2.5	-3.0	-0.5	1.0
I -2	-6.0	-0.5	2.5	-1.5	1.0
I -3	-0.5	2.5	0.5	-2.0	1.5
I -4	-1.0	7.0	-6.0	-1.0	0.5
I -5	3.5	0.5	-0.5	9.0	-1.5
I -6	1.5	3.5	6.5	-0.5	0.0
II -1	5.5	0.0	11.5	-1.0	0.0
II -2	2.0	0.0	-0.5	-0.5	0.5
II -3	5.0	0.0	0.0	-0.5	0.5
II -4	5.0	-1.5	0.0	-1.0	1.0
II -5	0.5	0.5	1.0	6.5	-1.0
II -6	9.0	-5.0	2.0	-0.5	-0.5
III -1	11.0	-0.5	-4.5	-0.5	0.0
III -2	-0.5	-0.5	1.0	-1.0	0.5
III -3	4.5	-0.5	13.0	0.0	-0.5
III -4	-1.0	0.0	6.0	2.5	1.0
III -5	8.0	-4.0	2.0	-1.5	0.5
III -6	1.0	1.0	-1.5	1.0	0.0
IV -6	-0.5	0.5	1.5	0.0	0.0
IV -6	0.5	1.0	-1.5	0.5	1.0
IV -6	0.0	0.5	1.0	0.5	0.0
IV -6	-0.5	0.0	0.0	0.0	1.5
IV -6	5.5	0.0	2.0	0.0	-0.5
IV -6	-2.5	3.5	6.5	-2.0	1.5
V -1	-5.5	-1.0	0.5	-0.5	1.0
V -2	2.5	2.5	11.0	-0.5	0.0
V -3	6.5	-0.5	-4.0	-1.0	1.0
V -4	9.0	0.0	-0.5	-0.5	1.0
V -5	-2.0	0.0	0.5	3.5	0.5
V -6	0.5	0.5	-0.5	0.0	0.0
VI -1	1.5	0.5	1.0	-1.0	0.0
VI -2	-5.5	-0.5	3.0	0.5	0.0
VI -3	-2.0	1.5	-1.5	5.0	-0.5
VI -4	-3.0	-3.0	0.0	0.0	1.0
VI -5	7.5	0.0	-1.0	-1.5	3.0
VI -6	1.0	0.5	-2.0	0.5	1.0
average	1.7	0.3	1.3	0.3	0.4
s.d.	4.2	2.1	4.2	2.3	0.8

(cm in depth)

Stake No.	4 Sep. 20 Sep. (16)	20 Sep. 1 Oct. (11)	1 Oct. 15 Oct. (14)	15 Oct. 4 Nov. (20)	4 Nov. 18 Nov. (14)
I -1	-1.0	1.0	-0.5	0.5	-0.5
I -2	-0.5	-0.5	0.0	0.5	-1.0
I -3	0.0	-1.0	1.5	-0.5	0.5
I -4	1.0	2.5	-4.0	0.0	-0.5
I -5	1.5	-2.5	-1.5	-1.0	0.5
I -6	-0.5	0.0	0.0	0.5	0.5
II -1	0.5	-1.0	0.5	-2.0	0.0
II -2	0.0	0.0	0.0	0.0	-0.5
II -3	0.0	-0.5	0.0	0.0	-0.5
II -4	-0.5	0.5	-1.0	0.0	-0.5
II -5	1.0	-2.0	-2.5	-1.0	0.0
II -6	0.0	-0.5	-1.0	-1.0	0.5
III -1	0.0	-1.0	0.0	-0.5	0.0
III -2	-0.5	0.0	0.0	-0.5	-0.5
III -3	0.5	-1.0	-0.5	-2.5	-0.5
III -4	-1.5	0.0	2.5	-1.5	0.0
III -5	-0.5	1.5	-2.0	-1.5	-0.5
III -6	-0.5	2.0	-2.0	0.5	-0.5
IV -6	-0.5	-1.0	0.5	0.0	0.0
IV -6	-0.5	-0.5	0.0	0.5	0.0
IV -6	-0.5	-0.5	0.0	0.0	0.0
IV -6	-1.0	3.0	-2.5	0.0	-0.5
IV -6	1.5	-1.0	-1.0	-0.5	-0.5
IV -6	1.5	-1.5	-4.0	1.0	2.0
V -1	-0.5	0.0	0.0	8.0	0.5
V -2	0.0	-0.5	-1.5	-1.5	0.5
V -3	1.0	-0.5	7.5	-1.5	-1.0
V -4	-1.5	0.5	-0.5	0.5	-0.5
V -5	3.5	-4.5	-2.5	0.0	0.0
V -6	-0.5	0.5	-0.5	0.0	0.5
VI -1	3.0	-3.0	0.5	-0.5	0.0
VI -2	3.0	-3.5	5.0	-1.0	0.5
VI -3	1.5	-1.5	1.5	-2.0	0.5
VI -4	-0.5	-0.5	6.5	6.5	0.0
VI -5	-2.5	2.5	-2.5	0.5	-1.0
VI -6	-0.5	5.5	-6.0	2.0	0.0
average	0.2	-0.3	-0.3	0.1	-0.1
s.d.	1.3	1.9	2.6	2.0	0.6

(cm in depth)

Stake No.	18 Nov. 2 Dec. (14)	2 Dec. 15 Dec. (13)	15 Dec. 1997 2 Jan. (18)	2 Jan. 15 Jan. (13)	20 Jan. 1997 15 Jan. 1998 (360)
I -1	0.5	-1.0	7.5	-0.5	12.0
I -2	0.0	0.5	0.0	-0 5	-1.5
I -3	0.0	0.0	0.0	-0.5	5.0
I -4	0.0	-0.5	1.0	-0.5	3.5
I -5	-0.5	-0.5	-1.0	0.0	9.0
I -6	-0.5	-0.5	-0.5	-0.5	9.0
II -1	-0.5	-1.0	3.0	-0.5	14.0
II -2	-0.5	5.0	-0.5	-0.5	6.0
II -3	0.5	-1.0	-5.0	-0.5	0.5
II -4	1.0	-0.5	9.5	-1.5	14.0
II -5	0.0	-0.5	0.5	-0.5	2.5
II -6	2.5	5.0	0.0	-0.5	11.5
III -1	0.0	5.0	0.0	-0.5	10.0
III -2	1.0	9.5	0.0	-0.5	9.0
III -3	-0.5	0.5	-0.5	-1.0	9.5
III -4	0.0	-1.0	-0.5	0.0	7.0
III -5	13.0	-6.5	0.5	-0.5	8.5
III -6	0.5	0.5	-1.0	0.0	5.5
IV -6	-0.5	-0.5	4.5	-1.0	2.0
IV -6	0.0	-1.0	-2.0	-0.5	-2.0
IV -6	1.0	-0.5	0.0	-1.0	1.5
IV -6	0.0	-0.5	1.0	-2.0	3.5
IV -6	-0.5	-0.5	6.5	-0.5	10.0
IV -6	-1.0	1.0	0.0	0.0	8.5
V -1	-0.5	-1.5	-0.5	-1.0	14.0
V -2	0.0	-1.0	0.0	-0.5	11.0
V -3	1.0	-1.5	-1.0	-0.5	8.5
V -4	0.0	0.5	2.0	-1.0	9.5
V -5	4.5	-1.5	1.5	-0.5	6.5
V -6	-0.5	-1.0	0.0	-0.5	2.5
VI -1	0.0	-1.0	0.5	-11.5	-6.5
VI -2	-1.0	-0.5	-0.5	-16.0	-8.5
VI -3	1.0	-1.5	1.5	-7.0	-1.5
VI -4	0.0	-0.5	-1.0	6.0	17.0
VI -5	1.0	7.5	-0.5	15.0	26.5
VI -6	0.5	-1.0	0.0	10.0	11.0
average	0.6	0.2	0.7	-0.6	6.9
s.d.	2.4	2.9	2.7	4.8	6.7

3. Surface snow density along the traverse route

Observers: Hideaki MOTOYAMA and Yuansheng LI

Surface snow density was measured during traverses 1-a, 1-c, 4-a and 4-b in Table 1-1. A cylindrical type snow sampler (80 mm in diameter, 200 mm in length) was used. The weight of snow in the sampler was measured using a spring balance. Total error of the snow density measurements is estimated to be on the order of 30 kg/m^3.

Table 3-1 shows surface snow density during traverses 1-a and 1-c. Table 3-2 shows density during traverses 3-a and 3-b. To select sites for measuring surface snow densities, we choose areas at which the surface snow conditions seem to be the most typical at the sites.

The surface snow densities along the traverse route have been published in Azuma *et al.* (1997) and Fujita *et al.* (1998).

References

AZUMA, N., KAMEDA, T., NAKAYAMA, Y., TANAKA, Y., YOSHIMI, H., FURUKAWA, T. and AGETA, Y. (1997): Glaciological data collected by the 36th Japanese Antarctic Research Expedition during 1995-1996. JARE Data Rep., 223 (Glaciology 26), 83p.

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Table 3-1. Surface snow density along the route from S16 to Dome Fuji.

Date	Site	Density(kg/m^3)
1996/12/29	S17	4.3E+02
1996/12/29	H3	3.8E+02
1996/12/30	H96	4.0E+02
1996/12/31	H212	4.1E+02
1997/1/1	H264	4.0E+02
1997/1/1	Z12	4.2E+02
1997/1/2	Z50	4.3E+02
1997/1/2	Z88	5.2E+02
1997/1/4	IM0	4.2E+02
1997/1/4	MD34	4.6E+02
1997/1/5	MD64	4.0E+02
1997/1/5	MD94	4.6E+02
1997/1/6	MD122	4.5E+02
1997/1/7	MD152	4.4E+02
1997/1/7	MD182	4.1E+02
1997/1/7	MD212	3.8E+02
1997/1/8	MD242	4.3E+02
1997/1/8	MD272	4.2E+02
1997/1/9	MD302	4.4E+02
1997/1/10	MD364	4.2E+02
1997/1/11	MD392	4.9E+02
1997/1/11	MD422	4.0E+02
1997/1/12	MD452	3.9E+02
1997/1/12	MD482	3.8E+02
1997/1/13	MD512	3.7E+02
1997/1/13	MD542	3.4E+02
1997/1/13	MD572	3.8E+02
1997/1/14	MD602	3.8E+02
1997/1/14	MD630	3.3E+02
1997/1/15	MD662	3.1E+02
1997/1/15	MD692	3.2E+02
1997/1/16	MD722	3.6E+02
1997/1/23	DF80	3.3E+02

Table 3-2a. Surface snow density around Dome Fuji Station.

Date	Site	Latitude(S)	Longitude(E)	Density(kg/m^3)
1997/11/22	DF 80	77 ° 22.4 '	39 ° 36.8 '	3.1E+02
1997/11/22	85	77 ° 22.8 '	39 ° 12.1 '	3.2E+02
1997/11/22	90	77 ° 22.7 '	38 ° 47.2 '	3.1E+02
1997/11/22	95	77 ° 22.5 '	38 ° 22.4 '	3.6E+02
1997/11/22	100	77 ° 22.3 '	37 ° 57.6 '	3.6E+02
1997/11/22	105	77 ° 22.2 '	37 ° 32.9 '	3.4E+02
1997/11/22	110	77 ° 22.4 '	37 ° 8.2 '	3.3E+02
1997/11/22	115	77 ° 22.4 '	36 ° 43.4 '	3.4E+02
1997/11/23	120	77 ° 22.3 '	36 ° 18.5 '	3.2E+02
1997/11/23	125	77 ° 22.4 '	35 ° 53.7 '	3.6E+02
1997/11/23	130	77 ° 22.2 '	35 ° 29.0 '	3.5E+02
1997/11/23	136	77 ° 22.3 '	34 ° 59.8 '	3.5E+02
1997/11/23	140	77 ° 15.8 '	35 ° 0.9 '	3.3E+02
1997/11/23	144	77 ° 9.3 '	35 ° 0.5 '	3.4E+02
1997/11/23	148	77 ° 2.7 '	34 ° 60.0 '	3.6E+02
1997/11/23	0	77 ° 0.0 '	34 ° 59.9 '	3.5E+02
1997/11/26	5	76 ° 60.0 '	35 ° 24.0 '	3.4E+02
1997/11/26	10	76 ° 60.0 '	35 ° 48.0 '	3.0E+02
1997/11/26	15	76 ° 59.8 '	36 ° 12.2 '	3.3E+02
1997/11/26	20	76 ° 59.6 '	36 ° 36.2 '	3.4E+02
1997/11/26	25	76 ° 59.3 '	37 ° 0.2 '	3.2E+02
1997/11/26	30	76 ° 58.9 '	37 ° 24.2 '	3.5E+02
1997/11/26	35	76 ° 58.7 '	37 ° 48.1 '	3.0E+02
1997/11/26	40	76 ° 58.5 '	38 ° 12.1 '	3.1E+02
1997/11/26	45	76 ° 58.1 '	38 ° 36.1 '	3.3E+02
1997/11/26	50	76 ° 58.1 '	39 ° 0.3 '	3.2E+02
1997/11/27	55	77 ° 3.3 '	38 ° 34.5 '	3.2E+02
1997/11/27	60	77 ° 7.5 '	38 ° 27.5 '	3.3E+02
1997/11/27	65	77 ° 11.2 '	38 ° 45.3 '	3.1E+02
1997/11/27	70	77 ° 14.6 '	39 ° 4.0 '	3.2E+02
1997/11/27	75	77 ° 18.1 '	39 ° 21.7 '	3.3E+02

Table 3-2b. Surface snow density around Dome Fuji Station .

Date	Site	Latitude(S)	Longitude(E)	Density(kg/m^3)
1997/12/8	1(DF80)	77 ° 22.4 '	39 ° 37.2 '	3.0E+02
1997/12/8	2	77 ° 23.2 '	40 ° 0.9 '	3.0E+02
1997/12/8	3	77 ° 23.8 '	40 ° 25.1 '	3.2E+02
1997/12/8	4	77 ° 24.5 '	40 ° 48.4 '	3.1E+02
1997/12/8	5	77 ° 25.2 '	41 ° 12.1 '	3.1E+02
1997/12/8	6(Fuji Divide)	77 ° 25.6 '	41 ° 28.7 '	3.1E+02
1997/12/8	7	77 ° 31.5 '	41 ° 28.8 '	3.1E+02
1997/12/8	8	77 ° 36.3 '	41 ° 24.9 '	3.1E+02
1997/12/8	9	77 ° 41.6 '	41 ° 20.4 '	3.1E+02
1997/12/8	10	77 ° 46.9 '	41 ° 17.6 '	2.9E+02
1997/12/8	11	77 ° 52.2 '	41 ° 14.2 '	3.3E+02
1997/12/8	12	77 ° 57.4 '	41 ° 11.4 '	3.2E+02
1997/12/8	13	78 ° 0.6 '	41 ° 10.2 '	3.1E+02
1997/12/9	14	78 ° 5.7 '	41 ° 5.7 '	3.1E+02
1997/12/9	15	78 ° 11.0 '	41 ° 0.8 '	2.5E+02
1997/12/9	16	78 ° 16.2 '	40 ° 56.3 '	3.2E+02
1997/12/9	17	78 ° 21.4 '	40 ° 52.6 '	3.2E+02
1997/12/9	18	78 ° 26.7 '	40 ° 50.1 '	3.1E+02
1997/12/9	19	78 ° 32.0 '	40 ° 47.4 '	3.4E+02
1997/12/9	20	78 ° 37.3 '	40 ° 45.5 '	3.2E+02
1997/12/9	21	78 ° 42.6 '	40 ° 43.2 '	3.1E+02
1997/12/9	22	78 ° 47.9 '	40 ° 40.5 '	2.9E+02
1997/12/9	23	78 ° 53.2 '	40 ° 38.4 '	3.1E+02
1997/12/9	24	78 ° 58.4 '	40 ° 35.8 '	3.0E+02
1997/12/9	25	79 ° 1.5 '	40 ° 35.0 '	3.0E+02
1997/12/10	26	79 ° 6.7 '	40 ° 32.8 '	3.1E+02
1997/12/10	27	79 ° 11.9 '	40 ° 31.1 '	3.4E+02
1997/12/10	28	79 ° 9.3 '	40 ° 55.9 '	2.9E+02
1997/12/10	29	79 ° 6.9 '	41 ° 20.9 '	3.1E+02
1997/12/10	32	79 ° 0.1 '	42 ° 30.1 '	3.2E+02
1997/12/18	33	78 ° 55.2 '	42 ° 17.7 '	3.2E+02
1997/12/18	34	78 ° 50.4 '	42 ° 6.0 '	3.2E+02
1997/12/18	35	78 ° 45.7 '	41 ° 53.9 '	3.2E+02
1997/12/18	36	78 ° 40.8 '	41 ° 42.1 '	3.2E+02
1997/12/18	37	78 ° 36.1 '	41 ° 30.1 '	3.2E+02
1997/12/18	45	78 ° 31.3 '	41 ° 18.1 '	3.2E+02
1997/12/18	46	78 ° 26.5 '	41 ° 6.1 '	3.1E+02
1997/12/18	47	78 ° 21.8 '	40 ° 54.3 '	3.1E+02
1997/12/18	48	78 ° 17.1 '	40 ° 42.6 '	3.1E+02
1997/12/18	49	78 ° 12.2 '	40 ° 30.6 '	3.3E+02
1997/12/18	50	78 ° 7.5 '	40 ° 18.7 '	3.1E+02
1997/12/18	51	78 ° 2.8 '	40 ° 6.8 '	3.2E+02
1997/12/18	52	77 ° 59.9 '	39 ° 59.8 '	2.9E+02
1997/12/20	53	77 ° 54.9 '	39 ° 53.4 '	3.3E+02
1997/12/20	54	77 ° 49.8 '	39 ° 54.0 '	3.3E+02
1997/12/20	55	77 ° 44.5 '	39 ° 50.3 '	3.3E+02
1997/12/20	56	77 ° 39.2 '	39 ° 47.5 '	3.2E+02
1997/12/20	57	77 ° 33.9 '	39 ° 44.0 '	3.2E+02
1997/12/20	58	77 ° 28.6 '	39 ° 40.9 '	3.4E+02
1997/12/20	59	77 ° 23.4 '	39 ° 37.7 '	3.3E+02

4. Snow temperature data at Dome Fuji Station

Snow temperature at Dome Fuji Station was measured at depths of 0.01, 0.1, 0.2, 0.5, 1, 2, 5 and 10 m using platinum 100 ohm resistance sensors (3-wire type) with data loggers (Datamark LS-3000PtV, Hakusan Co. and KADEC-US6, Kona System Co.). JARE-36 started the measurements in 1995 (AZUMA *et al.*, 1997). JARE-37 and JARE–38 continued in 1996 and 1997 (FUJITA *et al.*, 1998). The distance between the station and snow temperature measurement sites was about 50 m (see Figure 5 in AZUMA *et al.*, 1997). Snow sometimes accumulated on sensors, thus, sensor depth changed. The resulting changes of surface level were measured with snow stake as in JARE-37. This procedure is different from the JARE-36 observations. Data were recorded at 10-minute intervals. Maximum resolution of snow temperature was 0.1℃. The temperature resolution at depths of 1, 2, 5 and 10 m was changed from 0.1 to 0.01 ℃ after 15 April 1997. The data logger was set in the room of Dome Fuji Station, where the temperature was about 20℃.

Table 4-1 shows the changes in snow surface level. Table 4-2 shows the snow temperature data at Dome Fuji Station at 12 hour intervals.

References

AZUMA, N., KAMEDA, T., NAKAYAMA, Y., TANAKA, Y., YOSHIMI, H., FURUKAWA, T. and AGETA, Y. (1997): Glaciological data collected by the 36th Japanese Antarctic Research Expedition during 1995-1996. JARE Data Rep., 223 (Glaciology 26), 83p.

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Table 4-1. Changes in snow surface level at the site of snow temperature measurement, Dome Fuji Station.

date	accumulation (cm)
Jan. 3, 1997	11.5
Jan. 20	12.5
Feb. 4	13.5
Feb. 17	13.8
Mar. 1	15.0
Mar. 15	15.7
Apr. 1	16.4
Apr. 17	14.0
May. 1	15.0
May.15	14.7
Jun. 4	15.0
Jun. 16	17.5
Jul. 6	30.4

date	accumulation (cm)
Jul. 20	30.5
Aug. 7	30.0
Aug. 19	30.3
Sep. 4	31.0
Sep. 20	29.9
Oct. 1	30.5
Oct. 15	30.5
Nov. 4	29.5
Nov. 18	29.5
Dec. 2	29.0
Jan. 2, 1998	27.5
Jan. 15	27.0

Surface level on 15th January 1996 was an initial one.

Table 4-2. Snow temperature at Dome Fuji Station from 5 January 1997 to 17 January 1998.

Date	LT	0.01m (°C)	0.1m (°C)	0.2m (°C)	0.5m (°C)	1.0m (°C)	2.0m (°C)	5.0m (°C)	10.0m (°C)
Jan. 5	00:00	-34.6	-37.3	-38.3	-43.1	-46.4	-53.2	-58.1	-57.5
5	12:00	-35.8	-37.4	-38.2	-43.0	-46.4	-53.2	-58.1	-57.5
6	00:00	-34.7	-37.3	-38.3	-43.0	-46.3	-53.1	-58.1	-57.5
6	12:00	-36.0	-37.4	-38.3	-43.0	-46.3	-53.0	-58.1	-57.5
7	00:00	-34.4	-37.3	-38.3	-42.9	-46.2	-52.9	-58.1	-57.5
7	12:00	-36.2	-37.4	-38.2	-42.9	-46.1	-52.8	-58.1	-57.5
8	00:00	-35.0	-37.3	-38.3	-42.9	-46.1	-52.8	-58.0	-57.5
8	12:00	-36.9	-37.6	-38.3	-42.9	-46.0	-52.7	-58.0	-57.5
9	00:00	-35.6	-37.6	-38.5	-42.9	-46.0	-52.6	-58.0	-57.5
9	12:00	-36.7	-37.8	-38.5	-42.9	-45.9	-52.6	-58.0	-57.5
10	00:00	-35.4	-37.7	-38.6	-42.9	-45.8	-52.5	-58.0	-57.5
10	12:00	-36.2	-37.7	-38.6	-42.9	-45.8	-52.5	-58.0	-57.5
11	00:00	-35.0	-37.4	-38.5	-42.9	-45.8	-52.4	-58.0	-57.5
11	12:00	-36.6	-37.6	-38.4	-42.8	-45.8	-52.4	-57.9	-57.5
12	00:00	-35.6	-37.6	-38.5	-42.8	-45.8	-52.3	-57.9	-57.5
12	12:00	-37.4	-37.9	-38.6	-42.8	-45.7	-52.2	-57.9	-57.5
13	00:00	-36.0	-37.9	-38.7	-42.7	-45.7	-52.2	-57.9	-57.5
13	12:00	-37.6	-38.1	-38.8	-42.8	-45.6	-52.1	-57.9	-57.5
14	00:00	-36.1	-38.1	-38.9	-42.7	-45.6	-52.0	-57.8	-57.5
14	12:00	-37.4	-38.2	-38.9	-42.8	-45.6	-52.0	-57.8	-57.5
15	00:00	-35.9	-38.1	-38.9	-42.8	-45.5	-51.9	-57.8	-57.5
15	12:00	-36.6	-38.1	-38.9	-42.8	-45.5	-51.9	-57.8	-57.5
16	00:00	-35.5	-37.8	-38.8	-42.8	-45.5	-51.8	-57.8	-57.5
16	12:00	-36.8	-38.0	-38.7	-42.7	-45.5	-51.8	-57.8	-57.5
17	00:00	-34.9	-37.7	-38.7	-42.7	-45.4	-51.8	-57.8	-57.5
17	12:00	-35.9	-37.5	-38.5	-42.7	-45.4	-51.7	-57.8	-57.5
18	00:00	-35.3	-37.4	-38.4	-42.6	-45.4	-51.7	-57.8	-57.5
18	12:00	-37.4	-37.8	-38.4	-42.6	-45.3	-51.6	-57.8	-57.5
19	00:00	-36.2	-37.9	-38.7	-42.5	-45.3	-51.6	-57.8	-57.5
19	12:00	-37.8	-38.1	-38.8	-42.5	-45.2	-51.5	-57.7	-57.5
20	00:00	-36.8	-38.2	-38.9	-42.5	-45.2	-51.4	-57.7	-57.5
20	12:00	-38.5	-38.6	-39.0	-42.5	-45.1	-51.4	-57.7	-57.5
21	00:00	-37.4	-38.7	-39.3	-42.6	-45.1	-51.3	-57.7	-57.5
21	12:00	-39.1	-39.0	-39.4	-42.6	-45.1	-51.3	-57.7	-57.5
22	00:00	-37.8	-39.0	-39.7	-42.6	-45.1	-51.2	-57.6	-57.5
22	12:00	-39.3	-39.4	-39.7	-42.7	-45.1	-51.2	-57.6	-57.5
23	00:00	-37.4	-39.3	-39.8	-42.7	-45.1	-51.1	-57.6	-57.5
23	12:00	-37.8	-39.1	-39.7	-42.8	-45.1	-51.1	-57.6	-57.5
24	00:00	-36.4	-38.8	-39.6	-42.8	-45.1	-51.1	-57.6	-57.5
24	12:00	-38.0	-38.8	-39.4	-42.8	-45.1	-51.1	-57.6	-57.5
25	00:00	-36.5	-38.7	-39.5	-42.8	-45.1	-51.0	-57.5	-57.5
25	12:00	-37.0	-38.6	-39.3	-42.8	-45.1	-51.0	-57.5	-57.5
26	00:00	-36.1	-38.2	-39.2	-42.7	-45.1	-51.0	-57.5	-57.5
26	12:00	-38.0	-38.4	-39.1	-42.7	-45.1	-50.9	-57.5	-57.5
27	00:00	-36.8	-38.5	-39.2	-42.7	-45.1	-50.9	-57.5	-57.5

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
27	12:00	-38.1	-38.7	-39.2	-42.6	-45.1	-50.8	-57.5	-57.5
28	00:00	-37.3	-38.7	-39.4	-42.6	-45.0	-50.8	-57.4	-57.5
28	12:00	-38.9	-39.0	-39.5	-42.6	-45.0	-50.7	-57.4	-57.5
29	00:00	-37.6	-39.1	-39.7	-42.6	-45.0	-50.7	-57.4	-57.5
29	12:00	-39.1	-39.3	-39.7	-42.7	-45.0	-50.7	-57.4	-57.5
30	00:00	-38.1	-39.3	-39.8	-42.7	-45.0	-50.6	-57.3	-57.5
30	12:00	-40.0	-39.7	-40.0	-42.7	-45.0	-50.6	-57.3	-57.5
31	00:00	-38.9	-39.8	-40.3	-42.8	-45.0	-50.6	-57.3	-57.5
31	12:00	-41.2	-40.3	-40.5	-42.9	-45.0	-50.5	-57.3	-57.5
Feb. 1	00:00	-39.8	-40.6	-40.8	-42.9	-45.0	-50.5	-57.3	-57.5
1	12:00	-41.4	-40.8	-41.0	-42.9	-45.0	-50.4	-57.2	-57.5
2	00:00	-39.7	-100.0	-41.2	-43.0	-45.0	-50.4	-57.2	-57.5
2	12:00	-40.9	-100.0	-41.2	-43.1	-45.0	-50.4	-57.2	-57.5
3	00:00	-39.7	-40.9	-41.3	-43.2	-45.0	-50.3	-57.2	-57.5
3	12:00	-41.3	-41.1	-41.4	-43.3	-45.1	-50.3	-57.2	-57.5
4	00:00	-39.4	-41.0	-41.4	-43.4	-45.1	-50.3	-57.2	-57.5
4	12:00	-39.2	-40.7	-41.3	-43.4	-45.1	-50.3	-57.1	-57.5
5	00:00	-37.7	-40.2	-41.0	-43.5	-45.1	-50.3	-57.1	-57.5
5	12:00	-39.5	-40.1	-40.7	-43.5	-45.1	-50.3	-57.1	-57.5
6	00:00	-39.0	-40.2	-40.7	-43.4	-45.1	-50.2	-57.1	-57.5
6	12:00	-40.9	-40.6	-40.9	-43.4	-45.1	-50.2	-57.0	-57.5
7	00:00	-39.8	-40.7	-41.2	-43.4	-45.1	-50.2	-57.0	-57.5
7	12:00	-41.8	-41.2	-41.3	-43.5	-45.2	-50.2	-57.0	-57.5
8	00:00	-40.6	-41.3	-41.6	-43.5	-45.2	-50.1	-57.0	-57.5
8	12:00	-42.3	-41.7	-41.8	-43.6	-45.2	-50.1	-57.0	-57.5
9	00:00	-40.9	-41.7	-42.0	-43.6	-45.2	-50.1	-57.0	-57.5
9	12:00	-42.0	-41.9	-42.1	-43.6	-45.2	-50.1	-57.0	-57.5
10	00:00	-41.0	-41.8	-42.1	-43.7	-45.2	-50.1	-57.0	-57.5
10	12:00	-42.7	-42.1	-42.2	-43.8	-45.3	-50.0	-57.0	-57.5
11	00:00	-41.6	-42.2	-42.5	-43.9	-45.3	-50.0	-56.9	-57.5
11	12:00	-43.3	-42.6	-42.6	-43.9	-45.3	-50.0	-56.9	-57.5
12	00:00	-42.1	-42.7	-42.9	-44.0	-45.4	-50.0	-56.9	-57.5
12	12:00	-43.4	-42.9	-42.9	-44.1	-45.4	-50.0	-56.9	-57.5
13	00:00	-41.9	-42.9	-43.1	-44.2	-45.5	-50.0	-56.9	-57.5
13	12:00	-42.7	-42.9	-43.0	-44.3	-45.5	-49.9	-56.8	-57.5
14	00:00	-41.8	-42.7	-43.0	-44.3	-45.6	-49.9	-56.8	-57.5
14	12:00	-43.7	-43.0	-43.1	-44.4	-45.6	-49.9	-56.8	-57.5
15	00:00	-42.7	-43.1	-43.3	-44.4	-45.7	-49.9	-56.8	-57.5
15	12:00	-44.3	-43.5	-43.5	-44.5	-45.7	-49.9	-56.8	-57.5
16	00:00	-43.2	-43.6	-43.6	-44.6	-45.8	-49.9	-56.7	-57.5
16	12:00	-45.0	-43.9	-43.8	-44.7	-45.8	-49.9	-56.7	-57.6
17	00:00	-44.0	-44.1	-44.1	-44.8	-45.8	-49.8	-56.7	-57.6
17	12:00	-45.8	-44.4	-44.3	-44.9	-45.8	-49.8	-56.7	-57.5
18	00:00	-44.5	-44.6	-44.5	-45.0	-45.8	-49.8	-56.6	-57.5
18	12:00	-45.8	-44.9	-44.7	-45.1	-45.9	-49.8	-56.6	-57.5

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
19	00:00	-44.3	-44.8	-44.9	-45.1	-46.0	-49.8	-56.6	-57.5
19	12:00	-45.8	-45.0	-44.9	-45.3	-46.0	-49.8	-56.6	-57.5
20	00:00	-45.1	-45.1	-45.1	-45.4	-46.1	-49.8	-56.6	-57.5
20	12:00	-46.6	-45.4	-45.2	-45.5	-46.2	-49.8	-56 6	-57.5
21	00:00	-45.7	-45.6	-45.5	-45.6	-46.2	-49.8	-56.5	-57.6
21	12:00	-47.3	-45.9	-45.7	-45.7	-46.3	-49.8	-56.5	-57.5
22	00:00	-46.5	-46.1	-45.9	-45.8	-46.4	-49.8	-56.5	-57.5
22	12:00	-47.7	-46.4	-46.1	-45.9	-46.5	-49.8	-56.5	-57.5
23	00:00	-47.1	-46.6	-46.4	-46.0	-46.5	-49.8	-56.5	-57.5
23	12:00	-48.8	-47.0	-46.6	-46.2	-46.6	-49.8	-56.4	-57.5
24	00:00	-48.1	-47.3	-46.9	-46.3	-46.6	-49.8	-56.4	-57.5
24	12:00	-49.6	-47.7	-47.2	-46.5	-46.7	-49.8	-56.4	-57.5
25	00:00	-49.5	-48.1	-47.6	-46.6	-46.8	-49.8	-56.4	-57.5
25	12:00	-51.1	-48.6	-48.0	-46.7	-46.9	-49.8	-56.3	-57.5
26	00:00	-50.2	-49.0	-48.4	-47.0	-47.0	-49.8	-56.3	-57.5
26	12:00	-51.2	-49.3	-48.7	-47.2	-47.1	-49.8	-56.3	-57.5
27	00:00	-50.1	-49.5	-48.9	-47.3	-47.2	-49.8	-56.3	-57.5
27	12:00	-49.9	-49.3	-49.0	-47.5	-47.3	-49.8	-56.3	-57.5
28	00:00	-48.5	-49.0	-48.8	-47.7	-47.4	-49.9	-56.3	-57.5
28	12:00	-48.8	-48.8	-48.7	-47.8	-47.5	-49.9	-56.3	-57.5
Mar. 1	00:00	-47.7	-48.4	-48.5	-47.9	-47 6	-49.9	-56.3	-57.5
1	12:00	-48.5	-48.3	-48.3	-48.0	-47.7	-49.9	-56.3	-57.5
2	00:00	-48.1	-48.2	-48.2	-48.0	-47.9	-50.0	-56.3	-57.5
2	12:00	-49.7	-48.5	-48.3	-48.0	-47.9	-50.0	-56.3	-57.5
3	00:00	-49.4	-48.8	-48.6	-48.1	-48.0	-50.0	-56.2	-57.5
3	12:00	-50.7	-49.1	-48.8	-48.1	-48.1	-50.0	-56.2	-57.5
4	00:00	-50.5	-49.5	-49.1	-48.2	-48.1	-50.0	-56.2	-57.5
4	12:00	-51.7	-49.8	-49.4	-48.3	-48.2	-50.1	-56.2	-57.5
5	00:00	-51.1	-50.1	-49.7	-48.4	-48.2	-50.1	-56.2	-57.5
5	12:00	-52.1	-50.4	-49.9	-48.6	-48.3	-50.1	-56.1	-57.5
6	00:00	-51.2	-50.5	-50.2	-48.7	-48.4	-50.1	-56.1	-57.5
6	12:00	-52.0	-50.7	-50.3	-48.8	-48.5	-50.2	-56.1	-57.5
7	00:00	-51.4	-50.8	-50.3	-49.0	-48.6	-50.2	-56.1	-57.5
7	12:00	-52.5	-51.0	-50.5	-49.1	-48.7	-50.2	-56.1	-57.5
8	00:00	-52.4	-51.1	-50.7	-49.2	-48.8	-50.3	-56.1	-57.5
8	12:00	-53.6	-51.6	-51.0	-49.4	-48.8	-50.3	-56.0	-57.5
9	00:00	-53.2	-51.9	-51.3	-49.5	-48.9	-50.3	-56.0	-57.5
9	12:00	-53.4	-52.0	-51.5	-49.6	-49.0	-50.3	-56.0	-57.5
10	00:00	-52.9	-52.0	-51.6	-49.8	-49.1	-50.3	-56.0	-57.5
10	12:00	-53.6	-52.2	-51.7	-49.9	-49.2	-50.3	-56.0	-57.5
11	00:00	-53.3	-52.3	-51.8	-50.1	-49.3	-50.3	-56.0	-57.5
11	12:00	-53.3	-52.4	-51.9	-50.2	-49.5	-50.4	-56.0	-57.5
12	00:00	-52.8	-52.3	-52.0	-50.3	-49.6	-50.4	-55.9	-57.5
12	12:00	-53.4	-52.3	-52.0	-50.4	-49.6	-50.4	-55.9	-57.5
13	00:00	-53.2	-52.4	-52.1	-50.5	-49.7	-50.5	-55.9	-57.5

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
13	12:00	-54.0	-52.5	-52.2	-50.6	-49.8	-50.5	-55.9	-57.5
14	00:00	-54.0	-52.8	-52.4	-50.7	-49.9	-50.5	-55.9	-57.5
14	12:00	-55.0	-53.1	-52.5	-50.8	-50.0	-50.6	-55.8	-57.5
15	00:00	-54.9	-53.4	-52.8	-50.9	-50.1	-50.6	-55.8	-57.5
15	12:00	-56.0	-53.8	-53.2	-51.1	-50.2	-50.7	-55.8	-57.5
16	00:00	-55.7	-54.1	-53.4	-51.2	-50.3	-50.7	-55.8	-57.5
16	12:00	-56.6	-54.4	-53.7	-51.3	-50.3	-50.8	-55.8	-57.5
17	00:00	-56.4	-54.8	-54.0	-51.5	-50.4	-50.8	-55.8	-57.5
17	12:00	-57.5	-55.1	-54.3	-51.7	-50.5	-50.8	-55.8	-57.5
18	00:00	-57.0	-55.4	-54.6	-51.8	-50.7	-50.9	-55.7	-57.5
18	12:00	-57.3	-55.5	-54.8	-52.0	-50.8	-50.9	-55.7	-57.5
19	00:00	-57.0	-55.6	-54.9	-52.2	-50.9	-51.0	-55.7	-57.5
19	12:00	-57.7	-55.8	-55.1	-52.4	-51.1	-51.0	-55.7	-57.5
20	00:00	-57.2	-55.9	-55.3	-52.5	-51.1	-51.1	-55.7	-57.5
20	12:00	-57.4	-55.9	-55.3	-52.6	-51.2	-51.1	-55.7	-57.5
21	00:00	-57.1	-55.9	-55.4	-52.8	-51.4	-51.1	-55.7	-57.5
21	12:00	-57.8	-56.1	-55.5	-52.9	-51.5	-51.1	-55.7	-57.5
22	00:00	-57.1	-56.1	-55.5	-53.0	-51.6	-51.1	-55.6	-57.5
22	12:00	-57.9	-56.3	-55.6	-53.2	-51.7	-51.2	-55.6	-57.5
23	00:00	-57.5	-56.3	-55.8	-53.3	-51.8	-51.2	-55.6	-57.5
23	12:00	-57.8	-56.4	-55.8	-53.3	-51.9	-51.3	-55.6	-57.5
24	00:00	-57.8	-56.4	-55.9	-53.4	-52.0	-51.3	-55.6	-57.5
24	12:00	-58.5	-56.7	-56.1	-53.5	-52.1	-51.4	-55.6	-57.5
25	00:00	-58.6	-57.0	-56.3	-53.7	-52.2	-51.5	-55.6	-57.5
25	12:00	-59.7	-57.3	-56.5	-53.8	-52.3	-51.5	-55.5	-57.5
26	00:00	-59.5	-57.7	-56.9	-54.0	-52.4	-51.6	-55.5	-57.4
26	12:00	-59.6	-57.8	-57.0	-54.0	-52.5	-51.6	-55.5	-57.5
27	00:00	-59.3	-57.9	-57.2	-54.2	-52.6	-51.7	-55.5	-57.5
27	12:00	-59.5	-57.9	-57.3	-54.4	-52.7	-51.7	-55.5	-57.5
28	00:00	-59.3	-57.9	-57.4	-54.5	-52.8	-51.8	-55.5	-57.4
28	12:00	-60.0	-58.1	-57.4	-54.6	-52.9	-51.8	-55.5	-57.4
29	00:00	-60.3	-58.4	-57.7	-54.7	-53.1	-51.8	-55.5	-57.5
29	12:00	-61.1	-58.7	-57.9	-54.8	-53.2	-51.9	-55.5	-57.4
30	00:00	-61.0	-59.0	-58.2	-55.0	-53.3	-51.9	-55.5	-57.5
30	12:00	-61.3	-59.3	-58.5	-55.1	-53.3	-52.0	-55.5	-57.4
31	00:00	-61.3	-59.4	-58.6	-55.3	-53.4	-52.0	-55.5	-57.4
31	12:00	-61.9	-59.7	-58.8	-55.5	-53.6	-52.1	-55.5	-57.4
Apr. 1	00:00	-62.2	-60.0	-59.1	-55.6	-53.7	-52.1	-55.5	-57.4
1	12:00	-62.9	-60.3	-59.4	-55.7	-53.8	-52.2	-55.5	-57.4
2	00:00	-63.1	-60.6	-59.7	-55.9	-54.0	-52.3	-55.5	-57.4
2	12:00	-63.3	-61.0	-60.0	-56.1	-54.0	-52.3	-55.5	-57.4
3	00:00	-63.1	-61.1	-60.2	-56.3	-54.1	-52.4	-55.5	-57.4
3	12:00	-63.7	-61.3	-60.4	-56.5	-54.3	-52.5	-55.5	-57.4
4	00:00	-63.7	-61.5	-60.6	-56.6	-54.5	-52.5	-55.5	-57.4
4	12:00	-63.4	-61.7	-60.7	-56.8	-54.6	-52.5	-55.4	-57.4

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
5	00:00	-62.2	-61.4	-60.7	-57.0	-54.8	-52.5	-55.5	-57.4
5	12:00	-61.4	-61.0	-60.5	-57.1	-54.8	-52.6	-55.4	-57.4
6	00:00	-61.5	-60.6	-60.2	-57.2	-54.9	-52.7	-55.4	-57.4
6	12:00	-62.2	-60.7	-60.1	-57.2	-55.1	-52.7	-55.4	-57.4
7	00:00	-62.0	-60.8	-60.2	-57.3	-55.2	-52.8	-55.4	-57.4
7	12:00	-61.9	-60.7	-60.2	-57.3	-55.3	-52.9	-55.4	-57.4
8	00:00	-62.2	-60.8	-60.2	-57.4	-55.4	-52.9	-55.4	-57.4
8	12:00	-62.1	-60.9	-60.3	-57.5	-55.5	-53.0	-55.4	-57.4
9	00:00	-62.6	-60.9	-60.4	-57.5	-55.5	-53.1	-55.4	-57.4
9	12:00	-63.5	-61.3	-60.6	-57.6	-55.6	-53.2	-55.4	-57.4
10	00:00	-64.2	-61.8	-60.9	-57.7	-55.7	-53.2	-55.4	-57.4
10	12:00	-64.6	-62.2	-61.3	-57.8	-55.8	-53.3	-55.4	-57.4
11	00:00	-63.6	-62.3	-61.5	-57.9	-55.9	-53.3	-55.4	-57.4
11	12:00	-63.5	-62.1	-61.4	-58.1	-56.0	-53.3	-55.4	-57.4
12	00:00	-63.3	-62.1	-61.4	-58.2	-56.1	-53.4	-55.4	-57.4
12	12:00	-63.1	-62.0	-61.4	-58.3	-56.2	-53.5	-55.4	-57.4
13	00:00	-63.2	-61.9	-61.3	-58.4	-56.3	-53.5	-55.3	-57.4
13	12:00	-63.4	-62.0	-61.4	-58.5	-56.3	-53.6	-55.3	-57.4
14	00:00	-63.8	-62.1	-61.5	-58.5	-56.4	-53.7	-55.3	-57.4
14	12:00	-64.3	-62.4	-61.7	-58.5	-56.5	-53.7	-55.3	-57.4
15	00:00	-64.8	-62.7	-61.9	-58.6	-56.6	-53.8	-55.3	-57.4
15	12:00	-65.3	-63.1	-62.2	-58.8	-55.90	-53.12	-54.44	-56.37
16	00:00	-65.4	-63.3	-62.4	-58.9	-55.82	-53.03	-54.37	-56.33
16	12:00	-65.2	-63.4	-62.6	-59.0	-55.96	-53.07	-54.38	-56.36
17	00:00	-65.4	-63.5	-62.7	-59.2	-55.98	-53.15	-54.35	-56.33
17	12:00	-66.1	-63.8	-62.8	-59.3	-56.06	-53.20	-54.37	-56.36
18	00:00	-66.6	-64.0	-63.2	-59.4	-56.16	-53.25	-54.36	-56.32
18	12:00	-67.6	-64.6	-63.5	-59.5	-56.26	-53.29	-54.36	-56.33
19	00:00	-67.9	-65.1	-64.0	-59.7	-56.34	-53.34	-54.37	-56.32
19	12:00	-66.1	-65.0	-64.1	-59.9	-56.39	-53.39	-54.39	-56.30
20	00:00	-65.0	-64.5	-63.9	-60.0	-56.51	-53.47	-54.38	-56.33
20	12:00	-64.5	-64.0	-63.5	-60.1	-56.68	-53.52	-54.34	-56.32
21	00:00	-64.1	-63.7	-63.3	-60.2	-56.71	-53.64	-54.34	-56.33
21	12:00	-62.9	-63.2	-62.9	-60.2	-56.91	-53.73	-54.29	-56.37
22	00:00	-63.0	-62.7	-62.5	-60.2	-57.05	-53.75	-54.39	-56.29
22	12:00	-63.8	-62.7	-62.3	-60.1	-57.01	-53.74	-54.39	-56.28
23	00:00	-64.5	-63.0	-62.5	-60.1	-57.10	-53.73	-54.47	-56.15
23	12:00	-65.1	-63.3	-62.6	-60.1	-57.07	-53.84	-54.32	-56.33
24	00:00	-65.2	-63.5	-62.9	-60.1	-57.17	-53.97	-54.41	-56.33
24	12:00	-64.3	-63.5	-62.9	-60.2	-57.23	-54.00	-54.33	-56.29
25	00:00	-63.4	-63.2	-62.8	-60.2	-57.24	-54.03	-54.37	-56.37
25	12:00	-63.6	-62.9	-62.6	-60.3	-57.29	-54.07	-54.37	-56.28
26	00:00	-64.0	-62.9	-62.5	-60.2	-57.33	-54.21	-54.34	-56.31
26	12:00	-64.0	-63.0	-62.6	-60.3	-57.36	-54.18	-54.36	-56.29
27	00:00	-62.9	-62.8	-62.5	-60.3	-57.48	-54.39	-54.47	-56.15

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
27	12:00	-62.6	-62.5	-62.2	-60.3	-57.46	-54.32	-54.35	-56.28
28	00:00	-60.2	-61.9	-61.9	-60.3	-57.55	-54.30	-54.52	-56.26
28	12:00	-58.3	-60.7	-61.2	-60.2	-57.76	-54.43	-54.25	-56.27
29	00:00	-57.9	-59.7	-60.2	-60.0	-57.58	-54.37	-54.22	-56.45
29	12:00	-58.2	-59.3	-59.7	-59.9	-57.41	-54.57	-54.25	-56.29
30	00:00	-59.5	-59.3	-59.5	-59.7	-57.54	-54.51	-54.36	-56.23
30	12:00	-60.6	-59.8	-59.7	-59.5	-57.48	-54.70	-54.31	-56.33
May 1	00:00	-61.6	-60.2	-60.0	-59.3	-57.38	-54.65	-54.33	-56.28
1	12:00	-63.1	-60.8	-60.4	-59.3	-57.37	-54.70	-54.35	-56.30
2	00:00	-63.8	-61.6	-60.9	-59.3	-57.21	-54.60	-54.33	-56.21
2	12:00	-63.8	-62.0	-61.3	-59.3	-57.39	-54.77	-54.48	-56.09
3	00:00	-63.2	-62.1	-61.6	-59.5	-57.46	-54.67	-54.54	-56.21
3	12:00	-63.4	-62.1	-61.7	-59.6	-57.15	-55.02	-54.20	-56.12
4	00:00	-64.0	-62.4	-61.8	-59.7	-57.37	-55.03	-54.52	-56.29
4	12:00	-64.3	-62.6	-62.0	-59.8	-57.52	-55.09	-54.24	-56.25
5	00:00	-64.3	-62.8	-62.2	-59.9	-57.57	-54.82	-54.57	-56.22
5	12:00	-64.4	-63.0	-62.4	-60.0	-57.47	-55.15	-54.48	-56.29
6	00:00	-64.6	-63.1	-62.5	-60.0	-57.48	-55.09	-54.47	-56.17
6	12:00	-64.9	-63.3	-62.6	-60.1	-57.56	-55.07	-54.40	-56.22
7	00:00	-66.0	-63.6	-62.9	-60.2	-57.59	-55.17	-54.36	-56.22
7	12:00	-67.0	-64.2	-63.3	-60.3	-57.67	-55.13	-54.40	-56.21
8	00:00	-67.6	-64.8	-63.8	-60.5	-57.62	-55.05	-54.41	-56.13
8	12:00	-67.6	-65.3	-64.2	-60.6	-57.78	-55.21	-54.40	-56.23
9	00:00	-67.7	-65.4	-64.5	-60.8	-57.90	-55.26	-54.50	-56.27
9	12:00	-67.9	-65.6	-64.7	-61.0	-57.96	-55.24	-54.43	-56.24
10	00:00	-68.1	-65.9	-64.9	-61.2	-58.06	-55.20	-54.48	-56.22
10	12:00	-68.5	-66.2	-65.2	-61.3	-58.13	-55.32	-54.43	-56.22
11	00:00	-68.7	-66.4	-65.4	-61.5	-58.28	-55.37	-54.51	-56.14
11	12:00	-68.4	-66.5	-65.6	-61.7	-58.36	-55.38	-54.50	-56.18
12	00:00	-68.4	-66.6	-65.7	-61.9	-58.44	-55.40	-54.44	-56.20
12	12:00	-67.6	-66.5	-65.7	-61.9	-58.57	-55.46	-54.44	-56.20
13	00:00	-65.2	-65.8	-65.4	-62.1	-58.71	-55.61	-54.36	-56.16
13	12:00	-64.3	-64.9	-64.7	-62.1	-58.79	-55.56	-54.48	-56.18
14	00:00	-65.6	-64.6	-64.3	-62.1	-58.89	-55.59	-54.47	-56.19
14	12:00	-66.4	-64.9	-64.4	-62.0	-58.96	-55.63	-54.49	-56.20
15	00:00	-67.4	-65.3	-64.7	-62.0	-58.97	-55.68	-54.48	-56.17
15	12:00	-68.1	-65.8	-64.9	-62.0	-59.11	-55.88	-54.62	-56.04
16	00:00	-68.4	-66.2	-65.3	-62.1	-59.09	-55.74	-54.49	-56.19
16	12:00	-68.6	-66.5	-65.6	-62.2	-59.07	-55.86	-54.41	-56.02
17	00:00	-68.6	-66.7	-65.8	-62.4	-59.25	-55.88	-54.45	-56.21
17	12:00	-68.5	-66.8	-66.0	-62.5	-59.16	-55.98	-54.34	-56.31
18	00:00	-68.0	-66.8	-66.0	-62.6	-59.38	-56.01	-54.69	-56.34
18	12:00	-67.8	-66.6	-65.9	-62.6	-59.38	-55.90	-54.50	-56.01
19	00:00	-68.5	-66.7	-66.0	-62.7	-59.61	-56.15	-54.60	-56.29
19	12:00	-68.5	-66.8	-66.1	-62.8	-59.46	-56.21	-54.44	-56.27

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
20	00:00	-68.2	-66.8	-66.2	-62.9	-59.65	-56.11	-54.53	-56.16
20	12:00	-68.2	-66.8	-66.2	-63.0	-59.72	-56.16	-54.54	-56.17
21	00:00	-68.4	-66.8	-66.2	-63.1	-59.80	-56.23	-54.54	-56.16
21	12:00	-68.5	-66.9	-66.2	-63.1	-59.84	-56.24	-54.57	-56.15
22	00:00	-67.5	-66.8	-66.3	-63.2	-59.98	-56.32	-54.50	-56.11
22	12:00	-66.2	-66.3	-66.0	-63.3	-59.96	-56.30	-54.55	-56.16
23	00:00	-66.7	-66.0	-65.6	-63.3	-60.10	-56.46	-54.61	-56.06
23	12:00	-67.5	-66.1	-65.6	-63.3	-60.26	-56.57	-54.74	-56.26
24	00:00	-67.4	-66 2	-65.7	-63.2	-60.18	-56 55	-54.50	-56.03
24	12:00	-66.7	-66.2	-65.7	-63.2	-60.02	-56.46	-54.64	-56.06
25	00:00	-66.3	-65.9	-65.5	-63.3	-60.36	-56 61	-54.55	-56.13
25	12:00	-66.6	-65.8	-65.4	-63.3	-60.21	-56.65	-54.60	-56.12
26	00:00	-66.5	-65.7	-65.4	-63.2	-60.41	-56.70	-54.58	-56.11
26	12:00	-66.8	-65.7	-65.4	-63.2	-60.29	-56.74	-54.57	-56.15
27	00:00	-66.7	-65.8	-65.4	-63.2	-60.53	-56.95	-54.72	-56.00
27	12:00	-65.7	-65.6	-65.3	-63.2	-60.36	-56.80	-54.77	-55.94
28	00:00	-65.5	-65.3	-65.0	-63.2	-60.37	-56.84	-54.67	-56.14
28	12:00	-66.0	-65.2	-64.9	-63.2	-60.31	-57.06	-54.72	-56.14
29	00:00	-66.2	-65.3	-64.9	-63.1	-60.49	-56.91	-54.68	-56.17
29	12:00	-66.9	-65.4	-65.0	-63.1	-60.60	-57.06	-54.82	-56.11
30	00:00	-68.2	-65.9	-65.3	-63.1	-60.29	-57.07	-54.55	-56.06
30	12:00	-68.3	-66.5	-65.7	-63.2	-60.44	-57.05	-54.71	-56.14
31	00:00	-67.6	-66.5	-65.9	-63.3	-60.38	-57.05	-54.75	-56.13
31	12:00	-67.0	-66.3	-65.9	-63.3	-60.40	-57.18	-54.69	-56.07
Jun. 1	00:00	-66.6	-66.1	-65.7	-63.4	-60.57	-57.10	-54.76	-56.12
1	12:00	-66.4	-65.9	-65.5	-63.4	-60.60	-57.14	-54.61	-56.00
2	00:00	-66.9	-65.8	-65.4	-63.4	-60.58	-57.28	-54.84	-56.01
2	12:00	-67.2	-66.0	-65.5	-63.4	-60.79	-57.35	-54.72	-56.05
3	00:00	-67.7	-66.2	-65.6	-63.4	-60.83	-57.30	-54.68	-56.10
3	12:00	-68.2	-66.5	-65.9	-63.4	-60.69	-57.20	-54.61	-56.26
4	00:00	-68.2	-66.8	-66.1	-63.5	-60.70	-57.30	-54.72	-56.05
4	12:00	-67.6	-66.8	-66.2	-63.6	-60.80	-57.40	-54.66	-56.11
5	00:00	-67.6	-66.6	-66.1	-63.7	-60.82	-57.36	-54.68	-55.95
5	12:00	-67.9	-66.6	-66.2	-63.7	-60.84	-57.48	-54.85	-56.15
6	00:00	-67.5	-66.6	-66.2	-63.7	-60.71	-57.46	-54.92	-56.06
6	12:00	-66.9	-66.5	-66.1	-63.8	-60.74	-57.38	-54.84	-56.05
7	00:00	-65.6	-66.1	-65.8	-63.8	-60.92	-57.58	-54.91	-56.11
7	12:00	-65.4	-65.5	-65.4	-63.8	-60.92	-57.63	-54.81	-56.17
8	00:00	-66.1	-65.4	-65.3	-63.8	-60.99	-57.60	-54.82	-56.15
8	12:00	-66.7	-65.6	-65.3	-63.7	-61.03	-57.67	-54.87	-55.99
9	00:00	-67.0	-65.8	-65.4	-63.6	-60.87	-57.78	-54.85	-56.07
9	12:00	-67.0	-66.0	-65.5	-63.6	-60.90	-57.76	-54.92	-56.13
10	00:00	-66.9	-66.0	-65.6	-63.6	-61.05	-57.76	-54.84	-55.91
10	12:00	-67.3	-66.1	-65.6	-63.7	-60.96	-57.81	-55.04	-56.06
11	00:00	-67.7	-66.3	-65.8	-63.7	-61.08	-57.80	-54.91	-56.09

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
11	12:00	-68.0	-66.6	-66.0	-63.7	-61.04	-57.88	-54.99	-55.93
12	00:00	-68.2	-66.7	-66.2	-63.8	-61.12	-57.91	-54.91	-55.99
12	12:00	-68.5	-66.9	-66.3	-63.9	-61.14	-57.91	-54.91	-56.09
13	00:00	-68.7	-67.1	-66.5	-64.0	-61.20	-57.89	-54.94	-56.06
13	12:00	-68.2	-67.2	-66.6	-64.0	-61.19	-57.98	-55.01	-56.07
14	00:00	-67.0	-66.9	-66.5	-64.0	-61.24	-57.99	-54.96	-56.03
14	12:00	-65.8	-66.3	-66.2	-64.1	-61.29	-58.03	-55.01	-56.06
15	00:00	-65.3	-65.7	-65.7	-64.1	-61.31	-58.07	-54.99	-56.05
15	12:00	-65.4	-65.4	-65.4	-64.0	-61.42	-58.13	-55.09	-56.07
16	00:00	-65.4	-65.4	-65.2	-64.0	-61.37	-58.12	-55.02	-56.05
16	12:00	-66.0	-65.3	-65.1	-63.9	-61.38	-58.11	-55.05	-56.02
17	00:00	-66.5	-65.5	-65.2	-63.9	-61.39	-58.18	-55.05	-56.02
17	12:00	-66.5	-65.7	-65.4	-63.8	-61.37	-58.11	-55.06	-56.10
18	00:00	-64.2	-65.4	-65.3	-63.8	-61.37	-58.23	-55.08	-56.01
18	12:00	-62.0	-64.3	-64.6	-63.8	-61.38	-58.26	-55.08	-56.03
19	00:00	-60.6	-63.2	-63.8	-63.7	-61.34	-58.27	-55.10	-56.04
19	12:00	-59.0	-62.1	-62.9	-63.5	-61.34	-58.31	-55.11	-56.03
20	00:00	-58.6	-61.2	-62.0	-63.3	-61.30	-58.33	-55.12	-56.01
20	12:00	-58.7	-60.7	-61.4	-63.0	-61.25	-58.35	-55.17	-55.98
21	00:00	-58.6	-60.4	-61.1	-62.6	-61.19	-58.41	-55.22	-56.10
21	12:00	-58.8	-60.2	-60.7	-62.4	-61.08	-58.40	-55.15	-56.03
22	00:00	-59.0	-60.0	-60.6	-62.1	-60.87	-58.52	-55.24	-56.02
22	12:00	-59.2	-60.0	-60.5	-61.9	-60.83	-58.33	-55.07	-55.96
23	00:00	-59.3	-60.0	-60.4	-61.8	-60.70	-58.38	-55.29	-55.88
23	12:00	-59.8	-60.1	-60.4	-61.6	-60.52	-58.35	-55.17	-55.99
24	00:00	-60.0	-60.3	-60.5	-61.4	-60.56	-58.61	-55.06	-56.02
24	12:00	-59.9	-60.3	-60.6	-61.3	-60.23	-58.62	-55.30	-56.01
25	00:00	-59.8	-60.3	-60.5	-61.3	-60.21	-58.41	-55.24	-55.94
25	12:00	-59.6	-60.2	-60.4	-61.2	-60.05	-58.50	-55.25	-55.96
26	00:00	-59.6	-60.1	-60.4	-61.2	-60.03	-58.57	-55.28	-56.01
26	12:00	-59.6	-60.1	-60.3	-61.1	-59.91	-58.64	-55.17	-56.04
27	00:00	-59.6	-60.0	-60.3	-61.0	-59.87	-58.55	-55.35	-56.00
27	12:00	-59.4	-60.0	-60.2	-60.9	-59.87	-58.58	-55.28	-55.93
28	00:00	-59.4	-60.0	-60.1	-60.8	-59.84	-58.49	-55.36	-56.01
28	12:00	-59.8	-59.9	-60.0	-60.7	-59.71	-58.43	-55.32	-56.00
29	00:00	-60.6	-60.1	-60.1	-60.7	-59.53	-58.40	-55.25	-56.09
29	12:00	-61.4	-60.5	-60.4	-60.6	-59.55	-58.56	-55.21	-55.87
30	00:00	-62.1	-60.9	-60.7	-60.6	-59.54	-58.39	-55.32	-56.00
30	12:00	-62.8	-61.4	-61.1	-60.6	-59.37	-58.54	-55.49	-56.12
Jul. 1	00:00	-63.4	-61.9	-61.4	-60.7	-59.50	-58.43	-55.36	-55.89
1	12:00	-64.0	-62.3	-61.9	-60.8	-59.46	-58.32	-55.35	-55.98
2	00:00	-64.5	-62.7	-62.2	-60.9	-59.56	-58.34	-55.35	-55.93
2	12:00	-64.9	-63.2	-62.6	-61.1	-59.44	-58.34	-55.48	-55.80
3	00:00	-65.4	-63.5	-62.9	-61.2	-59.57	-58.42	-55.36	-55.97
3	12:00	-65.7	-63.9	-63.3	-61.3	-59.66	-58.43	-55.35	-55.98

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
4	00:00	-66.0	-64.2	-63.5	-61.5	-59.57	-58.46	-55.57	-55.99
4	12:00	-66.2	-64.5	-63.8	-61.6	-59.58	-58.33	-55.47	-56.00
5	00:00	-66.5	-64.7	-64.0	-61.8	-59.63	-58.28	-55.45	-55.97
5	12:00	-66.7	-65.0	-64.3	-61.9	-59.72	-58.29	-55.48	-55.92
6	00:00	-66.8	-65.2	-64.5	-62.0	-59.74	-58.30	-55.46	-55.98
6	12:00	-66.9	-65.4	-64.7	-62.2	-59.85	-58.31	-55.45	-55.94
7	00:00	-67.1	-65.5	-64.8	-62.4	-60.03	-58.40	-55.49	-55.97
7	12:00	-67.1	-65.6	-65.0	-62.5	-59.99	-58.25	-55.41	-56.11
8	00:00	-67.4	-65.8	-65.1	-62.6	-60.04	-58.32	-55.56	-55.97
8	12:00	-67.7	-66.0	-65.3	-62.7	-60.11	-58.28	-55.60	-55.88
9	00:00	-67.9	-66.2	-65.5	-62.8	-60.27	-58.32	-55.57	-55.93
9	12:00	-68.0	-66.4	-65 7	-63.0	-60.49	-58.48	-55.47	-56.02
10	00:00	-68.2	-66.6	-65.9	-63.1	-60.40	-58.34	-55.55	-56.00
10	12:00	-68.4	-66.7	-66.1	-63.2	-60.49	-58.33	-55.56	-55.92
11	00:00	-68.6	-66.9	-66.2	-63.3	-60.48	-58.33	-55.61	-55.99
11	12:00	-68.6	-67.0	-66.3	-63.4	-60.74	-58.35	-55.49	-56.07
12	00:00	-68.6	-67.1	-66.5	-63.5	-60.67	-58.38	-55.53	-56.00
12	12:00	-68.5	-67.2	-66.5	-63.7	-60.88	-58.34	-55.60	-56.03
13	00:00	-68.5	-67.2	-66.6	-63.8	-60.91	-58.35	-55.64	-56.04
13	12:00	-68.4	-67.2	-66.6	-63.9	-60.98	-58.38	-55.52	-56.13
14	00:00	-68.3	-67.2	-66.6	-64.0	-61.03	-58.45	-55.71	-56.05
14	12:00	-68.3	-67.2	-66.7	-64.0	-61.11	-58.44	-55.67	-55.94
15	00:00	-68.4	-67.2	-66.7	-64.0	-61.16	-58.64	-55.69	-55.92
15	12:00	-68.8	-67.3	-66.8	-64.1	-61.20	-58.38	-55.86	-55.80
16	00:00	-69.1	-67.5	-66.8	-64.2	-61.30	-58.69	-55.55	-56.02
16	12:00	-69.4	-67.7	-67.0	-64.3	-61.45	-58.55	-55.59	-56.13
17	00:00	-69.6	-67.9	-67.2	-64.4	-61.32	-58.69	-55.75	-55.92
17	12:00	-68.8	-67.9	-67.3	-64.4	-61.54	-58.61	-55.72	-55.99
18	00:00	-67.5	-67.5	-67.1	-64.6	-61.59	-58.68	-55.71	-55.94
18	12:00	-66.6	-66.9	-66.8	-64.6	-61.68	-58.70	-55.72	-55.95
19	00:00	-65.9	-66.4	-66.3	-64.6	-61.69	-58.65	-55.66	-55.89
19	12:00	-65.2	-65.9	-65.9	-64.6	-61.78	-58.74	-55.72	-55.82
20	00:00	-65.0	-65.4	-65.5	-64.5	-61.99	-58.64	-55.66	-55.96
20	12:00	-65.2	-65.3	-65.3	-64.3	-61.76	-58.77	-55.83	-56.01
21	00:00	-65.4	-65.2	-65.1	-64.2	-61.73	-59.01	-55.82	-55.85
21	12:00	-65.8	-65.3	-65.1	-64.1	-61.91	-58.83	-55.84	-55.94
22	00:00	-66.3	-65.4	-65.2	-64.0	-61.95	-58.79	-55.62	-56.10
22	12:00	-66.7	-65.7	-65.4	-64.0	-61.80	-58.96	-55.76	-55.94
23	00:00	-67.0	-65.9	-65.5	-64.0	-61.80	-58.96	-55.77	-56.04
23	12:00	-67.4	-66.2	-65.7	-64.0	-61.73	-59.16	-55.94	-56.07
24	00:00	-67.6	-66.3	-65.9	-64.1	-61.69	-58.95	-55.65	-55.89
24	12:00	-67.7	-66.5	-66.1	-64.1	-61.80	-59.07	-55.78	-55.89
25	00:00	-68.1	-66.7	-66.2	-64.2	-61.81	-59.10	-55.86	-55.84
25	12:00	-68.2	-66.8	-66.3	-64.3	-61.85	-59.14	-55.85	-55.94
26	00:00	-67.2	-66.8	-66.4	-64.3	-61.85	-59.14	-55.84	-55.97

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
26	12:00	-65.9	-66.3	-66.2	-64.4	-61.88	-59.18	-55.94	-55.84
27	00:00	-64.7	-65.7	-65.7	-64.4	-62.03	-59.10	-55.86	-55.95
27	12:00	-63.8	-65.0	-65.2	-64.4	-61.92	-59.26	-55.78	-55.89
28	00:00	-63.2	-64.5	-64.7	-64.3	-61.94	-59.22	-55.91	-55.94
28	12:00	-62.9	-64.0	-64.3	-64.1	-61.95	-59.23	-55.88	-55.93
29	00:00	-62.7	-63.6	-64.0	-64.0	-61.93	-59.28	-55.89	-55.96
29	12:00	-62.5	-63.4	-63.6	-63.8	-61.90	-59.29	-55.91	-55.93
30	00:00	-62.1	-63.1	-63.3	-63.7	-61.87	-59.30	-55.91	-55.95
30	12:00	-62.0	-62.8	-63.1	-63.5	-61.87	-59.41	-55.98	-55.95
31	00:00	-62.2	-62.7	-63.0	-63.3	-61.72	-59.40	-55.88	-56.00
31	12:00	-62.1	-62.6	-62.8	-63.3	-61.62	-59.36	-55.98	-55.85
Aug. 1	00:00	-61.8	-62.5	-62.7	-63.1	-61.63	-59.42	-55.96	-55.91
1	12:00	-61.8	-62.3	-62.6	-63.0	-61.53	-59.44	-55.92	-55.95
2	00:00	-62.4	-62.3	-62.5	-62.9	-61.47	-59.42	-55.98	-55.91
2	12:00	-63.0	-62.6	-62.6	-62.8	-61.52	-59.50	-56.02	-55.93
3	00:00	-63.7	-62.9	-62.7	-62.7	-61.26	-59.61	-55.98	-55.80
3	12:00	-64.4	-63.3	-63.0	-62.7	-61.32	-59.44	-55.86	-55.77
4	00:00	-65.1	-63.7	-63.3	-62.7	-61.40	-59.51	-55.87	-55.79
4	12:00	-65.8	-64.1	-63.7	-62.7	-61.14	-59.40	-56.03	-55.91
5	00:00	-66.4	-64.7	-64.1	-62.8	-61.18	-59.47	-56.01	-55.89
5	12:00	-67.0	-65.1	-64.5	-62.9	-61.15	-59.45	-55.98	-55.87
6	00:00	-67.6	-65.5	-64.9	-63.1	-61.20	-59.51	-56.05	-55.77
6	12:00	-68.0	-66.0	-65.3	-63.2	-61.17	-59.45	-56.09	-56.04
7	00:00	-68.2	-66.3	-65.6	-63.3	-61.20	-59.37	-56.14	-56.05
7	12:00	-68.2	-66.5	-65.9	-63.4	-61.33	-59.43	-56.00	-55.89
8	00:00	-68.1	-66.7	-66.1	-63.6	-61.34	-59.45	-56.13	-55.98
8	12:00	-68.2	-66.8	-66.2	-63.8	-61.39	-59.48	-56.12	-55.99
9	00:00	-68.2	-66.8	-66.3	-63.9	-61.48	-59.47	-56.07	-55.91
9	12:00	-67.9	-66.8	-66.3	-64.0	-61.59	-59.46	-56.11	-55.94
10	00:00	-67.5	-66.8	-66.3	-64.0	-61.55	-59.46	-56.12	-55.89
10	12:00	-67.3	-66.6	-66.2	-64.1	-61.66	-59.43	-56.06	-55.89
11	00:00	-67.3	-66.5	-66.2	-64.2	-61.69	-59.42	-56.12	-55.95
11	12:00	-66.8	-66.4	-66.2	-64.2	-61.73	-59.47	-56.10	-55.98
12	00:00	-66.8	-66.2	-66.0	-64.2	-61.78	-59.51	-56.29	-56.05
12	12:00	-67.0	-66.2	-66.0	-64.3	-61.79	-59.52	-56.14	-55.97
13	00:00	-66.9	-66.2	-66.0	-64.3	-61.80	-59.47	-56.16	-55.93
13	12:00	-66.4	-66.2	-65.9	-64.3	-61.92	-59.53	-56.19	-55.96
14	00:00	-65.6	-65.9	-65.7	-64.3	-61.88	-59.51	-56.13	-55.92
14	12:00	-65.4	-65.5	-65.4	-64.3	-61.87	-59.42	-56.04	-55.92
15	00:00	-65.6	-65.4	-65.3	-64.3	-62.02	-59.53	-56.15	-55.91
15	12:00	-65.9	-65.4	-65.3	-64.2	-61.85	-59.74	-56.06	-56.09
16	00:00	-66.4	-65.5	-65.3	-64.2	-62.01	-59.63	-56.26	-56.00
16	12:00	-67.0	-65.8	-65.4	-64.1	-62.17	-59.57	-56.30	-56.00
17	00:00	-67.5	-66.2	-65.7	-64.1	-62.10	-59.52	-56.38	-55.86
17	12:00	-67.7	-66.4	-65.9	-64.2	-62.08	-59.64	-56.25	-55.93

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
18	00:00	-67.7	-66.6	-66.1	-64.3	-62.05	-59.62	-56.20	-56.06
18	12:00	-68.0	-66.7	-66.2	-64.3	-61.86	-59.91	-56.29	-55.80
19	00:00	-68.2	-66.8	-66.3	-64.4	-61.96	-59.66	-56.26	-55.96
19	12:00	-68.2	-67.0	-66.5	-64.5	-62.02	-59.72	-56.31	-55.98
20	00:00	-68.0	-67.1	-66.6	-64.6	-62.05	-59.81	-56.33	-55.93
20	12:00	-67.5	-66.9	-66.6	-64.7	-62.22	-59.77	-56.27	-55.91
21	00:00	-67.5	-66.8	-66.5	-64.7	-62.25	-59.66	-56.47	-56.00
21	12:00	-67.6	-66.8	-66.5	-64.7	-62.29	-59.76	-56.26	-55.88
22	00:00	-67.8	-66.9	-66.5	-64.7	-62.37	-59.75	-56.41	-55.87
22	12:00	-68.1	-66.9	-66.6	-64.7	-62.36	-59.87	-56.34	-55.86
23	00:00	-68.6	-67.2	-66.7	-64.8	-62 36	-59.85	-56.40	-55.95
23	12:00	-68.9	-67.5	-66.9	-64.8	-62.40	-59.88	-56.34	-55.95
24	00:00	-69.1	-67.6	-67.1	-64.9	-62.37	-59.93	-56.33	-56.00
24	12:00	-69.1	-67.8	-67.3	-65.0	-62.38	-59.88	-56.42	-55.90
25	00:00	-68.9	-67.9	-67.4	-65.1	-62.49	-59.97	-56.32	-55.95
25	12:00	-68.7	-67.8	-67.4	-65.2	-62.55	-59.98	-56.43	-55.94
26	00:00	-68.4	-67.7	-67.4	-65.2	-62.59	-59.97	-56.38	-55.90
26	12:00	-68.0	-67.5	-67.2	-65.3	-62.63	-59.98	-56.40	-55.93
27	00:00	-67.3	-67.3	-67.0	-65.3	-62.67	-59.99	-56.39	-55.88
27	12:00	-67.3	-67.0	-66.8	-65.3	-62.78	-59.94	-56.40	-56.03
28	00:00	-67.4	-67.0	-66.8	-65.3	-62.78	-60.04	-56.41	-55.98
28	12:00	-66.7	-66.8	-66.7	-65.3	-62.76	-60.06	-56.42	-55.91
29	00:00	-66.0	-66.4	-66.4	-65.3	-62.90	-60.04	-56.46	-55.91
29	12:00	-66.0	-66.2	-66.2	-65.2	-62.85	-60.08	-56.44	-55.96
30	00:00	-66.2	-66.1	-66.0	-65.1	-62.92	-60.01	-56.63	-56.13
30	12:00	-66.5	-66.1	-65.9	-65.1	-62.87	-60.16	-56.49	-55.96
31	00:00	-66.7	-66.2	-66.0	-65.0	-62.80	-60.13	-56.54	-56.02
31	12:00	-67.1	-66.2	-66.1	-65.0	-62.76	-60.23	-56.49	-55.84
Sep. 1	00:00	-67.7	-66.5	-66.2	-64.9	-62.70	-60.16	-56.54	-55.96
1	12:00	-68.2	-66.8	-66.4	-64.9	-62.92	-60.23	-56.67	-55.87
2	00:00	-68.2	-67.0	-66.6	-65.0	-62.77	-60.20	-56.49	-55.93
2	12:00	-68.0	-67.1	-66.8	-65.0	-62.74	-60.41	-56.53	-56.04
3	00:00	-68.0	-67.1	-66.8	-65.1	-62.81	-60.26	-56.67	-55.93
3	12:00	-68.2	-67.2	-66.8	-65.1	-62.86	-60.46	-56.50	-56.07
4	00:00	-68.0	-67.2	-66.8	-65.2	-62.77	-60.25	-56.55	-55.98
4	12:00	-67.9	-67.2	-66.8	-65.2	-62.91	-60.32	-56.47	-55.99
5	00:00	-67.7	-67.2	-66.8	-65.3	-62.83	-60.37	-56.56	-55.94
5	12:00	-67.6	-67.1	-66.8	-65.3	-62.91	-60.38	-56.63	-55.90
6	00:00	-67.2	-66.9	-66.8	-65.3	-62.93	-60.38	-56.56	-55.93
6	12:00	-66.8	-66.8	-66.6	-65.3	-62.85	-60.31	-56.63	-55.95
7	00:00	-66.5	-66.5	-66.4	-65.3	-62.85	-60.25	-56.51	-55.99
7	12:00	-66.5	-66.4	-66.3	-65.3	-62.81	-60.58	-56.56	-55.90
8	00:00	-66.5	-66.3	-66.2	-65.2	-63.00	-60.50	-56.53	-55.98
8	12:00	-66.5	-66.2	-66.2	-65.2	-62.97	-60.44	-56.64	-55.92
9	00:00	-66.8	-66.2	-66.1	-65.1	-62.97	-60.47	-56.68	-55.94

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
9	12:00	-67.3	-66.4	-66.2	-65.1	-62.98	-60.52	-56.72	-56.02
10	00:00	-67.5	-66.6	-66.3	-65.1	-62.95	-60.48	-56.65	-55.90
10	12:00	-67.7	-66.8	-66.4	-65.1	-62.97	-60.55	-56.72	-55.98
11	00:00	-67.9	-66.9	-66.6	-65.1	-63.03	-60.46	-56.73	-56.00
11	12:00	-68.0	-67.0	-66.7	-65.2	-62.99	-60.59	-56.66	-56.01
12	00:00	-67.8	-67.1	-66.8	-65.2	-62.94	-60.63	-56.70	-55.91
12	12:00	-67.8	-67.1	-66.8	-65.3	-62.95	-60.64	-56.67	-56.01
13	00:00	-67.9	-67.1	-66.8	-65.3	-63.07	-60.57	-56.79	-55.89
13	12:00	-68.2	-67.2	-66.8	-65.3	-62.98	-60.59	-56.75	-55.91
14	00:00	-68.7	-67.5	-67.0	-65.3	-63.03	-60.53	-56.85	-55.83
14	12:00	-68.9	-67.6	-67.2	-65.4	-63.10	-60.53	-56.60	-56.07
15	00:00	-69.0	-67.8	-67.4	-65.4	-63.07	-60.64	-56.75	-55.99
15	12:00	-69.1	-67.9	-67.5	-65.4	-63.05	-60.53	-56.65	-55.84
16	00:00	-69.2	-68.1	-67.5	-65.5	-63.12	-60.64	-56.81	-55.86
16	12:00	-69.2	-68.1	-67.6	-65.6	-63.10	-60.62	-56.79	-55.99
17	00:00	-68.9	-68.2	-67.7	-65.7	-63.24	-60.70	-56.75	-55.95
17	12:00	-68.6	-68.0	-67.6	-65.7	-63.30	-60.63	-56.80	-56.02
18	00:00	-68.2	-67.9	-67.5	-65.8	-63.27	-60.67	-56.85	-55.94
18	12:00	-67.9	-67.6	-67.5	-65.8	-63.38	-60.66	-56.82	-56.03
19	00:00	-67.6	-67.5	-67.3	-65.8	-63.29	-60.66	-56.77	-56.06
19	12:00	-67.6	-67.3	-67.1	-65.8	-63.36	-60.78	-56.88	-55.97
20	00:00	-67.8	-67.3	-67.1	-65.8	-63.38	-60.79	-56.88	-56.11
20	12:00	-68.0	-67.3	-67.0	-65.7	-63.43	-60.78	-56.75	-55.92
21	00:00	-67.7	-67.3	-67.1	-65.7	-63.41	-60.81	-56.83	-55.97
21	12:00	-67.0	-67.1	-67.0	-65.7	-63.39	-60.79	-56.94	-56.06
22	00:00	-66.4	-66.8	-66.8	-65.7	-63.46	-60.77	-56.82	-56.07
22	12:00	-66.3	-66.5	-66.5	-65.6	-63.47	-60.89	-56.95	-55.99
23	00:00	-66.6	-66.4	-66.3	-65.6	-63.37	-60.90	-56.92	-56.14
23	12:00	-66.8	-66.4	-66.3	-65.5	-63.38	-60.93	-56.88	-55.99
24	00:00	-66.8	-66.4	-66.3	-65.4	-63.37	-60.82	-56.91	-55.98
24	12:00	-66.6	-66.4	-66.2	-65.4	-63.54	-60.85	-57.03	-56.02
25	00:00	-66.2	-66.3	-66.2	-65.4	-63.23	-60.77	-56.97	-56.00
25	12:00	-66.2	-66.2	-66.1	-65.4	-63.25	-61.09	-57.08	-55.96
26	00:00	-66.0	-66.1	-66.0	-65.4	-63.31	-60.81	-56.97	-55.84
26	12:00	-65.8	-65.9	-65.9	-65.3	-63.33	-60.92	-56.92	-56.02
27	00:00	-65.9	-65.8	-65.8	-65.3	-63.24	-60.95	-56.95	-55.95
27	12:00	-65.8	-65.7	-65.7	-65.2	-63.38	-60.82	-56.82	-55.97
28	00:00	-65.4	-65.6	-65.6	-65.1	-63.25	-60.94	-56.96	-56.01
28	12:00	-64.6	-65.4	-65.4	-65.1	-63.22	-60.90	-57.05	-55.97
29	00:00	-64.0	-64.9	-65.1	-65.0	-63.25	-61.17	-56.92	-56.00
29	12:00	-63.7	-64.6	-64.8	-64.9	-63.20	-61.02	-57.09	-56.12
30	00:00	-63.6	-64.3	-64.6	-64.8	-63.14	-61.00	-56.99	-55.96
30	12:00	-63.8	-64.2	-64.4	-64.7	-63.21	-61.05	-57.02	-56.02
Oct. 1	00:00	-64.0	-64.2	-64.3	-64.6	-62.91	-60.94	-56.99	-56.15
1	12:00	-63.8	-64.1	-64.3	-64.5	-62.91	-60.92	-56.86	-55.90

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
2	00:00	-63.6	-64.0	-64.2	-64.4	-62.89	-60.98	-56.95	-55.95
2	12:00	-63.8	-64.0	-64.1	-64.3	-62.90	-61.10	-57.20	-56.12
3	00:00	-63.9	-64.0	-64.0	-64.3	-62.97	-61.05	-57.10	-56.04
3	12:00	-64.1	-64.0	-64.0	-64.2	-62.67	-61.15	-57.13	-56.03
4	00:00	-64.4	-64.1	-64.1	-64.1	-62.82	-61.03	-57.07	-56.04
4	12:00	-64.7	-64.2	-64.2	-64.1	-62.91	-61.14	-57.13	-56.17
5	00:00	-64.7	-64.4	-64.3	-64.0	-62.61	-61.05	-57.11	-56.00
5	12:00	-64.0	-64.3	-64.3	-64.0	-62.64	-61.16	-57.26	-56.16
6	00:00	-63.3	-64.0	-64.2	-64.0	-62.46	-60.93	-57.07	-56.01
6	12:00	-63.3	-63.8	-64.0	-64.0	-62.57	-60.98	-57.07	-55.93
7	00:00	-62.8	-63.6	-63.8	-64.0	-62.49	-61.18	-57.06	-56.14
7	12:00	-62.3	-63.3	-63.5	-63.9	-62.54	-60.98	-57.14	-55.97
8	00:00	-61.4	-62.9	-63.3	-63.9	-62.45	-61.07	-57.24	-56.16
8	12:00	-60.3	-62.3	-62.8	-63.8	-62.56	-60.91	-57.17	-56.01
9	00:00	-59.5	-61.7	-62.3	-63.6	-62.22	-61.04	-57.03	-55.99
9	12:00	-59.3	-61.2	-61.9	-63.4	-62.35	-61.01	-57.05	-56.13
10	00:00	-58.8	-60.8	-61.4	-63.3	-62.35	-61.00	-57.26	-56.10
10	12:00	-58.3	-60.3	-61.1	-63.1	-62.15	-61.00	-57.19	-56.01
11	00:00	-58.1	-60.0	-60.7	-62.8	-62.25	-60.87	-57.04	-56.21
11	12:00	-58.3	-59.8	-60.5	-62.6	-61.88	-60.85	-57.36	-55.92
12	00:00	-58.5	-59.8	-60.3	-62.4	-61.83	-61.00	-57.33	-56.02
12	12:00	-58.7	-59.7	-60.2	-62.3	-61.81	-60.94	-57.23	-56.00
13	00:00	-58.8	-59.8	-60.2	-62.1	-61.66	-60.98	-57.19	-55.90
13	12:00	-59.1	-59.8	-60.2	-61.9	-61.50	-60.96	-57.25	-56.07
14	00:00	-59.3	-59.9	-60.2	-61.9	-61.52	-60.82	-57.29	-55.98
14	12:00	-59.5	-60.0	-60.2	-61.8	-61.28	-60.83	-57.28	-55.99
15	00:00	-59.7	-60.0	-60.3	-61.7	-61.24	-60.94	-57.24	-56.03
15	12:00	-59.9	-60.1	-60.4	-61.6	-61.18	-60.87	-57.30	-56.13
16	00:00	-59.9	-60.2	-60.5	-61.6	-61.22	-60.75	-57.44	-55.89
16	12:00	-59.9	-60.2	-60.5	-61.5	-60.97	-60.80	-57.29	-56.02
17	00:00	-60.0	-60.3	-60.5	-61.5	-60.90	-60.79	-57.44	-55.91
17	12:00	-60.4	-60.4	-60.6	-61.5	-60.75	-60.63	-57.20	-56.22
18	00:00	-60.6	-60.6	-60.6	-61.4	-60.85	-60.74	-57.32	-55.99
18	12:00	-60.9	-60.7	-60.7	-61.4	-60.69	-60.85	-57.22	-56.11
19	00:00	-61.0	-60.9	-60.9	-61.4	-60.72	-60.60	-57.44	-56.06
19	12:00	-61.0	-60.9	-61.0	-61.4	-60.78	-60.66	-57.33	-55.89
20	00:00	-60.9	-61.0	-61.0	-61.4	-60.59	-60.49	-57.41	-55.92
20	12:00	-61.0	-61.0	-61.1	-61.4	-60.55	-60.62	-57.36	-56.07
21	00:00	-61.1	-61.1	-61.1	-61.4	-60.46	-60.72	-57.20	-55.91
21	12:00	-61.3	-61.1	-61.2	-61.4	-60.61	-60.51	-57.37	-55.98
22	00:00	-61.3	-61.2	-61.3	-61.4	-60.60	-60.54	-57.41	-56.10
22	12:00	-61.3	-61.3	-61.3	-61.4	-60.42	-60.42	-57.50	-56.06
23	00:00	-61.1	-61.3	-61.3	-61.4	-60.53	-60.43	-57.41	-56.06
23	12:00	-60.9	-61.2	-61.3	-61.5	-60.51	-60.47	-57.41	-56.22
24	00:00	-60.9	-61.1	-61.2	-61.5	-60.56	-60.29	-57.40	-55.98

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
24	12:00	-61.2	-61.1	-61.2	-61.4	-60.47	-60.41	-57.46	-56.02
25	00:00	-61.3	-61.3	-61.3	-61.4	-60.49	-60.34	-57.56	-55.96
25	12:00	-61.5	-61.3	-61.3	-61.4	-60.53	-60.30	-57.46	-56.09
26	00:00	-61.5	-61.3	-61.3	-61.4	-60.41	-60.35	-57.47	-56.17
26	12:00	-61.3	-61.3	-61.3	-61.4	-60.34	-60.28	-57.54	-56.23
27	00:00	-61.1	-61.3	-61.3	-61.4	-60.47	-60.37	-57.37	-56.07
27	12:00	-61.0	-61.2	-61.3	-61.4	-60.55	-60.19	-57.60	-56.16
28	00:00	-60.8	-61.1	-61.2	-61.4	-60.43	-60.27	-57.45	-56.01
28	12:00	-60.8	-61.0	-61.2	-61.4	-60.38	-60.22	-57.46	-56.03
29	00:00	-60.7	-61.0	-61.1	-61.4	-60.39	-60.31	-57.40	-56.23
29	12:00	-60.9	-61.0	-61.1	-61.4	-60.34	-60.16	-57.56	-56.05
30	00:00	-61.0	-61.0	-61.1	-61.3	-60.30	-60.29	-57.56	-56.19
30	12:00	-61.2	-61.1	-61.1	-61.3	-60.26	-60.11	-57.52	-56.16
31	00:00	-61.3	-61.2	-61.2	-61.3	-60.27	-60.12	-57.40	-55.98
31	12:00	-61.3	-61.2	-61.2	-61.3	-60.41	-60.05	-57.39	-56.15
Nov. 1	00:00	-61.1	-61.2	-61.3	-61.3	-60.23	-60.18	-57.59	-56.18
1	12:00	-61.0	-61.1	-61.2	-61.3	-60.19	-60.02	-57.58	-56.19
2	00:00	-60.6	-61.1	-61.1	-61.3	-60.24	-60.09	-57.51	-56.10
2	12:00	-60.4	-60.9	-61.0	-61.3	-60.25	-60.08	-57.53	-56.10
3	00:00	-60.2	-60.7	-60.9	-61.3	-60.24	-60.06	-57.53	-56.09
3	12:00	-60.0	-60.6	-60.7	-61.3	-60.22	-60.06	-57.53	-56.11
4	00:00	-59.7	-60.4	-60.6	-61.2	-60.19	-60.04	-57.54	-56.11
4	12:00	-59.5	-60.2	-60.5	-61.2	-60.17	-60.01	-57.57	-56.10
5	00:00	-59.2	-60.0	-60.3	-61.1	-60.20	-60.01	-57.46	-56.06
5	12:00	-59.0	-59.8	-60.1	-61.0	-60.17	-60.05	-57.63	-56.15
6	00:00	-58.5	-59.6	-60.0	-60.9	-60.08	-59.98	-57.55	-56.12
6	12:00	-58.0	-59.3	-59.8	-60.8	-60.07	-59.95	-57.58	-56.12
7	00:00	-57.6	-59.1	-59.5	-60.7	-60.00	-59.99	-57.60	-56.01
7	12:00	-57.3	-58.7	-59.3	-60.6	-59.98	-59.95	-57.55	-56.09
8	00:00	-56.9	-58.5	-59.0	-60.6	-59.93	-59.89	-57.61	-56.17
8	12:00	-56.5	-58.1	-58.7	-60.4	-59.79	-59.87	-57.58	-56.18
9	00:00	-56.2	-57.8	-58.5	-60.3	-59.77	-59.89	-57.57	-56.09
9	12:00	-56.1	-57.6	-58.2	-60.1	-59.76	-59.90	-57.61	-56.16
10	00:00	-55.7	-57.4	-58.0	-60.0	-59.56	-59.80	-57.55	-56.11
10	12:00	-55.5	-57.0	-57.8	-59.9	-59.58	-59.93	-57.45	-56.25
11	00:00	-55.2	-56.9	-57.5	-59.8	-59.35	-59.85	-57.60	-56.01
11	12:00	-55.3	-56.7	-57.3	-59.6	-59.55	-59.65	-57.54	-56.13
12	00:00	-55.1	-56.6	-57.2	-59.4	-59.21	-59.93	-57.78	-56.05
12	12:00	-55.0	-56.4	-57.0	-59.3	-59.31	-59.84	-57.61	-56.22
13	00:00	-54.8	-56.3	-56.9	-59.2	-59.18	-59.72	-57.61	-56.14
13	12:00	-54.7	-56.2	-56.8	-59.1	-59.08	-59.61	-57.48	-56.09
14	00:00	-54.4	-56.0	-56.6	-59.0	-58.79	-59.52	-57.79	-56.18
14	12:00	-54.2	-55.8	-56.4	-58.8	-59.02	-59.74	-57.52	-56.03
15	00:00	-54.0	-55.6	-56.3	-58.7	-58.80	-59.70	-57.55	-56.19
15	12:00	-53.8	-55.5	-56.1	-58.5	-58.59	-59.61	-57.64	-56.07

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
16	00:00	-53.5	-55.3	-55.9	-58.5	-58.79	-59.41	-57.82	-56.00
16	12:00	-53.3	-55.0	-55.7	-58.4	-58.53	-59.62	-57.67	-56.28
17	00:00	-52.9	-54.8	-55.5	-58.2	-58.44	-59.54	-57.56	-56.16
17	12:00	-52.5	-54.5	-55.3	-58.1	-58.32	-59.51	-57.52	-56.05
18	00:00	-52.0	-54.2	-55.1	-57.9	-58.11	-59.34	-57.66	-56.15
18	12:00	-51.8	-54.0	-54.8	-57.8	-58.13	-59.46	-57.79	-56.28
19	00:00	-51.6	-53.7	-54.6	-57.7	-58.14	-59.35	-57.65	-56 23
19	12:00	-51.3	-53 4	-54.3	-57.5	-57.96	-59.37	-57.62	-56.29
20	00:00	-50.8	-53 2	-54.0	-57.3	-57.92	-59.26	-57.82	-56.05
20	12:00	-50.3	-52.8	-53 8	-57.1	-57.77	-59.35	-57.59	-56.09
21	00:00	-50.0	-52 5	-53.5	-57.0	-57.63	-59.28	-57.68	-56.17
21	12:00	-49.7	-52.2	-53.2	-56.8	-57 51	-59.22	-57.65	-56.21
22	00:00	-49.5	-51.9	-52.9	-56.7	-57.38	-59.25	-57.65	-56.30
22	12:00	-49.2	-51.7	-52.7	-56.5	-57.24	-58.99	-57.68	-56.26
23	00:00	-49.0	-51.5	-52.5	-56.3	-57.21	-59.02	-57.65	-56.18
23	12·00	-48.8	-51.2	-52.2	-56.2	-56.88	-59.07	-57.59	-56.16
24	00:00	-48.6	-51.1	-52.0	-56.0	-57.06	-59.17	-57.72	-56.24
24	12:00	-48.4	-50.8	-51.8	-55.8	-56.76	-58.92	-57.69	-56.27
25	00:00	-48.1	-50.6	-51.6	-55.6	-56.67	-58.86	-57.73	-56.28
25	12:00	-48.1	-50.3	-51.4	-55.5	-56.57	-58.95	-57.62	-56.21
26	00:00	-48.1	-50.3	-51.2	-55.3	-56.37	-58.69	-57.53	-56.17
26	12:00	-48.0	-50.1	-51.1	-55.1	-56.14	-58.75	-57.53	-56.22
27	00:00	-47.8	-50.0	-51.0	-54.9	-56.11	-58.73	-57.74	-56.24
27	12:00	-47.4	-49.8	-50.8	-54.8	-56.11	-58.54	-57.58	-56.07
28	00:00	-47.1	-49.6	-50.6	-54.7	-56.00	-58.45	-57.79	-56.26
28	12:00	-47.0	-49.4	-50.4	-54.5	-55.95	-58.54	-57.71	-56.20
29	00:00	-46.9	-49.2	-50.3	-54.4	-55.75	-58.65	-57.57	-56.10
29	12:00	-46.8	-49.0	-50.1	-54.2	-55.69	-58.43	-57.72	-56.21
30	00:00	-46.7	-48.9	-49.9	-54.0	-55.43	-58.41	-57.66	-56.25
30	12:00	-46.6	-48.8	-49.8	-54.0	-55.41	-58.19	-57.68	-56.21
Dec. 1	00:00	-46.2	-48.7	-49.6	-53.8	-55.33	-58.35	-57.58	-56.24
1	12:00	-45.6	-48.4	-49.5	-53.6	-55.07	-58.27	-57.77	-56.22
2	00:00	-44.8	-48.0	-49.1	-53.5	-54.91	-58.15	-57.68	-56.21
2	12:00	-44.3	-47.5	-48.8	-53.3	-54.83	-58.04	-57.71	-56.30
3	00:00	-43.9	-47.2	-48.4	-53.2	-54.69	-58.05	-57.69	-56.20
3	12:00	-43.6	-46.8	-48.1	-53.0	-54.57	-57.92	-57.73	-56.21
4	00:00	-43.1	-46.5	-47.8	-52.8	-54.53	-57.93	-57.68	-56.25
4	12:00	-42.7	-46.1	-47.4	-52.5	-54.33	-58.00	-57.71	-56.18
5	00:00	-42.4	-45.8	-47.2	-52.4	-54.16	-57.84	-57.65	-56.22
5	12:00	-42.3	-45.5	-46.8	-52.2	-54.02	-57.75	-57.79	-56.38
6	00:00	-42.3	-45.3	-46.6	-51.9	-53.89	-57.66	-57.83	-56.16
6	12:00	-42.2	-45.1	-46.5	-51.8	-53.72	-57.54	-57.71	-56.22
7	00:00	-42.2	-45.1	-46.3	-51.6	-53.71	-57.71	-57.52	-56.38
7	12:00	-42.1	-44.9	-46.1	-51.4	-53.45	-57.45	-57.65	-56.16
8	00:00	-42.1	-44.8	-46.0	-51.2	-53.48	-57.31	-57.71	-56.22

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
8	12:00	-42.1	-44.6	-45.8	-51.1	-53.15	-57.44	-57.66	-56.30
9	00:00	-42.1	-44.6	-45.8	-50.9	-53.02	-57.28	-57.72	-56.23
9	12:00	-42.1	-44.5	-45.7	-50.7	-52.82	-57.23	-57.68	-56.25
10	00:00	-42.1	-44.5	-45.6	-50.6	-52.68	-57.26	-57.64	-56.12
10	12:00	-42.1	-44.4	-45.6	-50.4	-52.63	-57.10	-57.62	-56.25
11	00:00	-42.1	-44.4	-45.5	-50.3	-52.52	-56.97	-57.75	-56.19
11	12:00	-42.1	-44.3	-45.4	-50.3	-52.40	-56.87	-57.60	-56.25
12	00:00	-42.1	-44.3	-45.3	-50.1	-52.32	-56.84	-57.62	-56.26
12	12:00	-41.8	-44.2	-45.2	-50.0	-52.13	-56.79	-57.68	-56.23
13	00:00	-41.5	-44.1	-45.1	-49.9	-52.15	-56.59	-57.68	-56.30
13	12:00	-41.4	-43.9	-45.0	-49.7	-51.85	-56.61	-57.65	-56.25
14	00:00	-41.3	-43.8	-44.9	-49.6	-51.79	-56.52	-57.58	-56.32
14	12:00	-41.2	-43.6	-44.7	-49.6	-51.66	-56.51	-57.67	-56.25
15	00:00	-41.0	-43.6	-44.6	-49.4	-51.45	-56.60	-57.83	-56.11
15	12:00	-40.9	-43.4	-44.5	-49.3	-51.42	-56.28	-57.66	-56.31
16	00:00	-40.8	-43.3	-44.3	-49.2	-51.35	-56.29	-57.47	-56.38
16	12:00	-40.8	-43.1	-44.3	-49.0	-51.21	-56.14	-57.73	-56.18
17	00:00	-40.6	-43.1	-44.2	-48.9	-51.13	-56.07	-57.69	-56.29
17	12:00	-40.4	-42.9	-44.1	-48.8	-50.97	-56.14	-57.57	-56.20
18	00:00	-40.1	-42.8	-43.9	-48.7	-50.89	-56.06	-57.58	-56.30
18	12:00	-40.0	-42.6	-43.7	-48.6	-50.78	-55.88	-57.65	-56.36
19	00:00	-39.7	-42.4	-43.6	-48.5	-50.79	-55.70	-57.59	-56.24
19	12:00	-39.0	-42.1	-43.4	-48.3	-50.50	-55.75	-57.65	-56.39
20	00:00	-38.3	-41.8	-43.1	-48.1	-50.49	-55.70	-57.64	-56.25
20	12:00	-37.7	-41.4	-42.8	-48.1	-50.35	-55.62	-57.48	-56.45
21	00:00	-37.2	-40.9	-42.4	-47.9	-50.24	-55.50	-57.64	-56.23
21	12:00	-37.1	-40.6	-42.1	-47.7	-50.16	-55.48	-57.59	-56.22
22	00:00	-37.0	-40.4	-41.8	-47.5	-50.03	-55.32	-57.61	-56.17
22	12:00	-36.9	-40.2	-41.5	-47.3	-49.76	-55.40	-57.49	-56.24
23	00:00	-36.7	-40.0	-41.4	-47.2	-49.81	-55.20	-57.42	-56.28
23	12:00	-36.6	-39.8	-41.2	-47.0	-49.66	-55.22	-57.47	-56.37
24	00:00	-36.4	-39.7	-41.0	-46.8	-49.69	-55.28	-57.69	-56.16
24	12:00	-36.3	-39.5	-40.8	-46.6	-49.44	-54.99	-57.55	-56.30
25	00:00	-36.3	-39.3	-40.7	-46.6	-49.23	-55.01	-57.46	-56.43
25	12:00	-36.4	-39.2	-40.6	-46.4	-49.15	-54.79	-57.49	-56.42
26	00:00	-36.4	-39.2	-40.5	-46.2	-48.92	-54.90	-57.66	-56.45
26	12:00	-36.5	-39.1	-40.4	-46.1	-48.73	-54.69	-57.56	-56.37
27	00:00	-36.3	-39.1	-40.4	-45.9	-48.75	-54.65	-57.37	-56.41
27	12:00	-36.7	-39.0	-40.3	-45.8	-48.49	-54.42	-57.62	-56.52
28	00:00	-36.7	-39.1	-40.3	-45.7	-48.42	-54.45	-57.51	-56.32
28	12:00	-36.9	-39.1	-40.3	-45.7	-48.42	-54.40	-57.51	-56.52
29	00:00	-36.7	-39.2	-40.3	-45.5	-48.33	-54.36	-57.55	-56.38
29	12:00	-36.8	-39.1	-40.3	-45.4	-48.19	-54.32	-57.46	-56.31
30	00:00	-36.6	-39.1	-40.3	-45.4	-48.08	-54.23	-57.45	-56.28
30	12:00	-36.6	-39.0	-40.2	-45.3	-47.97	-54.14	-57.46	-56.32

Date	LT	0.01m (℃)	0.1m (℃)	0.2m (℃)	0.5m (℃)	1.0m (℃)	2.0m (℃)	5.0m (℃)	10.0m (℃)
31	00:00	-36.4	-39.0	-40.1	-45.2	-47.86	-54.06	-57.45	-56.33
31	12:00	-36.6	-38.9	-40.0	-45.1	-47.72	-53.96	-57.45	-56.32
Jan. 1	00:00	-36.4	-38.9	-40.0	-45.1	-47.66	-53.99	-57.34	-56.29
1	12:00	-36.3	-38.8	-39.9	-45.0	-47.63	-53.78	-57.47	-56.22
2	00:00	-35.8	-38.7	-39.8	-44.9	-47.64	-53.61	-57.60	-56.52
2	12:00	-35.7	-38.4	-39.7	-44.8	-47.42	-53.88	-57.58	-56.34
3	00:00	-35.0	-38.2	-39.5	-44.7	-47.20	-53.52	-57.37	-56.34
3	12:00	-34.9	-38.0	-39.3	-44.6	-47.15	-53.55	-57.26	-56.33
4	00:00	-34.5	-37.8	-39.0	-44.5	-47.11	-53.33	-57.39	-56.21
4	12:00	-34.5	-37.5	-38.9	-44.4	-47.21	-53.43	-57.36	-56.38
5	00:00	-34.2	-37.4	-38.7	-44.3	-46.96	-53.34	-57.22	-56.51
5	12:00	-34.2	-37.2	-38.5	-44.2	-47.04	-53.46	-57.15	-56.47
6	00:00	-34.2	-37.1	-38.3	-44.0	-46.80	-53.19	-57.15	-56.49
6	12:00	-34.2	-37.0	-38.2	-43.9	-46.66	-53.15	-57.39	-56.37
7	00:00	-34.0	-36.9	-38.1	-43.7	-46.66	-53.12	-57.30	-56.34
7	12:00	-34.2	-36.8	-38.1	-43.6	-46.45	-53.03	-57.34	-56.36
8	00:00	-34.3	-36.8	-38.1	-43.6	-46.36	-52.90	-57.27	-56.34
8	12:00	-34.7	-36.8	-38.0	-43.5	-46.40	-52.92	-57.26	-56.33
9	00:00	-34.7	-36.9	-38.1	-43.4	-46.39	-52.95	-57.42	-56.32
9	12:00	-34.8	-37.0	-38.1	-43.3	-46.17	-52.62	-57.22	-56.31
10	00:00	-34.6	-37.0	-38.1	-43.2	-46.03	-52.60	-57.17	-56.45
10	12:00	-34.8	-36.9	-38.1	-43.1	-45.94	-52.58	-57.20	-56.42
11	00:00	-34.7	-37.0	-38.1	-43.0	-45.80	-52.45	-57.23	-56.37
11	12:00	-35.0	-37.0	-38.0	-43.0	-45.73	-52.44	-57.17	-56.39
12	00:00	-35.0	-37.0	-38.1	-42.9	-45.66	-52.34	-57.13	-56.39
12	12:00	-35.1	-37.1	-38.1	-42.9	-45.61	-52.37	-57.04	-56.40
13	00:00	-35.0	-37.1	-38.1	-42.9	-45.52	-52.15	-57.11	-56.43
13	12:00	-35.1	-37.1	-38.1	-42.8	-45.46	-52.18	-57.12	-56.40
14	00:00	-35.1	-37.1	-38.1	-42.8	-45.39	-52.16	-57.18	-56.39
14	12:00	-35.3	-37.1	-38.1	-42.8	-45.34	-52.06	-57.09	-56.39
15	00:00	-35.2	-37.2	-38.1	-42.7	-45.26	-51.94	-57.11	-56.37
15	12:00	-35.2	-37.2	-38.1	-42.7	-45.20	-51.90	-57.08	-56.40
16	00:00	-35.1	-37.2	-38.1	-42.6	-45.16	-51.81	-57.06	-56.39
16	12:00	-35.5	-37.2	-38.1	-42.6	-45.09	-51.77	-57.03	-56.40
17	00:00	-35.5	-37.3	-38.1	-42.6	-45.03	-51.69	-57.04	-56.41

5. Surface meteorological data during oversnow traverses

Observers: Naohiko HIRASAWA: Traverse 1-a, 1-c, 4-a and 5-a
Tetsuji NAKAJIMA: Traverse 1-a, 1-c and 1-d
Kuniaki KURITA: Traverse 2-a and 2-b
Nobuhiko KIZU: Traverse 3-a and 3-b
Hideaki MOTOYAMA: Traverse 4-b
Susumu KANETO: Traverse 5-b

Meteorological observations were carried out during the oversnow traverses several times a day. We measured air pressure (Pa), air temperature (Ta), wind direction (WD) and wind speed (WS) with the instruments and observed visibility (V), weather (W), cloud amount in tenths (N) and individual cloud amount and genus (CL). The instruments and accuracy of the measurements are given in Table 5-1. The notation used in this section is shown in Table 5-2.

Tables 5-3, 5-4, 5-5, 5-6 5-7, 5-8 and 5-9 show meteorological data observed during traverses 1-a and 1-c, 1-d, 2-a and 2-b, 3-a and 3-b, 4-a and 4-b, 5-a, 5-b, respectively. The meteorological data during traverses between S16 and Dome Fuji have been published in MOTOYAMA *et al.* (1995), SHIRAIWA *et al.* (1996), AZUMA *et al.* (1997) and FUJITA *et al.* (1998).

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Table 5-1. Instruments and accuracy of meteorological observations.

Item	Instruments	Accuracy
Air pressure	Aneroid gauge Vibrating cylinder type (Traverses 4-a, 4-b and 5-b)	±1hPa ±0.2hPa
Air temperature	Sling type glass thermometer	±0.5℃
Wind direction	Magnetic compass	±5°
Wind speed	Portable 3-cup anemometer	±0.5m/s
Visibility	Visual observation	
Cloud amount	Visual observation	
Weather	Visual observation	
Individual cloud	Visual observation	

Table 5-2. Notation used in tables in this section.

LT: Local standard time at Syowa Station (UTC + 3 hours)

Pa: Air pressure (hPa)

Ta: Air temperature (℃)

WD: Wind direction

WS: Wind speed (m/s)

V: Visibility (km)

W: Weather

○ Clear, ◑ Fine, ◍ Cloudy (upper level clouds were predominant), ◎ cloudy

✳ Snow, ⸗ Drifting snow, ⸗ Blowing snow, ✳⸗ Snow storm,

↔ Diamond dust, ☰ Fog, ☰ Low fog, ⇆ Ice fog

N: Cloud amount in tenths

CL: Individual cloud amount and genus

Table 5-3. Meteorological data observed during the traverse 1-a and 1-c.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL
21 DEC.1996	6:05	S16		-7.8	E		20	⊕	8	8Ci
21 DEC.1996	12:00	S16		-1.8	NE	6.0	20	◍	10-	10-Ci
21 DEC.1996	21:30	S16		-3.5	E	9.0	15	◎	10-	10-As
22 DEC.1996	6:46	S16	906	-4.5	E	7.0	20	◎	10-	10-As
22 DEC.1996	9:00	S16	938	-1.4	E	7.0	20	◎	10-	10-As
22 DEC.1996	12:00	S16	934	-0.2	E	6.0	20	◍	10-	0+Sc;2Ac;4Cs;10-Ci
22 DEC.1996	15:00	S16	936	-0.9	E	2.0	20	◎	10-	1Sc;10-As
22 DEC.1996	18:00	S16	936	-3.5	-	0.0	30	⊕	8	4Sc;1Ac;5Ci
22 DEC.1996	21:00	S16	935	-5.2	E	5.0	30	⊕	2	2Sc;0+Ac;0+Ci
23 DEC.1996	6:00	S16	930	-6.2	E	8.0	20	⊕	4	1Sc;0+Ac;4Ci
23 DEC.1996	12:00	S16	926	-2.0	E	9.0	15	◎	10-	2Sc;9Ac;10-Ci
23 DEC.1996	18:00	S16	929	-3.3	E	7.0	20	⊕	8	1Sc;3Ac;;8Ci
23 DEC.1996	21:00	S16		-5.2	E	9.5	30	⊕	6	2Sc;3Ac;3Ci
24 DEC.1996	6:00	S16	927	-7.0	E	10.0	20	⊕	2	1Sc;1Ac;0+Ci
24 DEC.1996	9:00	S16	927	-3.5	E	12.0	20	⊕	7	1Sc;7Ac:0+Ci
24 DEC.1996	12:00	S16	934	-1.5	E	7.0	20	◎	10-	0+Sc;10-Ac;XCi
24 DEC.1996	16:00	S16	932	-1.5	E	6.0	30	⊕	2	0+Sc;2Ac;0+Ci
24 DEC.1996	17:30	S16	934	-2.9	E	4.0	30	⊕	5	0+SC;2Ac;5Ci
24 DEC.1996	20:50	S16	935	-6.5	E	4.0	30	⊕	2	1Sc;0+Ac;1Ci
25 DEC.1996	6:00	S16	939	-4.5	E	6.0	10	◎	10-	6Sc;0+Ac;2Cs;10-Ci
25 DEC.1996	9:00	S16	941	-2.2	E	5.0	20	◍	10-	0+Sc;3Ac;10-Ci
25 DEC.1996	12:00	S16	943	-1.5	NE	3.0	10	◎	10-	0+Cu;1Sc;10-Ac;XCi
25 DEC.1996	15:00	S16	944	-2.0	NE	4.0	10	◎	10	0+Sc;10As
25 DEC.1996	18:00	S16	945	-4.0	-	0.0	7	✳	10-	0+Sc;10-As
25 DEC.1996	21:00	S16	945	-5.1	-	0.0	15	◎	10-	0+Sc;10-Ac
26 DEC.1996	6:00	S16	945	-5.0	E	5.0	10	◎	10-	0+St;10-Sc
26 DEC.1996	9:00	S16	944	-5.0	E	3.0	20	⊕	3	0+Cu;1Sc;3Ci
26 DEC.1996	12:00	S16	943	-3.0	E	6.0	20	⊕	4	0+Cu;0+Ac;4Ci
26 DEC.1996	15:00	S16	942	-0.9	-	0.0	30	⊕	2	0+Cu;0+Sc;2Ci
26 DEC.1996	17:00	S16	939	-3.2	E	3.0	30	⊕	2	2Ci
26 DEC.1996	20:40	S16	937	-4.9	E	8.0	30	○	1	1Ci
27 DEC.1996	6:00	S16	934	-8.5	E	8.0	10	○	0+	0+Ci
27 DEC.1996	9:00	S16	934	-4.7	E	7.0	30	○	0	
27 DEC.1996	12:00	S16	934	-3.0	E	8.0	20	○	0	
27 DEC.1996	15:00	S16	934	-2.2	E	8.0	20	○	0+	0+Ci
27 DEC.1996	18:00	S16	935	-2.7	E	4.0	30	○	0+	0+Ac;0+Ci
27 DEC.1996	20:30	S16	935	-5.9	E	5.0	30	○	0+	0+Ac;0+Ci
28 DEC.1996	6:00	S16	936	-8.2	E	8.0	10	○	0	
28 DEC.1996	9:00	S16	936	-4.7	E	4.0	30	○	0	
28 DEC.1996	12:00	S16	937	-3.0	E	4.0	30	○	0+	0+Ci
28 DEC.1996	15:00	S16	935	-0.8	-	0.0	30	○	0+	0+Ci
28 DEC.1996	18:40	S16	935	-3.2	-	0.0	30	○	0+	0+Ci
28 DEC.1996	21:30	S16	935	-7.0	E	4.0	30	○	0+	0+Ci
29 DEC.1996	6:00	S16	937	-9.3	E	6.0	30	○	0+	0+Ci
29 DEC.1996	21:00	H15	884	-10.6	SE	2.0	30	○	1	1Ci
30 DEC.1996	9:00	H15	884	-8.0	E	6.0	30	○	1	1Ci
30 DEC.1996	21:00	H152	844	-14.5	-	0.0	20	⊕	4	4Ci
31 DEC.1996	9:10	H152	844	-10.5	E	8.0	20	○	0+	0+Ci
31 DEC.1996	20:30	H260	811	-14.5	E	6.0	20	⊕	8	0+Sc;4Ac;8Ci
1 DEC.1997	9:00	H260	806	-13.5	E	8.0	5	⊕	7	7Ci

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
1 DEC.1997	21:00	Z50	770	-19.0	NE	6.0	20	○	0+	0+Ac;0+Ci	
2 DEC.1997	8:00	Z50	775	-13.0	E	8.0	3	◎	10-	10-Ac	⸸
2 DEC.1997	23:00	Mizuho	761	-17.7	E	6.0	20	◎	10-	8Ac;10-Ci	
3 DEC.1997	9:00	Mizuho	761	-16.2	E	6.0	20	◐	2	2Ci	
3 DEC.1997	21:00	Mizuho	764	-17.2	E	3.0	20	○	0+	0+Ci	
4 DEC.1997	9:00	Mizuho	755	-19.0	E	8.0	20	○	1	1Ci	
4 DEC.1997	21:00	MD50	736	-20.5	E	4.0	20	○	0		
5 DEC.1997	11:40	MD55	(712)	-18.0	E	8.0	5	○	0		⸸
5 DEC.1997	21:00	MD88	(702)	-21 5	E	6.0	30	○	0		
6 DEC.1997	8:20	MD88	(701)	-22.5	E	7.0	20	○	0+	0+Ac	
6 DEC.1997	21:40	MD148	(689)	-22.7	SE	4.0	20	◎	9	9Ac	
7 DEC.1997	8:30	MD148	(690)	-24.5	SE	4.0	20	○	0+	0+Ac	
7 DEC.1997	20:00	MD213	(671)	-26.6	SE	8.0	10	○	0+	0+Ac	
8 DEC.1997	8:20	MD213	(671)	-26.2	SE	4.0	20	○	0+	0+Ci;0+Ac	
8 DEC.1997	20:30	MD280	(656)	-25.2	E	3.0	20	◐	8	8Ac	
9 DEC.1997	8:00	MD280	(652)	-25.2	E	4.0	10	◍	10-	0+Ac,1Cs;10-Ci	
9 DEC.1997	22:00	MD364	(636)	-26.0	E	6.0	10	◍	10-	8Cs;10-Ci	
10 DEC.1997	10:50	MD364	(634)	-25 2	E	3.0	20	◐	7	2Cs;7Ci	
10 DEC.1997	20:10	MD364	(640)	-26.0	-	0.0	20	◎	10-	10-Ac	
11 DEC 1997	8:10	MD364	(636)	-25.7	E	3.0	10	◍	9	1AC;9Ci	
11 DEC.1997	21:00	MD428	(629)	-31.5	E	1.0	30	○	1	0+Ac;1Cs;0+Ci	
12 DEC.1997	8:10	MD428	(627)	-28.5	E	3.0	20	◐	6	2Cs:6Ci	
12 DEC.1997	21:50	MD490	(627)	-30.5	-	0.0	10	◎	10-	10-Ac	
13 DEC.1997	8:10	MD490	(630)	-31.5	E	3.0	10	◍	10-	4Cs;10-Ci	
13 DEC.1997	21:00	MD561	(617)	-34.0	E	3.0	20	○	0+	0+Cs,0+Ci	
14 DEC.1997	8:20	MD561	622	-33.0	E	4.0	10	○	0+	0+Ci	
14 DEC.1997	20:20	MD631	611	-32.9	SE	3.0	20	○	0		
15 DEC.1997	8:00	MD631	607	-33.6	SE	4.0	20	○	1	0+Ac;1Ci	
15 DEC.1997	20:20	MD702	604	-33.0	W	2.0	10	○	0+	0+Ac	
16 DEC.1997	8:20	MD702	604	-33.5	W	3.0	5	◐	2	2Ci	

Table 5-4. Meteorological data observed during the traverse 1-d.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
25 JAN.1997	21:00	MD700	600	-34.0	-	0	20	○	1	0+Ac;1Cs;0+Ci	
26 JAN.1997	8:40	MD700	608	-36.5	ESE	1	10	◑	3	0+Cs;3Ci	
26 JAN.1997	21:00	MD586	616	-34.5	-	0	20	○	1	0+Cs;1Ci	
27 JAN.1997	8:30	MD586	611	-35.1	-	0	15	◑	5	2Cs;5Ci	
27 JAN.1997	21:20	MD500	618	-36.5	SE	1	10	◍	10-	6Cs;10-Ci	
28 JAN.1997	8:50	MD500	621	-35.5	ESE	3	10	◍	10-	2Cs;10-Ci	
28 JAN.1997	21:00	MD444	629	-34.2	SE	4	20	◍	10-	10-Cs	
29 JAN.1997	8:20	MD444	632	-34.1	ESE	3	10	◍	10-	3Cs;10-Ci	
29 JAN.1997	21:00	MD364	645	-30.0	E	2	10	◍	10-	10-Cs	
30 JAN.1997	8:50	MD364	646	-34.5	ESE	4	20	○	1	0+Cs;1Ci	
30 JAN.1997	21:00	MD298	658	-31.0	E	5	20	◍	10-	10-Ci	
31 JAN.1997	9:00	MD298	657	-30.6	E	5	10	◍	10-	2Cs;10-Ci	
31 JAN.1997	21:00	MD200	687	-26.9	ESE	5	20	◑	3	1Cs;3Ci	
1 FEB.1997	8:40	MD200	693	-27.5	E	5	15	◑	3	3Ci	
1 FEB.1997	21:00	MD130	725	-20.5	ESE	4	5	✕	10-	10-Ac	
2 FEB.1997	8:10	MD130	724	-23.4	ESE	6	10	○	0+	0+Ci	⇿
2 FEB.1997	22:00	Mizuho	750	-19.2	E	13	20	◍	9	0+Ac;1Cs;9Ci	⇿
3 FEB.1997	10:20	Mizuho	749	-16.5	E	11	0.05	✕⇿	X	X	✕⇿
3 FEB.1997	20:50	Mizuho	746	-20.2	E	9	15	◑	6	1Ac;6Ci	⇿
4 FEB.1997	9:20	Mizuho	751	-20.5	E	12	20	◑	4	4Ci	
4 FEB.1997	21:00	Mizuho	747	-21.1	E	7	20	○	0+	0+Ci	
5 FEB.1997	9:20	Mizuho	746	-22.1	E	11	20	○	0		
5 FEB.1997	22:10	Mizuho	743	-22.9	ESE	13	20	○	0+	0+Ac	⇿
6 FEB.1997	9:30	Mizuho	739	-20.9	ESE	15	0.05	⇿	0		⇿
6 FEB.1997	20:50	H276	781	-17.2	E	7	20	○	1	1Ac;0+Ci	⇿
7 FEB.1997	8:50	H276	781	-20.2	E	8	10	○	0+	0+Ac	⇿
7 FEB.1997	21:00	H21	862	-15.0	ESE	4	20	○	0		
8 FEB.1997	9:30	H21	853	-10.5	ENE	11	10	○	0		⇿
8 FEB.1997	21:00	S16	909	-9.1	ENE	6	20	○	0+	0+Sc	
9 FEB.1997	8:50	S16	912	-6.5	E	8	10	◍	9	9Sc	
10 FEB.1997	6:00	S16	921	-8.2	E	4	10	◑	7	1Sc;7Ci	

Table 5-5. Meteorological data observed during the traverse 2-a and 2-b.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL
15 SEP.1997	19:30	S29	870	-27.5	E	4		5		
16 SEP.1997	7:40	S29	873	-36.5	E	11		0.5		
16 SEP.1997	18:30	H80	838	-35.5	E	18		0.1		
17 SEP.1997	8:00	H80	833	-35.0	ENE	17		0.05		
17 SEP.1997	18:15	H180	789	-38.7	E	14		0.5		
18 SEP.1997	8:10	H180	787	-37.5	E	10		5		
18 SEP.1997	19:30	S122	744	-44.6	E	9		0.5		
19 SEP.1997	8:10	S122	755	-45.6	E	9		10		
19 SEP.1997	17:45	Z70	736	-43.5	E	5		15		
20 SEP.1997	8:20	Z70	751	-48.6	E	3		15		
20 SEP.1997	18:10	Mizuho	737	-40.5	E	7		10		
21 SEP.1997	8:10	Mizuho	743	-47.7	E	8		10		
21 SEP.1997	17:40	Mizuho	736	-44.5	E	6		15		
22 SEP.1997	9:00	Mizuho	730	-46.6	E	9		15		
22 SEP.1997	18:10	Z50	735	-44.0	E	9		20		
23 SEP.1997	8:10	Z50	740	-47.5	ENE	11		2		
23 SEP.1997	17:40	H260	771	-39.2	E	13		10		
24 SEP.1997	7:50	H260	774	-39.0	E	15		1		
24 SEP.1997	18:50	H96	825	-30.5	E	12		20		
25 SEP.1997	7:50	H96	836	-26.7	E	5		2		
25 SEP.1997	18:00	H15	868	-21.0	ENE	5		10		
26 SEP.1997	7:50	H15	870	-22.7	E	10		5		

Table 5-6. Meteorological data observed during the traverse 3-a and 3-b.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
7 OCT.1997	1450	N15	944.7	-4.7	E	6	30	◎	10	3Sc, 7Ac, 10-Ci	⊹
7 OCT.1997	1800	S16	909.1	-9.3	ENE	8	30	◎	10-	1Sc, 7Ac, 9Cs, XCi	⊹
7 OCT.1997	2100	S16	909.1	-10.6	E	9	3	◎	10-	0+Sc, 9Ac, XCi	⊹
8 OCT.1997	605	S16	911.0	-10.5	E	8	30	◎	10-	9Sc, XAc	⊹
8 OCT.1997	900	S16	911.7	-10.0	E	9	10	◎	10-	0+Sc, 8Ac, 10-Ci	⊹
8 OCT.1997	1200	S19-3	906.4	-9.2	ENE	12	10	◐	8	6Sc, 6Ac, 4Ci	⊹
8 OCT.1997	1500	S27-3	873.9	-12.5	ENE	8	3	◎	9	8Sc, 4Ac	⊹
8 OCT.1997	1830	H62	850.7	-15.5	E	7	10	◎	9	9Sc, 4Ac	⊹
8 OCT.1997	2100	H62	851.3	-19.0	E	10	10	◎	10	4Sc, 7Ac, XCi	
9 OCT.1997	600	H62	851.6	-18.3	E	10	30	◎	9	9Ac	
9 OCT.1997	900	H62	851.3	-15.8	E	9	30	◎	9	7Sc, 9Ac	
9 OCT.1997	1205	H120	829.8	-15.3	E	13	30	◎	9	9Ac	
9 OCT.1997	1505	H164	817.1	-16.5	E	11	30	◎	10-	0+Sc, 10-Ac,	
9 OCT.1997	1800	H208	804.4	-19.6	E	14	30	◎	10-	0+Sc, 9Ac, XCi	
9 OCT.1997	2100	H208	805.3	-20.7	E	11	30	◎	10-	0+Sc, 9Ac, XAs	
10 OCT.1997	610	H208	807.0	-28.6	E	14	20	◍	10-	0+Ac, 10-Ci	⊹
10 OCT.1997	900	H208	807.2	-25.5	E	14	20	◍	10-	0+Ac, 10-Ci	⊹
10 OCT.1997	1200	H264	790.4	-25.0	E	13	30	◍	10-	10-Ci	
10 OCT.1997	1500	H296	779.6	-26.2	E	11	30	◍	9	0+Ac, 9Ci	
10 OCT.1997	1755	Z16	767.2	-31.0	E	14	30	◍	10-	0+Ac, 10-Ci	
10 OCT.1997	2100	H62	767.1	-34.5	E	14	30	◐	8	1Ac, 8Ci	
11 OCT.1997	600	Z16	764.5	-36.5	E	11	10	○	1	1Ci	⊹
11 OCT.1997	900	Z16	763.7	-33.0	E	13	10	◐	2	2Ci	⊹
11 OCT.1997	1200	Z50	752.7	-30.5	E	13	20	◐	2	2Ci	
11 OCT.1997	1505	Z78	748.0	-28.5	E	9	30	◐	3	0+Ac, 3Ci	
11 OCT.1997	1835	MIZUHO	742.3	-31.5	E	13	20	◐	3	0+Ac, 3Ci	
11 OCT.1997	2100	MIZUHO	739.8	-33.2	E	14	20	◐	3	0+Ac, 3Ac	⊹
12 OCT.1997	600	MIZUHO	738.2	-33.8	E	15	2	◐	4	4Ci	⊹
12 OCT.1997	900	MIZUHO	738.3	-31.0	E	15	5	◐	4	0+Ac, 4Ci	⊹
12 OCT.1997	1220	MIZUHO	739.5	-27.2	E	13	30	◐	3	0+Ac, 4Ci	⊹
12 OCT.1997	1535	MIZUHO	738.8	-27.0	E	10	30	◐	3	3Ci	⊹
12 OCT.1997	1835	MIZUHO	737.8	-30.5	E	12	30	◐	3	0+Ac, 3Ci	⊹
12 OCT.1997	2100	MIZUHO	737.8	-33.5	E	11	30	○	1	1Ci	
13 OCT.1997	555	MIZUHO	736.3	-36.3	E	11	30	◐	4	4Ci	
13 OCT.1997	900	MIZUHO	735.5	-33.0	E	12	30	◐	6	6Ci	
13 OCT.1997	1200	MD18	730.1	-30.7	E	11	20	◐	3	0+Ac, 3Ci	⊹
13 OCT.1997	1505	MD32	724.8	-30.7	E	11	20	◐	2	2Ci	⊹
13 OCT.1997	1805	MD52	720.4	-34.2	E	14	2	◐	2	2Ci	⊹
13 OCT.1997	2105	MD52	720.2	-36.5	ESE	14	2	◐	4	4Ci	⊹
14 OCT.1997	600	MD52	719.9	-39.5	E	13	3	◐	3	3Ci	⊹
14 OCT.1997	900	MD52	720.9	-36.5	E	13	5	○	0+	0+Ac	⊹
14 OCT.1997	1210	MD62	719.2	-33.5	ESE	12	8	○	0	—	⊹
14 OCT.1997	1500	MD70	716.6	-34.0	ESE	10	8	○	0	—	⊹
14 OCT.1997	1810	MD80-82	714.2	-36.5	E	10	8	○	0	—	⊹
14 OCT.1997	2105	MD86	712.5	-40.2	E	9	20	○	0	—	⊹
15 OCT.1997	605	MD86	713.0	-42.5	ESE	12	0.8	◐	0	—	⊹
15 OCT.1997	900	MD88	712.5	-39.7	ESE	10	1	◐	0	—	⊹
15 OCT.1997	1205	MD106	707.8	-35.9	ESE	9	20	◐	0	—	⊹
15 OCT.1997	1505	MD116	704.3	-34.5	ESE	8	30	◐	0	—	⊹
15 OCT.1997	1810	MD130	699.6	-36.5	SE	7	30	◐	0	—	

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
15 OCT.1997	2100	MD130	698.0	-41.5	SE	7	30	◐	0	--	
16 OCT.1997	600	MD130	694.5	-47.0	SE	11	2	○	0	--	⊹
16 OCT.1997	900	MD130	694.3	-43.5	ESE	9	10	○	0	--	⊹
16 OCT.1997	1205	MD140	691.3	-40.0	ESE	8	20	○	0	--	⊹
16 OCT 1997	1500	MD148	689.3	-39.5	ESE	8	30	○	0	--	
16 OCT 1997	1800	MD156	687.5	-42.2	ESE	8	20	○	0	--	⊹
16 OCT.1997	2100	MD156	688.1	-45.6	ESE	8	20	○	0	--	⊹
17 OCT 1997	600	MD156	689.0	-49.5	ESE	7	10	○	0	--	⊹
17 OCT.1997	900	MD156	689.0	-45.8	ESE	8	10	○	0	--	⊹
17 OCT 1997	1200	MD156	689.1	-42.0	ESE	8	10	○	0	--	⊹
17 OCT.1997	1500	MD160	687.0	-40 6	ESE	7	20	○	0	--	⊹
17 OCT.1997	1810	MD166	685.4	-42 6	ESE	6	30	○	0	--	
17 OCT.1997	2100	MD174	683.0	-46.0	ESE	8	20	○	0+	0+Ac	⊹
18 OCT.1997	600	MD174	681.8	-46.5	ESE	8	0.3	⊹	9	9⊹	⊹
18 OCT.1997	900	MD174	681.4	-42.4	ESE	11	0.3	⊹	9	9⊹	⊹
18 OCT.1997	1210	MD192	675.0	-39 0	ESE	12	0 3	✕	9	9⊹	⊹
18 OCT.1997	1505	MD204	670.2	-38.5	ESE	9	0.8	⊹	6	6⊹, XAc	⊹
18 OCT.1997	1805	MD226	664 5	-42.5	SE	9	10	○	0+	0+Ci	⊹
18 OCT.1997	2100	MD226	664.9	-46.0	SE	7	10	○	1	1Ci	⊹
19 OCT.1997	600	MD226	663.6	-49.0	SE	9	0 8	⊹	0	--	⊹
19 OCT.1997	900	MD228	663.4	-45.0	SE	10	0.3	⊹	0	--	⊹
19 OCT.1997	1200	MD248	653.6	-42.0	SE	10	2	○	0	--	⊹
19 OCT.1997	1500	MD258	652.1	-41.2	SE	7	10	○	0	--	⊹
19 OCT.1997	1805	MD280	647.0	-43.5	SE	7	10	○	0	--	⊹
19 OCT.1997	2100	MD280	646.2	-47.7	SE	8	10	○	0	--	⊹
20 OCT.1997	600	MD280	642.3	-52 5	ESE	9	0.3	⊹	5	5⊹	⊹
20 OCT.1997	905	MD282	641.4	-49.7	ESE	10	0.3	⊹	5	5⊹	⊹
20 OCT.1997	1205	MD300	634.5	-46.2	SE	8	0.8	⊹	4	4⊹	⊹
20 OCT.1997	1500	MD306	633.7	-45.5	SE	7	10	○	0	--	
20 OCT.1997	1800	MD332	628.2	-47.9	SSE	7	10	○	0	--	⊹
20 OCT.1997	2100	MD340	625.4	-52.5	SE	5	20	○	0	--	
21 OCT.1997	600	MD340	625.4	-53.5	SE	6	10	○	0	--	↔
21 OCT.1997	930	MD340	626.4	-49.5	ESE	5	10	○	0	--	↔
21 OCT.1997	1200	MD358	624.4	-46.7	SSE	7	10	○	0	--	↔
21 OCT.1997	1510	MD364	623.2	-46.1	SSE	5	20	○	0	--	
21 OCT.1997	1805	MD364	624.2	-48.8	SSE	4	30	○	0	--	
21 OCT.1997	2100	MD364	626.0	-52.5	SSE	4	20	○	0	--	
22 OCT.1997	605	MD364	628.8	-53.0	SE	4	20	○	0	--	
22 OCT.1997	900	MD364	629.8	-51.0	SE	5	20	○	0	--	
22 OCT.1997	1200	MD364	630.2	-46.5	SE	4	20	○	1	1Ci	
22 OCT.1997	1500	MD376	629.0	-46.0	SSE	3	30	◐	4	4Ci	
22 OCT.1997	1805	MD400	623.2	-49.5	S	<3	30	◐	7	0+Ac,7Ci	
22 OCT.1997	2100	MD404	623.0	-53.5	SE	<3	30	○	0+	0+Ci	
23 OCT.1997	600	MD404	621.2	-57 0	SE	5	10	○	0	--	
23 OCT.1997	900	MD404	620.2	-54.0	SE	6	10	○	0	—	
23 OCT.1997	1200	MD426	616.3	-50.3	SE	4	10	○	0	--	↔
23 OCT.1997	1505	MD440	613.6	-49.5	SE	4	20	○	0	--	↔
23 OCT 1997	1800	MD464	610.9	-51.2	SE	4	20	○	0	--	↔
23 OCT.1997	2100	MD464	610.3	-54.0	SE	5	10	○	0	--	↔
24 OCT.1997	600	MD464	608.9	-56.0	SE	5	10	○	0	--	⊹、↔

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
24 OCT.1997	900	MD466	608.7	-53.0	SE	6	10	○	0	—	↔
24 OCT.1997	1200	MD484	607.2	-51.0	SE	4	20	○	0	—	↔
24 OCT.1997	1500	MD498	606.3	-50.4	SE	4	20	○	0+	0+Ci	↔
24 OCT.1997	1800	MD522	604.9	-52.5	SE	4	30	○	0+	0+Ci	↔
24 OCT.1997	2100	MD528	604.3	-56.0	SE	3	39	○	0+	0+Ci	
25 OCT.1997	600	MD528	606.0	-56.0	SE	<3	30	○	0+	0+Ci	↔
25 OCT.1997	900	MD530	606.4	-53.0	SE	<3	30	○	1	1Ci	↔
25 OCT.1997	1300	MD550	603.9	-50.6	SE	<3	30	○	1	1Ci	↔
25 OCT.1997	1500	MD560	602.8	-50.5	SE	3	30	◐	2	2Ci	↔
25 OCT.1997	1800	MD584	599.9	-53.0	SE	<3	30	◐	4	4Ci	
25 OCT.1997	2100	MD590	598.0	-55.0	S	<3	20	◍	9	9Ci	
26 OCT.1997	600	MD590	597.6	-56.0	S	3	30	◐	8	8Ci	
26 OCT.1997	900	MD592	597.3	-55.0	SSE	3	30	○	1	1Ci	↔
26 OCT.1997	1200	MD616	596.1	-51.2	SSE	4	30	○	1	1Ci	↔
26 OCT.1997	1500	MD626	594.7	-50.0	S	3	30	○	1	1Ci	↔
26 OCT.1997	1800	MD652	593.1	-52.5	S	3	30	○	1	1Ci	
26 OCT.1997	2100	MD658	592.6	-56.5	S	<3	30	○	0+	0+Ci	
27 OCT.1997	600	MD658	591.6	-60.0	S	<3	30	○	0+	0+Ci	
27 OCT.1997	910	MD660	591.5	-55.0	S	3	30	○	0	—	↔
27 OCT.1997	1200	MD682	589.8	-51.5	S	<3	30	○	0+	0+Ci	↔
27 OCT.1997	1500	MD694	589.6	-51.5	S	<3	30	◍	9	9Ci	↔
27 OCT.1997	1800	MD710	588.3	-55.0	S	<3	30	◍	9	9Ci	↔
27 OCT.1997	2100	MD710	588.7	-62.0	S	<3	30	◐	7	7Ci	↔
28 OCT.1997	600	MD710	588.7	-65.0	SSE	<3	30	◐	2	2Ci	↔
28 OCT.1997	910	MD712	587.8	-59.0	S	<3	30	◐	7	7Ci	↔
28 OCT.1997	1200	MD726	587.4	-55.5	S	<3	20	◍	9	9Ci	↔
3 NOV.1997	2120	MD700	596.7	-53.0	S	8	1	○	0	—	⇿
4 NOV.1997	600	MD700	600.3	-56.0	S	4	5	○	1	1Ci	↔
4 NOV.1997	900	MD700	601.5	-49.3	S	4	2	◐	6	6Ci	↔
4 NOV.1997	1200	MD674	604.1	-44.5	SSE	5	3	◍	10-	10-Ci	↔
4 NOV.1997	1455	MD662	606.4	-44.3	SSE	5	5	◍	10-	10-Ci	↔
4 NOV.1997	1805	MD636	609.3	-45.5	SSE	4	10	◍	9	9Ci	↔
4 NOV.1997	2100	MD620	612.4	-49.5	SSE	5	20	◍	9	9Ci	↔
5 NOV.1997	600	MD620	617.3	-51.3	S	5	5	○	0	—	↔
5 NOV.1997	905	MD620	618.7	-45.5	S	3	20	○	0+	0+Ci	
5 NOV.1997	1200	MD596	620.3	-39.5	S	5	20	◐	8	8Ci	
5 NOV.1997	1500	MD584	623.0	-38.0	S	6	10	○	1	1Ci	↔
5 NOV.1997	1800	MD556	627.2	-39.5	SSE	6	10	○	1	1Ci	⇿、↔
5 NOV.1997	2100	MD540	630.0	-44.4	SSE	6	3	◐	2	2Ci	⇿、↔
6 NOV.1997	605	MD540	631.0	-48.5	S	5	5	◍	10-	10-Ci	⇿
6 NOV.1997	900	MD540	630.6	-42.5	SSE	7	3	◐	7	7Ci	⇿、↔
6 NOV.1997	1200	MD508	632.3	-39.4	SSE	10	0.8	⇿	2	2Ci	⇿
6 NOV.1997	1500	MD496	632.3	-38.5	SSE	12	0.8	⇿	1	1Ci	⇿
6 NOV.1997	1800	MD466	634.1	-38.6	SSE	10	2	○	0	—	⇿
6 NOV.1997	2100	MD456	633.5	-41.5	SSE	10	2	○	0	—	⇿
7 NOV.1997	600	MD456	629.0	-44.0	SSE	12	0.2	⇿	10	10⇿	⇿
7 NOV.1997	900	MD456	628.2	-39.7	SSE	11	0.1	⇿	10	10⇿	⇿
7 NOV.1997	1200	MD436	630.4	-38.0	SE	15	0.1	⇿	10	10⇿	⇿
7 NOV.1997	1510	MD430	631.2	-37.0	SE	14	0.1	⇿	10	10⇿	⇿
7 NOV.1997	1800	MD410	633.9	-38.7	SE	9	0.8	○	0	—	⇿

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
7 NOV.1997	2100	MD392	638.0	-43 0	SE	5	10	○	0+	0+Ci	
8 NOV.1997	600	MD392	638.8	-45.5	SE	8	2	○	0	—	⊣
8 NOV.1997	900	MD392	639.2	-42.1	SE	9	0.8	⊣	0	—	⊣
8 NOV.1997	1200	MD364	644.6	-39 0	SE	9	0.8	⊣	9	9-⊣	⊣
8 NOV.1997	1500	MD354	649.2	-37.1	SE	7	2	○	0	—	⊣
8 NOV.1997	1800	MD324	655 9	-37 5	SE	6	10	○	0+	0+Ci	⊣
8 NOV.1997	2100	MD310	657 6	-41.5	SE	6	2	○	1	1Ci	⊣
9 NOV.1997	620	MD310	655.5	-42 7	SE	8	2	○	0	—	⊣
9 NOV.1997	900	MD310	655.1	-38 4	SE	7	0.8	⊣	2	2Ci	⊣
9 NOV 1997	1200	MD282	662.1	-34 3	SE	9	2	○	0	-	⊣
9 NOV.1997	1510	MD270	665.1	-32.5	ESE	7	6	◐	4	4Ci	⊣
9 NOV.1997	1800	MD246	668 8	-33.0	SE	5	20	◐	6	6Ci	
9 NOV 1997	2100	MD240	673.4	-36 5	SE	5	20	◍	9	9Ci	
10 NOV.1997	600	MD240	675 9	-39.0	SE	10	0.8	⊣	7	7Ci	⊣
10 NOV.1997	900	MD240	677.2	-34.5	ESE	10	0.8	⊣	8	8Ci	⊣
10 NOV.1997	1200	MD222	684.0	-32.8	ESE	10	0.8	⊣	8	8Ci	⊣
10 NOV.1997	1500	MD210	689.3	-32.3	ESE	9	2	◍	10-	10-Ci	⊣
10 NOV.1997	1810	MD188	696.4	-33 0	ESE	7	20	○	0+	0+Ci	↔
10 NOV 1997	2100	MD180	699.4	-36 0	SE	8	20	○	0+	0+Ci	↔
11 NOV.1997	600	MD180	699.8	-40.5	SE	10	20	○	0+	0+Ci	⊣
11 NOV.1997	900	MD180	699.8	-36.0	SE	9	20	○	0+	0+Ci	↔
11 NOV.1997	1200	MD160	708.3	-31.2	ESE	6	30	○	0	—	
11 NOV.1997	1500	MD150	712.3	-29.4	ESE	5	30	○	0	—	
11 NOV.1997	1800	MD126	719.7	-30.2	ESE	6	30	○	0+	0+Ci	
11 NOV.1997	2100	MD120	722.6	-34.5	ESE	6	30	○	0	—	
12 NOV.1997	600	MD120	724.0	-37 5	ESE	7	30	○	0	—	
12 NOV.1997	900	MD120	724.0	-32.2	ESE	7	30	○	0	—	
12 NOV.1997	1200	MD100	730.9	-27.6	ESE	6	30	○	0	—	
12 NOV.1997	1500	MD88	734.1	-25.0	ESE	6	30	○	0	—	
12 NOV.1997	1805	MD76	738.5	-26.5	ESE	5	30	○	0+	0+Ci	
12 NOV.1997	2105	MD60	741.5	-30.0	ESE	8	30	○	0	—	
13 NOV.1997	600	MD60	740.5	-33 4	ESE	10	10	○	0+	0+Ci	⊣
13 NOV.1997	900	MD60	740.0	-29 0	ESE	11	10	○	0+	0+Ci	⊣
13 NOV.1997	1200	MD50-52	746.8	-23.0	ESE	12	10	○	1	1Ci	
13 NOV.1997	1500	MD24	750.4	-21.5	ESE	10	20	○	1	0+Ac, 1Ci	
13 NOV.1997	1805	MIZUHO	758.0	-22.0	E	9	20	◐	3	0+Ac, 3Ci	
13 NOV.1997	2100	MIZUHO	758.1	-26.5	ESE	10	20	◐	8	2Ac, 8Ci	
14 NOV.1997	605	MIZUHO	759.9	-29.7	ESE	12	20	◐	8	0+Ac, 8Ci	
14 NOV.1997	900	MIZUHO	759.9	-25.3	ESE	12	20	◐	7	1Ac, 7Ci	
14 NOV.1997	1200	MIZUHO	760.1	-20.9	ESE	10	20	◍	9	1Ac, 9Ci	
14 NOV.1997	1500	MIZUHO	760.6	-19 5	ESE	9	20	◐	8	8Ci	
14 NOV.1997	1805	MIZUHO	760.6	-21.9	ESE	8	20	◐	6	6Ci	
14 NOV.1997	2105	MIZUHO	760.9	-26.0	ESE	9	30	◐	2	2Ci	
15 NOV.1997	600	MIZUHO	760.4	-30.2	ESE	14	10	○	0+	0+Ac	⊣
15 NOV.1997	900	MIZUHO	760.4	-25.3	ESE	15	8	○	0+	0+Ci	⊣
15 NOV.1997	1200	MIZUHO	760.4	-21.5	ESE	13	8	○	0	—	⊣
15 NOV.1997	1500	Z92	765.0	-18 9	ESE	11	8	○	0+	0+Ci	⊣
15 NOV.1997	1800	Z58	771 3	-19.7	E	11	10	○	1	1Ci	⊣
15 NOV.1997	2100	Z38	772.4	-22 5	E	14	2	◐	3	1Ac, 3Ci	⊣
16 NOV.1997	600	Z38	764.0	-23.3	E	17	0 2	⊣	10-	9Ac, XCi	⊣

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
16 NOV.1997	900	Z38	760.9	-18.4	ESE	18	0.2	⊹	10	10⊹	⊹
16 NOV.1997	1200	Z12	766.3	-16.0	E	19	0.2	⊹	10	10⊹	⊹
16 NOV.1997	1500	Z0	771.6	-15.0	ESE	18	0.1	✳	10	10✳	✳
16 NOV.1997	1805	H264	784.4	-14.3	E	15	0.2	⊹	10	10⊹	⊹
16 NOV.1997	2100	H236	792.0	-16.5	E	14	0.8	✳	10	10✳	✳
17 NOV.1997	600	H236	791.5	-20.8	E	12	0.8	⊹	8	3Ac, 7Ci	⊹
17 NOV.1997	900	H236	792.8	-18.7	E	9	2	◐	7	7Ac	⊹
17 NOV.1997	1200	H168	814.5	-14.0	E	6	10	✳	10-	10-Sc	✳
17 NOV.1997	1500	H152	821.9	-13.0	NNE	4	10	✳	10	10Sc	✳
17 NOV.1997	1800	H112	837.0	-12.8	NNW	3	0.8	✳	10	10Sc	✳
17 NOV.1997	2100	H77	852.8	-13.9	N	<3	3	✳	10	10Sc	✳
18 NOV.1997	600	H77	859.8	-12.7	NNE	<3	2	✳	10	10Sc	✳
18 NOV.1997	900	H77	861.6	-10.1	C	—	10	✳	9	9Sc	✳
18 NOV.1997	1200	S27	896.1	-8.5	ESE	<3	30	◐	3	0+St, 3Sc	
18 NOV.1997	1500	S21	923.0	-4.8	ESE	<3	30	○	1	0+Sc, 1Ac	
18 NOV.1997	1800	S16	937.2	-10.1	ESE	3	30	◐	3	1Sc, 3Ac	
18 NOV.1997	2100	S16	936.1	-13.2	ESE	6	20	◐	3	0+Sc, 3Ac	⊹
19 NOV.1997	600	S16	932.1	-16.2	ESE	9	20	○	0+	0+Ac	⊹
19 NOV.1997	915	S16	930.7	-11.0	ESE	6	30	○	0	—	
19 NOV.1997	1200	S16	929.7	-5.8	ESE	<3	30	○	0	—	

Table 5-7. Meteorological data observed during the traverses 4-a and 4-b.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL	
22 NOV.1997	14:30	DF95	622.3	-30.3	ESE	4.8	30	○	0		
22 NOV.1997	21:15	DF115	623.8	-36.8	E	5.0	30	○	0		
23 NOV.1997	8:20	DF115	622.5	-36.2	E	4.5	30	○	0+	0+Ci	
23 NOV.1997	14:30	DF135	622.7	-29.9	E	5.9	30	○	0		
23 NOV.1997	21:00	Dome Camp	620.5	-36.2	E	4.5	20	○	0		
24 NOV.1997	10:00	Dome Camp	619.0	-33.2	NE	6.0	30	○	0+	0+Ci	
24 NOV.1997	15:00	Dome Camp	618.1	-29.8	NE	5.7	30	○	0+	0+Ci	
24 NOV.1997	20:40	Dome Camp	617.7	-38.2	NE	-	30	○	0+	0+Ci	
25 NOV.1997	9:00	Dome Camp	618.0	-34.8	NE	-	30	◍	9	XCi;XCs	
25 NOV.1997	14:40	Dome Camp	617.7	-29.2	NW	-	30	◑	3	XCi	
25 NOV.1997	20:30	Dome Camp	617.8	-38.7	NW	-	5	◍	10-	2Ci;8Cs	
26 NOV.1997	8:15	Dome Camp	618.0	-36.3	NW	2.8	5	◑	7	6Ci;2Cs	
26 NOV.1997	15:00	DF30	615.4	-26.1	WSW	5.9	5	◍	10-	10-Cs;7Ci	
26 NOV.1997	21:00	DF50	614.5	-36.0	NW	2.2	10	◍	9	7Cs;5Ci	
27 NOV.1997	9:15	DF55	612.0	-32.5	NW	2.0	10	◍	10-	10-Cs;7Ci	
27 NOV.1997	15:10	DF80	609.5	-27.0	N	-	10	◍	9	7Ci;3Cs	
8 DEC.1997	13:30	S77°26',E41°29'	606.0	-28.4	NW	3.5	30	◍	10-	8Cs;2Ci	↔
8 DEC.1997	20:50	S78°01',E41°10'	608.2	-33.9	NNW	3.0	30	◍	10-	8Ci;2Cs	↔
9 DEC.1997	6:00	S78°01',E41°10'	608.9	-38.7	NNW	<3	30	◑	5	3Ci;2Cs	↔
9 DEC.1997	13:00	S78°32',E40°47'	612.8	-29.2	NNW	5.0	20	◍	10-	3Ci;7Cs	↔
9 DEC.1997	20:30	S79°02',E40°35'	615.1	-32.6	N	3.5	15	◍	10-	2Ci;8Cs	↔
10 DEC.1997	6:00	S79°02',E40°35'	615.6	-35.4	N	4.5	15	◍	10-	5Ci;5Cs	↔
10 DEC.1997	13:20	S79°12',E40°31'	615.3	-27.8	NNW	5.0	20	◍	10-	2Ci;8Cs	↔,⇿
10 DEC.1997	20:35	S79°00',E42°30'	613.1	-33.0	NW	<3	30	○	0+	0+Ci	↔
11 DEC.1997	9:00	S79°00',E42°30'	612.7	-31.8	NNW	3.0	20	○	0+	0+Ci	
11 DEC.1997	16:15	S79°00',E42°30'	611.7	-26.0	N	4.0	20	◍	10-	5Ci;5Cs	↔
11 DEC.1997	19:30	S79°00',E42°30'	610.7	-28.9	NNE	4.0	20	◍	10-	8Cs;2Ci	↔
12 DEC.1997	7:00	S79°00',E42°30'	611.7	-32.2	NNE	5.5	5	◍	10-	10-Cs	↔,⇿
12 DEC.1997	14:00	S79°00',E42°30'	609.6	-27.0	NNE	8.0	0.5	⇿	10	10Cs	↔,⇿
12 DEC.1997	19:30	S79°00',E42°30'	609.0	-27.2	NNE	7.0	1	◍	10-	8Cs;2Ci	↔,⇿
13 DEC.1997	6:45	S79°00',E42°30'	611.7	-32.5	N	4.0	10	○	0		↔
13 DEC.1997	13:45	S79°00',E42°30'	611.6	-27.3	N	5.5	10	○	0+	0+Ac	⇿
13 DEC.1997	19:30	S79°00',E42°30'	612.1	-28.2	N	4.0	30	○	0+	0+Ac	↔
14 DEC.1997	6:45	S79°00',E42°30'	612.1	-33.2	N	3.5	20	◍	9	5Ci;4Cs	↔
14 DEC.1997	13:40	S79°00',E42°30'	614.5	-26.9	NNE	6.5	5	◍	10-	8Ci;2Cs	↔,⇿
14 DEC.1997	19:30	S79°00',E42°30'	614.6	-28.2	N	6.0	20	◑	7	5Ci;2Cs	⇿
15 DEC.1997	6:30	S79°00',E42°30'	617.2	-32.3	N	<3	30	◑	5	4Ci;1Cs	
15 DEC.1997	13:40	S79°00',E42°30'	616.7	-26.1	NNW	5.0	30	◑	3	3Ci	
15 DEC.1997	19:30	S79°00',E42°30'	616.9	-28.3	N	<3	30	○	0+	0+Ac;0+Ci	
16 DEC.1997	8:30	S79°00',E42°30'	618.8	-30.8	N	4.0	20	◑	4	4Ci	↔
16 DEC.1997	13:40	S79°00',E42°30'	619.5	-27.3	NNE	5.5	10	◑	4	3Cs;1Ci	↔,⇿
16 DEC.1997	19:30	S79°00',E42°30'	619.9	-28.2	NNE	4.5	20	◑	3	3Cs;0+Ci	↔,⇿
17 DEC.1997	6:45	S79°00',E42°30'	622.2	-29.8	N	5.0	10	◑	4	3Cs;1Ci	↔,⇿
17 DEC.1997	13:30	S79°00',E42°30'	622.3	-25.8	N	7.0	5	◑	6	3Cs;3Ci	↔,⇿
17 DEC.1997	19:30	S79°00',E42°30'	622.4	-28.2	N	4.0	30	○	0+	0+Ac;0+Ci	
18 DEC.1997	6:00	S79°00',E42°30'	622.5	-32.4	N	3.0	30	○	0+	0+Ac	
18 DEC.1997	13:30	S78°31',E41°18'	622.5	-24.8	NE	7.0	5	◍	10-	10-Cs	
18 DEC.1997	21:00	S78°00',E40°00'	615.0	-24.5	NE	8.5	0.1	⇿	10	10As	⇿
19 DEC.1997	6:50	S78°00',E40°00'	616.0	-24.6	NE	6.5	0.5	◍	10	10Cs	↔,⇿
19 DEC.1997	13:30	S78°00',E40°00'	616.3	-20.8	NNE	8.0	0.5	◎	10	9As;1Cs	↔,⇿
19 DEC.1997	19:30	S78°00',E40°00'	617.3	-22.0	N	3.5	20	◍	10-	4Cs;3Cc;2Ci;3A	↔,⇿
20 DEC.1997	7:00	S78°00',E40°00'	619.2	-24.8	N	5.0	20	◍	10-	5Cs;5Ci	
20 DEC.1997	13:00	S77°34',E39°44'	615.8	-21.5	NNE	5.5	20	◍	9	6Cs;2Ci;1As	⇿

Table 5-8. Meteorological data observed during the traverse 5-a.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL
17 JAN.1998	20:40	MD681		-34.6	SE	3.2	30	◐	0+	0+Ci
18 JAN.1998	8:15	MD681		-37.2	SE	2.8	30	◐	4	4Ci
18 JAN.1998	20:50	MD568		-34.5	SE	3.0	30	◐	2	2Ci
19 JAN.1998	8:40	MD568		-35.2	SE	4.4	30	◐	3	3Ci
19 JAN.1998	20:45	MD486		-35.3	SE	2>	30	◐	0+	0+Ci
20 JAN.1998	8:20	MD486		-37.4	SE	3.3	30	◐	6	6Ci
20 JAN.1998	14:00	MD444		-30.8	ESE	5.5	30	◐	0+	0+Ci
21 JAN.1998	0:30	MD364		-38.9	SE	2.9	30	◐	1	1Ci
21 JAN.1998	12:15	MD364		-31.3	E	3.6	30	◐	0+	0+Ci
21 JAN.1998	21:10	MD364		-35.1	SE	2.3	30	◐	0+	0+Ci
22 JAN.1998	11:00	MD364		-31.2	ESE	4.5	10	◐	0	
22 JAN.1998	20:40	MD318		-32.2	ESE	3.0	30	◐	0	
23 JAN.1998	8:40	MD318		-32.8	SE	4.4	30	◐	0+	0+Ci
23 JAN.1998	20:40	MD248		-32.2	SE	2.0	30	◐	0	
24 JAN.1998	8:30	MD248		-33.6	SE	5.0	30	◐	0	
24 JAN.1998	21:20	MD173		-28.9	E	4.2	30	◐	8	6Ci, 2Cs
25 JAN.1998	11:40	MD150	700	-22.6	E	5.5	30	◐	4	4Ci, 1Cs
25 JAN.1998	15:20	MD150	700	-20.6	E	6.5	30	◐	6	6Ci, 1Cs
25 JAN.1998	18:30	MD150	700	-21.0	E	5.8	30	●	10-	10-Cs, 7Ci
25 JAN.1998	20:30	MD150	700	-23.1	E	5.3	30	●	9	9Cs, 6Ci
26 JAN.1998	7:30	MD150		-23.2	E	7.5	0.5	●	10-	9Cs, 7Ci
26 JAN.1998	21:20	MD75		-20.5	E	8.5	10	◐	8	8Ac
27 JAN.1998	9:30	MD74		-19.0	E	9.0	0.5	●	9	9Ac, 1As
27 JAN.1998	21:50	Mizuho	742	-20.3	E	8.5	5	◐	6	2Ac, 5Ci
28 JAN.1998	8:20	Mizuho	744	-20.2	E	10.0	5	◐	7	7Ci
28 JAN.1998	14:30	Mizuho		-15.5	E	8.5	5	●	9	9Cs, 6Ci
28 JAN.1998	21:25	Z76	752	-20.1	ENE	6.7	10	◐	7	2As, 6Ci
29 JAN.1998	7:10	Z76	752	-22.2	E	10.2	5	●	9	7Cs, 9Ci
29 JAN.1998	14:05	Z3	773	-11.5	E	6.7	10	●	10-	10-Cs
29 JAN.1998	21:35	H167		-14.0	ENE	2>	10	●	10-	9Ac, 2Ci
30 JAN.1998	8:20	H167	823	-14.5	ENE	5.2	30	◐	2	2Ci, 0+Ac
30 JAN.1998	14:20	H83	850	-7.5	N	2.8	30	◐	3	3Ci, 0+Ac
30 JAN.1998	19:45	S30	872	-11.6	E	2.7	30	◐	8	8Ci, 2Ac
31 JAN.1998	7:30	S30		-10.5	E	8.0	5	●	10-	
31 JAN.1998	8:00	S30		-9.3	E	7.0	5	●	10-	10-Cs, 5Ci, 4As
31 JAN.1998	8:40	S30		-8.3	ENE	8.0	5	◐	7	5As, 6Ci
31 JAN.1998	9:15	S30					5	◐	5	2As, 4Ci
31 JAN.1998	10:00	S30		-8.7	ENE	6.8	10	◐	6	4Ac, 2Ci
31 JAN.1998	11:00	S30		-7.0	ENE	7.0	5	●	9	9Ac
31 JAN.1998	21:10	S30		-10.8	E	7.0	20	◐	7	6Ac, 4Ci
1 FEB.1998	8:20	S30		-9.3	E	9.2	5	◐	8	8Ac

Table 5-9. Meteorological data observed during the traverse 4-b.

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL
24 JAN.1998	12:00	Dome Fuji	596.3	-34.5	S	3.0	20	↔	2	2 Ci
24 JAN.1998	15:00	Dome Fuji	596.6	-32.5	E	3.0	30	○	0+	0+Ci
24 JAN.1998	18:00	MD690	599.1	-32.5	E	2.0	30	○	0+	0+Ci
24 JAN.1998	21:00	MD690	599.9	-40.0	ESE	3.0	30	○	0+	0+Ci
25 JAN.1998	0:00	MD690	600.6	-41.0	ESE	2.0	30	○	0+	0+Ci
25 JAN.1998	9:00	MD690	603.0	-38.0	-	0.0	20	○	0+	0+Ci
25 JAN.1998	12:30	MD664	606.3		N	1.0	20	○	0+	0+Ci
25 JAN.1998	14:30	MD650	607.9	-31.5	NW	2.0	20	○	0+	0+Ci
25 JAN.1998	18:00	MD620	610.9	-34.0	ENE	1.0	20	◐	2	2 Ci
25 JAN.1998	21:00	MD620	611.7	-39.0	ESE	3.0	20	◐	8	8 Ci
26 JAN.1998	0:00	MD620	612.9	-42.0	ESE	3.5	20	◐	10-	10-Ci
26 JAN.1998	6:30	MD620	614.4	-41.0	ESE	3.0	20	○	0+	0+Ci
26 JAN.1998	8:15	MD620	614.3	-35.0	ESE	3.0	20	○	0+	0+Ci
26 JAN.1998	14:40	MD550	621.0	-23.0	ESE	5.5	20	○	0+	0+Ci
26 JAN.1998	21:00	MD500	625.4	-36.5	SE	6.0	20	○	0+	0+Ci
27 JAN.1998	0:00	MD500	625.6	-39.5	SE	5.5	20	◐	4	0+Ac 4 Ci
27 JAN.1998	6:30	MD500	626.8	-38.0	SE	6.0	30	◍	10-	10-Ci
27 JAN.1998	8:00	MD500	625.3	-32.0	SE	5.0	30	◍	10-	10-Ci
27 JAN.1998	14:15	MD430	632.3	-28.0	ESE	6.5	20	◍	10-	4 Ci 6 Cs
27 JAN.1998	19:30	MD364	642.7	-29.0	ESE	7.0	30	○	0+	0+Ci
27 JAN.1998	21:00	MD364	642.8	-32.5	ESE	7.0	30	○	0+	0+Ci
28 JAN.1998	0:00	MD364	643.2	-37.0	ESE	7.0	30	○	0+	0+Ci
28 JAN.1998	7:00	MD364	644.8	-34.0	ESE	6.5	30	○	0+	0+Ci
28 JAN.1998	10:00	MD364	644.1	-30.0	ESE	7.0	30	○	0+	0+Ci
28 JAN.1998	12:00	MD364	645.2	-27.0	ESE	8.5	30	◐	2	2 Ci
28 JAN.1998	15:00	MD364	644.8	-26.5	ESE	7.0	30	○	1	1 Ci
28 JAN.1998	18:00	MD364	644.5	-27.0	ESE	6.5	30	○	1	1 Ci
28 JAN.1998	21:00	MD364	644.8	-30.0	ESE	6.5	30	◍	10-	10-Ci
29 JAN.1998	0:00	MD364	645.1	-35.0	ESE	6.5	30	◍	10-	10-Ci
29 JAN.1998	6:15	MD364	646.0	-36.0	ESE	6.0	30	◐	8	8 Ci
29 JAN.1998	9:20	MD364	644.3	-31.0	ESE	7.5	30	◍	10-	10-Ci
29 JAN.1998	11:40	MD364	644.3	-27.5	ESE	6.5	30	◍	10-	10-Ci
29 JAN.1998	17:00	MD294	659.2	-24.0	ESE	6.0	20	◐	2	2 Ci
29 JAN.1998	18:00	MD294	658.9	-25.5	ESE	6.0	20	◐	4	4 Ci
29 JAN.1998	21:00	MD294	659.1	-30.5	ESE	6.0	30	○	0+	0+i
30 JAN.1998	0:00	MD294	659.5	-34.5	ESE	8.0	30	◐	2	0+Ci 2 Cs
30 JAN.1998	6:00	MD294	661 3	-33.5	ESE	7.5	20	◍	10-	10-Ci
30 JAN.1998	8:25	MD294	659.6	-30.0	ESE	9.5	20	◍	10-	6 Ci 4 Cs
30 JAN.1998	12:45	MD244	672.4	-21.0	ESE	9.0	10	⊹	10-	10-Cs
30 JAN.1998	15:55	MD214	682.4	-20.5	ESE	9.0	10	⊹	10-	2 As 10-Cs
30 JAN.1998	18:00	MD200	685.4	-22.0	ESE	9.5	20	⊹	10-	2 As 4 Ci 6 Cs
30 JAN.1998	21:00	MD200	686.0	-25.0	ESE	10.0	20	⊹	10-	10-Ac X Ci
31 JAN.1998	0:00	MD200	687.3	-29.0	ESE	10.0	20	⊹	8	1 Ac 8 Ci
31 JAN.1998	6:00	MD200	690.3	-30.0	ESE	10.0	10	⊹	10-	0+Ac 10-Ci
31 JAN.1998	8:25	MD200	688.2	-27.0	ESE	10.0	10	⊹	10-	0+Ac 10-Ci

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL
31 JAN.1998	10:20	MD180	694.1	-21.0	ESE	12.0	20	⊹	8	0+Ac 2 Cc 6 Ci
31 JAN.1998	12:40	MD160	702.2	-22.0	ESE	10.0	20	◐	8	0+Ac 8 Ci
31 JAN.1998	15:30	MD140	708.3	-20.0	E	8.0	30	◐	6	0+Ac 6 Ci
31 JAN.1998	18:00	MD120	714.5	-20.0	E	8.0	30	◐	8	0+Ac 8 Ci
31 JAN.1998	21:00	MD120	715.5	-24.5	E	8.0	30	○	0+	0+Ci
1 FEB.1998	0:00	MD120	716.3	-29.0	E	8.0	30	○	0+	0+Ci
1 FEB.1998	6:30	MD120	718.2	-29.0	E	7.5	30	○	0+	0+Ci
1 FEB.1998	8:10	MD120	716.8	-26.0	E	6.5	30	○	0+	0+Ci
1 FEB.1998	12:10	MD80	727.7	-21.0	E	9.0	30	○	0+	0+Ci
1 FEB.1998	15:00	MD70	729.0	-20.0	E	7.5	30	○	0+	0+Ac 0+Ci
1 FEB.1998	18:50	MD20	741.7	-19.5	E	4.0	30	○	0+	0+Ci
1 FEB.1998	21:00	Mizuho	747.2	-25.0	E	6.5	30	○	0+	0+Ac 0+Ci
2 FEB.1998	0:00	Mizuho	746.9	-27.0	E	10.0	20	◎	10-	8 Ac x Ci
2 FEB.1998	6:20	Mizuho	748.3	-20.0	E	8.0	20	◎	10-	10-Ac
2 FEB.1998	9:20	Mizuho	745.9	-18.0	E	9.0	20	◎	9	9 Ac
2 FEB.1998	12:00	Mizuho	745.1	-15.0	E	11.5	20	◎	10-	10-Ac
2 FEB.1998	15:00	Mizuho	744.6	-14.5	E	12.5	20	◐	5	5 Ac
2 FEB.1998	18:00	Mizuho	744.1	-15.5	E	11.0	20	◐	8	8 Ac
2 FEB.1998	21:00	Mizuho	743.8	-20.0	E	9.0	20	⊹	8	8 Ac
3 FEB.1998	0:00	Mizuho	744.0	-24.0	E	11.5	10	⊹	4	4 Ac
3 FEB.1998	6:20	Mizuho	747.0	-27.0	E	15.0	0.1	⊹	1 10-	10-Ac
3 FEB.1998	9:00	Mizuho	745.6	-25.0	E	13.0	0.1	⊹	1 2	2 Ac
3 FEB.1998	12:00	Mizuho	742.6	-21.0	E	14.0	0.2	⊹	2 2	2 Ac
3 FEB.1998	15:00	Mizuho	742.1	-19.5	E	14.0	0.5	⊹	5 0+	0+Ac 0+Ci
3 FEB.1998	18:00	Mizuho	741.6	-21.0	E	12.0	5	⊹	0+	0+Ac 0+Ci
3 FEB.1998	21:00	Mizuho	742.1	-24.5	E	11.0	10	⊹	0+	0+Ac 0+Ci
4 FEB.1998	0:00	Mizuho	742.1	-28.0	E	14.0	5	⊹	0+	0+Ac
4 FEB.1998	6:00	Mizuho	745.6	-28.5	E	14.0	0.2	⊹	2 1	1 Ac 0+Ci
4 FEB.1998	8:30	Mizuho	743.9	-26.0	E	12.5	0.3	⊹	3 8	8 Ac
4 FEB.1998	12:30	Z38	753.9	-17.0	ENE	12.0	0.5	⊹	5 10-	6 Ac 10-Ci
4 FEB.1998	15:45	Z2	768.6	-15.0	ENE	11.0	2	⊹	0 10-	10-Ac
4 FEB.1998	18:00	H260	785.4	-14.0	ENE	9.0	10	⊹	8	2 Ac 6 Ci
4 FEB.1998	21:00	H260	784.7	-18.0	ENE	10.0	10	⊹	0+	0+Ac 0+Ci
5 FEB.1998	0:00	H260	783.4	-21.0	ENE	12.5	10	⊹	0+	0+Ac 0+Ci
5 FEB.1998	6:20	H260	782.0	-21.0	ENE	16.5	10	⊹	10-	10-Ac
5 FEB.1998	8:45	H260	781.3	-17.0	ENE	14.0	10	⊹	10-	10-Ac
5 FEB.1998	12:00	H172	891.3	-11.0	ENE	14.0	10	⊹	1	1 Ac 0+Ci
5 FEB.1998	17:30	H42	843.6	-8.5	ENE	11.5	10	⊹	0+	0+Ac 0+Ci
5 FEB.1998	21:00	H15	851.6	-12.5	ENE	12.0	10	⊹	0+	0+Ac 0+Ci
6 FEB.1998	0:00	H15	851.6	-14.5	ENE	12.0	20	○	0+	0+Ac 0+Ci
6 FEB.1998	6:20	H15	849.9	-14.0	ENE	10.0	30	○	1	1 Ac
6 FEB.1998	8:15	H15	852.0	-12.0	ENE	9.5	20	◎	10-	10-Ac
6 FEB.1998	12:00	S16	903.1	-4.0	ENE	10.0	20	◐	8	8 Ac
6 FEB.1998	15:00	S16	906.0	-4.0	ENE	6.5	20	◎	10-	10-Ac
6 FEB.1998	18:30	S16	908.0	-4.0	N	1.0	10	✳	10-	10-St X Ac

Date	LT	Station	Pa	Ta	WD	WS	V	W	N	CL
6 FEB.1998	21:00	S16	910.0	-4.0	-	0.0	20	✳	10-	10-St X Ac
7 FEB.1998	0:00	S16	910.0	-6.5	ENE	4.0	10	◎	10-	10-St
7 FEB.1998	6:00	S16	914.0	-6.5	ENE	4.5	20	◎	10	10 St
7 FEB.1998	12:00	S16	917.0	-2.0	ENE	3.5	20	✳	10	2 Cu 8 Sc
7 FEB.1998	15:45	S16	916.0	-3.5	N	4.0	20	◎	10-	8 Cu 2 Sc
7 FEB.1998	18:10	S16	917.0	-6.0	N	3.0	20	◎	10-	8 Cu 2 Sc
7 FEB.1998	21:00	S16	917.0	-8.0	NE	4.0	20	◎	10-	2 Sc 8 Ac
8 FEB.1998	0:00	S16	917.0	-8.0	E	5.0	20	◎	10-	2 Sc 8 Ac
8 FEB.1998	5:45	S16	917.0	-10.0	ESE	8.5	20	◎	9	9 Ac
8 FEB.1998	9:00	S16	917.0	-10.0	ESE	4.0	20	○	1	0+Sc 1 Ac