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## Glaciological Data Collected by the 45th, 46th and 47th Japanese Antarctic Research Expeditions during 2004 - 2007

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### CONTENTS

- |   |       |   |
|---|-------|---|
| 1. Outline of field observations during 2004 - 2007 | ----- | 2 |
| 2. Net accumulation of snow by the stake method     | ----- | 4 |

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### 1. Outline of field observations during 2004 - 2007

A five-year glaciological program, the deep ice coring project II at Dome Fuji ( $77^{\circ}19'01''\text{S}$ ,  $39^{\circ}42'11''\text{E}$ ; 3810 m a.s.l.), East Antarctic ice sheet, was started in 2001. The Japanese Antarctic Research Expedition (JARE) succeeded in a deep ice core down to 3035.22 m in depth in January 26, 2007 (Motoyama, 2007). During the traverse between coastal S16 point and inland Dome Fuji, surface snow accumulation was measured by JARE members. The observation of surface snow accumulation was conducted in the monitoring program of surface mass balance on ice sheet.

Kameda *et al.* (2007) reported the glaciological data collected by the 44th Japanese Antarctic Research Expedition during 2003-2004. The observational data during 2004-2007 by the 45th, 46th and 47th JAREs are reported here.

Oversnow traverses and observations carried out in this period are shown in Fig.1. Tables 1-1, 1-2 and 1-3 show a summary of observational periods.

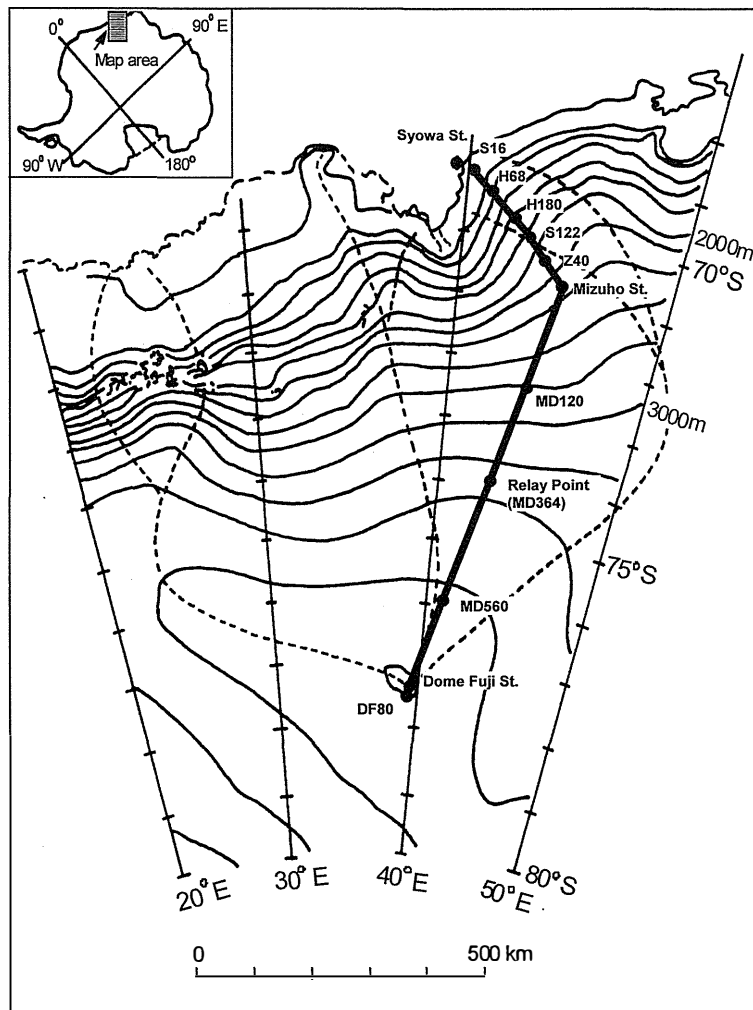


Fig. 1. Location map of the traverse routes.

Table 1-1. Observational periods of net snow accumulation along S16 - Mizuho Station - Dome Fuji Station route.

S16 - Mizuho St.		Mizuho St. - Dome Fuji St.	
Obs. Date	Obs. Period	Obs. Date	Obs. Period
03-06 Feb. 2004	(days) 366-367	23 Jan.-03 Feb. 2004	(days) 366-369
03-07 Feb. 2005	367-368	26 Jan.-03 Feb. 2005	364-368
06-10 Feb. 2006	355-356	25 Jan.-06 Feb. 2006	356-358
28-31 Jan. 2007		18-28 Jan. 2007	

Table 1-2. Observational periods of net snow accumulation in the 36 stake farm.

S16		H68		H180		S122		Z40		Dome Fuji St.	
Obs. Date	Obs. Period	Obs. Date	Obs. Period	Obs. Date	Obs. Period	Obs. Date	Obs. Period	Obs. Date	Obs. Period	Obs. Date	Obs. Period
06 Feb. 2004	(days) 367	31 Dec. 2002	(days) 767	01 Jan. 2003	(days) 765	03 Jan. 2003	(days) 764	03 Jan. 2003	(days) 764	15 Jan. 2004	(days) 367
07 Feb. 2005	368	05 Feb. 2005	369	04 Feb. 2005	369	04 Feb. 2005	369	04 Feb. 2005	368	16 Jan. 2005	364
10 Feb. 2006	356	09 Feb. 2006	355	08 Feb. 2006	355	08 Feb. 2006	355	07 Feb. 2006	355	15 Jan. 2006	359
01 Feb. 2007		30 Jan. 2007		29 Jan. 2007		29 Jan. 2007		28 Jan. 2007		09 Jan. 2007	

Table 1-3. Observational periods of net snow accumulation in the 101 and 50 stake row.

Mizuho St.		MD180		MD364		MD560		DF80	
Obs. Date	Obs. Period	Obs. Date	Obs. Period	Obs. Date	Obs. Period	Obs. Date	Obs. Period	Obs. Date	Obs. Period
03 Feb. 2004	(days) 734	01 Feb. 2004	(days) 365	27 Jan. 2004	(days) 368	24 Jan. 2004	(days) 369	16 Dec. 2003	(days) 397
06 Feb. 2006	356	31 Jan. 2005	369	29 Jan. 2005	369	27 Jan. 2005	368	16 Jan. 2005	374
28 Jan. 2007		04 Feb. 2006	356	02 Feb. 2006	356	30 Jan. 2006	355	25 Jan. 2006	354
		26 Jan. 2007		24 Jan. 2007		20 Jan. 2007		14 Jan. 2007	

## 2. Net accumulation of snow by the stake method

Net accumulation of snow was measured by the stake method along the oversnow traverse routes in the 2004-07 seasons (Fig. 1).

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

Stake heights along the route were measured in February 2004, 2005, 2006 and January 2007. The height differences, which approximate the net balance of snow during the intervals, are tabulated in Table 2-1. Minimum readings were 1.0 cm.

### 2.2. Route MD (Dome Fuji route)

Stake heights along the route from IM0 to MD738 and DF80 were measured in January and February 2004, 2005, 2006 and January 2007. All data along the route are shown in Table 2-2. Minimum readings were 1.0cm.

### 2.3. 36-stake farms, 50-stake row and 101-stake row along the route

36-stake farms (100 m × 100 m in area as shown in Fig. 2) were set up at S16, H68, H180, S122 and Z40 along the Mizuho route and Dome Fuji Station. Stake heights in the farms were measured mainly in January or February 2004, 2005, 2006 and 2007. The results at S16, H68, H180, S122, Z40 and Dome Fuji Station are shown in Tables 2-3, -4, -5, -6, -7 and -8, respectively. The last column of each 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. Some of the stakes were short, so we set up new stakes near the old ones.

A 101-stake row located at Mizuho Station was measured in February 2004, 2006 and January 2007. The results of the measurements are given in Table 2-9. The stake numbers are shown in Fig. 3. Some of the stakes were short, so we set up new stakes near the old ones.

50-stake rows were measured at MD180, MD364, MD560 and DF80 mainly in January 2004, 2005, 2006 and 2007. These stake rows are perpendicular to the prevailing wind direction, and the distance between stakes is 2m as shown in Fig. 4. The results are shown in Tables 2-10, -11, -12 and -13.

## Acknowledgments

We would like to express our sincere thanks to all members of JARE-45, -46 and -47 who extended generous and long term support.

## References

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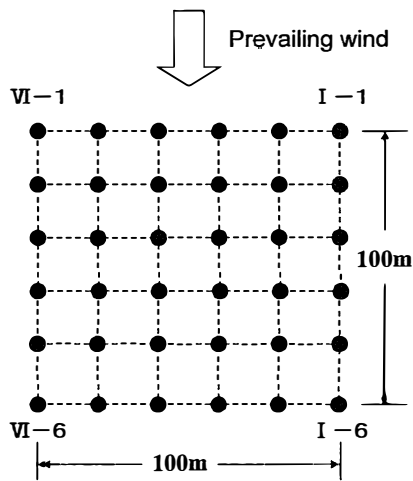


Fig. 2. 36-stake farm at S16, H68, H180, S122, Z40 and Dome Fuji Station.

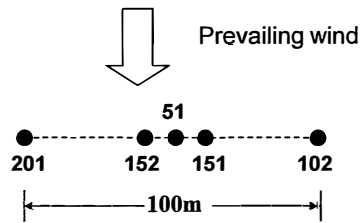


Fig. 3. 101-stake row at Mizuho Station.

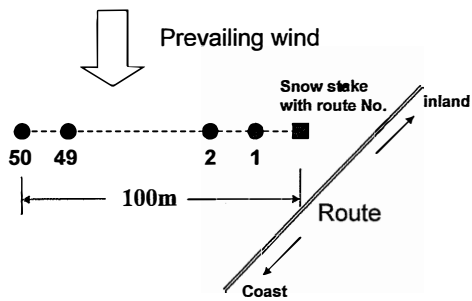


Fig. 4. 50-stake row at MD180, MD364, MD560 and DF80.

Table 2-1. Net snow accumulation along Route S-H-Z (Mizuho route) in 2004-2007.

	(cm in depth)			
	03-06 Feb. 2004 (366 to 367 days)	03-07 Feb. 2005 (367-368 days)	06-10 Feb. 2006 (355-356 days)	28-31 Jan. 2007
S16				12
S17		55		-34
S18		87		
S19				13
S20	47			57
S21	56			47
S22		74		50
S23				58
S24	36	62		
S25		74		
S26	64	88		36
S27		77		7
S28	63	74		35
S29	94			-29
S30	86			42
H3	66			-62
H9	78	59		34
H15	85	59		51
H21	41			33
H27	86			44
H35	63	85		
H42	51	46		16
H48	26	73		41
H54	40	56		40
H60	59			44
H64	48	62		54
H68	7	35		13
H72	69	93		
H76	37	59		17
H80	24	50		14
H84	27	68		19
H88	53	79		31
H92	32	58		13
H96	51	63		34
H100	42	37		32
H104	27	38		25
H108	35	38		21
H112	21	41		3
H116	19	34		38
H120	38	51		24
H124	21	36		2
H128	26	48		22
H132	47	52		20
H136	26	59		21
H140	24	53		28
H144	16	48		23
H148	44			31
H152	27	36		16
H156	19	35		6

Table 2-1 (continued).

	(cm in depth)			
	03-06 Feb. 2004 (366 to 367 days)	03-07 Feb. 2005 (367-368 days)	06-10 Feb. 2006 (355-356 days)	28-31 Jan. 2007
H160	7	34		12
H164	34	50		26
H168	43	45		19
H172	39	27		12
H176	13			36
H180	19	32		20
H184	20	45		30
H188	26	24		30
H192	35	27		37
H196	34	71		31
H200	39	36		-6
H204	38	39		42
H208	17	54		26
H212	20	51		18
H216	23	46		42
H220	29	39		13
H224	7	48		24
H228	28	61		32
H232	23	34		26
H236	31	50		8
H240	31	36		15
H244	21	43		28
H248	39	34		36
H252	30	34		18
H256	45	51		33
H260	18	56		23
H264	28	59		3
H268	48	58		40
H272	24	60		56
H276	16	27		9
H280	37	56		10
H284	17	25		21
H288	24	36		12
H293	16	80		33
H297	40	37		1
H301	28	26		-3
S122	17	23		8
Z2	19	16		-4
Z4	-5	1		-4
Z6	19	19		14
Z8	8	6		-3
Z10	29	26		-5
Z12	28	11		7
Z14	47	56		19
Z16	33	18		15
Z18	32	14		6
Z20	31	27		3
Z22	24	64		56
Z24	37	18		-1
Z26	4	-5		25

Table 2-1 (continued).

	(cm in depth)			
	03-06 Feb. 2004 (366 to 367 days)	03-07 Feb. 2005 (367-368 days)	06-10 Feb. 2006 (355-356 days)	28-31 Jan. 2007
Z28	14	10	10	
Z30	34	-10	-3	
Z32			4	
Z34	8	9		
Z36	19	35	16	
Z38	8	7	-6	
Z40	-2	22	-5	
Z42	3	33	-4	
Z46	-3	0	-7	
Z50	42	45	45	
Z54	-2	29	-3	
Z58	47	-6	13	
Z62	6	59	14	
Z66	18	2	-7	
Z70	12	23	22	
Z72	19	-2	6	
Z74	-2	16	-1	
Z76	27	40	26	
Z78	37	14	3	
Z80	0	3	-4	
Z82	-2	36	21	
Z84	10	76	-26	
Z86	24	52	20	
Z88	34	43	-3	
Z90	-4	13	-5	
Z92	18	6	-6	
Z94	8	8	-6	
Z96	54	8	-2	
Z98	14	8	5	
Z100	77	19		
Z102	20	55	-7	



Table 2-2. Net snow accumulation along Route MD (Dome Fuji route) in 2004-2007.

	(cm in depth)			
	23 Jan. 2004	26 Jan. 2005	25 Jan. 2006	18 Jan. 2007
	- 03 Feb. 2004 (366 to 369 days)	- 03 Feb. 2005 (364 to 368 days)	- 06 Feb. 2006 (356 to 358 days)	- 28 Jan. 2007
IM0				
IM1	39	5		-6
IM2	-4	22		-6
MD0	9	-1		-4
MD2	28	2		-2
MD4	60	-6		-4
MD6	-1	21		0
MD8	37	4		8
MD10	31	49		
MD12	4	0		-5
MD14	-4	37		2
MD16	-4	76		17
MD18	41	51		1
MD20	71	81		2
MD22	26	21		62
MD24	28	49		
MD26	-3	93		-16
MD28	25	14		-4
MD30	24	-7		11
MD32	-1	44		-1
MD34	70	21		5
MD36	47	21		
MD38	48	59		25
MD40	-3	-2		21
MD42	48	17		47
MD44	24	11		0
MD46	25	36		54
MD48	42	27		49
MD50	40	49		-3
MD52	18	40		4
MD54	14	35		-2
MD56	11	10		62
MD58	-4	2		36
MD60	34	18		26
MD62	46	17		11
MD64	25	19		-5
MD66	34	1		52
MD68	30	62		40
MD70	17	35		37
MD72	26	54		12
MD74	39	12		2
MD76	49	40		64
MD78	17	49		31
MD80	54	60		32
MD82	21	52		13
MD84	-3	69		37
MD86	14	52		-4
MD88	41	59		1
MD90	77	57		26

Table 2-2 (continued).

	(cm in depth)			
	23 Jan. 2004 - 03 Feb. 2004 (366 to 369 days)	26 Jan. 2005 - 03 Feb. 2005 (364 to 368 days)	25 Jan. 2006 - 06 Feb. 2006 (356 to 358 days)	18 Jan. 2007 - 28 Jan. 2007
MD92	-2	-5	-4	
MD94	7	39	45	
MD96	14	-6	-3	
MD98	50	-4	-3	
MD100	53	39	28	
MD102	62	55	38	
MD104	50	65	12	
MD106	3	13	5	
MD108	16	30	37	
MD110	44	30	-3	
MD112	24	23	24	
MD114	18	39	4	
MD116	38	24	-4	
MD118	60	-3	-1	
MD120	29	25	10	
MD122	42	13	9	
MD124	27	58	28	
MD126	15	44	18	
MD128	67	20	44	
MD130	41	37	18	
MD132	-2	42	45	
MD134	51	-4	5	
MD136	12	29	43	
MD138	35	49	5	
MD140	20	52	39	
MD142	0	60	14	
MD144	52	36	1	
MD146	48	48	36	
MD148	43	4	49	
MD150	25	51	8	
MD152	52	21	8	
MD154	61	17	48	
MD156	11	1	50	
MD158	41	17	8	
MD160	34	4	26	
MD162	33	16	54	
MD164	49	35	-2	
MD166	30	71	-3	
MD168	35	86	11	
MD170	23	24	-1	
MD172	6	31	25	
MD174	37	31	-4	
MD176	5	32	16	
MD178	2	1	1	
MD180	-12	-3	-2	
MD182	-1	9	9	
MD184	-2	4	30	
MD186	-1	49	5	
MD188	6	28	25	
MD190	51	-1	33	

Table 2-2 (continued).

	(cm in depth)			
	23 Jan. 2004 - 03 Feb. 2004 (366 to 369 days)	26 Jan. 2005 - 03 Feb. 2005 (364 to 368 days)	25 Jan. 2006 - 06 Feb. 2006 (356 to 358 days)	18 Jan. 2007
MD192	37	45	-3	-3
MD194	-2	-3	-3	-3
MD196	-2	-2	-3	-3
MD198	0	-5	1	1
MD200	-1	6	24	24
MD202	11	6	0	0
MD204	11	19	-2	-2
MD206	22	34	-2	-2
MD208	29	27	46	46
MD210	0	4	9	9
MD212	-2	-4	0	0
MD214	8	17	2	2
MD216	64	3	-1	-1
MD218	-2	-3	-2	-2
MD220	1	14	12	12
MD222	-2	-62		
MD224	5	37	16	16
MD226	51	25	0	0
MD228	51	45	11	11
MD230	4	46	69	69
MD232	0	-4	-1	-1
MD234	13	51	0	0
MD236	11	65	14	14
MD238	33	19	21	21
MD240	0	-1	-3	-3
MD242	-2	9	4	4
MD244	0	6	-3	-3
MD246	-3	-2	18	18
MD248	9	11	7	7
MD250	15	28	-2	-2
MD252	1	21	1	1
MD254	0	20	-2	-2
MD256	24	0	37	37
MD258	21	19	65	65
MD260	41	33	23	23
MD262	-2	9	28	28
MD264	19	36	28	28
MD266	20	24	15	15
MD268	-3	42	12	12
MD270	22	22	49	49
MD272	28	46	23	23
MD274	6	54	10	10
MD276	25	47	17	17
MD278	12	30	22	22
MD280	33	8	19	19
MD282	28	21	1	1
MD284	26	11	41	41
MD286	26	31	4	4
MD288	1	52	28	28
MD290	-3	-2	9	9

Table 2-2 (continued).

	(cm in depth)			
	23 Jan. 2004	26 Jan. 2005	25 Jan. 2006	18 Jan. 2007
	- 03 Feb. 2004 (366 to 369 days)	- 03 Feb. 2005 (364 to 368 days)	- 06 Feb. 2006 (356 to 358 days)	- 28 Jan. 2007
MD292	6	1	24	
MD294	9	10	-2	
MD296	11	4	19	
MD298	-2	1	9	
MD300	32	24	9	
MD302	-3	17	10	
MD304	-1	21	9	
MD306	21	18	9	
MD308	20	43	6	
MD310	53	31	-2	
MD312	38	33	13	
MD314	40	10	29	
MD316	14	24	39	
MD318	36	5	4	
MD320	23	22	28	
MD322	26	21	13	
MD324	34	22	11	
MD326	9	28	0	
MD328	24	8	3	
MD330	-1	63	38	
MD332	0	37	-41	
MD334	-1	-2	16	
MD336	0	-2	-1	
MD338	-2	-1	2	
MD340	28	30	4	
MD342	24	20	3	
MD344	15	14	-1	
MD346	-2	36	1	
MD348	10	36	12	
MD350	7	26	40	
MD352	41	7	-1	
MD354	107	-74	0	
MD356	40	-1	49	
MD358	23	28	29	
MD360	29	27	13	
MD362	17	3	1	
MD364	1	14	6	
MD366	18	6	14	
MD368	33	22	6	
MD370	23	8	22	
MD372	45	13	12	
MD374	12	12	52	
MD376	25	2	21	
MD378	7	28	19	
MD380	12	15	15	
MD382	10	28	7	
MD384	12	50	-2	
MD386	16	22	3	
MD388	35	-1	7	
MD390	8	4	20	

Table 2-2 (continued).

	(cm in depth)			
	23 Jan. 2004 - 03 Feb. 2004 (366 to 369 days)	26 Jan. 2005 - 03 Feb. 2005 (364 to 368 days)	25 Jan. 2006 - 06 Feb. 2006 (356 to 358 days)	18 Jan. 2007 - 28 Jan. 2007
MD392	9	9		17
MD394	8	5		10
MD396	-1	32		3
MD398	16	12		14
MD400	25	0		27
MD402	19	17		-1
MD404	20	20		12
MD406	24	44		-1
MD408	20	-57		-1
MD410	13	-2		0
MD412	0	11		16
MD414	33	5		20
MD416	9	7		13
MD418	3	1		8
MD420	14	19		9
MD422	22	9		17
MD424	27	27		-1
MD426	22	33		1
MD428	12	32		22
MD430	10	27		15
MD432	11	22		-1
MD434	2	31		6
MD436	6	34		-3
MD438	13	-2		7
MD440	2	15		-1
MD442	20	26		1
MD444	27	17		15
MD446	-7	22		17
MD448	17	3		19
MD450	19	21		1
MD452	1	14		17
MD454	10	20		7
MD456	-1	27		15
MD458	5	23		19
MD460	29	16		13
MD462	9	44		-2
MD464	-1	28		-1
MD466	9	6		22
MD468	18	14		14
MD470	-4	26		4
MD472	29	-2		10
MD474	3	21		-1
MD476	17	7		-1
MD478	-2	22		4
MD480	25	6		16
MD482	29	23		5
MD484	10	22		5
MD486	19	22		-1
MD488	6	26		12
MD490	14	9		9

Table 2-2 (continued).

	(cm in depth)			
	23 Jan. 2004 - 03 Feb. 2004 (366 to 369 days)	26 Jan. 2005 - 03 Feb. 2005 (364 to 368 days)	25 Jan. 2006 - 06 Feb. 2006 (356 to 358 days)	18 Jan. 2007 - 28 Jan. 2007
MD492	4	21	-2	
MD494	22	-2	12	
MD496	9	24	1	
MD498	26	12	7	
MD500	24	26	0	
MD502	9	13	9	
MD504	18	12	28	
MD506	22	3	7	
MD508	3	36	-2	
MD510	29	16	3	
MD512	26	0	16	
MD514	26	4	6	
MD516	24	20	8	
MD518	30	7	8	
MD520	22	17	16	
MD522	21	18	9	
MD524	9	12	13	
MD526	10	33	0	
MD528	15	24	0	
MD530	21	9	10	
MD532	6	7	7	
MD534	20	15	10	
MD536	14	31	9	
MD538	12	19	0	
MD540	19	8	11	
MD542	21	25	-8	
MD544	16	9	10	
MD546	28	11	-3	
MD548	-35	54	2	
MD550	21	13	-5	
MD552	0	23	-3	
MD554	37	0	-4	
MD556	23	17	1	
MD558	11	14	5	
MD560	7	33	22	
MD562	17	28	0	
MD564	-1	0	21	
MD566	0	21	-2	
MD568	4	28	9	
MD570	17	14	16	
MD572	13	7	0	
MD574	5	0	24	
MD576	11	19	7	
MD578	16	16	-4	
MD580	8	21	3	
MD582	3	2	20	
MD584	8	17	24	
MD586	10	5	9	
MD588	8	10	16	
MD590	7	19	0	

Table 2-2 (continued).

	(cm in depth)			
	23 Jan. 2004	26 Jan. 2005	25 Jan. 2006	18 Jan. 2007
	- 03 Feb. 2004 (366 to 369 days)	- 03 Feb. 2005 (364 to 368 days)	- 06 Feb. 2006 (356 to 358 days)	- 28 Jan. 2007
MD592	10	1	8	
MD594	3	14	5	
MD596	15	24	-2	
MD598	7	11	7	
MD600	10	5	-1	
MD602	5	18	8	
MD604	4	1	7	
MD606	12	11	5	
MD608	22	2	15	
MD610	13	15	1	
MD612	0	3	23	
MD614	9	11	3	
MD616	16	8	15	
MD618	6	22	-3	
MD620	0	25	-1	
MD622	8	14	10	
MD624	7	17	7	
MD626	15	6	-3	
MD628	17	-2	24	
MD630	12	21	2	
MD632	3	33	21	
MD634	20	7	1	
MD636	11	10	18	
MD638	10	12	3	
MD640	17	1	1	
MD642	17	13	10	
MD644	10	9	12	
MD646	9	8	1	
MD648	13	13	3	
MD650	-2	14	46	
MD652	9	12	15	
MD654	13	6	16	
MD656	18	8	4	
MD658	10	16	4	
MD660	13	16	15	
MD662	0	11	13	
MD664	13	17	11	
MD666	1	7	-1	
MD668	12	7	10	
MD670	13	11	-3	
MD672	4	12	11	
MD674	0	12	19	
MD676	7	29	4	
MD678	9	7	6	
MD680	17	1	1	
MD682	8	6	6	
MD684	11	11	1	
MD686	128	12	3	
MD688	11	10	8	
MD690	7	6	8	

Table 2-2 (continued).

	(cm in depth)			
	23 Jan. 2004 - 03 Feb. 2004 (366 to 369 days)	26 Jan. 2005 - 03 Feb. 2005 (364 to 368 days)	25 Jan. 2006 - 06 Feb. 2006 (356 to 358 days)	18 Jan. 2007 - 28 Jan. 2007
MD692	8	9	13	
MD694	1	18	5	
MD696	16	4	9	
MD698	11	22	-7	
MD700	28	26	-3	
MD702	4	12	20	
MD704	-1	13	6	
MD706	21	1	18	
MD708	14	12		
MD710	12	21	2	
MD712	-1	12	19	
MD714	8	24	6	
MD716	9	12	3	
MD718	9	11	8	
MD720	5	14	17	
MD722	11	8	-1	
MD724	8	15	13	
MD726	0	11	7	
MD728	15	11	6	
MD730	6	7	10	
MD732	8	7	0	
MD734			0	
MD736			8	
MD738			8	
DF80			3	



Table 2-3. Net snow accumulation in the 36-stake farm at S16 in 2004-2007.

Stake No.	(cm in depth)		
	06 Feb. 2004 07 Feb. 2005 (367 days)	07 Feb. 2005 10 Feb. 2006 (368 days)	10 Feb. 2006 01 Feb. 2007 (356 days)
I - 1	-		
- 2	14	33	23
- 3	32	8	17
- 4	37	0	23
- 5	24	16	10
- 6	-	-	-
II - 1	35	13	20
- 2	45	13	19
- 3	23	24	3
- 4	21	21	12
- 5	35	11	14
- 6	32	12	36
III - 1	35	26	17
- 2	47	7	16
- 3	32	4	21
- 4	-	-	-
- 5	-	-	-
- 6	34	15	19
IV - 1	16	41	12
- 2	31	37	1
- 3	19	36	14
- 4	-	-	-
- 5	-	-	-
- 6	18	20	12
V - 1	32	17	10
- 2	14	-	0
- 3	18	40	-1
- 4	17	33	12
- 5	22	29	6
- 6	24	63	-
VI - 1	36	22	12
- 2	23	25	6
- 3	31	29	1
- 4	25	40	2
- 5	-	-	-
- 6	17	-	-
average	27.2	23.5	12.5
s.d.	9.0	14.1	8.6

Table 2-4. Net snow accumulation in the 36-stake farm at H68 in 2002-2007.

Stake No.	(cm in depth)		
	31 Dec. 2002 05 Feb. 2005 (767 days)	05 Feb. 2005 09 Feb. 2006 (369 days)	09 Feb. 2006 30 Jan. 2007 (355 days)
I - 1	37	38	1
- 2	52	27	0
- 3	38	24	5
- 4	37	35	-6
- 5	74	13	-9
- 6	35	19	0
II - 1	39	36	2
- 2	30	44	-3
- 3	19	25	-6
- 4	40	28	-11
- 5	40	20	5
- 6	-	-	-
III - 1	32	36	-7
- 2	27	28	0
- 3	32	23	14
- 4	40	29	10
- 5	29	33	8
- 6	25	17	16
IV - 1	50	18	17
- 2	-	-	-
- 3	29	29	-1
- 4	20	30	-3
- 5	27	11	9
- 6	31	19	5
V - 1	45	21	-4
- 2	40	33	-7
- 3	35	28	11
- 4	27	27	2
- 5	-	-	-13
- 6	17	36	9
VI - 1	18	41	-7
- 2	-	-	-
- 3	14	40	-9
- 4	26	27	-8
- 5	37	24	15
- 6	43	4	18
average	33.9	27.0	1.6
s.d.	11.8	9.1	8.8

Table 2-5. Net snow accumulation in the 36-stake farm at H180 in 2003-2007.

Stake No.	(cm in depth)		
	01 Jan. 2003 04 Feb. 2005 (765 days)	04 Feb. 2005 08 Feb. 2006 (369 days)	08 Feb. 2006 29 Jan. 2007 (355 days)
I - 1	40	44	14
- 2	58	40	7
- 3	54	27	13
- 4	35	39	29
- 5	39	33	21
- 6	37	30	24
II - 1	50	44	15
- 2	46	39	13
- 3	40	44	8
- 4	45	38	12
- 5	33	39	13
- 6	46	23	27
III - 1	36	33	25
- 2	37	30	25
- 3	52	28	14
- 4	50	33	10
- 5	58	27	21
- 6	58	32	11
IV - 1	52	31	11
- 2	51	40	8
- 3	42	31	25
- 4	68	13	22
- 5	53	26	20
- 6	53	27	25
V - 1	46	41	9
- 2	35	41	18
- 3	49	43	17
- 4	51	42	29
- 5	52	26	44
- 6	54	45	14
VI - 1	41	45	18
- 2	30	38	24
- 3	36	45	22
- 4	44	41	20
- 5	63	30	33
- 6	37	33	28
average	46.4	35.0	19.1
s.d.	9.1	7.6	8.2

Table 2-6. Net snow accumulation in the 36-stake farm at S122 in 2003-2007.

Stake No.	(cm in depth)		
	03 Jan. 2003 04 Feb. 2005 (764 days)	04 Feb. 2005 08 Feb. 2006 (369 days)	08 Feb. 2006 29 Jan. 2007 (355 days)
I - 1	20	33	-5
- 2	43	49	-7
- 3	40	34	32
- 4	74	9	-5
- 5	43	16	0
- 6	46	5	13
II - 1	-10	23	-6
- 2	19	30	17
- 3	53	11	21
- 4	10	51	0
- 5	40	16	17
- 6	50	8	18
III - 1	4	3	26
- 2	42	-3	4
- 3	89	-5	-6
- 4	53	17	-6
- 5	71	7	13
- 6	44	10	12
IV - 1	66	16	6
- 2	48	21	1
- 3	33	21	6
- 4	24	26	-6
- 5	20	27	-6
- 6	7	24	-6
V - 1	-17	12	24
- 2	-106	4	16
- 3	-28	22	12
- 4	79	13	40
- 5	75	29	18
- 6	60	22	19
VI - 1	41	28	-5
- 2	-42	35	0
- 3	21	50	5
- 4	11	33	6
- 5	66	14	5
- 6	28	22	0
average	31.0	20.4	7.6
s.d.	38.3	13.7	12.2

Table 2-7. Net snow accumulation in the 36-stake farm at Z40 in 2003-2007.

Stake No.	(cm in depth)		
	03 Jan. 2003 04 Feb. 2005 (764 days)	04 Feb. 2005 07 Feb. 2006 (368 days)	07 Feb. 2006 28 Jan. 2007 (355 days)
I - 1	-1	12	-2
- 2	44	25	-2
- 3	10	30	-1
- 4	59	-2	-3
- 5	17	11	-5
- 6	44	2	-3
II - 1	7	19	-3
- 2	64	-4	0
- 3	3	13	-4
- 4	38	18	-5
- 5	13	-1	-3
- 6	27	22	-5
III - 1	-17	11	-4
- 2	-67	13	-4
- 3	-65	0	-3
- 4	63	8	4
- 5	73	0	-4
- 6	1	4	-3
IV - 1	45	24	-2
- 2	-51	26	-5
- 3	-16	18	19
- 4	-4	32	15
- 5	35	14	21
- 6	-52	20	1
V - 1	-7	11	-1
- 2	23	27	-4
- 3	36	31	-5
- 4	-55	16	-1
- 5	-34	14	0
- 6	11	4	11
VI - 1	21	-2	-5
- 2	9	7	-2
- 3	27	10	-6
- 4	-5	11	9
- 5	0	9	-3
- 6	-20	12	15
average	7.7	12.9	0.2
s.d.	36.7	10.0	7.2

Table 2-8. Net snow accumulation in the 36-stake farm at Dome Fuji Station in 2004-2007.

Stake No.	(cm in depth)		
	15 Jan. 2004 16 Jan. 2005 (367 days)	16 Jan. 2005 15 Jan. 2006 (364 days)	15 Jan. 2006 09 Jan. 2007 (359 days)
I - 1	3.5	16.0	3.0
- 2	15.5	4.0	1.0
- 3	10.0	1.5	5.5
- 4	16.5	5.0	9.5
- 5	8.5	12.5	3.5
- 6	13.5	7.5	8.5
II - 1	0.5	11.0	7.0
- 2	10.0	11.0	9.5
- 3	14.5	3.5	-1.5
- 4	4.5	7.5	6.0
- 5	8.5	16.5	5.0
- 6	5.5	11.5	8.5
III - 1	5.5	9.5	2.0
- 2	8.5	4.0	13.5
- 3	0.5	21.5	2.5
- 4	4.0	8.0	5.0
- 5	8.5	7.5	3.0
- 6	1.0	13.5	2.0
IV - 1	1.0	12.5	14.5
- 2	4.5	3.0	10.0
- 3	3.5	12.5	3.5
- 4	6.5	10.5	9.5
- 5	0.0	11.5	-0.5
- 6	-2.0	5.0	16.5
V - 1	9.0	8.0	10.0
- 2	5.0	14.0	7.5
- 3	14.0	6.0	4.5
- 4	4.0	9.5	6.5
- 5	9.0	5.0	7.0
- 6	7.5	3.0	6.5
VI - 1	0.0	14.0	9.0
- 2	11.0	14.0	2.0
- 3	9.5	8.0	-0.5
- 4	9.5	16.0	0.0
- 5	0.5	4.0	8.5
- 6	8.0	4.0	12.0
average	6.7	9.2	6.1
s.d.	4.8	4.7	4.4

Table 2-9. Net accumulation in the 101-stake row at Mizuho Station in 2004-2007.

Stake No.	(cm in depth)		Stake No.	(cm in depth)	
	03 Feb. 2004 06 Feb. 2006 (734 days)	06 Feb. 2006 28 Jan. 2007 (356 days)		03 Feb. 2004 06 Feb. 2006 (734 days)	06 Feb. 2006 28 Jan. 2007 (356 days)
102	6	-1	152	10	-5
103	7	-3	153	13	-4
104	14	-5	154	6	-4
105	21	-6	155	5	-5
106	21	-5	156	7	-4
107	16	-2	157	9	-4
108	15	0	158	5	-5
109	19	-3	159	12	-4
110	16	-2	160	13	-6
111	18	-5	161	6	-4
112	2	-5	162	12	-5
113	-10	-4	163	15	-6
114	-5	-5	164	14	-8
115	0	-3	165	5	-6
116	4	-1	166	7	-6
117	8	-4	167	9	-7
118	15	-4	168	6	-7
119	17	-3	169	3	-5
120	21	-3	170	-1	-5
121	11	2	171	10	-5
122	13	2	172	6	-5
123	12	6	173	17	-4
124	5	4	174	25	-5
125	3	-1	175	31	-5
126	-6	6	176	38	-6
127	1	2	177	37	5
128	33	4	178	40	-6
129	25	2	179	35	-3
130	53	-1	180	36	5
131	45	-5	181	34	8
132	19	0	182	33	15
133	16	-3	183	41	12
134	28	-5	184	39	23
135	21	-6	185	44	23
136	16	0	186	39	33
137	12	-3	187	49	26
138	6	-4	188	51	29
139	1	-4	189	50	27
140	-9	-5	190	52	21
141	9	-2	191	53	26
142	0	-3	192	58	24
143	5	-4	193	56	20
144	6	-5	194	53	27
145	-6	-5	195	52	22
146	-6	-5	196	52	18
147	-7	-6	197	51	13
148	-12	-5	198	45	15
149	-8	-4	199	51	10
150	-5	-4	200	59	3
151	-1	-5	201	61	-3
51	4	-5			
average				19.2	1.4
s.d.				19.5	10.2

Table 2-10. Net accumulation in the 50-stake row at MD180 in 2004-2007.

Stake No.	(cm in depth)		
	01 Feb. 2004 31 Jan. 2005 (365 days)	31 Jan. 2005 04 Feb. 2006 (369 days)	04 Feb. 2006 26 Jan. 2007 (356 days)
1	-2	-2	-4
2	-2	-4	-5
3	-2	-4	-4
4	-3	-2	-4
5	-1	-5	-4
6	0	-3	-4
7	3	1	-2
8	0	-4	-2
9	-2	-2	-2
10	-1	-4	-3
11	-4	-2	-3
12	-4	-3	-2
13	-3	-1	-3
14	-5	0	-5
15	-4	-1	-7
16	-3	-2	-4
17	-3	-1	-2
18	-3	0	-4
19	-4	-2	-1
20	-2	-3	-2
21	-2	-1	21
22	-1	-2	13
23	-4	-1	3
24	-1	1	-1
25	-4	5	-3
26	-3	-1	-3
27	-3	-2	-3
28	-3	-3	-1
29	-2	-2	-1
30	-1	-1	-5
31	-1	-1	-2
32	-3	-3	-1
33	-2	-2	-1
34	-2	-3	-4
35	-2	-3	-2
36	-3	-3	-3
37	-2	-3	-2
38	0	-3	-2
39	-2	-1	-3
40	-2	-3	-1
41	-2	-3	-2
42	-3	-3	-3
43	-2	2	-1
44	-6	6	-4
45	-2	-3	3
46	-2	-2	-2
47	-3	-3	-1
48	-4	-2	14
49	-2	-1	7
50	-4	-3	6
average	-2.4	-1.8	-1.0
s.d.	1.5	2.0	5.1

Table 2-11. Net accumulation in the 50-stake row at MD364 in 2004-2007.

Stake No.	(cm in depth)		
	27 Jan. 2004 29 Jan. 2005 (368 days)	29 Jan. 2005 02 Feb. 2006 (369 days)	02 Feb. 2006 24 Jan. 2007 (356 days)
1	-1	12	-1
2	-1	13	6
3	-1	18	3
4	-1	12	4
5	-1	11	4
6	4	17	-1
7	9	6	15
8	10	11	9
9	7	13	3
10	6	19	1
11	8	11	11
12	5	5	21
13	18	5	12
14	18	3	11
15	19	4	10
16	0	13	9
17	1	14	5
18	-2	16	-1
19	2	27	-1
20	-1	30	-1
21	2	24	0
22	0	25	4
23	6	20	3
24	3	13	-1
25	-1	2	-1
26	-1	-2	-1
27	-1	-3	0
28	5	1	-1
29	0	14	-2
30	6	20	2
31	21	14	4
32	32	12	1
33	29	5	3
34	20	8	-2
35	16	3	-1
36	3	4	7
37	1	3	4
38	6	4	0
39	8	0	8
40	17	-2	4
41	10	0	6
42	5	3	7
43	22	-3	0
44	2	5	2
45	4	8	-1
46	5	17	-1
47	8	16	0
48	14	8	-1
49	12	12	-1
50	12	18	-2
average	7.3	10.2	3.2
s.d.	8.3	8.1	5.0

Table 2-12. Net accumulation in the 50-stake row at MD560 in 2004-2007.

Stake No.	(cm in depth)		
	24 Jan. 2004 27 Jan. 2005 (369 days)	27 Jan. 2005 30 Jan. 2006 (368 days)	30 Jan. 2006 20 Jan. 2007 (355 days)
1	0	4	0
2	-2	-2	4
3	-2	28	-8
4	-2	-14	-4
5	0	7	1
6	-1	8	-1
7	2	16	-2
8	5	25	0
9	9	18	-3
10	33	0	2
11	17	-27	17
12	25	-1	15
13	31	-14	17
14	13	19	1
15	16	7	3
16	1	21	16
17	-1	18	16
18	0	27	3
19	-1	34	11
20	-1	29	7
21	-1	22	5
22	0	16	10
23	3	14	8
24	4	24	-7
25	1	30	-5
26	0	32	-5
27	-6	38	11
28	15	3	26
29	17	1	14
30	18	0	16
31	10	47	-35
32	16	3	1
33	16	23	-8
34	3	13	2
35	1	21	-1
36	4	14	10
37	9	26	-6
38	25	-9	10
39	24	-10	5
40	19	-7	41
41	18	27	17
42	27	29	13
43	36	12	8
44	39	27	-2
45	31	8	6
46	13	20	9
47	11	17	7
48	30	5	-1
49	25	13	-1
50	22	16	-5
average	11.4	13.6	4.8
s.d.	12.2	14.9	11.0

Table 2-13. Net accumulation in the 50-stake row at DF80 in 2003-2007.

Stake No.	(cm in depth)		
	16 Dec. 2003 16 Jan. 2005 (397 days)	16 Jan. 2005 25 Jan. 2006 (374 days)	25 Jan. 2006 14 Jan. 2007 (354 days)
1	11	12	0
2	8	14	-1
3	2	11	0
4	2	10	2
5	7	5	6
6	4	10	15
7	5	14	12
8	7	19	12
9	3	20	13
10	2	16	15
11	2	13	14
12	-1	13	15
13	1	11	16
14	-2	12	11
15	3	13	9
16	3	11	12
17	8	8	15
18	5	6	19
19	2	4	22
20	3	3	16
21	0	3	13
22	4	5	12
23	-5	10	11
24	-1	10	11
25	3	8	10
26	6	6	11
27	11	1	11
28	9	0	12
29	7	3	15
30	8	8	13
31	32	6	20
32	5	8	27
33	6	16	14
34	6	14	11
35	10	11	2
36	11	16	2
37	7	15	0
38	-1	8	5
39	-1	15	3
40	-2	7	9
41	5	12	8
42	5	12	5
43	8	9	9
44	11	7	8
45	4	10	15
46	16	5	11
47	5	14	8
48	7	10	15
49	14	9	9
50	11	8	10
average	5.4	9.8	10.5
s.d.	5.7	4.5	5.8