

**Glaciological Data Collected by the 41st and 42nd  
Japanese Antarctic Research Expedition during 2000-2002**

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## 1. Outline of field observations during 2000 - 2002

A deep ice core from the surface to 2503 m was successfully obtained at Dome Fuji Station (77°19'01"S, 39°42'12"E, 3810 m a.s.l) in December, 1996. Prior to this project, a new traverse route for transportation of the members and equipment from Mizuho Station to Dome Fuji Station was established by JARE-32 and JARE-33 in 1991-1992. Observations including surface snow accumulation, ice sheet flow velocity and chemistry of surface snow have been conducted along the traverse route (Fujii, 1992; Kamiyama *et al.*, 1994; Motoyama *et al.*, 1995, 1999; Shiraiwa *et al.*, 1996; Azuma *et al.*, 1997; Fujita *et al.*, 1998; Furukawa *et al.*, 2002).

Observations of ice sheet flow velocity, internal ice sheet structure and surface snow accumulation were carried out along the traverse routes shown in Fig. 1 during JARE-38 and JARE-42 to clarify the change in ice sheet dynamics as the fifth year project of a 5-year program. This project was also conducted as part of the international programs GLOCHANT\*/ITASE\*\*. Snow stakes along the traverse routes have been observed for long term monitoring of the change in the surface mass balance of the ice sheet. Shallow ice coring (JARE-38, -39, -42), radar echo sounding (JARE-40), GPS differential measurements (JARE-38, -40, -42) and surface snow accumulation measurements (JARE-38, -39, -40, -41, -42) were carried out. A study of drifting snow was conducted for three months at Mizuho Station by JARE-41. A shallow ice coring (122 m in depth) and casing operation was done for a new deep ice coring project at Dome Fuji Station by JARE-42. Fuel and some equipment for the next glaciological project at Dome Fuji were transported during this period.

Oversnow traverses and observations carried out in this period are shown in Fig. 1 and listed in Table 1-1. Table 1-2 shows the glaciological and meteorological observations conducted along the oversnow traverses. The participants and their assignments in the JARE-41 and JARE-42 programs are listed in Table 1-3. Glaciological observations at Mizuho Station by JARE-41 are summarized in Table 1-4.

We would like to express our sincere thanks to all members of JARE-41 and JARE-42 who extended generous and long term support in the field work.

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\*GLOCHANT: Global Change and the Antarctic

\*\*ITASE: International Trans Antarctic Scientific Expedition

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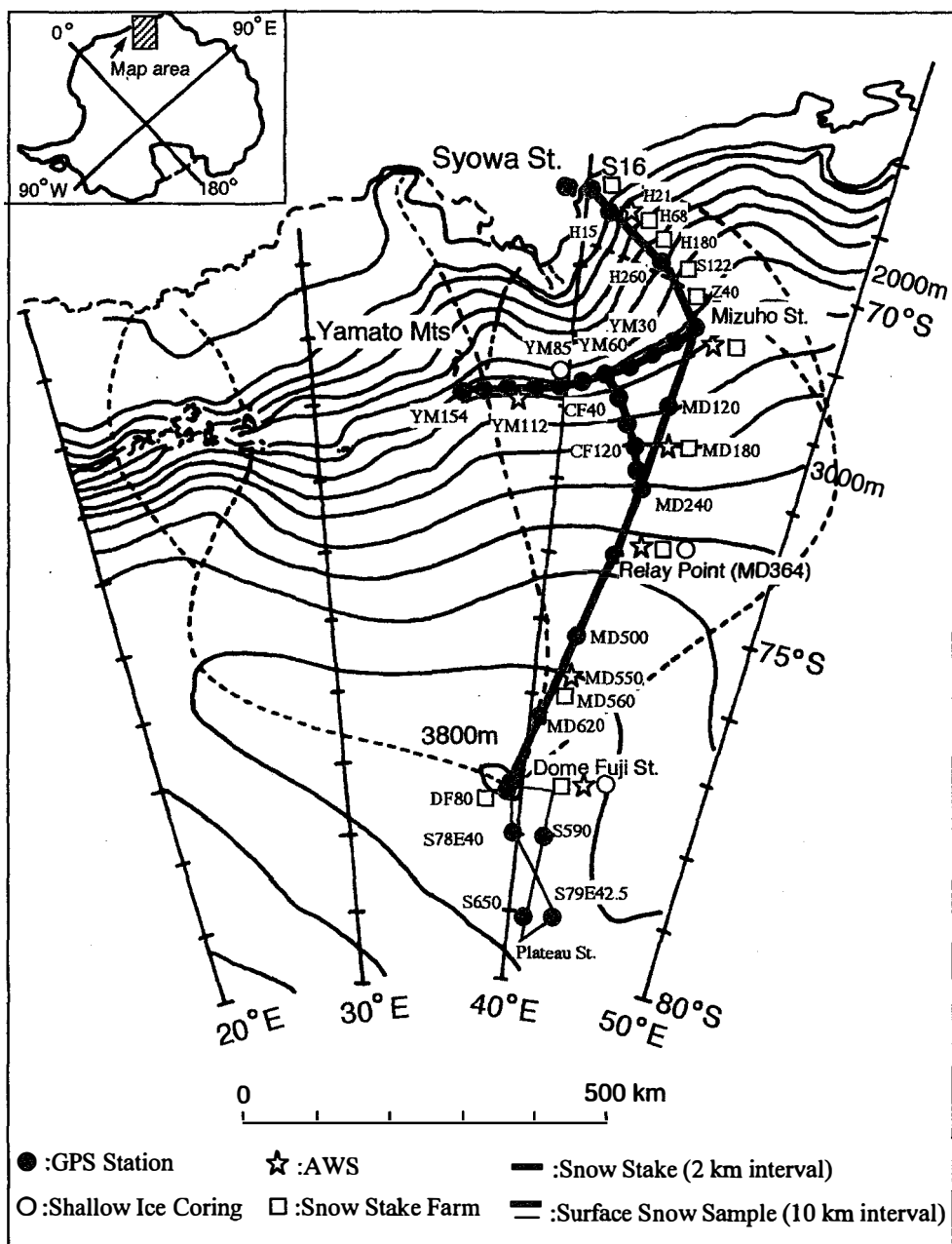


Fig. 1. Location map of the traverse routes and observational items.

Table 1-1. Oversnow traverses carried out by JARE-41 and JARE-42 from May 2000 to February 2002.

| Traverse No. | Period from  | to           | Traverse Route from | through  | to     | Distance (km) | Participants | Oversnow Vehicles |
|--------------|--------------|--------------|---------------------|----------|--------|---------------|--------------|-------------------|
| 1-a          | 5 May. 2000  | 11 May. 2000 | Syowa               |          | Mizuho | 287           | 11           | SM100(5)          |
| -b           | 15 May. 1997 | 19 May. 2000 | Mizuho              |          | Syowa  | 287           | 11           | SM100(5)          |
| 2-a          | 21 Aug. 2000 | 8 Sep. 2000  | Syowa               |          | MD364  | 658           | 7            | SM100(3)          |
| -b           | 12 Sep. 2000 | 19 Sep. 2000 | MD364               |          | Mizuho | 371           | 7            | SM100(3)          |
| -c           | 25 Sep. 2000 | 29 Sep. 2000 | Mizuho              |          | Syowa  | 287           | 10           | SM100(4)          |
| 3-a          | 16 Sep. 2000 | 20 Sep. 2000 | Syowa               |          | Mizuho | 287           | 7            | SM50(1),SM100(2)  |
| -b           | 27 Nov.2000  | 30 Nov.2000  | Mizuho              |          | S16    | 255           | 4            | SM50(1),SM100(2)  |
| 4-a          | 30 Dec. 2000 | 17 Jan. 2001 | S16                 |          | Dome F | 1,000         | 9            | SM100(4)          |
| -b           | 21 Jan. 2001 | 8 Feb. 2001  | Dome F              |          | S16    | 1,000         | 9            | SM100(4)          |
| 5-a          | 13 Aug. 2001 | 4 Sep. 2001  | Syowa               |          | MD364  | 658           | 9            | SM100(4)          |
| -b           | 9 Sep. 2001  | 24 Sep. 2001 | MD364               |          | Syowa  | 658           | 9            | SM100(4)          |
| 6-a          | 25 Oct. 2001 | 14 Nov. 2001 | Syowa               |          | Dome F | 1,030         | 6            | SM100(4)          |
| -b           | 16 Dec. 2001 | 20 Dec. 2001 | Dome F              | S79E42.5 | Dome F | 525           | 6            | SM100(3)          |
| -c           | 23 Dec. 2001 | 5 Jan. 2002  | Dome F              | CF80     | YM154  | 850           | 6            | SM100(4)          |
| -d           | 6 Jan. 2002  | 8 Jan. 2002  | YM154               |          | YM85   | 134           | 6            | SM100(4)          |
| -e           | 27 Jan. 2002 | 4 Feb. 2002  | YM85                | Mizuho   | S16    | 424           | 6            | SM100(4)          |

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

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

| Item                              | Interval                   | Traverse No.                  | Main observers  |
|-----------------------------------|----------------------------|-------------------------------|---|
| Snow accumulation along routes    | 2km                        | 1-b, 2-a, 3-a, 4-a, 5-b and 6 | Nishimura, Sakai, Kondo, Shiba, Ming, Yanagisawa, Aoki, Kato and Motoyama |
| Stake farm and stake row          |                            | 1-b, 2-a, 4-a, 5-b and 6-a    | Nishimura, Fukushima, Suzuki, Ming, Kato and Motoyama                     |
| Snow sampling                     | 10km                       | 2-a, 4, 5 and 6               | Nishimura and Motoyama  |
| Pit observation of deposited snow | YM85                       | 6                             | Motoyama  |
| GPS observation                   |                            | 4 and 6                       | Motoyama  |
| Gravity observation               | twice per day              | 5                             | Iwano   |
| Aerosol sampling                  |                            | 5-a and 6-a                   | Motoyama  |
| Air sampling                      |                            | 4-a                           | Ming  |
| Shallow ice coring                | Dome Fuji<br>MD364<br>YM85 | 6<br>4<br>6                   | Motoyama, Kubo and Aoki   |
| Firn air sampling                 | YM85                       | 6                             | Motoyama  |
| Set-up and maintenance of AWS     |                            | 2, 4 and 6                    | Nishimura and Motoyama  |
| Meteorological observations       |                            | 1, 2, 3, 4, 5 and 6           | J. Yamashita, Shiba, Shigeno, Yamaguchi, Sugaya, Yotsuya, Tsuboi and Kato |

AWS: abbreviation of Automatic Weather Station

Dr. Ming was an exchange scientist participated in JARE-42.

Table 1-3. Participants of the oversnow traverses and their assignments in the JARE-41 and JARE-42 programs.

| Name                 | Assignments                     | Traverse No.                                |
|----------------------|---------------------------------|---|
| Makoto Wada*         | Atmospheric scientist           | 1-a, 1-b, 3-a, 3-b                          |
| Koichi Nishimura*    | Glaciologist                    | 1-a, 1-b, 2-a, 2-b, 3-b, 4-a, 4-b           |
| Satoshi Ihara*       | Atmospheric scientist           | 1-a, 1-b                                    |
| Kenji Abe*           | Mechanic                        | 1-a, 1-b                                    |
| Minoru Honda*        | Carpenter                       | 1-a, 1-b                                    |
| Takumi Kondo*        | Radio communicator              | 1-a, 1-b, 2-a, 2-b, 2-c                     |
| Nobuo Fukushima*     | Cook                            | 1-a, 1-b                                    |
| Mitsuaki Sakai*      | Medical doctor                  | 1-a, 1-b                                    |
| Yuichi Suzuki*       | Pilot                           | 1-a, 1-b                                    |
| Junya Yamashita*     | Meteorologist                   | 1-a, 1-b                                    |
| Atsushi Abe*         | Upper atmospheric scientist     | 1-a, 1-b, 2-a, 2-b, 2-c                     |
| Tsuginori Yoshida*   | Medical doctor                  | 2-a, 2-b, 2-c                               |
| Hidenori Yamashita*  | Mechanic                        | 2-a, 2-b, 2-c, FL, 3-b                      |
| Haruya Shiba*        | Atmospheric science             | 2-a, 2-b, 2-c                               |
| Tuyoshi Togashi*     | General manager                 | 2-a, 2-b, 2-c                               |
| Koichiro Doi*        | Geophysicist                    | 2-c, 3-a                                    |
| Nobuaki Shigeno*     | Upper atmospheric scientist     | 2-c, 3-a                                    |
| Yasunori Yamauchi*   | Cook                            | 2-c, 3-a                                    |
| Etsuo Maruyama*      | Environmental manager           | 2-c, 3-a                                    |
| Hiromasa Shinoda*    | Mechanic                        | 3-a, FL                                     |
| Kanji Yamaguchi*     | Meteorologist                   | 3-a, FL                                     |
| Juhei Sugaya*        | Meteorologist                   | FL, 3-b                                     |
| Hideaki Motoyama**   | Glaciologist                    | 4-a, 4-b, 5-a, 5-b, 6-a, 6-b, 6-c, 6-d, 6-e |
| Sakae Kubo**         | Glaciologist                    | 4-a, 4-b, 6-a, 6-b, 6-c, 6-d, 6-e           |
| Takeshi Aoki**       | Glaciologist                    | 4-a, 4-b, 6-a, 6-b, 6-c, 6-d, 6-e           |
| Akihisa Yotsuya**    | Meteorologist                   | 4-a, 4-b                                    |
| Mitsuaki Shuto**     | Mechanic                        | 4-a, 4-b, 6-a, 6-b, 6-c, 6-d, 6-e           |
| Takushi Shirai**     | Medical Doctor                  | 4-a, 4-b, 5-a, 5-b                          |
| Jun Tanaka***        | Observer, Environmental manager | 4-a, 4-b                                    |
| Yan Ming***          | Observer, Glaciologist          | 4-a, 4-b                                    |
| Kazuhiro Tsuboi**    | Meteorologist                   | 5-a, 5-b                                    |
| Sachiko Iwano**      | Geophysicist                    | 5-a, 5-b                                    |
| Noriyoshi Sasagawa** | Mechanics                       | 5-a, 5-b                                    |
| Kazuo Moriguchi**    | Mechanics                       | 5-a, 5-b                                    |
| Masahiro Chiba**     | Radio communicator              | 5-a, 5-b                                    |
| Morio Yanagisawa**   | Logistics                       | 5-a, 5-b                                    |
| Keiko Tanaka**       | Photographer                    | 5-a, 5-b                                    |
| Yuki Kato**          | Meteorologist                   | 6-a, 6-b, 6-c, 6-d, 6-e                     |
| Minoru Hara**        | Medical doctor                  | 6-a, 6-b, 6-c, 6-d, 6-e                     |

\*: JARE 41 overwintering party in 2000.

\*\* : JARE 42 overwintering party in 2001.

\*\*\*: JARE 42 summer party.

FL means the transport between Syowa Station and Mizuho Station by flight operation.

Table 1-4. Glaciological observations carried out at Mizuho Station from 25 September to 18 November 2000.

| Item   | Height from snow surface (m) | Interval  | Main observer |
|--|------------------------------|-----------|---------------|
| Mass flux of blowing snow by snow particle counter   | 9.6, 3.1, 1.0, 0.2           | continues | Nishimura     |
| Turbulence flux by ultrasonic wind-temperature meter | 25.0, 1.0, 0.2               | continues | Nishimura     |
| Air temperature by Pt-resistant thermometer          | 3.0, 1.0                     | continues | Nishimura     |
| Dew point temperature                                | 3.0, 1.0                     | continues | Nishimura     |

## 2. Net accumulation of snow

Observers: JARE-40: Teruo Furukawa and others

JARE-41: Koichi Nishimura, Mitsuaki Sakai, Takumi Kondo,  
Haruya Shiba and others

JARE-42: Hideaki Motoyama, Yan Ming, Morio Yanagisawa,  
Takeshi Aoki, Yuki Kato and others

Net accumulation of snow was measured by the stake method along oversnow traverse routes in 2000 and 2001 (Fig. 1).

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

Stake heights along the route were measured in August-September 1999 by JARE-40 (Furukawa *et al.*, 2002), in May 2000 and August 2000 by JARE-41, and December 2000-January 2001, September 2001 and October 2001 by JARE-42. The height differences which approximate the net balance of snow from the latest observation are tabulated in Table 2-1. The minimum readings were 1 cm.

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

Stake heights along the route from IM0 to MD364 (Relay Point) were measured in December 1999 by JARE-40 (Furukawa *et al.*, 2002), in September 2000 by JARE-41, and in January 2001, September 2001 and October 2001 by JARE-42. The height differences are tabulated in Table 2-2a. The data during the 1999-2001 season along the route from IM0 to DF80 are shown in Table 2-2b. The minimum readings were 1 cm.

### 2.3. Route CF (JARE-40 Route)

Route CF was set by JARE-40 in January 2000 (Furukawa *et al.*, 2002). Stake heights along the route were re-measured in December 2001-January 2002 by JARE-42. All data along the route are shown in Table 2-3. The minimum readings were 1 cm.

### 2.4. Route YM

Stake heights along the route from YM1 to YM154 were measured in December 1999-January 2000 by JARE-40 (Furukawa *et al.*, 2002), and in January 2002 by JARE-42. All data along the route are shown in Table 2-4. The minimum readings were 1 cm.

## 2.5. 36-stake farms, 50-stake rows and 101-stake row along the route

36-stake farms (100 m x 100 m in area, see Fig. 2 in Azuma *et al.*, 1997) are set at S16, H68, H180, S122 and Z40 along the Mizuho route and Dome Fuji Station. Stake heights of the farms were measured by JARE-40, -41 and -42. The results are shown in Tables 2-5, 2-6, 2-7, 2-8, 2-9 and 2-10. The last row gives averages and standard deviations of net snow accumulation for each period.

50-stake rows are set 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 Fig. 4 in Azuma *et al.*, 1997). The results are shown in Table 2-11, 2-12, 2-13 and 2-14.

A 101-stake row located at Mizuho Station was measured (see Fig. 3 in Azuma *et al.*, 1997). The results of the measurements are given in Table 2-15.

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Table 2-1. Net accumulation along Routes S-H-Z in 1999-2001.

| Station<br>No. | (cm in depth)  |               |                |                |              |           |
|----------------|----------------|---------------|----------------|----------------|--------------|-----------|
|                | Aug.25-Sep.2   | May.15-18     | Aug.22-29      | Dec.29-Jan.3   | Sep.20-23    | Oct.26-29 |
|                | 1999           | 2000          | 2000           | 2000 2001      | 2001         | 2001      |
|                | (256-267 days) | (96-106 days) | (122-134 days) | (260-268 days) | (33-39 days) |           |
| S 16           | 8              | 10            | -14            | -7             | -7           |           |
| S 17           | 18             |               |                |                | 0            |           |
| S 18           | 16             | -36           | 1              | 5              | -13          |           |
| S 19           | 14             | -2            | 3              | 37             | -1           |           |
| S 20           | 84             | -35           | -10            | -9             | 20           |           |
| S 21           | 13             | 32            | -16            | 10             | 2            |           |
| S 22           | 48             | 13            | 9              | 4              | 11           |           |
| S 23           | 50             | 16            | 3              | 61             | 6            |           |
| S 24           | 42             | 1             | -4             | 13             | 8            |           |
| S 25           | 42             | 30            | -7             | 50             | 5            |           |
| S 26           | 30             | 11            | 3              | 26             | 10           |           |
| S 27           | 45             | -1            | 8              | 30             | 7            |           |
| S 28           | 30             | 8             | -1             | 42             | 10           |           |
| S 29           | 56             | -2            | 20             | 22             | 9            |           |
| S 30           | 50             | 4             | 10             | 53             | 1            |           |
| H 3            | 51             | 2             | 4              | 41             | 7            |           |
| H 9            | 45             | 9             | -8             | 28             | 7            |           |
| H 15           | 20             | 30            | 2              | 45             | 4            |           |
| H 21           | 25             | 9             | 11             | 32             | 11           |           |
| H 27           | 36             | 18            | 0              | 38             | 2            |           |
| H 35           |                | 4             | 15             | 35             | 6            |           |
| H 42           | 29             | -6            | 4              | 21             | 3            |           |
| H 48           | 44             | 0             | -3             | 54             | 0            |           |
| H 54           | 28             | 11            | -2             | 34             | 3            |           |
| H 60           | 23             |               | -5             | 44             | -1           |           |
| H 64           | 20             | 22            | 0              | 22             | 2            |           |
| H 68           | 8              | 0             | 0              | 6              | 0            |           |
| H 72           | 57             | 2             | 13             | 49             | 19           |           |
| H 76           | 6              | 5             | 14             | 24             | 0            |           |
| H 80           | 19             | -13           | -1             | 35             | 3            |           |
| H 84           | 45             | 3             | -8             | -13            | 0            |           |
| H 88           | 33             | 14            | 7              | 24             | 5            |           |
| H 92           | 25             | 5             | -1             | 21             | 6            |           |
| H 96           | 25             | 17            | 0              | 53             | 0            |           |
| H 100          | 31             | 11            | -3             | 1              | 1            |           |
| H 104          | -2             | -3            | 12             | 8              | 5            |           |
| H 108          |                | 1             | 13             | 31             | 1            |           |
| H 112          | 25             | 9             | 2              | 13             | 11           |           |
| H 116          | 19             | 1             | 11             | 8              | 0            |           |
| H 120          | 19             | 18            | -4             | 29             | 1            |           |
| H 124          |                | 2             | -3             | 20             | -1           |           |
| H 128          | 48             | -4            | 2              | 30             | 0            |           |
| H 132          | 35             | 4             | 4              | 14             | 9            |           |
| H 136          | 18             | 14            | 1              | 24             | 4            |           |
| H 140          | 13             | 7             | 14             | 24             | 8            |           |

| Station No. | (cm in depth)  |               |                |                |              |            |
|-------------|----------------|---------------|----------------|----------------|--------------|------------|
|             | Aug. 25-Sep. 2 | May. 15-18    | Aug. 22-29     | Dec. 29-Jan. 3 | Sep. 20-23   | Oct. 26-29 |
|             | 1999           | 2000          | 2000           | 2000           | 2001         | 2001       |
|             | (256-267 days) | (96-106 days) | (122-134 days) | (260-268 days) | (33-39 days) |            |
| H 144       |                |               | 10             | 2              | 25           | 0          |
| H 148       |                |               | 14             | 21             | -7           | 0          |
| H 152       | 49             |               | -8             | -3             | 20           | 0          |
| H 156       |                |               | -3             | 1              | 5            | -6         |
| H 160       |                |               | 7              | -1             | 16           | 0          |
| H 164       |                |               | 29             | 13             | 30           | 0          |
| H 168       |                |               | 2              | 5              | 17           | 6          |
| H 172       |                |               | 2              | 10             | 1            | 1          |
| H 176       | -11            |               | 6              | -1             | 5            | 28         |
| H 180       | 30             |               | 12             | 2              | 38           | -1         |
| H 184       | 14             |               | 28             | 3              | 15           | 1          |
| H 188       | 19             |               | 2              | 14             | 24           | 0          |
| H 192       | 22             |               | 9              | 8              | 25           | 8          |
| H 196       | 15             |               | 22             | 16             | 26           | 0          |
| H 200       | 14             |               | 0              | 14             | 11           | 0          |
| H 204       | 27             |               | 14             | -1             | 8            | 2          |
| H 208       | 9              |               | 3              | 13             | 20           | 3          |
| H 212       | 17             |               | 18             | -1             | 28           | 0          |
| H 216       | 32             |               | 16             | 3              | 18           | 4          |
| H 220       | 15             |               | 4              | 15             | 16           | 1          |
| H 224       | 19             |               | 22             | -5             | 20           | -1         |
| H 228       | 46             |               | 0              | 1              | 12           | 6          |
| H 232       | 15             |               | 2              | 6              | 26           | 0          |
| H 236       | 15             |               | 18             | 3              | 13           | 14         |
| H 240       | 31             |               | 1              | -4             | 34           | 0          |
| H 244       | 2              |               | 8              | 12             | 27           | 0          |
| H 248       | 32             |               | 12             | -2             | 17           | 5          |
| H 252       | 12             |               | 21             | -3             | 6            | 11         |
| H 256       | 23             |               | 3              | 6              | 14           | 4          |
| H 260       | 33             |               | 16             | -5             | 33           | 16         |
| H 264       | 27             |               | 16             | -3             | 40           | 0          |
| H 268       | 29             |               | 15             | -3             | 29           | 23         |
| H 272       | 42             |               | 7              | 13             | 39           | 5          |
| H 276       | 41             |               | -1             | -4             | -7           | 7          |
| H 280       | 30             |               | 11             | 10             | 38           | 0          |
| H 284       | 18             |               | 4              | 10             | 16           | 3          |
| H 288       | 32             |               | -11            | 7              | 26           | 0          |
| H 293       | 49             |               | 0              | -8             | 15           | 3          |
| H 297       | 15             |               | 0              | -3             | -5           | 2          |
| H 301       | 22             |               | 2              | 23             | 16           | 10         |
| S 122       | 31             |               | 1              | 12             | 1            | -1         |
| Z 2         | 20             |               | -2             | 1              | 5            | -8         |
| Z 4         | -3             |               | -1             | -2             | 5            | -1         |
| Z 6         | 11             |               | 1              | -5             | -6           | -1         |
| Z 8         | 0              |               | 0              | -3             | -1           | 0          |
| Z 10        |                |               |                | -5             | 8            | -4         |
| Z 12        | 12             |               | 21             | -2             | -2           | 0          |

|                |  | (cm in depth)  |               |                |                |              |           |
|----------------|--|----------------|---------------|----------------|----------------|--------------|-----------|
| Station<br>No. |  | Aug.25-Sep.2   | May.15-18     | Aug.22-29      | Dec.29-Jan.3   | Sep.20-23    | Oct.26-29 |
|                |  | 1999           | 2000          | 2000           | 2000 2001      | 2001         | 2001      |
|                |  | (256-267 days) | (96-106 days) | (122-134 days) | (260-268 days) | (33-39 days) |           |
| Z 14           |  | 42             | -5            | 17             | 51             | 1            |           |
| Z 16           |  | 19             | 1             | -3             | -1             | 1            |           |
| Z 18           |  | 8              | 3             | -2             | 2              | 0            |           |
| Z 20           |  | 37             | 6             | 1              | -1             | 0            |           |
| Z 22           |  | 36             | 4             | 12             | 27             | 19           |           |
| Z 24           |  | 10             | 1             | -2             | 1              | 0            |           |
| Z 26           |  | 17             | 1             | 10             | -7             | 4            |           |
| Z 28           |  | 14             | 0             | 3              | -1             | 1            |           |
| Z 30           |  | 5              | 1             | -2             | -5             | 0            |           |
| Z 32           |  | 10             | 0             | 5              | -2             | 2            |           |
| Z 34           |  | 18             | -9            | 14             | -4             | 4            |           |
| Z 36           |  | 18             | 4             | -4             | -2             | 5            |           |
| Z 38           |  | 2              | 3             | -4             | -3             | 3            |           |
| Z 40           |  | 3              | 1             | -5             | -3             | 0            |           |
| Z 42           |  | 28             | 1             | -3             | -4             | 5            |           |
| Z 46           |  | 0              | 0             | -2             | 0              | 2            |           |
| Z 50           |  | 31             | -2            | 5              | 34             | -1           |           |
| Z 54           |  | -2             | 0             | -5             | 20             | -1           |           |
| Z 58           |  | 30             | 1             | -5             | -2             | -1           |           |
| Z 62           |  | 1              | 0             | -1             | 5              | 29           |           |
| Z 66           |  | 17             | -12           | 3              | 0              | 1            |           |
| Z 70           |  | 11             | -1            | -1             | -1             | 1            |           |
| Z 72           |  | 0              | 1             | 31             | -3             | 2            |           |
| Z 74           |  | -10            | 1             | -1             | -4             | -1           |           |
| Z 76           |  | 14             | 0             | -2             | 7              | 3            |           |
| Z 78           |  | -1             | 2             | 17             | -1             | 0            |           |
| Z 80           |  | 6              | -1            | -1             | 1              | 2            |           |
| Z 82           |  | 21             | 11            | -4             | 2              | -1           |           |
| Z 84           |  | 29             | 21            | 14             | 25             | 2            |           |
| Z 86           |  |                | 15            | -3             | 63             | 11           |           |
| Z 88           |  | -7             | 12            | 0              | -5             | 16           |           |
| Z 90           |  | 37             | -6            | -2             | 14             | 16           |           |
| Z 92           |  | -2             | 0             | -2             | -1             | 0            |           |
| Z 94           |  | 20             | 1             | 0              | 69             | -1           |           |
| Z 96           |  | -3             | 6             | 7              | 0              | -1           |           |
| Z 98           |  | 18             | 3             | -5             | 8              | -11          |           |
| Z 100          |  | -3             | 39            | -13            | -4             | 1            |           |
| Z 102          |  |                | 5             | -6             | 12             | -10          |           |

Table 2-2a. Net accumulation along Route MD in 1999-2001.

| Station No. | (cm in depth)                       |                                   |                                    |                                  |                      |
|-------------|-------------------------------------|-----------------------------------|------------------------------------|----------------------------------|----------------------|
|             | Dec.19-29<br>1999<br>(247-264 days) | Sep.1-8<br>2000<br>(118-132 days) | Jan.4-11<br>2001<br>(241-259 days) | Sep.9-20<br>2001<br>(39-60 days) | Oct.29-Nov.8<br>2001 |
| IM 0        |                                     |                                   |                                    |                                  | -1                   |
| IM 1        |                                     |                                   | 12                                 | 5                                | -1                   |
| IM 2        | -3                                  | -3                                |                                    | -1                               | 1                    |
| MD 0        | 10                                  | 0                                 |                                    | -2                               | 2                    |
| MD 2        | -2                                  | -1                                |                                    | -3                               | 8                    |
| MD 4        | 7                                   | 0                                 |                                    | -3                               | 0                    |
| MD 6        | 10                                  | 2                                 |                                    | 0                                | 0                    |
| MD 8        | 33                                  | -2                                |                                    | -2                               | 0                    |
| MD 10       | 18                                  | -13                               |                                    | -2                               | 3                    |
| MD 12       | -5                                  | 6                                 |                                    | 5                                | 0                    |
| MD 14       | 1                                   | -4                                |                                    | -2                               | 0                    |
| MD 16       | 20                                  | 18                                |                                    | 60                               | 5                    |
| MD 18       | 35                                  | -2                                |                                    | 46                               | 17                   |
| MD 20       | 20                                  | 2                                 |                                    | 50                               | 9                    |
| MD 22       | 30                                  | 23                                |                                    | 9                                | 1                    |
| MD 24       | 20                                  | -2                                |                                    | -2                               | 1                    |
| MD 26       | -1                                  | 0                                 |                                    | -2                               | 0                    |
| MD 28       | 17                                  | -1                                |                                    | 5                                | 1                    |
| MD 30       | 9                                   | -10                               |                                    | 10                               | 6                    |
| MD 32       | -2                                  | -2                                |                                    | 9                                | 1                    |
| MD 34       | 45                                  | -3                                |                                    | 12                               | 11                   |
| MD 36       | 20                                  | -1                                |                                    | 35                               | 9                    |
| MD 38       | 55                                  | 5                                 |                                    | 14                               | 1                    |
| MD 40       | -2                                  | 0                                 |                                    | 1                                | 0                    |
| MD 42       | -2                                  | -2                                |                                    | -1                               | 0                    |
| MD 44       | 0                                   | -2                                |                                    | 16                               | 8                    |
| MD 46       | 33                                  | -2                                |                                    | 22                               | -1                   |
| MD 48       | 31                                  | -3                                |                                    | 92                               | -17                  |
| MD 50       | 13                                  | 9                                 |                                    | 30                               | 7                    |
| MD 52       | 11                                  | -3                                |                                    | -3                               | 1                    |
| MD 54       | 2                                   | -3                                |                                    | 0                                | 0                    |
| MD 56       | 24                                  | -8                                |                                    | 3                                | 1                    |
| MD 58       | 4                                   | -1                                |                                    | 9                                | 1                    |
| MD 60       | 28                                  | -1                                |                                    | -2                               | 0                    |
| MD 62       | 64                                  | -12                               |                                    | -1                               | -17                  |
| MD 64       | 21                                  | 46                                |                                    | -3                               | 0                    |
| MD 66       | 30                                  | -3                                |                                    | -1                               | 0                    |
| MD 68       | 25                                  | -1                                |                                    | 23                               | 0                    |
| MD 70       | 52                                  | -3                                |                                    | 9                                | 28                   |
| MD 72       | 5                                   | 32                                |                                    | 111                              | -9                   |
| MD 74       | 10                                  | -3                                |                                    | 43                               | 13                   |
| MD 76       | 9                                   | -11                               |                                    | 18                               | 8                    |
| MD 78       | 36                                  | 5                                 |                                    | 23                               | 1                    |
| MD 80       | 25                                  | -2                                |                                    | 33                               | 5                    |
| MD 82       | 4                                   | 3                                 |                                    | 36                               | -2                   |

| Station<br>No. | (cm in depth)                       |                                   |                                    |                                  |                      |
|----------------|-------------------------------------|-----------------------------------|------------------------------------|----------------------------------|----------------------|
|                | Dec.19-29<br>1999<br>(247-264 days) | Sep.1-8<br>2000<br>(118-132 days) | Jan.4-11<br>2001<br>(241-259 days) | Sep.9-20<br>2001<br>(39-60 days) | Oct.29-Nov.8<br>2001 |
| MD 84          | -5                                  | -3                                | 13                                 | 0                                |                      |
| MD 86          | -9                                  | -3                                | -1                                 | 0                                |                      |
| MD 88          |                                     |                                   | 27                                 | 5                                |                      |
| MD 90          | -6                                  | -3                                | 15                                 | 3                                |                      |
| MD 92          | -5                                  | -1                                | -2                                 | 1                                |                      |
| MD 94          | 21                                  | -1                                | 1                                  | 0                                |                      |
| MD 96          | -30                                 | -1                                | 6                                  | 0                                |                      |
| MD 98          | 1                                   | -3                                | 0                                  | 2                                |                      |
| MD 100         | 25                                  | -2                                | 13                                 | 22                               |                      |
| MD 102         | 62                                  | 8                                 | 30                                 | 4                                |                      |
| MD 104         | 9                                   | 7                                 | 14                                 | 0                                |                      |
| MD 106         | 29                                  | -3                                | -2                                 | 14                               |                      |
| MD 108         | -2                                  | -1                                | 1                                  | 1                                |                      |
| MD 110         | 0                                   | -3                                | 0                                  | 0                                |                      |
| MD 112         | 8                                   | -1                                | 4                                  | -6                               |                      |
| MD 114         | 10                                  | -2                                | -1                                 | 0                                |                      |
| MD 116         | -3                                  | -6                                | -3                                 | 2                                |                      |
| MD 118         | 8                                   | 20                                | -1                                 | 0                                |                      |
| MD 120         | 8                                   | 6                                 | -2                                 | 2                                |                      |
| MD 122         | 8                                   | -3                                | -2                                 | 1                                |                      |
| MD 124         | 3                                   | 14                                | 17                                 | 20                               |                      |
| MD 126         | 8                                   | 32                                | 0                                  | 0                                |                      |
| MD 128         | 3                                   | 6                                 | 23                                 | 0                                |                      |
| MD 130         | 31                                  | 0                                 | 0                                  | 0                                |                      |
| MD 132         | 4                                   | -2                                | 1                                  | 0                                |                      |
| MD 134         | -3                                  | 3                                 | 1                                  | 1                                |                      |
| MD 136         | 49                                  | 0                                 | -1                                 | 1                                |                      |
| MD 138         | 2                                   | -3                                | 19                                 | 5                                |                      |
| MD 140         | -1                                  | -1                                | 19                                 | 0                                |                      |
| MD 142         | 5                                   | -2                                | 74                                 | -14                              |                      |
| MD 144         | 1                                   | 11                                | 11                                 | 0                                |                      |
| MD 146         | 2                                   | -3                                | 26                                 | 0                                |                      |
| MD 148         | 33                                  | -2                                | 2                                  | 9                                |                      |
| MD 150         | 56                                  | -7                                | 3                                  | 0                                |                      |
| MD 152         |                                     | 3                                 | 2                                  | 24                               |                      |
| MD 154         | 12                                  | 6                                 | 33                                 | 12                               |                      |
| MD 156         | 6                                   | 35                                | 35                                 | 1                                |                      |
| MD 158         | 31                                  | -4                                | 25                                 | 0                                |                      |
| MD 160         | 13                                  | -16                               | 10                                 | 17                               |                      |
| MD 162         | 36                                  | -2                                | 26                                 | 7                                |                      |
| MD 164         | 36                                  | -2                                | 9                                  | -2                               |                      |
| MD 166         | -2                                  | -2                                | 19                                 | -1                               |                      |
| MD 168         | 0                                   | -2                                | 0                                  | 0                                |                      |
| MD 170         | 33                                  | -2                                | -4                                 | 7                                |                      |
| MD 172         | 1                                   | -1                                | -1                                 | 0                                |                      |
| MD 174         | 25                                  | -4                                | 60                                 | -23                              |                      |
| MD 176         | 15                                  | -3                                | -2                                 | 1                                |                      |

| Station<br>No. | (cm in depth)  |                |                |              |              |
|----------------|----------------|----------------|----------------|--------------|--------------|
|                | Dec.19-29      | Sep.1-8        | Jan.4-11       | Sep.9-20     | Oct.29-Nov.8 |
|                | 1999           | 2000           | 2001           | 2001         | 2001         |
|                | (247-264 days) | (118-132 days) | (241-259 days) | (39-60 days) |              |
| MD 178         | -1             | 0              | -1             | 1            |              |
| MD 180         | 6              | -7             | 4              | 1            |              |
| MD 182         | 2              | 1              | 22             | 0            |              |
| MD 184         | 0              | -3             | 26             | 27           |              |
| MD 186         | 3              | -1             | -1             | 0            |              |
| MD 188         | 21             | 36             | 13             | -9           |              |
| MD 190         | 38             | 10             | 3              | 3            |              |
| MD 192         | 0              | -1             | 0              | 3            |              |
| MD 194         | 3              | 1              | -3             | 1            |              |
| MD 196         | 0              | -1             | -1             | 1            |              |
| MD 198         | -2             | 0              | -1             | 0            |              |
| MD 200         | 0              | -1             | -1             | 1            |              |
| MD 202         | -1             | 0              | -2             | 0            |              |
| MD 204         | -2             | -1             | 0              | 0            |              |
| MD 206         | 29             | 2              | 28             | 6            |              |
| MD 208         | 31             | -1             | 12             | 1            |              |
| MD 210         | 42             | -3             | -1             | 0            |              |
| MD 212         | -6             | -1             | -1             | 1            |              |
| MD 214         | 38             | -15            | 1              | 9            |              |
| MD 216         | 39             | -12            | 27             | 1            |              |
| MD 218         | -3             | 0              | -1             | 0            |              |
| MD 220         | 7              | -1             | -1             | 1            |              |
| MD 222         | -1             | 0              | -2             | 1            |              |
| MD 224         | 2              | 0              | 3              | 15           |              |
| MD 226         | 36             | -2             | -1             | 0            |              |
| MD 228         | 38             | 14             | 30             | 4            |              |
| MD 230         | 50             | 16             | 13             | 1            |              |
| MD 232         | 8              | 1              | 12             | 0            |              |
| MD 234         | 0              | 35             | -1             | 0            |              |
| MD 236         | 18             | 3              | 2              | 1            |              |
| MD 238         | 60             | -3             | 1              | 2            |              |
| MD 240         | -1             | 0              | -1             | 0            |              |
| MD 242         | 39             | 26             | 4              | 0            |              |
| MD 244         | -2             | 5              | -3             | 0            |              |
| MD 246         | -2             | -2             | 0              | 1            |              |
| MD 248         | -1             | -1             | -1             | 0            |              |
| MD 250         | -2             | -2             | -1             | 0            |              |
| MD 252         | 1              | -2             | 5              | 1            |              |
| MD 254         | 6              | -1             | -2             | 2            |              |
| MD 256         | -2             | -3             | 36             | 1            |              |
| MD 258         | 39             | -7             | 26             | -7           |              |
| MD 260         | 27             | 5              | 9              | 2            |              |
| MD 262         | 3              | -2             | 4              | 0            |              |
| MD 264         | 28             | 6              | 26             | 4            |              |
| MD 266         | 32             | 4              | 20             | 1            |              |
| MD 268         | 1              | 6              | -1             | 8            |              |
| MD 270         | 19             | 24             | 9              | 36           |              |

| Station<br>No. | (cm in depth)  |                |                |              |              |
|----------------|----------------|----------------|----------------|--------------|--------------|
|                | Dec.19-29      | Sep.1-8        | Jan.4-11       | Sep.9-20     | Oct.29-Nov.8 |
|                | 1999           | 2000           | 2001           | 2001         | 2001         |
|                | (247-264 days) | (118-132 days) | (241-259 days) | (39-60 days) |              |
| MD 272         | 57             | -10            | -3             | 1            |              |
| MD 274         | -4             | 1              | 21             | 12           |              |
| MD 276         | 41             | -2             | 0              | 1            |              |
| MD 278         | -2             | -1             | 36             | 0            |              |
| MD 280         | 7              | -3             | 8              | 12           |              |
| MD 282         | 0              | 0              | 1              | 3            |              |
| MD 284         | 1              | 8              | 10             | 0            |              |
| MD 286         | 35             | 0              | 18             | 8            |              |
| MD 288         | -2             | -3             | 1              | -1           |              |
| MD 290         | -1             | 4              | 11             | 0            |              |
| MD 292         | 18             | 0              | 3              | 0            |              |
| MD 294         | -3             | -2             | 0              | 0            |              |
| MD 296         | -2             | 0              | 0              | 0            |              |
| MD 298         | -1             | -1             | 0              | 0            |              |
| MD 300         | -4             | -1             | -1             | 0            |              |
| MD 302         | 10             | -4             | 4              | 5            |              |
| MD 304         | 2              | 1              | 3              | 0            |              |
| MD 306         | 18             | -3             | 0              | -1           |              |
| MD 308         | 31             | -6             | 33             | -2           |              |
| MD 310         | 8              | -1             | 19             | 7            |              |
| MD 312         | 8              | 1              | -1             | 1            |              |
| MD 314         | 10             | 3              | 2              | 0            |              |
| MD 316         | 36             | 29             | 0              | 0            |              |
| MD 318         | 18             | -1             | -2             | 1            |              |
| MD 320         | 0              | 16             | 19             | 1            |              |
| MD 322         | 9              | -6             | 5              | 19           |              |
| MD 324         | 8              | 8              | 11             | 1            |              |
| MD 326         | 4              | 22             | -3             | 1            |              |
| MD 328         | 1              | -1             | -1             | 2            |              |
| MD 330         | -3             | -2             | 0              | 0            |              |
| MD 332         | 6              | -1             | 0              | 0            |              |
| MD 334         | 29             | 0              | -2             | 0            |              |
| MD 336         | 18             | -1             | 0              | -1           |              |
| MD 338         | 21             | -3             | 23             | 7            |              |
| MD 340         | 2              | -2             | 8              | -3           |              |
| MD 342         | 16             | 2              | 7              | 1            |              |
| MD 344         | -2             | 10             | 4              | 0            |              |
| MD 346         | 12             | 8              | 28             | 1            |              |
| MD 348         | 49             | -12            | 20             | 9            |              |
| MD 350         | 44             | -4             | 3              | 26           |              |
| MD 352         | 31             | 21             | 30             | -12          |              |
| MD 354         | -2             | 27             | -2             | 1            |              |
| MD 356         | 15             | -1             | 7              | -3           |              |
| MD 358         | 0              | 9              | 2              | 1            |              |
| MD 360         | -3             | -1             | -2             | 1            |              |
| MD 362         | -1             | -1             | 2              | 1            |              |
| MD 364         | 0              | 9              | 0              | 0            |              |

Table 2-2b. Net accumulation along Route MD in 1999-2001.

| (cm in depth) |                                 |                                 |                    | (cm in depth) |                                 |                                 |                    |
|---------------|---------------------------------|---------------------------------|--------------------|---------------|---------------------------------|---------------------------------|--------------------|
| Station No.   | Dec.9-29 1999<br>(372-407 days) | Jan.4-19 2001<br>(283-314 days) | Oct.29-Nov.14 2001 | Station No.   | Dec.9-29 1999<br>(372-407 days) | Jan.4-19 2001<br>(283-314 days) | Oct.29-Nov.14 2001 |
| IM 0          |                                 |                                 |                    | MD 92         | -6                              | -1                              |                    |
| IM 1          | -6                              |                                 | 4                  | MD 94         | 20                              | 1                               |                    |
| IM 2          | -6                              |                                 | 0                  | MD 96         | -31                             | 6                               |                    |
| MD 0          | 10                              |                                 | 0                  | MD 98         | -2                              | 2                               |                    |
| MD 2          | -3                              |                                 | 5                  | MD 100        | 23                              | 35                              |                    |
| MD 4          | 7                               |                                 | -3                 | MD 102        | 70                              | 34                              |                    |
| MD 6          | 12                              |                                 | 0                  | MD 104        | 16                              | 14                              |                    |
| MD 8          | 31                              |                                 | -2                 | MD 106        | 26                              | 12                              |                    |
| MD 10         | 5                               |                                 | 1                  | MD 108        | -3                              | 2                               |                    |
| MD 12         | 1                               |                                 | 5                  | MD 110        | -3                              | 0                               |                    |
| MD 14         | -3                              |                                 | -2                 | MD 112        | 7                               | -2                              |                    |
| MD 16         | 38                              |                                 | 65                 | MD 114        | 8                               | -1                              |                    |
| MD 18         | 33                              |                                 | 63                 | MD 116        | -9                              | -1                              |                    |
| MD 20         | 22                              |                                 | 59                 | MD 118        | 28                              | -1                              |                    |
| MD 22         | 53                              |                                 | 10                 | MD 120        | 14                              | 0                               |                    |
| MD 24         | 18                              |                                 | -1                 | MD 122        | 5                               | -1                              |                    |
| MD 26         | -1                              |                                 | -2                 | MD 124        | 17                              | 37                              |                    |
| MD 28         | 16                              |                                 | 6                  | MD 126        | 40                              | 0                               |                    |
| MD 30         | -1                              |                                 | 16                 | MD 128        | 9                               | 23                              |                    |
| MD 32         | -4                              |                                 | 10                 | MD 130        | 31                              | 0                               |                    |
| MD 34         | 42                              |                                 | 23                 | MD 132        | 2                               | 1                               |                    |
| MD 36         | 19                              |                                 | 44                 | MD 134        | 0                               | 2                               |                    |
| MD 38         | 60                              |                                 | 15                 | MD 136        | 49                              | 0                               |                    |
| MD 40         | -2                              |                                 | 1                  | MD 138        | -1                              | 24                              |                    |
| MD 42         | -4                              |                                 | -1                 | MD 140        | -2                              | 19                              |                    |
| MD 44         | -2                              |                                 | 24                 | MD 142        | 3                               | 60                              |                    |
| MD 46         | 31                              |                                 | 21                 | MD 144        | 12                              | 11                              |                    |
| MD 48         | 28                              |                                 | 75                 | MD 146        | -1                              | 26                              |                    |
| MD 50         | 22                              |                                 | 37                 | MD 148        | 31                              | 11                              |                    |
| MD 52         | 8                               |                                 | -2                 | MD 150        | 49                              | 3                               |                    |
| MD 54         | -1                              |                                 | 0                  | MD 152        |                                 | 26                              |                    |
| MD 56         | 16                              |                                 | 4                  | MD 154        | 18                              | 45                              |                    |
| MD 58         | 3                               |                                 | 10                 | MD 156        | 41                              | 36                              |                    |
| MD 60         | 27                              |                                 | -2                 | MD 158        | 27                              | 25                              |                    |
| MD 62         | 52                              |                                 | -18                | MD 160        | -3                              | 27                              |                    |
| MD 64         | 67                              |                                 | -3                 | MD 162        | 34                              | 33                              |                    |
| MD 66         | 27                              |                                 | -1                 | MD 164        | 34                              | 7                               |                    |
| MD 68         | 24                              |                                 | 23                 | MD 166        | -4                              | 18                              |                    |
| MD 70         | 49                              |                                 | 37                 | MD 168        | -2                              | 0                               |                    |
| MD 72         | 37                              |                                 | 102                | MD 170        | 31                              | 3                               |                    |
| MD 74         | 7                               |                                 | 56                 | MD 172        | 0                               | -1                              |                    |
| MD 76         | -2                              |                                 | 26                 | MD 174        | 21                              | 37                              |                    |
| MD 78         | 41                              |                                 | 24                 | MD 176        | 12                              | -1                              |                    |
| MD 80         | 23                              |                                 | 38                 | MD 178        | -1                              | 0                               |                    |
| MD 82         | 7                               |                                 | 34                 | MD 180        | -1                              | 5                               |                    |
| MD 84         | -8                              |                                 | 13                 | MD 182        | 3                               | 22                              |                    |
| MD 86         | -12                             |                                 | -1                 | MD 184        | -3                              | 53                              |                    |
| MD 88         | 19                              |                                 | 32                 | MD 186        | 2                               | -1                              |                    |
| MD 90         | -9                              |                                 | 18                 | MD 188        | 57                              | 4                               |                    |

| (cm in depth) |                                  |                                  |                      | (cm in depth) |                                  |                                  |                      |
|---------------|----------------------------------|----------------------------------|----------------------|---------------|----------------------------------|----------------------------------|----------------------|
| Station No.   | Dec. 9-29 1999<br>(372-407 days) | Jan. 4-19 2001<br>(283-314 days) | Oct. 29-Nov. 14 2001 | Station No.   | Dec. 9-29 1999<br>(372-407 days) | Jan. 4-19 2001<br>(283-314 days) | Oct. 29-Nov. 14 2001 |
| MD 190        | 48                               | 6                                |                      | MD 292        | 18                               | 3                                |                      |
| MD 192        | -1                               | 3                                |                      | MD 294        | -5                               | 0                                |                      |
| MD 194        | 4                                | -2                               |                      | MD 296        | -2                               | 0                                |                      |
| MD 196        | -1                               | 0                                |                      | MD 298        | -2                               | 0                                |                      |
| MD 198        | -2                               | -1                               |                      | MD 300        | -5                               | -1                               |                      |
| MD 200        | -1                               | 0                                |                      | MD 302        | 6                                | 9                                |                      |
| MD 202        | -1                               | -2                               |                      | MD 304        | 3                                | 3                                |                      |
| MD 204        | -3                               | 0                                |                      | MD 306        | 15                               | -1                               |                      |
| MD 206        | 31                               | 34                               |                      | MD 308        | 25                               | 31                               |                      |
| MD 208        | 30                               | 13                               |                      | MD 310        | 7                                | 25                               |                      |
| MD 210        | -84                              | -1                               |                      | MD 312        | 9                                | 0                                |                      |
| MD 212        | -7                               | 0                                |                      | MD 314        | 13                               | 2                                |                      |
| MD 214        | 23                               | 10                               |                      | MD 316        | 65                               | 0                                |                      |
| MD 216        | 27                               | 28                               |                      | MD 318        | 17                               | -1                               |                      |
| MD 218        | -3                               | -1                               |                      | MD 320        | 16                               | 20                               |                      |
| MD 220        | 6                                | 0                                |                      | MD 322        | 3                                | 24                               |                      |
| MD 222        | -1                               | -1                               |                      | MD 324        | 16                               | 12                               |                      |
| MD 224        | 2                                | 18                               |                      | MD 326        | 26                               | -2                               |                      |
| MD 226        | 34                               | -1                               |                      | MD 328        | 0                                | 1                                |                      |
| MD 228        | 52                               | 34                               |                      | MD 330        | -5                               | 0                                |                      |
| MD 230        | 66                               | 14                               |                      | MD 332        | 5                                | 0                                |                      |
| MD 232        | 9                                | 12                               |                      | MD 334        | 29                               | -2                               |                      |
| MD 234        | 35                               | -1                               |                      | MD 336        | 17                               | -1                               |                      |
| MD 236        | 21                               | 3                                |                      | MD 338        | 18                               | 30                               |                      |
| MD 238        | 57                               | 3                                |                      | MD 340        | 0                                | 5                                |                      |
| MD 240        | -1                               | -1                               |                      | MD 342        | 18                               | 8                                |                      |
| MD 242        | 65                               | 4                                |                      | MD 344        | 8                                | 4                                |                      |
| MD 244        | 3                                | -3                               |                      | MD 346        | 20                               | 29                               |                      |
| MD 246        | -4                               | 1                                |                      | MD 348        | 37                               | 29                               |                      |
| MD 248        | -2                               | -1                               |                      | MD 350        | 38                               | 29                               |                      |
| MD 250        | -4                               | -1                               |                      | MD 352        | 52                               | 18                               |                      |
| MD 252        | -1                               | 6                                |                      | MD 354        | 25                               | -1                               |                      |
| MD 254        | 5                                | 0                                |                      | MD 356        | 14                               | 4                                |                      |
| MD 256        | -5                               | 37                               |                      | MD 358        | 9                                | 3                                |                      |
| MD 258        | 32                               | 19                               |                      | MD 360        | -4                               | -1                               |                      |
| MD 260        | 32                               | 11                               |                      | MD 362        | -2                               | 3                                |                      |
| MD 262        | 1                                | 4                                |                      | MD 364        | 9                                | 0                                |                      |
| MD 264        | 34                               | 30                               |                      | MD 366        | -2                               | 0                                |                      |
| MD 266        | 36                               | 21                               |                      | MD 368        | 19                               | 19                               |                      |
| MD 268        | 7                                | 7                                |                      | MD 370        | 10                               | 6                                |                      |
| MD 270        | 43                               | 45                               |                      | MD 372        | 42                               | 13                               |                      |
| MD 272        | 47                               | -2                               |                      | MD 374        | 2                                | 29                               |                      |
| MD 274        | -3                               | 33                               |                      | MD 376        | -1                               | 6                                |                      |
| MD 276        | 39                               | 1                                |                      | MD 378        | -2                               | 0                                |                      |
| MD 278        | -3                               | 36                               |                      | MD 380        | -1                               | 44                               |                      |
| MD 280        | 4                                | 20                               |                      | MD 382        | 15                               | 3                                |                      |
| MD 282        | 0                                | 4                                |                      | MD 384        | -2                               | 1                                |                      |
| MD 284        | 9                                | 10                               |                      | MD 386        | -3                               | 10                               |                      |
| MD 286        | 35                               | 26                               |                      | MD 388        | 32                               | 2                                |                      |
| MD 288        | -5                               | 0                                |                      | MD 390        | 15                               | -1                               |                      |
| MD 290        | 3                                | 11                               |                      | MD 392        | -3                               | 0                                |                      |

| (cm in depth) |                                  |                                 |                    | (cm in depth) |                                  |                                 |                    |
|---------------|----------------------------------|---------------------------------|--------------------|---------------|----------------------------------|---------------------------------|--------------------|
| Station No.   | Dec. 9-29 1999<br>(372-407 days) | Jan.4-19 2001<br>(283-314 days) | Oct.29-Nov.14 2001 | Station No.   | Dec. 9-29 1999<br>(372-407 days) | Jan.4-19 2001<br>(283-314 days) | Oct.29-Nov.14 2001 |
| MD 394        | -3                               |                                 | 18                 | MD 496        | 12                               |                                 | 6                  |
| MD 396        | 1                                |                                 | 15                 | MD 498        | 16                               |                                 | 10                 |
| MD 398        | 4                                |                                 | 5                  | MD 500        | 16                               |                                 | 2                  |
| MD 400        | -1                               |                                 | 4                  | MD 502        | 1                                |                                 | 8                  |
| MD 402        | 18                               |                                 | -2                 | MD 504        | 20                               |                                 | 6                  |
| MD 404        | -2                               |                                 | 9                  | MD 506        | 6                                |                                 | 5                  |
| MD 406        | 12                               |                                 | 22                 | MD 508        | -70                              |                                 | 4                  |
| MD 408        | 34                               |                                 | 0                  | MD 510        | 8                                |                                 | -1                 |
| MD 410        | 10                               |                                 | 2                  | MD 512        | 8                                |                                 | 14                 |
| MD 412        | 13                               |                                 | 0                  | MD 514        | 13                               |                                 | 23                 |
| MD 414        | 14                               |                                 | 14                 | MD 516        | 1                                |                                 | 5                  |
| MD 416        | 7                                |                                 | 0                  | MD 518        | 10                               |                                 | 40                 |
| MD 418        | 6                                |                                 | 11                 | MD 520        | 17                               |                                 | 4                  |
| MD 420        | 14                               |                                 | 16                 | MD 522        | 9                                |                                 | 1                  |
| MD 422        | -4                               |                                 | 0                  | MD 524        | 12                               |                                 | 1                  |
| MD 424        | 6                                |                                 | 7                  | MD 526        | 9                                |                                 | 1                  |
| MD 426        | 18                               |                                 | 14                 | MD 528        | 12                               |                                 | 14                 |
| MD 428        | 17                               |                                 | 9                  | MD 530        | 12                               |                                 | 1                  |
| MD 430        | 18                               |                                 | -1                 | MD 532        | 24                               |                                 | 5                  |
| MD 432        | 22                               |                                 | 0                  | MD 534        | 17                               |                                 | 2                  |
| MD 434        | 4                                |                                 | 27                 | MD 536        | 15                               |                                 | 22                 |
| MD 436        | 16                               |                                 | 2                  | MD 538        | 5                                |                                 | 7                  |
| MD 438        | 5                                |                                 | 0                  | MD 540        | 7                                |                                 | -2                 |
| MD 440        | 5                                |                                 | 0                  | MD 542        | -2                               |                                 | 1                  |
| MD 442        | 7                                |                                 | 1                  | MD 544        | 26                               |                                 | 23                 |
| MD 444        | 8                                |                                 | 18                 | MD 546        | 21                               |                                 | 1                  |
| MD 446        | 23                               |                                 | 0                  | MD 548        | 30                               |                                 | 2                  |
| MD 448        | 23                               |                                 | 8                  | MD 550        | 9                                |                                 | 7                  |
| MD 450        | -3                               |                                 | 2                  | MD 552        | -2                               |                                 | 6                  |
| MD 452        | 0                                |                                 | 18                 | MD 554        | -2                               |                                 | 15                 |
| MD 454        | 26                               |                                 | -1                 | MD 556        | 14                               |                                 | 0                  |
| MD 456        | 4                                |                                 | 9                  | MD 558        | 1                                |                                 | 4                  |
| MD 458        | 2                                |                                 | 11                 | MD 560        | -4                               |                                 | 12                 |
| MD 460        | 7                                |                                 | 21                 | MD 562        | 8                                |                                 | 22                 |
| MD 462        | 5                                |                                 | 6                  | MD 564        | 3                                |                                 | 2                  |
| MD 464        | 19                               |                                 | 0                  | MD 566        | 10                               |                                 | 35                 |
| MD 466        | 11                               |                                 | 18                 | MD 568        | 10                               |                                 | 2                  |
| MD 468        | 4                                |                                 | 3                  | MD 570        | 3                                |                                 | 5                  |
| MD 470        | -1                               |                                 | 2                  | MD 572        | 13                               |                                 | 2                  |
| MD 472        | 8                                |                                 | 3                  | MD 574        | 16                               |                                 | 9                  |
| MD 474        | -1                               |                                 | 10                 | MD 576        | 10                               |                                 | 5                  |
| MD 476        | 13                               |                                 | -1                 | MD 578        | 10                               |                                 | 4                  |
| MD 478        | -1                               |                                 | 0                  | MD 580        | 15                               |                                 | 2                  |
| MD 480        | 36                               |                                 | 14                 | MD 582        | 13                               |                                 | 0                  |
| MD 482        | 5                                |                                 | 29                 | MD 584        | 15                               |                                 | 29                 |
| MD 484        | 5                                |                                 | 11                 | MD 586        | 8                                |                                 | 7                  |
| MD 486        | 4                                |                                 | 14                 | MD 588        | -2                               |                                 | 7                  |
| MD 488        | -1                               |                                 | -1                 | MD 590        | 15                               |                                 | 1                  |
| MD 490        | 15                               |                                 | 0                  | MD 592        | 14                               |                                 | 5                  |
| MD 492        | 12                               |                                 | 4                  | MD 594        | 6                                |                                 | -1                 |
| MD 494        | 10                               |                                 | 16                 | MD 596        | 0                                |                                 | 6                  |

| (cm in depth) |                                  |                                  |                     | (cm in depth) |                                  |                                  |                      |
|---------------|----------------------------------|----------------------------------|---------------------|---------------|----------------------------------|----------------------------------|----------------------|
| Station No.   | Dec. 9-29 1999<br>(372-407 days) | Jan. 4-19 2001<br>(283-314 days) | Oct. 29-Nov 14 2001 | Station No.   | Dec. 9-29 1999<br>(372-407 days) | Jan. 4-19 2001<br>(283-314 days) | Oct. 29-Nov. 14 2001 |
| MD 598        | 12                               |                                  | 13                  | MD 700        | -1                               |                                  | 3                    |
| MD 600        | 10                               |                                  | 13                  | MD 702        | 5                                |                                  | 12                   |
| MD 602        | 4                                |                                  | 0                   | MD 704        | -1                               |                                  | 20                   |
| MD 604        | 5                                |                                  | 7                   | MD 706        | 2                                |                                  | 2                    |
| MD 606        | 1                                |                                  | 6                   | MD 708        | 9                                |                                  | 1                    |
| MD 608        | 11                               |                                  | 0                   | MD 710        | 6                                |                                  | 4                    |
| MD 610        | 10                               |                                  | 5                   | MD 712        | 12                               |                                  | -1                   |
| MD 612        | 1                                |                                  | 27                  | MD 714        | 7                                |                                  | 5                    |
| MD 614        | 11                               |                                  | 7                   | MD 716        | 19                               |                                  | 9                    |
| MD 616        | -2                               |                                  | 10                  | MD 718        | 9                                |                                  | 5                    |
| MD 618        | 12                               |                                  | 10                  | MD 720        | 10                               |                                  | 6                    |
| MD 620        | 1                                |                                  | 7                   | MD 722        | 7                                |                                  | 3                    |
| MD 622        | 15                               |                                  | 8                   | MD 724        | 8                                |                                  | 19                   |
| MD 624        | 8                                |                                  | 3                   | MD 726        | 2                                |                                  | 4                    |
| MD 626        | 20                               |                                  | 3                   | MD 728        | 21                               |                                  | -1                   |
| MD 628        | 6                                |                                  | 10                  | MD 730        | 4                                |                                  | 8                    |
| MD 630        | 1                                |                                  | 13                  | MD 732        | 3                                |                                  | 9                    |
| MD 632        | -2                               |                                  | 8                   | MD 734        | 14                               |                                  | 2                    |
| MD 634        | 0                                |                                  | 7                   | MD 736        |                                  |                                  | 4                    |
| MD 636        | 8                                |                                  | 4                   | MD 738        |                                  |                                  | 6                    |
| MD 638        | 9                                |                                  | 7                   | DF 80         |                                  |                                  | 2                    |
| MD 640        | 8                                |                                  | 6                   |               |                                  |                                  |                      |
| MD 642        | 13                               |                                  | 6                   |               |                                  |                                  |                      |
| MD 644        | 6                                |                                  | 0                   |               |                                  |                                  |                      |
| MD 646        | 24                               |                                  | 2                   |               |                                  |                                  |                      |
| MD 648        | 16                               |                                  | -1                  |               |                                  |                                  |                      |
| MD 650        | 14                               |                                  | 3                   |               |                                  |                                  |                      |
| MD 652        | 12                               |                                  | 20                  |               |                                  |                                  |                      |
| MD 654        | 12                               |                                  | 5                   |               |                                  |                                  |                      |
| MD 656        | 7                                |                                  | 6                   |               |                                  |                                  |                      |
| MD 658        | 5                                |                                  | 9                   |               |                                  |                                  |                      |
| MD 660        | 12                               |                                  | 22                  |               |                                  |                                  |                      |
| MD 662        | 3                                |                                  | 6                   |               |                                  |                                  |                      |
| MD 664        | 12                               |                                  | 6                   |               |                                  |                                  |                      |
| MD 666        | 8                                |                                  | 14                  |               |                                  |                                  |                      |
| MD 668        | 31                               |                                  | -1                  |               |                                  |                                  |                      |
| MD 670        | 1                                |                                  | 7                   |               |                                  |                                  |                      |
| MD 672        | 13                               |                                  | 8                   |               |                                  |                                  |                      |
| MD 674        | 15                               |                                  | 5                   |               |                                  |                                  |                      |
| MD 676        | -1                               |                                  | 9                   |               |                                  |                                  |                      |
| MD 678        | 6                                |                                  | 0                   |               |                                  |                                  |                      |
| MD 680        | 8                                |                                  | 6                   |               |                                  |                                  |                      |
| MD 682        | 3                                |                                  | 1                   |               |                                  |                                  |                      |
| MD 684        | 13                               |                                  | 4                   |               |                                  |                                  |                      |
| MD 686        | 18                               |                                  | 4                   |               |                                  |                                  |                      |
| MD 688        | 7                                |                                  | 9                   |               |                                  |                                  |                      |
| MD 690        | 14                               |                                  | 13                  |               |                                  |                                  |                      |
| MD 692        | 8                                |                                  | 1                   |               |                                  |                                  |                      |
| MD 694        | -2                               |                                  | 8                   |               |                                  |                                  |                      |
| MD 696        | 6                                |                                  | 3                   |               |                                  |                                  |                      |
| MD 698        | 19                               |                                  | -2                  |               |                                  |                                  |                      |

Table 2-3. Net accumulation along Route CF in 2000-2002.

| (cm in depth) |                |              |      | (cm in depth) |                |              |      |
|---------------|----------------|--------------|------|---------------|----------------|--------------|------|
| Station No.   | Jan.19-24      | Dec.29-Jan.2 |      | Station No.   | Jan.19-24      | Dec.29-Jan.2 |      |
|               | 2000           | 2001         | 2002 |               | 2000           | 2001         | 2002 |
|               | (705-714 days) |              |      |               | (705-714 days) |              |      |
| CF 2          |                | -12          |      | CF 92         |                | -6           |      |
| CF 4          |                | 0            |      | CF 94         |                | -3           |      |
| CF 6          |                | 2            |      | CF 96         |                | -5           |      |
| CF 8          |                | 96           |      | CF 98         |                | -1           |      |
| CF 10         |                | 28           |      | CF 100        |                | -3           |      |
| CF 12         |                | 21           |      | CF 102        |                | 4            |      |
| CF 14         |                | 92           |      | CF 104        |                | -3           |      |
| CF 16         |                | 76           |      | CF 106        |                | 21           |      |
| CF 18         |                | 49           |      | CF 108        |                | 44           |      |
| CF 20         |                | -9           |      | CF 110        |                | 66           |      |
| CF 22         |                | -8           |      | CF 112        |                | 34           |      |
| CF 24         |                | -4           |      | CF 114        |                | 29           |      |
| CF 26         |                | 42           |      | CF 116        |                | 2            |      |
| CF 28         |                | 47           |      | CF 118        |                | 7            |      |
| CF 30         |                | 45           |      | CF 120        |                | -9           |      |
| CF 32         |                | 69           |      | CF 122        |                | -8           |      |
| CF 34         |                | 17           |      | CF 124        |                | -11          |      |
| CF 36         |                | 68           |      | CF 126        |                | 82           |      |
| CF 38         |                | 60           |      | CF 128        |                | 68           |      |
| CF 40         |                | 62           |      | CF 130        |                | 97           |      |
| CF 42         |                | 59           |      | CF 132        |                | -2           |      |
| CF 44         |                | -8           |      | CF 134        |                | 17           |      |
| CF 46         |                | -5           |      | CF 136        |                | 74           |      |
| CF 48         |                | 24           |      | CF 138        |                | -3           |      |
| CF 50         |                | 23           |      | CF 140        |                | -5           |      |
| CF 52         |                | 26           |      | CF 142        |                | -4           |      |
| CF 54         |                | 8            |      | CF 144        |                | 5            |      |
| CF 56         |                | 74           |      | CF 146        |                | 4            |      |
| CF 58         |                | 54           |      | CF 148        |                | 25           |      |
| CF 60         |                | 90           |      | CF 150        |                | -5           |      |
| CF 62         |                | -4           |      | CF 152        |                | 21           |      |
| CF 64         |                | -2           |      | CF 154        |                | 34           |      |
| CF 66         |                | 12           |      | CF 156        |                | -2           |      |
| CF 68         |                | -7           |      | CF 158        |                | -1           |      |
| CF 70         |                | 15           |      | CF 160        |                | 14           |      |
| CF 72         |                | 30           |      | CF 162        |                | 76           |      |
| CF 74         |                | 36           |      | CF 164        |                | 49           |      |
| CF 76         |                | 50           |      | CF 166        |                | -8           |      |
| CF 78         |                | 129          |      | CF 168        |                | -5           |      |
| CF 80         |                | 113          |      | CF 170        |                | 23           |      |
| CF 82         |                | 118          |      |               |                |              |      |
| CF 84         |                | 5            |      |               |                |              |      |
| CF 86         |                | 60           |      |               |                |              |      |
| CF 88         |                | -11          |      |               |                |              |      |
| CF 90         |                | -7           |      |               |                |              |      |

Table 2-4. Net accumulation along Route YM in 1999-2002. .

| (cm in depth)  |                              |      |      | (cm in depth)  |                              |      |      |
|----------------|------------------------------|------|------|----------------|------------------------------|------|------|
| Station No.    | Dec.30-Jan.9 Jan.2-5 & 28-30 |      |      | Station No.    | Dec.30-Jan.9 Jan.2-5 & 28-30 |      |      |
|                | 1999                         | 2000 | 2002 |                | 1999                         | 2000 | 2002 |
| (724-762 days) |                              |      |      | (724-762 days) |                              |      |      |
| YM 1           |                              |      | 3    | YM 46          |                              |      | -1   |
| YM 2           |                              |      | -4   | YM 47          |                              |      | -3   |
| YM 3           |                              |      | 8    | YM 48          |                              |      | 8    |
| YM 4           |                              |      | 54   | YM 49          |                              |      | -9   |
| YM 5           |                              |      | 70   | YM 50          |                              |      | -4   |
| YM 6           |                              |      | -10  | YM 51          |                              |      | -9   |
| YM 7           |                              |      | -4   | YM 52          |                              |      | 7    |
| YM 8           |                              |      | -8   | YM 53          |                              |      | -13  |
| YM 9           |                              |      | -12  | YM 54          |                              |      | -14  |
| YM 10          |                              |      | -1   | YM 55          |                              |      | 7    |
| YM 11          |                              |      | 31   | YM 56          |                              |      | 42   |
| YM 12          |                              |      | 52   | YM 57          |                              |      | -26  |
| YM 13          |                              |      | 70   | YM 58          |                              |      | 63   |
| YM 14          |                              |      | -5   | YM 59          |                              |      | 48   |
| YM 15          |                              |      | 0    | YM 60          |                              |      | -6   |
| YM 16          |                              |      | -8   | YM 61          |                              |      | -3   |
| YM 17          |                              |      | -13  | YM 62          |                              |      | -9   |
| YM 18          |                              |      | -6   | YM 63          |                              |      | 2    |
| YM 19          |                              |      | -8   | YM 64          |                              |      | -10  |
| YM 20          |                              |      | -6   | YM 65          |                              |      | 8    |
| YM 21          |                              |      | -10  | YM 66          |                              |      | 20   |
| YM 22          |                              |      | 34   | YM 67          |                              |      | 5    |
| YM 23          |                              |      | -11  | YM 68          |                              |      | 0    |
| YM 24          |                              |      | -9   | YM 69          |                              |      | -1   |
| YM 25          |                              |      | 15   | YM 70          |                              |      | 82   |
| YM 26          |                              |      | 39   | YM 71          |                              |      | -8   |
| YM 27          |                              |      | 20   | YM 72          |                              |      | -3   |
| YM 28          |                              |      | 0    | YM 73          |                              |      | 32   |
| YM 29          |                              |      | 75   | YM 74          |                              |      | 34   |
| YM 30          |                              |      | 80   | YM 75          |                              |      | 140  |
| YM 31          |                              |      | 93   | YM 76          |                              |      | 4    |
| YM 32          |                              |      | -15  | YM 77          |                              |      | 64   |
| YM 33          |                              |      | 0    | YM 78          |                              |      | -1   |
| YM 34          |                              |      | 0    | YM 79          |                              |      | 19   |
| YM 35          |                              |      | -10  | YM 80          |                              |      | 62   |
| YM 36          |                              |      | -15  | YM 81          |                              |      | -11  |
| YM 37          |                              |      | -6   | YM 82          |                              |      | -28  |
| YM 38          |                              |      | -14  | YM 83          |                              |      | -19  |
| YM 39          |                              |      | -2   | YM 84          |                              |      | 61   |
| YM 40          |                              |      | 65   | YM 85          |                              |      | 10   |
| YM 41          |                              |      | 53   | YM 86          |                              |      | -25  |
| YM 42          |                              |      | -13  | YM 87          |                              |      | 32   |
| YM 43          |                              |      | 17   | YM 88          |                              |      | 4    |
| YM 44          |                              |      | 31   | YM 89          |                              |      | -45  |
| YM 45          |                              |      | -8   | YM 90          |                              |      | -4   |

| (cm in depth)  |              |      |                 | (cm in depth)  |              |      |                 |
|----------------|--------------|------|-----------------|----------------|--------------|------|-----------------|
| Station No.    | Dec.30-Jan.9 |      | Jan.2-5 & 28-30 | Station No.    | Dec.30-Jan.9 |      | Jan.2-5 & 28-30 |
|                | 1999         | 2000 | 2002            |                | 1999         | 2000 | 2002            |
| (724-762 days) |              |      |                 | (724-762 days) |              |      |                 |
| YM 91          |              |      | -9              | YM 138         |              |      | 99              |
| YM 92          |              |      | 62              | YM 139         |              |      | 29              |
| YM 93          |              |      | -30             | YM 140         |              |      | 68              |
| YM 94          |              |      | -102            | YM 141         |              |      | 1               |
| YM 95          |              |      | 23              | YM 142         |              |      | 80              |
| YM 96          |              |      | 3               | YM 143         |              |      | 95              |
| YM 97          |              |      | 29              | YM 144         |              |      | -77             |
| YM 98          |              |      | -100            | YM 145         |              |      | -4              |
| YM 99          |              |      | -76             | YM 146         |              |      | 16              |
| YM 100         |              |      | -21             | YM 147         |              |      | 52              |
| YM 101         |              |      | -9              | YM 148         |              |      | -4              |
| YM 102         |              |      | -61             | YM 149         |              |      | -11             |
| YM 103         |              |      | 10              | YM 150         |              |      | 47              |
| YM 104         |              |      | -5              | YM 151         |              |      | 21              |
| YM 105         |              |      | -7              | YM 152         |              |      | -10             |
| YM 106         |              |      | 26              | YM 153         |              |      | 17              |
| YM 107         |              |      | -16             | YM 154         |              |      | 18              |
| YM 108         |              |      | 75              |                |              |      |                 |
| YM 109         |              |      | -13             |                |              |      |                 |
| YM 110         |              |      | 8               |                |              |      |                 |
| YM 111         |              |      | 38              |                |              |      |                 |
| YM 112         |              |      | -1              |                |              |      |                 |
| YM 113         |              |      | -4              |                |              |      |                 |
| YM 114         |              |      | -60             |                |              |      |                 |
| YM 115         |              |      | 56              |                |              |      |                 |
| YM 116         |              |      | 5               |                |              |      |                 |
| YM 117         |              |      | -6              |                |              |      |                 |
| YM 118         |              |      | 67              |                |              |      |                 |
| YM 119         |              |      | -57             |                |              |      |                 |
| YM 120         |              |      | 97              |                |              |      |                 |
| YM 121         |              |      | -57             |                |              |      |                 |
| YM 122         |              |      | 78              |                |              |      |                 |
| YM 123         |              |      | -28             |                |              |      |                 |
| YM 124         |              |      | -10             |                |              |      |                 |
| YM 125         |              |      | 61              |                |              |      |                 |
| YM 126         |              |      | -2              |                |              |      |                 |
| YM 127         |              |      | 26              |                |              |      |                 |
| YM 128         |              |      | 21              |                |              |      |                 |
| YM 129         |              |      | 22              |                |              |      |                 |
| YM 130         |              |      | 24              |                |              |      |                 |
| YM 131         |              |      | -11             |                |              |      |                 |
| YM 132         |              |      | 10              |                |              |      |                 |
| YM 133         |              |      | -6              |                |              |      |                 |
| YM 134         |              |      | 16              |                |              |      |                 |
| YM 135         |              |      | -1              |                |              |      |                 |
| YM 136         |              |      | -4              |                |              |      |                 |
| YM 137         |              |      | 15              |                |              |      |                 |

Table 2-5. Net accumulation in 36-stake farm at S16 in 1999-2001.

| Stake No. | (cm in depth)                              |   |  |
|-----------|--|---|--|
|           | 12 Sep. 1999<br>19 May. 2000<br>(250 days) | 19 May. 2000<br>22 Aug. 2000<br>(95 days) | 22 Aug. 2000<br>26 Oct. 2001<br>(430 days) |
| I -1      | 10   | 6   | -12  |
| -2        | -3   | 0   | -2   |
| -3        | -3   | 10  | -13  |
| -4        | -1   | -2  | -3   |
| -5        | -6   | 1   | -3   |
| -6        | -7   | 0   | 5  |
| II -1     | -12  | 6   | 0  |
| -2        | 0  | 1   | -9   |
| -3        | 2  | -1  | -12  |
| -4        |  | 6   | -8   |
| -5        | -1   | 7   | -8   |
| -6        | 8  | 9   | -15  |
| III -1    |  | 3   | -10  |
| -2        | -9   | 2   | -3   |
| -3        | 1  | 8   | -5   |
| -4        | -3   | 14  | -11  |
| -5        | 5  | -21                                       | -9   |
| -6        | 19   | 19  | -17  |
| IV -1     | 5  | 8   | -4   |
| -2        | -5   | 9   | -5   |
| -3        | 6  | 8   | -7   |
| -4        | -6   | 10  | -5   |
| -5        | 9  | 2   | -16  |
| -6        | 11   | 8   | -13  |
| V -1      | 0  | 3   | -5   |
| -2        | -2   | 2   | 28   |
| -3        | -5   | 8   |  |
| -4        | 18   | 0   |  |
| -5        | 6  | 8   | -11  |
| -6        | 5  | -3  | -9   |
| VI -1     | 15   | 19  | -14  |
| -2        | 8  | 10  | -3   |
| -3        | 13   | 7   | -6   |
| -4        | 9  | 2   | 8  |
| -5        | 3  | 0   | 1  |
| -6        | 0  | 4   | 2  |
| average   | 3  | 5   | -6   |
| s. d.     | 8  | 7   | 8  |

Table 2-6. Net accumulation in 36-stake farm at H68 in 1999-2001.

| Stake<br>No. | (cm in depth)                              |   |  |
|--------------|--|---|--|
|              | 10 Sep. 1999<br>18 May. 2000<br>(251 days) | 18 May. 2000<br>23 Aug. 2000<br>(97 days) | 23 Aug. 2000<br>27 Oct. 2001<br>(430 days) |
| I -1         | 4  | 0   | -2   |
| -2           | 2  | 13  | -1   |
| -3           | 7  | -9  | 9  |
| -4           | 2  | 1   | 4  |
| -5           | 1  | 1   | 16   |
| -6           | -1   | 19  | -10  |
| II -1        | -1   | -6  | 3  |
| -2           | 1  | 1   | 2  |
| -3           | -6   | 1   | 10   |
| -4           | 22   | 1   | -8   |
| -5           | -4   | 2   | 4  |
| -6           | 8  | -12                                       | -1   |
| III -1       | 6  | 2   | 8  |
| -2           | 5  | 8   | -7   |
| -3           | 15   | 1   | 17   |
| -4           | 13   | -3  | -1   |
| -5           | -4   | 5   | 8  |
| -6           | -19  | 0   | 11   |
| IV -1        | 12   | 3   | 12   |
| -2           | 23   | -8  | 7  |
| -3           | 8  | 7   | 3  |
| -4           | 16   | 0   | 5  |
| -5           | 18   | 0   | 13   |
| -6           | 6  | -7  | 18   |
| V -1         | 6  | 0   | 7  |
| -2           | 0  | 0   | -7   |
| -3           | 7  | -1  | -4   |
| -4           | 35   | -6  | -16  |
| -5           | 8  | -2  | 0  |
| -6           | 12   | 6   | -6   |
| VI -1        | 0  | 7   | 20   |
| -2           | 7  | 0   | 1  |
| -3           | 11   | -4  | -4   |
| -4           | 6  | 7   | -4   |
| -5           | -4   | 1   | 9  |
| -6           | 2  | -2  | -2   |
| average      | 6  | 1   | 3  |
| s.d.         | 10   | 6   | 8  |

Table 2-7. Net accumulation in 36-stake farm at H180 in 1999-2001.

| Stake No. | (cm in depth)                             |   |  |
|-----------|---|---|--|
|           | 9 Sep. 1999<br>17 May. 2000<br>(251 days) | 17 May. 2000<br>23 Aug. 2000<br>(98 days) | 23 Aug. 2000<br>27 Oct. 2001<br>(430 days) |
| I -1      | 18  | 8   | 32   |
| -2        | 7   | 7   | 33   |
| -3        | 13  | 1   | 30   |
| -4        | 4   | 5   | 33   |
| -5        | 18  | -1  | 23   |
| -6        | 16  | 6   | 27   |
| II -1     | 7   | 0   | 23   |
| -2        | 9   | 4   | 36   |
| -3        | 24  | 3   | 26   |
| -4        | 16  | -1  | 46   |
| -5        | 3   | 1   | 56   |
| -6        | 14  | 6   | 36   |
| III -1    | 19  | 2   | 43   |
| -2        | 6   | 14  | 40   |
| -3        | 18  | -3  | 43   |
| -4        | 21  | 0   | 44   |
| -5        | 21  | 3   | 43   |
| -6        | 20  | 5   | 35   |
| IV -1     | 25  | 10  | 17   |
| -2        | 12  | 8   | 28   |
| -3        | 3   | 9   | 37   |
| -4        | -4  | 2   | 52   |
| -5        | 14  | 0   | 48   |
| -6        | 19  | 1   | 43   |
| V -1      | 22  | 8   | 25   |
| -2        | 36  | 7   | 12   |
| -3        | 19  | 15  | 18   |
| -4        | 8   | 12  | 23   |
| -5        | 9   | 10  | 25   |
| -6        | 13  | -4  | 38   |
| VI -1     | 26  | 3   | 33   |
| -2        | 20  | 8   | 27   |
| -3        | 4   | 4   | 37   |
| -4        | 21  | -4  | 31   |
| -5        | 27  | 9   | 20   |
| -6        | 20  | 11  | 19   |
| average   | 15  | 5   | 33   |
| s.d.      | 8   | 5   | 10   |

Table 2-8. Net accumulation in 36-stake farm at S122 in 1999-2001.

| Stake<br>No. | (cm in depth)                             |  |  |
|--------------|---|--|--|
|              | 7 Sep. 1999<br>16 May. 2000<br>(252 days) | 16 May. 2000<br>26 Aug. 2000<br>(102 days) | 26 Aug. 2000<br>28 Oct. 2001<br>(428 days) |
| I -1         | -1  | 1  | 0  |
| -2           | 17  | 8  | -6   |
| -3           | 10  | 1  | 3  |
| -4           | 2   | 5  | 1  |
| -5           | 5   | 9  | 0  |
| -6           | -5  | 1  | 22   |
| II -1        | -2  | 14   | -9   |
| -2           | 19  | 0  | -5   |
| -3           | 36  | 0  | -3   |
| -4           | 14  | 9  | -2   |
| -5           | 24  | 0  | -8   |
| -6           | 4   | 1  | -4   |
| III -1       | -1  | 0  | -3   |
| -2           | 2   | 0  | -9   |
| -3           | 8   | 0  | -2   |
| -4           | 1   | 0  | -2   |
| -5           | 2   | 4  | 11   |
| -6           | 17  | 0  | 0  |
| IV -1        | 0   | 1  | 10   |
| -2           | 1   | 9  | 0  |
| -3           | 22  | 0  | -6   |
| -4           | 9   | 1  | 17   |
| -5           | 21  | 2  | 8  |
| -6           | 6   | 6  | -3   |
| V -1         | 11  | 0  | 15   |
| -2           | 11  | 1  | 6  |
| -3           | 1   | 6  | 14   |
| -4           | 9   | 14   | 1  |
| -5           | 11  | 0  | 1  |
| -6           | 7   | 1  | 13   |
| VI -1        | 8   | 0  | 4  |
| -2           | 4   | 0  | 12   |
| -3           | 3   | 1  | 4  |
| -4           | 1   | 5  | -2   |
| -5           | 9   | 0  | -2   |
| -6           | 1   | 5  | 19   |
| average      | 8   | 3  | 3  |
| s.d.         | 9   | 4  | 8  |

Table 2-9. Net accumulation in 36-stake farm at Z40 in 2000-2001.

| Stake No. | (cm in depth)                             |  |  |
|-----------|---|--|--|
|           | 1 Feb. 2000<br>15 May. 2000<br>(104 days) | 15 May. 2000<br>28 Aug. 2000<br>(105 days) | 28 Aug. 2000<br>29 Oct. 2001<br>(427 days) |
| I -1      | 3   | -1   | 5  |
| -2        | 0   | 1  | -5   |
| -3        | -1  | 1  | -6   |
| -4        | 1   | 1  | -7   |
| -5        | 5   | 5  | -3   |
| -6        | 11  | 0  | -7   |
| II -1     | 8   | 2  | -11  |
| -2        | 8   | 1  | -4   |
| -3        | 10  | 0  | -7   |
| -4        | -1  | 8  | -1   |
| -5        | 10  | 2  | -5   |
| -6        | 0   | 2  | -5   |
| III -1    | 0   | 5  | -6   |
| -2        | 19  | 1  | -15  |
| -3        | -1  | 1  | 0  |
| -4        | -2  | 1  | -4   |
| -5        | 3   | 7  | 2  |
| -6        | 0   | 0  | -5   |
| IV -1     | -1  | 1  | -5   |
| -2        | 3   | 0  | -7   |
| -3        | -1  | 1  | -5   |
| -4        | 0   | -1   | -4   |
| -5        | 1   | -2   | -3   |
| -6        | 14  | 1  | -9   |
| V -1      | 1   | 0  | -4   |
| -2        | 3   | 4  | -3   |
| -3        | -2  | 1  | -6   |
| -4        | -1  | 0  | 17   |
| -5        | 3   | 5  | 6  |
| -6        | -2  | 4  | 1  |
| VI -1     | 19  | -16  | 7  |
| -2        | 17  | -17  | -5   |
| -3        | -2  | 2  | -1   |
| -4        | 14  | 1  | -5   |
| -5        | 12  | 0  | -14  |
| -6        | 17  | 0  | -7   |
| average   | 5   | 1  | -4   |
| s.d.      | 7   | 5  | 6  |

Table 2-10. Net accumulation in 36-stake farm at Dome Fuji Station in 1999-2001.

| Stake<br>No. | (cm in depth)                             |   |
|--------------|---|---|
|              | 6 Dec. 1999<br>20 Jan. 2001<br>(411 days) | 20 Jan. 2001<br>8 Dec. 2001<br>(322 days) |
| I -1         | 1   | 5   |
| -2           | 7   | 2   |
| -3           | 4   | 5   |
| -4           | 2   | 3   |
| -5           | 6   | 9   |
| -6           | 5   | 13  |
| II -1        | 9   | 8   |
| -2           | 5   | 11  |
| -3           | 7   | 2   |
| -4           | 15  | 0   |
| -5           | 9   | 10  |
| -6           | 14  | 6   |
| III -1       | 10  | 0   |
| -2           | 8   | 5   |
| -3           | 5   | 8   |
| -4           | 3   | 12  |
| -5           | 2   | 8   |
| -6           | -1  | 0   |
| IV -1        | 10  | 1   |
| -2           | -4  | 8   |
| -3           | 8   | 2   |
| -4           | 5   | 5   |
| -5           | 4   | 16  |
| -6           | 11  | 10  |
| V -1         | 9   | 4   |
| -2           | 0   | 6   |
| -3           | 5   | 5   |
| -4           | -1  | 13  |
| -5           | 10  | 1   |
| -6           | 11  | 1   |
| VI -1        | 8   | 7   |
| -2           | 5   | 3   |
| -3           | 8   | 1   |
| -4           | 14  | 8   |
| -5           | 8   | 4   |
| -6           | 3   | 5   |
| average      | 6   | 6   |
| s.d.         | 4   | 4   |

Table 2-11. Net accumulation along 50-stake row at MD180 in 1999-2001.

| Stake<br>No. | (cm in depth)                             |   |  |
|--------------|---|---|--|
|              | 24 Dec. 1999<br>6 Sep. 2000<br>(257 days) | 6 Sep. 2000<br>15 Sep. 2001<br>(374 days) | 15 Sep. 2001<br>3 Nov. 2001<br>(49 days) |
| 1            | -1  | -2  | 0  |
| 2            | -1  | -2  | 1  |
| 3            | -1  | -3  | 1  |
| 4            | -1  | -1  | 0  |
| 5            | -3  | -2  | 0  |
| 6            | 0   | -2  | 0  |
| 7            | 1   | -4  | 0  |
| 8            | -3  | -2  | 1  |
| 9            | -4  | -1  | 0  |
| 10           | 1   | -2  | 0  |
| 11           | 3   | -5  | 0  |
| 12           | -2  | 0   | 0  |
| 13           | -1  | -2  | 0  |
| 14           | -3  | -1  | 1  |
| 15           | -3  | 0   | 0  |
| 16           | -2  | -4  | 4  |
| 17           | -1  | -4  | 2  |
| 18           | -1  | -2  | 1  |
| 19           | 0   | -1  | 0  |
| 20           | -3  | -1  | 1  |
| 21           | -4  | -4  | 2  |
| 22           | -2  | -2  | 1  |
| 23           | -2  | -1  | 0  |
| 24           | -2  | -1  | 0  |
| 25           | -1  | -1  | -1                                       |
| 26           | -2  | -2  | 1  |
| 27           | -6  | -2  | 2  |
| 28           | 8   | -10                                       | -1                                       |
| 29           | -3  | -1  | 1  |
| 30           | 0   | -2  | 0  |
| 31           | -3  | 1   | 1  |
| 32           | -3  | -3  | 2  |
| 33           | -2  | -3  | 0  |
| 34           | -2  | -1  | 0  |
| 35           | -1  | -3  | 1  |
| 36           | -4  | -1  | -1                                       |
| 37           | -3  | -2  | 2  |
| 38           | 0   | -3  | 2  |
| 39           | -5  | -4  | 4  |
| 40           | -5  | -1  | 0  |
| 41           | -1  | -3  | 1  |
| 42           | -2  | -2  | 0  |
| 43           | -1  | -2  | 0  |
| 44           | -3  | 1   | -2                                       |
| 45           | -2  | -1  | 1  |
| 46           | -2  | -1  | 1  |
| 47           | -4  | -10                                       | 12                                       |
| 48           | -6  | 0   | 1  |
| 49           | 7   | -11                                       | 10                                       |
| 50           | 1   | -2  | 1  |
| average      | -2  | -2  | 1  |
| s.d.         | 3   | 2   | 2  |

Table 2-12. Net accumulation along 50-stake row at MD364 in 1999-2001.

| Stake No. | (cm in depth)                             |  |   |
|-----------|---|--|---|
|           | 20 Dec. 1999<br>9 Sep. 2000<br>(264 days) | 9 Sep. 2000<br>9 Sep. 2001<br>(365 days) | 9 Sep. 2001<br>8 Nov. 2001<br>(60 days) |
| 1         | 2   | 10                                       | 0                                       |
| 2         | 8   | 0  | -1                                      |
| 3         | -1  | 4  | 0                                       |
| 4         | -1  | 3  | -1                                      |
| 5         | -2  | 6  | 0                                       |
| 6         | -6  | -2                                       | 0                                       |
| 7         | -1  | 0  | -1                                      |
| 8         | 0   | -2                                       | 0                                       |
| 9         | 1   | 1  | 0                                       |
| 10        | 0   | -1                                       | -1                                      |
| 11        | 1   | -2                                       | 1                                       |
| 12        | 0   | 6  | 0                                       |
| 13        | 11  | 3  | 0                                       |
| 14        | 4   | 4  | -2                                      |
| 15        | -1  | -2                                       | 0                                       |
| 16        | 7   | -6                                       | 1                                       |
| 17        | 3   | -2                                       | -1                                      |
| 18        | 1   | 14                                       | -1                                      |
| 19        | 23  | 2  | 0                                       |
| 20        | 1   | 20                                       | 0                                       |
| 21        | -2  | 5  | 0                                       |
| 22        | 13  | 15                                       | 0                                       |
| 23        | 24  | 2  | 0                                       |
| 24        | 2   | 21                                       | 1                                       |
| 25        | 17  | 27                                       | 1                                       |
| 26        | 17  | 23                                       | 0                                       |
| 27        | 15  | 19                                       | 1                                       |
| 28        | 5   | 23                                       | 0                                       |
| 29        | -4  | 9  | -1                                      |
| 30        | -2  | -4                                       | 0                                       |
| 31        | -1  | -3                                       | 0                                       |
| 32        | 1   | -2                                       | 0                                       |
| 33        | 0   | -2                                       | -1                                      |
| 34        | -2  | -2                                       | 0                                       |
| 35        | -4  | -4                                       | 0                                       |
| 36        | -4  | -3                                       | 1                                       |
| 37        | -1  | -3                                       | 0                                       |
| 38        | -1  | -2                                       | 0                                       |
| 39        | 7   | -2                                       | 0                                       |
| 40        | 0   | 6  | -1                                      |
| 41        | 1   | 5  | 0                                       |
| 42        | 16  | -10                                      | 0                                       |
| 43        | -1  | 17                                       | -1                                      |
| 44        | 9   | 15                                       | 0                                       |
| 45        | 11  | 12                                       | 0                                       |
| 46        | 0   | 4  | 0                                       |
| 47        | 12  | 1  | 0                                       |
| 48        | 3   | 2  | -1                                      |
| 49        | 0   | -1                                       | 0                                       |
| 50        | 0   | 0  | 0                                       |
| average   | 4   | 4  | 0                                       |
| s.d.      | 7   | 9  | 1                                       |

Table 2-13. Net accumulation along 50-stake row at MD560 in 1999-2001.

| Stake<br>No. | (cm in depth)                              |  |
|--------------|--|--|
|              | 14 Dec. 1999<br>15 Jan. 2001<br>(398 days) | 15 Jan. 2001<br>11 Nov. 2001<br>(300 days) |
| 1            | 2  | 5  |
| 2            | 0  | 22   |
| 3            | 5  | 17   |
| 4            | 7  | 8  |
| 5            | 14   | 10   |
| 6            | 9  | 16   |
| 7            | 10   | 7  |
| 8            | 22   | 4  |
| 9            | 11   | 18   |
| 10           | 16   | 1  |
| 11           | 17   | 1  |
| 12           | 0  | 2  |
| 13           | 9  | 0  |
| 14           | -3   | 0  |
| 15           | 4  | 2  |
| 16           | 2  | 3  |
| 17           | 0  | 3  |
| 18           | 2  | 9  |
| 19           | 10   | 3  |
| 20           | 8  | 1  |
| 21           | 11   | 3  |
| 22           | 16   | 6  |
| 23           | 31   | 0  |
| 24           | 27   | 0  |
| 25           | 11   | 1  |
| 26           | 8  | 2  |
| 27           | -1   | 2  |
| 28           | 13   | 0  |
| 29           | 9  | -1   |
| 30           | 13   | 0  |
| 31           | 19   | 1  |
| 32           | 24   | 0  |
| 33           | 14   | 3  |
| 34           | 16   | 0  |
| 35           | 2  | 9  |
| 36           | 3  | 14   |
| 37           | -1   | 6  |
| 38           | 2  | 19   |
| 39           | -1   | 21   |
| 40           | -3   | 10   |
| 41           | 9  | 1  |
| 42           | 2  | 3  |
| 43           | 0  | 11   |
| 44           | -4   | 7  |
| 45           | -3   | 1  |
| 46           | -4   | 2  |
| 47           | -2   | 14   |
| 48           | -2   | 18   |
| 49           | 4  | 10   |
| 50           | 8  | 3  |
| average      | 7  | 6  |
| s.d.         | 8  | 6  |

Table 2-14. Net accumulation along 50-stake row at DF80 in 1997-2001.

| Stake<br>No. | (cm in depth)                              |  |
|--------------|--|--|
|              | 1 Nov. 1997<br>19 Jan. 2001<br>(1175 days) | 19 Jan. 2001<br>20 Dec. 2001<br>(335 days) |
| 1            | 23   | 12   |
| 2            | 28   | 7  |
| 3            | 27   | 2  |
| 4            | 31   | 4  |
| 5            | 26   | 5  |
| 6            | 25   | 4  |
| 7            | 23   | 6  |
| 8            | 23   | 11   |
| 9            | 24   | 9  |
| 10           | 25   | 9  |
| 11           | 25   | 14   |
| 12           | 25   | 11   |
| 13           | 28   | 5  |
| 14           | 31   | 3  |
| 15           | 33   | 0  |
| 16           | 26   | 6  |
| 17           | 17   | 4  |
| 18           | 17   | 8  |
| 19           | 22   | 7  |
| 20           | 27   | 6  |
| 21           | 27   | 10   |
| 22           | 31   | 5  |
| 23           | 30   | 7  |
| 24           | 18   | 9  |
| 25           | 22   | 4  |
| 26           | 28   | 1  |
| 27           | 36   | 2  |
| 28           | 38   | 0  |
| 29           | 28   | 3  |
| 30           | 18   | 11   |
| 31           | 26   | 5  |
| 32           | 28   | 5  |
| 33           | 22   | 4  |
| 34           | 17   | 1  |
| 35           | 17   | 3  |
| 36           | 16   | 3  |
| 37           | 18   | 8  |
| 38           | 22   | 9  |
| 39           | 27   | 8  |
| 40           | 28   | 9  |
| 41           | 22   | 6  |
| 42           | 15   | 11   |
| 43           | 11   | 17   |
| 44           | 21   | 10   |
| 45           | 21   | 8  |
| 46           | 25   | 3  |
| 47           | 18   | 6  |
| 48           | 12   | 7  |
| 49           | 22   | 3  |
| 50           | 28   | 3  |
| average      | 24   | 6  |
| s.d.         | 6  | 4  |

Table 2-15. Net accumulation along 101-stake row at Mizuho Station in 2000-2001.

| Stake<br>No. | (cm in depth)              |                            |                           |                            |                           |
|--------------|----------------------------|----------------------------|---------------------------|----------------------------|---------------------------|
|              | 31 Jan. 2000               | 13 May. 2000               | 29 Aug. 2000              | 16 Nov. 2000               | 18 Sep. 2001              |
|              | 13 May. 2000<br>(103 days) | 29 Aug. 2000<br>(108 days) | 16 Nov. 2000<br>(79 days) | 18 Sep. 2001<br>(306 days) | 30 Oct. 2001<br>(42 days) |
| 102          | -2                         | 2                          | 0                         | -3                         | 3                         |
| 103          | -3                         | 0                          | 9                         | -3                         | 0                         |
| 104          | -2                         | 1                          | 9                         | 4                          | 0                         |
| 105          | -2                         | 0                          | 5                         | -4                         | 0                         |
| 106          | -2                         | 1                          | 7                         | -8                         | 7                         |
| 107          | 7                          | -1                         | 4                         | -5                         | 5                         |
| 108          | 6                          | 0                          | 0                         | 3                          | -2                        |
| 109          | 1                          | 1                          | 0                         | 11                         | -1                        |
| 110          | 1                          | -1                         | 5                         | 7                          | -1                        |
| 111          | 13                         | 2                          | 3                         | -5                         | 1                         |
| 112          | 9                          | 0                          | 2                         | 4                          | -1                        |
| 113          | 17                         | 0                          | 3                         | 11                         | -9                        |
| 114          | 14                         | 0                          | 0                         | 5                          | 0                         |
| 115          | 11                         | 1                          | -1                        | 2                          | -1                        |
| 116          | 9                          | 0                          | 9                         | -6                         | 0                         |
| 117          | 12                         | -10                        | 13                        | -6                         | -1                        |
| 118          | -2                         | -1                         | 10                        | -6                         | 0                         |
| 119          | 2                          | 1                          | 5                         | -8                         | 0                         |
| 120          | 29                         | 1                          | -2                        | -23                        | 2                         |
| 121          | 32                         | -1                         | -1                        | -14                        | 1                         |
| 122          | -2                         | 4                          | -3                        | 3                          | -1                        |
| 123          | -1                         | 1                          | -1                        | 2                          | 0                         |
| 124          | 0                          | 0                          | -1                        | -4                         | 0                         |
| 125          | -1                         | 2                          | 1                         | -6                         | -1                        |
| 126          | 3                          | 0                          | 0                         | -7                         | 0                         |
| 127          | -2                         | 0                          | 1                         | 2                          | 0                         |
| 128          | -1                         | 0                          | 0                         | 6                          | 0                         |
| 129          | -2                         | 1                          | 0                         | 3                          | 0                         |
| 130          | -2                         | 1                          | -1                        | 3                          | -1                        |
| 131          | -2                         | 0                          | 0                         | 1                          | 0                         |
| 132          | -9                         | 9                          | -1                        | 3                          | -1                        |
| 133          | -5                         | 6                          | -2                        | 3                          | -1                        |
| 134          | -1                         | 0                          | 0                         | -2                         | 0                         |
| 135          | -1                         | 1                          | 0                         | -2                         | 0                         |
| 136          | -2                         | -9                         | 9                         | -4                         | 0                         |
| 137          | -2                         | -1                         | 1                         | -6                         | 0                         |
| 138          | 6                          | 10                         | -9                        | -2                         | 0                         |
| 139          | -1                         | 2                          | 0                         | -3                         | 0                         |
| 140          | 3                          | 1                          | -1                        | -5                         | 0                         |
| 141          | 1                          | 0                          | 0                         | -4                         | 0                         |
| 142          | -1                         | 1                          | 0                         | -3                         | -1                        |
| 143          | -1                         | 2                          | -2                        | -7                         | 1                         |
| 144          | -1                         | 0                          | 0                         | -4                         | 3                         |
| 145          | 0                          | 1                          | -1                        | -2                         | 0                         |
| 146          | 0                          | 1                          | -1                        | -3                         | -1                        |
| 147          | 0                          | 0                          | 1                         | -3                         | 0                         |
| 148          | 0                          | 2                          | -1                        | -4                         | 0                         |
| 149          | 0                          | 3                          | 0                         | -5                         | 0                         |
| 150          | 5                          | 2                          | 0                         | -4                         | 0                         |
| 151          | 14                         | 0                          | 0                         | -3                         | 0                         |
| 51           | 9                          | -1                         | 0                         | -3                         | 0                         |
| 152          | -3                         | 11                         | -1                        | -3                         | 0                         |

| Stake<br>No. | (cm in depth)              |                            |                           |                            |                           |
|--------------|----------------------------|----------------------------|---------------------------|----------------------------|---------------------------|
|              | 31 Jan. 2000               | 13 May. 2000               | 29 Aug. 2000              | 16 Nov. 2000               | 18 Sep. 2001              |
|              | 13 May. 2000<br>(103 days) | 29 Aug. 2000<br>(108 days) | 16 Nov. 2000<br>(79 days) | 18 Sep. 2001<br>(306 days) | 30 Oct. 2001<br>(42 days) |
| 153          | 1                          | 2                          | -1                        | -3                         | 0                         |
| 154          | 3                          | 1                          | -1                        | 2                          | 0                         |
| 155          | 1                          | 1                          | 4                         | 3                          | 0                         |
| 156          | -3                         | 0                          | 9                         | -3                         | 0                         |
| 157          | -2                         | 1                          | 7                         | -1                         | 0                         |
| 158          | -3                         | 1                          | 7                         | 3                          | 0                         |
| 159          | 0                          | 1                          | 14                        | 2                          | -3                        |
| 160          | 0                          | 0                          | 16                        | -3                         | -2                        |
| 161          | 9                          | 1                          | 0                         | 0                          | 0                         |
| 162          | 5                          | 1                          | 3                         | -6                         | 1                         |
| 163          | 5                          | -1                         | 1                         | -3                         | 3                         |
| 164          | 7                          | 0                          | 0                         | -5                         | 2                         |
| 165          | 5                          | 1                          | 0                         | -3                         | 0                         |
| 166          | 9                          | 1                          | -1                        | -2                         | -1                        |
| 167          | 2                          | -1                         | 1                         | -5                         | 0                         |
| 168          | -1                         | -1                         | 0                         | -4                         | -1                        |
| 169          | 2                          | 1                          | -1                        | -7                         | 0                         |
| 170          | 16                         | -3                         | 0                         | -8                         | -1                        |
| 171          | 1                          | 0                          | 0                         | -4                         | 0                         |
| 172          | 2                          | 0                          | 1                         | -3                         | 1                         |
| 173          | 2                          | 0                          | 6                         | -10                        | 0                         |
| 174          | 1                          | 1                          | 4                         | -7                         | -1                        |
| 175          | 3                          | 1                          | 5                         | -11                        | 0                         |
| 176          | 6                          | 0                          | 0                         | -4                         | 0                         |
| 177          | 7                          | 0                          | -1                        | -3                         | 0                         |
| 178          | 11                         | -2                         | 2                         | -2                         | -1                        |
| 179          | 18                         | 1                          | 0                         | -4                         | -1                        |
| 180          | 16                         | 0                          | 3                         | -6                         | 0                         |
| 181          | 17                         | 0                          | 5                         | -8                         | 0                         |
| 182          | 19                         | 1                          | -1                        | -6                         | 0                         |
| 183          | 14                         | 2                          | -1                        | -3                         | -1                        |
| 184          | 11                         | 2                          | -2                        | -2                         | 0                         |
| 185          | 19                         | 1                          | 0                         | -3                         | 0                         |
| 186          | 17                         | -1                         | 1                         | -3                         | 0                         |
| 187          | 16                         | 1                          | -1                        | -4                         | 0                         |
| 188          | 14                         | -1                         | 1                         | -5                         | 0                         |
| 189          | 9                          | 1                          | 0                         | 2                          | -5                        |
| 190          | 3                          | 2                          | 0                         | 11                         | -6                        |
| 191          | 7                          | 0                          | 1                         | 4                          | -1                        |
| 192          | 1                          | -1                         | 0                         | 7                          | -1                        |
| 193          | -1                         | 0                          | 0                         | 8                          | -2                        |
| 194          | 0                          | 0                          | 0                         | 2                          | 0                         |
| 195          | 0                          | 0                          | 1                         | 0                          | 0                         |
| 196          | 3                          | 0                          | 0                         | -4                         | 0                         |
| 197          | 8                          | 1                          | -1                        | -6                         | 0                         |
| 198          | 12                         | 2                          | -1                        | -8                         | 0                         |
| 199          | 9                          | -2                         | -1                        | 0                          | 0                         |
| 200          | 4                          | 2                          | -1                        | 0                          | 0                         |
| 201          | 0                          | 0                          | 0                         | 3                          | -1                        |
| average      | 5                          | 1                          | 1                         | -2                         | 0                         |
| s.d.         | 7                          | 2                          | 4                         | 5                          | 2                         |

### 3. Surface meteorological data during oversnow traverses

|                              |                                 |
|------------------------------|---------------------------------|
| Observers: Junya Yamashita : | Traverse 1                      |
| Haruya Shiba:                | Traverses 2-a and 2-b           |
| Nobuaki Shigeno:             | Traverse 2-c                    |
| Kanji Yamaguchi:             | Traverse 3-a and Mizuho Station |
| Juhei Sugaya:                | Traverse 3-b                    |
| Akihisa Yotsuya:             | Traverse 4                      |
| Kazuhiro Tsuboi:             | Traverse 5                      |
| Yuki Kato:                   | Traverse 6                      |

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), hydrometeors (Hydro), cloud amount in tenths (N) and individual cloud amount and genus (CL). The instruments and accuracy of the measurements are given in Table 3-1. The notation used in this section is shown in Table 3-2.

Tables 3-3, 3-4, 3-5, 3-6 3-7 and 3-8 show meteorological data observed during traverses 1, 2, 3, 4, 5 and 6, respectively. The meteorological data during traverses between S16 and Dome Fuji have been published in Motoyama *et al.* (1995, 1999), Shiraiwa *et al.* (1996), Azuma *et al.* (1997), Fujita *et al.* (1998) and Furukawa *et al.* (2002).

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Table 3-1. Instruments and accuracy of meteorological observations.

| Item             | Instruments                          | Accuracy        |
|------------------|--------------------------------------|-----------------|
| Air pressure     | Aneroid gauge (over 730 hPa)         | $\pm 1$ hPa     |
|                  | Wrist watch type (under 730 hPa)     | $\pm 1$ hPa     |
|                  | Vibrating cylinder type (Traverse 6) | $\pm 0.2$ hPa   |
| Air temperature  | Sling type glass thermometer         | $\pm 0.5$ °C    |
| Wind direction   | Magnetic compass                     | $\pm 5$ degrees |
| Wind speed       | Portable 3-cup anemometer            | $\pm 0.5$ m/s   |
| Weather          | Visual observation                   |                 |
| Visibility       | Visual observation                   |                 |
| Cloud amount     | Visual observation                   |                 |
| Individual cloud | Visual observation                   |                 |

Table 3-2. Notation used in tables in this section.

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

Pa: Air pressure in hPa

Ta: Air temperature in degree C

WD: Wind direction

WS: Wind speed in m/s

W: Weather

○ Clear, ① Fine, ② Cloudy (upper level clouds were predominant), ◎ cloudy,

✕ Snow, ⇄ Blowing snow, ⇄ Drifting snow, \*⇄ Snow storm,

↔ Diamond dust, ≡ Fog, ≡≡ Low fog

Hydro: Hydrometeors

V: Visibility in km

N: Cloud amount in tenths

CL: Individual cloud amount and genus

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Table 3-3. Meteorological data observed during the traverse between S16 and Mizuho Station (6-May-2000 to 18-May-2000).

| Date      | LT    | Station | Pa  | Ta    | W  | WD  | WS | V   | N   | CL      |
|-----------|-------|---------|-----|-------|----|-----|----|-----|-----|---------|
| 6-May-00  | 17:40 | H70     | 832 | -24.5 | ↓  | ENE | 10 | 20  | 3   | 3Ci     |
| 7-May-00  | 17:30 | H160    | 809 | -26.0 | ×  | ENE | 3  | 3   | 10  | 10As    |
| 8-May-00  | 17:05 | H260    | 773 | -24.7 | *↑ | ENE | 14 | 0.1 | X   | X       |
| 9-May-00  | 17:35 | Z20     | 746 | -29.0 | ⊕  | E   | 7  | 10  | 10- | 10-Ci   |
| 10-May-00 | 18:00 | Z84'    | 730 | -41.6 | ↑  | E   | 9  | 0.2 | 0   |         |
| 11-May-00 | 16:00 | Z103'   | 724 | -42.4 | ↑  | E   | 14 | 0.1 | 1   | 1Ci     |
| 12-May-00 | 18:50 | Z103'   | 730 | -44.6 | ↑  | E   | 12 | 0.2 | 10- | 10-Ci   |
| 13-May-00 | 16:30 | Mizuho  | 721 | -45.5 | ↑  | E   | 13 | 0.2 | 0   |         |
| 14-May-00 | 17:20 | Mizuho  | 721 | -47.8 | ↑  | E   | 13 | 0.1 | 0   |         |
| 15-May-00 | 08:05 | Mizuho  | 722 | -50.1 | ↑  | E   | 11 | 0.2 | 0   |         |
| 15-May-00 | 20:00 | Z26     | 740 | -45.5 | ↑  | E   | 10 | 0.2 | 0   |         |
| 16-May-00 | 17:25 | H236    | 771 | -37.2 | ↑  | E   | 6  | 5   | 0   |         |
| 17-May-00 | 16:05 | H136    | 802 | -28.5 | *↑ | E   | 17 | 0.1 | X   | X       |
| 18-May-00 | 17:35 | H28     | 832 | -32.6 | ⊕  | ENE | 4  | 30  | 6   | 3Ac,6Ci |

Table 3-4. Meteorological data observed during the traverse between S16 (Tottuki) and MD364 (21-Aug-2000 to 29-Sep-2000).

| Date      | LT    | Station | Pa | Ta    | W | Hydro. | WD   | WS    | V       | N  | CL            |
|-----------|-------|---------|----|-------|---|--------|------|-------|---------|----|---------------|
| 21-Aug-00 | 17:00 | Tottuki |    | -23   | ☉ |        | calm |       | 30      | 2  | 1As, 1St      |
| 22-Aug-00 | 07:15 | Tottuki |    | -25.5 | ① |        | NE   | 5-6   |         |    | no data       |
| 22-Aug-00 | 18:20 | H9      |    | -25.5 | ↗ |        | SSE  | 8-10  |         | 10 | no data       |
| 23-Aug-00 | 07:00 | H9      |    | -22.5 | ↗ |        | SSE  | 8-11  |         | 10 | no data       |
| 23-Aug-00 | 18:00 | H124    |    | -21.5 | ↗ |        | NE   | 6-7   | 0.1-0.6 | 2  | 1As, 1St      |
| 24-Aug-00 | 07:00 | H124    |    | -35.5 | ① |        | ESE  | 4     | 30      | 4  | 1Sc, 1As, 2Cs |
| 24-Aug-00 | 18:30 | H224    |    | -38   | ① |        | ESE  | 4     | 30      | 4  | 2Cs, 2As      |
| 25-Aug-00 | 07:00 | H224    |    | -36.5 | ↗ |        | ESE  | 9-11  | 0.2     | 2  | 2As, 1Cs      |
| 25-Aug-00 | 18:00 | H272    |    | -40   | ↗ |        | ESE  | 8-9   | 0.2     | 10 | 1Cs, 10-Ci    |
| 26-Aug-00 | 07:00 | H272    |    | -31.5 | ↗ |        | ENE  | 9-11  |         |    | no data       |
| 26-Aug-00 | 19:00 | Z22     |    | -29   | ↗ |        | E    | 13-15 | 0.1     |    | no data       |
| 27-Aug-00 | 07:00 | Z22     |    | -28.5 | ↗ |        | E    | 14-17 | 0.05    |    | no data       |
| 27-Aug-00 | 18:00 | Z22     |    | -27.5 | ↗ |        | ESE  | 15-18 | 0.05    | 7  | no data       |
| 28-Aug-00 | 06:40 | Z22     |    | -31.5 | ↗ |        | E    | 12-14 | 0.4     | 2  | 2As           |
| 28-Aug-00 | 18:10 | Z86     |    | -36.5 | ① | ↗      | E    | 10-12 | 0.5     | 1  | no data       |
| 29-Aug-00 | 07:00 | Z86     |    | -39.5 | ○ | ↗      | E    | 11-13 | 0.3     | 2  | no data       |
| 29-Aug-00 | 17:30 | Mizuho  |    | -40.5 | ① | ↗      | ESE  | 13-17 | 0.2     |    | no data       |
| 30-Aug-00 | 07:00 | Mizuho  |    | -38.5 | ↗ |        | ESE  | 12-14 |         |    | no data       |
| 30-Aug-00 | 18:30 | Mizuho  |    | -35   | ↗ |        | ESE  | 11-15 | 0.1     |    | no data       |
| 31-Aug-00 | 07:00 | Mizuho  |    | -34   | ↗ |        | ESE  | 11-15 | 0.2     |    | no data       |
| 31-Aug-00 | 18:00 | Mizuho  |    | -32   | ↗ |        | ESE  | 12-15 | 0.2     |    | no data       |
| 01-Sep-00 | 06:50 | Mizuho  |    | -34   | ① | ↗      | E    | 9-14  | 0.2     |    | no data       |
| 01-Sep-00 | 18:20 | MD30    |    | -38.5 | ↓ | ↗      | E    | 8-9   | 0.5     |    | no data       |
| 02-Sep-00 | 06:40 | MD30    |    | -41   | ↓ | ↗      | ESE  | 9-12  | 0.2     |    | no data       |
| 02-Sep-00 | 19:00 | MD60    |    | -44.5 | ↓ | ↗      | ESE  | 8-11  | 0.6     |    | no data       |
| 03-Sep-00 | 06:20 | MD60    |    | -48   | ↗ |        | SE   | 9-11  | 0.1     |    | no data       |
| 03-Sep-00 | 19:20 | MD108   |    | -54.3 | ↗ |        | ESE  | 10-13 | 0.1     |    | no data       |
| 04-Sep-00 | 06:40 | MD108   |    | -51.5 | ↗ |        | SE   | 6-10  | 0.1     |    | no data       |
| 04-Sep-00 | 19:20 | MD138   |    | -50   | ↗ |        | SE   | 9-11  | 0.1     |    | no data       |
| 05-Sep-00 | 06:20 | MD138   |    | -49.1 | ≡ |        | SE   | 3-4   | 0.3     |    | no data       |
| 05-Sep-00 | 19:10 | MD170   |    | -46.5 |   |        | SE   | 5-6   |         | 0  |               |
| 06-Sep-00 | 06:20 | MD176   |    | -46.5 | ↗ |        | SE   | 6-10  | 0.3     |    | no data       |
| 06-Sep-00 | 19:25 | MD232   |    | -49   | ↗ |        | ESE  | 6-8   | 0.1     | 7  | 7Ci           |
| 07-Sep-00 | 06:25 | MD232   |    | -44.6 | ↗ |        | ESE  | 5-8   | 1       |    | no data       |
| 07-Sep-00 | 19:20 | MD294   |    | -50.5 |   |        | ESE  | 8-10  |         |    | no data       |
| 08-Sep-00 | 06:25 | MD294   |    | -49   | ≡ |        | SE   | 5-7   | 0.1     | 4  | 2Ci, 2Cs      |
| 08-Sep-00 | 19:00 | MD362   |    | -54.7 | ① |        | SE   | 3-5   | 0.2     | 10 | 1Cc, 2Ci, 7Cs |
| 09-Sep-00 | 08:10 | MD362   |    | -51.4 | ② |        | ESE  | 2-3   | 0.3     | 10 | 2Cc, 5Ci, 3Ac |
| 09-Sep-00 | 15:00 | MD362   |    | -51.4 | ① |        | SE   | 2-4   | 1-5     | 4  | 4Ci           |
| 10-Sep-00 | 06:55 | MD362   |    | -59.2 | ① | ≡      | SE   | < 2   | 0.4     | 4  | 4Cs           |
| 10-Sep-00 | 17:10 | MD362   |    | -54.7 | ① | ≡      | ESE  | 4     | 0.4     | 10 | 10Cs          |
| 11-Sep-00 | 07:00 | MD362   |    | -53.3 | ① | ≡      | SE   | 3-4   | 0.4     | 1  | 1Cs           |
| 11-Sep-00 | 18:00 | MD362   |    | -53.4 | ① | ≡      | E    | 4-6   | 0.5     | 10 | 10Cs          |
| 12-Sep-00 | 07:00 | MD362   |    | -53.1 | ② | ≡      | SE   | 3     | 0.4     | 3  | 3Cs           |
| 12-Sep-00 | 17:30 | MD296   |    | -50.3 | ① |        | SE   | 6-8   | 2       | 10 | 8Cs, 2Ci      |
| 13-Sep-00 | 06:45 | MD296   |    | -52.5 | ① | ≡      | SE   | 2-3   | 0.2     |    | no data       |
| 13-Sep-00 | 19:15 | MD240   |    | -46   | ↗ |        | SE   | 10-14 | 0.1     |    | no data       |
| 14-Sep-00 | 06:50 | MD240   |    | -51.9 | ↗ |        | SE   | 5-8   | 0.1     |    | no data       |
| 14-Sep-00 | 19:00 | MD184   |    | -49.4 | ↗ |        | SE   | 10-14 | < 0.05  |    | no data       |
| 15-Sep-00 | 06:55 | MD184   |    | -47   | ↗ |        | ESE  | 11-15 | 0.05    | 2  | 2Ci           |
| 15-Sep-00 | 17:00 | MD184   |    | -43.7 | ↗ |        | ESE  | 9-11  | 0.1     |    | no data       |

| Date      | LT    | Station | Pa  | Ta    | W | Hydro. | WD  | WS    | V      | N   | CL                    |
|-----------|-------|---------|-----|-------|---|--------|-----|-------|--------|-----|-----------------------|
| 16-Sep-00 | 07:00 | MD184   |     | -45.7 | ↑ |        | E   | 9-14  | 0.05   |     | no data               |
| 16-Sep-00 | 19:10 | MD184   |     | -45.9 | ↑ |        | ESE | 9-12  | < 0.05 |     | no data               |
| 17-Sep-00 | 05:50 | MD184   |     | -47.8 | ⊕ | ≡      | ESE | 5-7   | 0.2    | 1   | 1Cs                   |
| 17-Sep-00 | 19:10 | MD120   |     | -46.3 | ⊕ | ≡      | ESE | 6-8   | 0.4    | 3   | 3Ci                   |
| 18-Sep-00 | 06:00 | MD120   |     | -51   | ⊕ | ≡      | ESE | 2-5   | 0.4    | 0+  | 0+Cs                  |
| 18-Sep-00 | 19:20 | MD48    |     | -47.8 | ○ |        | ESE | 8-10  | 2      | 0+  | 0+Cs                  |
| 19-Sep-00 | 05:55 | MD48    |     | -50   | ↓ |        | ESE | 7-10  | 0.4    |     | no data               |
| 19-Sep-00 | 18:30 | Mizuho  |     | -44.8 | ↓ |        | E   | 8-12  | 2      | 0   |                       |
| 20-Sep-00 | 07:00 | Mizuho  |     | -46.9 | ↑ |        | E   | 7-13  | 0.2    | 10- | 10Ci                  |
| 20-Sep-00 | 18:00 | Mizuho  | 720 | -42   | ↑ |        | E   | 10    | 0.3    | 6   | 0+Ac, 6Ci             |
| 21-Sep-00 | 07:30 | Mizuho  | 732 | -39.4 | ↑ |        | E   | 10    | 0.5    | 10- | 2Ac, 10-Ci            |
| 21-Sep-00 | 18:00 | Mizuho  | 736 | -34.5 | ↑ |        | E   | 8     | 5      | 10  | 10Sc                  |
| 22-Sep-00 | 07:30 | Mizuho  | 743 | -36.6 | ⊙ |        | E   | 6     | 10     | 10- | 3Ac, 10-Ci            |
| 22-Sep-00 | 18:00 | Mizuho  | 745 | -35.6 | ⊕ |        | E   | 6     | 10     | 1   | 0+Ac, 1Ci             |
| 23-Sep-00 | 07:30 | Mizuho  | 739 | -40.5 | ○ |        | E   | 3     | 30     | 0+  | 0+Ac                  |
| 23-Sep-00 | 18:00 | Mizuho  | 736 | -44.1 | ○ |        | ESE | 9     | 10     | 1   | 1Ci                   |
| 24-Sep-00 | 07:30 | Mizuho  | 735 | -48.7 | ○ |        | ESE | 9     | 10     | 0+  | 0+Ci                  |
| 24-Sep-00 | 18:00 | Mizuho  | 732 | -46.4 | ○ |        | E   | 8     | 10     | 0+  | 0+Ci                  |
| 25-Sep-00 | 07:00 | Mizuho  | 734 | -51.6 | ○ |        | ESE | 7-10  | 5      | 0+  | 0+Ci                  |
| 25-Sep-00 | 18:20 | Z12     | 764 | -38.5 | ↑ |        | E   | 10-12 | 0.5    | 2   | 2Ci                   |
| 26-Sep-00 | 06:20 | Z12     | 764 | -37.5 | ↑ |        | E   | 15-18 | < 0.1  | 2   | 2Ci                   |
| 26-Sep-00 | 18:00 | H272    | 780 | -30.6 | ↑ |        | ESE | 19-25 | 0.5    | 2   | 2Ci, 0+Ac             |
| 27-Sep-00 | 06:30 | H272    | 783 | -31.2 | ↓ |        | E   | 19-24 | 5      | 6   | 6Ci                   |
| 27-Sep-00 | 19:10 | H76     | 774 | -27.5 | ⊕ |        | E   | 11-17 | 5      | 3   | 3Ci, 0+Ac             |
| 28-Sep-00 | 06:20 | H76     | 830 | -29.4 | ⊙ |        | E   | 1-5   | 10     | 10- | 1Ci, 10-Ac            |
| 28-Sep-00 | 18:40 | Tottuki | 828 | -17.4 | × |        | E   | 6-9   | 2      | 10- | 10-Ci, 2Ac, 2Sc, 0+St |
| 29-Sep-00 | 06:40 | Tottuki | 978 | -18.6 | × |        | E   | 4-8   | 2      | 10- | 10-Ci, 3Ac            |

Table3-5. Meteorological data observed during the traverse between S16 (Tottuki) and Mizuho Station (16-Sep-2000 to 29-Nov-2000).

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD   | WS   | V   | N   | CL          |
|-----------|-------|---------|-------|-------|---|--------|------|------|-----|-----|-------------|
| 16-Sep-00 | 13:20 | Tottuki | 997   | -16.5 | ⊕ |        | calm | -    | 30  | 10- | 1Sc,10-Ci   |
| 16-Sep-00 | 18:30 | S22     | 891   | -24.2 | ⊕ |        | E    | 14   | 30  | 10- | 1Sc,10-Ci   |
| 17-Sep-00 | 07:30 | S22     | 902   | -24.7 | ⊕ | ↗      | ENE  | 8    | 10  | 10- | 1Sc,10-Ci   |
| 17-Sep-00 | 12:10 | H60     | 855   | -25.2 | ⊕ | ↗      | E    | 11   | 2   | 10- | 1Sc,10-Ci   |
| 17-Sep-00 | 18:00 | H136    | 827   | -32.1 | ⊕ | ↗      | E    | 8    | 30  | 4   | 1Ac,Ci      |
| 18-Sep-00 | 07:20 | H136    | 826   | -36.2 | ⊕ | ↗      | E    | 4    | 30  | 2   | 0+Sc,2Ci    |
| 18-Sep-00 | 13:40 | H224    | 797   | -30.9 | ⊕ | ↗      | E    | 6    | 30  | 2   | 0+Sc,2Ci    |
| 18-Sep-00 | 18:00 | H277    | 780   | -38.7 | ○ | ↗      | E    | 7    | 30  | 1   | 0+Ac,1Ci    |
| 19-Sep-00 | 07:20 | H277    | 774   | -43.7 | ○ | ↗      | E    | 3    | 30  | 0+  | 0+Ac,1Ci    |
| 19-Sep-00 | 12:20 | Z26     | 747   | -39.2 | ○ | ↗      | E    | 6    | 30  | 0+  | 0+Ci        |
| 19-Sep-00 | 18:00 | Z70     | 736   | -44.2 | ○ | ↗      | E    | 9    | 10  | 0+  | 0+Ac,0+Ci   |
| 20-Sep-00 | 07:00 | Z70     | X     | -46.7 | ○ | ↗      | E    | 7    | 0.5 | 0   | -           |
| 20-Sep-00 | 18:00 | Mizuho  | 720   | -41.7 | ⊕ | ↗      | E    | 10   | 0.3 | 10- | 10-Ci       |
| 21-Sep-00 | 07:30 | Mizuho  | 732   | -39.1 | ⊕ | ↗      | E    | 11   | 0.5 | 6   | 0+Ac,6Ci    |
| 21-Sep-00 | 18:00 | Mizuho  | 736   | -34.2 | ⊕ | ↗      | E    | 8    | 5   | 10- | 2Ac,10-Ci   |
| 22-Sep-00 | 07:30 | Mizuho  | 743   | -36.3 | ⊙ |        | E    | 6    | 10  | 10  | 10Sc        |
| 22-Sep-00 | 18:00 | Mizuho  | 745   | -35.3 | ⊕ |        | E    | 6    | 10  | 10- | 3Ac,10-Ci   |
| 23-Sep-00 | 07:30 | Mizuho  | 739   | -40.2 | ○ | ↗      | E    | 3    | 30  | 1   | 0+Ac,1Ci    |
| 23-Sep-00 | 18:00 | Mizuho  | 736   | -43.8 | ○ | ↗      | ESE  | 9    | 10  | 0+  | 0+Ac        |
| 24-Sep-00 | 07:30 | Mizuho  | 735   | -48.4 | ○ | ↗      | ESE  | 9    | 10  | 1   | 1Ci         |
| 24-Sep-00 | 18:00 | Mizuho  | 732   | -46.1 | ○ | ↗      | NE   | 8.3  | 10  | 0+  | 0+Ci        |
| 25-Sep-00 | 07:00 | Mizuho  | 734   | -51.3 | ○ | ↗      | ESE  | 8.9  | 5   | 0+  | 0+Ci        |
| 25-Sep-00 | 07:30 | Mizuho  | 740.2 | -51.2 | ○ | ↗      | E    | 8.7  | 5   | 1   | 1Ci         |
| 25-Sep-00 | 18:00 | Mizuho  | 745.4 | -45.4 | ○ | ↗      | E    | 12.2 | 2   | 1   | 1Ci         |
| 26-Sep-00 | 09:00 | Mizuho  | 746.2 | -40.0 | ○ | ↗      | E    | 17.1 | 0.1 | 0   |             |
| 26-Sep-00 | 18:00 | Mizuho  | 744.0 | -37.2 | ↗ |        | ESE  | 18.0 | 0.1 | X   | X           |
| 27-Sep-00 | 09:00 | Mizuho  | 735.0 | -35.8 | ↗ |        | ESE  | 17.0 | 0.1 | X   | XCi         |
| 27-Sep-00 | 18:13 | Mizuho  | 725.7 | -39.2 | ○ | ↗      | E    | 13.5 | 0.1 | 1   | 0+Ac,1Ci    |
| 28-Sep-00 | 09:00 | Mizuho  | 721.7 | -43.5 | ⊕ | ↗      | E    | 10.0 | 3   | 10- | 10-Ci       |
| 28-Sep-00 | 18:00 | Mizuho  | 721.9 | -41.3 | ⊕ |        | ENE  | 5.1  | 20  | 10- | 2Ac,10-Ci   |
| 29-Sep-00 | 09:00 | Mizuho  | 724.0 | -42.4 | ⊕ | ≡      | ENE  | 6.1  | 3   | 10- | 10-Ci       |
| 29-Sep-00 | 18:00 | Mizuho  | 723.9 | -44.8 | ⊕ |        | ENE  | 4.4  | 20  | 10- | 1Ac,10-Ci   |
| 30-Sep-00 | 09:00 | Mizuho  | 721.0 | -47.8 | ○ | ↗      | E    | 9.3  | 2   | 0   |             |
| 30-Sep-00 | 18:00 | Mizuho  | 720.4 | -42.4 | ↗ |        | ESE  | 11.0 | 0.1 | 0   |             |
| 1-Oct-00  | 09:00 | Mizuho  | 724.6 | -41.8 | ↗ |        | ESE  | 13.0 | 0.1 | 0   |             |
| 1-Oct-00  | 18:00 | Mizuho  | 724.5 | -41.7 | ⊕ | ↗      | E    | 11.3 | 1   | 3   | 3Ci         |
| 2-Oct-00  | 09:00 | Mizuho  | 725.8 | -38.4 | ⊕ | ↗,≡    | E    | 8.7  | 5   | 10- | 10-Ac       |
| 2-Oct-00  | 18:00 | Mizuho  | 729.2 | -32.6 | × |        | ENE  | 5.3  | 10  | 10- | 10-Ac       |
| 3-Oct-00  | 07:30 | Mizuho  | 728.9 | -31.0 | × | ↗      | ENE  | 9.5  | 0.1 | 10  | 10As        |
| 3-Oct-00  | 09:00 | Mizuho  | 728.2 | -29.6 | × | ↗      | ENE  | 9.5  | 5   | 10- | 2Ac,10-Ci   |
| 3-Oct-00  | 18:00 | Mizuho  | 730.6 | -30.7 | ⊕ | ↗      | E    | 7.0  | 0.1 | 10  | 10As        |
| 4-Oct-00  | 07:30 | Mizuho  | 735.1 | -36.5 | ⊙ | ≡      | E    | 7.4  | 5   | 10  | 10Ac        |
| 4-Oct-00  | 09:00 | Mizuho  | 735.1 | -34.2 | ⊙ | ≡      | E    | 6.0  | 5   | 10  | 10Ac        |
| 4-Oct-00  | 18:00 | Mizuho  | 736.4 | -32.2 | ⊙ | ≡      | E    | 6.9  | 5   | 10- | 10-Ac       |
| 5-Oct-00  | 07:30 | Mizuho  | 732.0 | -42.1 | ⊕ | ↗      | E    | 9.0  | 1   | 3   | 3Ci         |
| 5-Oct-00  | 09:00 | Mizuho  | 731.8 | -39.5 | ○ | ↗      | E    | 9.9  | 1   | 1   | 1Ci         |
| 5-Oct-00  | 18:00 | Mizuho  | 729.8 | -37.2 | ⊕ | ↗      | E    | 7.7  | 30  | 6   | 1Sc,1Ac,6Ci |
| 6-Oct-00  | 07:30 | Mizuho  | 727.7 | -42.1 | ○ | ↗      | E    | 9.2  | 3   | 1   | 1Ac         |
| 6-Oct-00  | 18:00 | Mizuho  | 726.5 | -32.7 | ⊙ |        | E    | 6.0  | 20  | 10  | 10Ac        |
| 7-Oct-00  | 07:30 | Mizuho  | 726.4 | -43.0 | ⊙ | ↗      | E    | 8.7  | 0.5 | 10- | 10-Ac       |
| 7-Oct-00  | 09:00 | Mizuho  | 726.6 | -41.0 | ⊕ | ↗      | E    | 8.5  | 0.5 | 10- | 3Ac,10-Ci   |
| 7-Oct-00  | 18:00 | Mizuho  | 728.1 | -31.1 | × |        | NE   | 1.3  | 10  | 10- | 4Ac,10-Ci   |

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD  | WS   | V   | N   | CL              |
|-----------|-------|---------|-------|-------|---|--------|-----|------|-----|-----|-----------------|
| 8-Oct-00  | 09:00 | Mizuho  | 730.3 | -34.0 | ⊕ |        | NE  | 2.7  | 10  | 10- | 10-Ci           |
| 8-Oct-00  | 18:00 | Mizuho  | 730.7 | -39.3 | ⊕ |        | ENE | 5.2  | 10  | 10- | 0+Sc,2Ac,10-Ci  |
| 9-Oct-00  | 09:00 | Mizuho  | 729.9 | -39.5 | ⊕ | ↗      | E   | 9.7  | 0.5 | 10- | 10-Ci           |
| 9-Oct-00  | 18:15 | Mizuho  | 727.8 | -39.4 | ⊕ | ↗      | E   | 9.0  | 5   | 10- | 10-Ci           |
| 10-Oct-00 | 09:00 | Mizuho  | 726.9 | -41.0 | ⊕ | ↗      | E   | 10.9 | 0.2 | 2   | 2Ci             |
| 10-Oct-00 | 18:00 | Mizuho  | 725.7 | -38.7 | ⊕ | ↗      | E   | 10.6 | 1   | 10- | 1Ac,10-Ci       |
| 11-Oct-00 | 09:00 | Mizuho  | 721.9 | -40.9 | ↗ |        | E   | 13.1 | 0.1 | 0   |                 |
| 11-Oct-00 | 18:00 | Mizuho  | 720.5 | -39.6 | ↗ |        | E   | 12.5 | 0.1 | 0   |                 |
| 12-Oct-00 | 07:30 | Mizuho  | 717.8 | -42.8 | ↗ |        | E   | 15.4 | 0   | 10  | X               |
| 12-Oct-00 | 09:00 | Mizuho  | 717.6 | -40.2 | ↗ |        | E   | 15.5 | 0   | 10  | X               |
| 12-Oct-00 | 18:00 | Mizuho  | 719.4 | -36.9 | ○ | ↗      | ENE | 12.0 | 0.2 | 0+  | 0+Ac            |
| 13-Oct-00 | 07:30 | Mizuho  | 723.8 | -36.0 | ⊕ | ↗      | E   | 11.0 | 0.2 | 10- | 10-Ci           |
| 13-Oct-00 | 09:00 | Mizuho  | 724.9 | -34.5 | ⊕ | ↗      | E   | 13.0 | 0.2 | 5   | 5Ci             |
| 13-Oct-00 | 18:00 | Mizuho  | 728.9 | -33.4 | ⊕ | ↗      | E   | 9.3  | 10  | 4   | 1Ac,4Ci         |
| 14-Oct-00 | 07:30 | Mizuho  | 729.7 | -38.4 | ○ | ↗      | E   | 12.4 | 0.2 | 0   |                 |
| 14-Oct-00 | 09:00 | Mizuho  | 729.6 | -36.4 | ○ | ↗      | E   | 11.8 | 0.2 | 0   |                 |
| 14-Oct-00 | 18:00 | Mizuho  | 730.6 | -34.9 | ⊕ | ↗      | E   | 10.4 | 1   | 10- | 2Ac,10-Ci       |
| 15-Oct-00 | 07:30 | Mizuho  | 734.5 | -42.5 | ⊕ | ↗      | E   | 11.5 | 0.3 | 3   | 3Ci             |
| 15-Oct-00 | 09:00 | Mizuho  | 734.4 | -39.7 | ○ | ↗      | E   | 10.9 | 0.5 | 1   | 1Ci             |
| 15-Oct-00 | 09:55 | Mizuho  | 734.4 | -37.7 | ○ | ↗      | E   | 11.1 | 0.5 | 1   | 1Ci             |
| 15-Oct-00 | 18:00 | Mizuho  | 734.4 | -35.4 | ⊕ | ↗      | E   | 10.0 | 5   | 5   | 5Ci             |
| 16-Oct-00 | 07:30 | Mizuho  | 734.1 | -41.4 | ⊕ | ↗      | E   | 12.7 | 0.2 | 10- | 10-Ci           |
| 16-Oct-00 | 09:00 | Mizuho  | 735.2 | -38.8 | ⊕ | ↗      | E   | 12.5 | 0.2 | 10- | 10-Ci           |
| 16-Oct-00 | 18:00 | Mizuho  | 738.4 | -36.5 | ⊕ | ↗      | E   | 10.1 | 5   | 10- | 0+Ac,10-Ci      |
| 17-Oct-00 | 07:30 | Mizuho  | 741.9 | -42.2 | ○ | ↗      | E   | 11.8 | 0.3 | 0   |                 |
| 17-Oct-00 | 09:00 | Mizuho  | 742.0 | -39.5 | ○ | ↗      | E   | 10.9 | 0.5 | 0   |                 |
| 17-Oct-00 | 09:10 | Mizuho  | 742.1 | -39.1 | ○ | ↗      | E   | 11.1 | 0.5 | 0   |                 |
| 17-Oct-00 | 18:00 | Mizuho  | 739.9 | -34.2 | ⊕ | ↗      | E   | 12.0 | 1   | 2   | 2Ci             |
| 18-Oct-00 | 07:40 | Mizuho  | 733.4 | -31.8 | ↗ |        | ENE | 16.6 | 0.1 | 10  | XCi             |
| 18-Oct-00 | 09:00 | Mizuho  | 732.8 | -30.6 | ↗ |        | E   | 16.0 | 0.1 | 10  | XCi             |
| 18-Oct-00 | 18:00 | Mizuho  | 732.4 | -27.2 | ↗ |        | ENE | 13.0 | 0.1 | 10  | XAc             |
| 19-Oct-00 | 07:30 | Mizuho  | 735.3 | -30.7 | × | ↗      | ENE | 11.5 | 0.1 | 10  | X               |
| 19-Oct-00 | 09:00 | Mizuho  | 735.8 | -29.7 | × | ↗      | ENE | 12.0 | 0.1 | 10  | X               |
| 19-Oct-00 | 18:00 | Mizuho  | 736.3 | -28.3 | × | ↗      | ENE | 10.0 | 0.3 | 10  | 10Ac            |
| 20-Oct-00 | 07:30 | Mizuho  | 734.6 | -33.1 | ⊕ | ↗      | ENE | 9.5  | 0.5 | 10  | 0+Ac,10Cs       |
| 20-Oct-00 | 09:00 | Mizuho  | 734.3 | -31.9 | ⊕ | ↗      | ENE | 9.1  | 0.5 | 10  | 0+Ac,10Cs       |
| 20-Oct-00 | 18:00 | Mizuho  | 732.8 | -31.7 | ⊕ | ↗      | ENE | 4.0  | 30  | 10- | 1Ac,10-Cs       |
| 21-Oct-00 | 07:30 | Mizuho  | 729.1 | -35.9 | ⊙ | ↗      | ENE | 8.4  | 0.5 | 10- | 0+Sc,10-Ac      |
| 21-Oct-00 | 09:00 | Mizuho  | 729.1 | -32.7 | ⊙ | ↗      | ENE | 8.8  | 0.5 | 10  | 10Sc            |
| 21-Oct-00 | 18:00 | Mizuho  | 728.8 | -28.7 | ⊕ | ↗      | ENE | 7.5  | 5   | 10- | 2Ac,10-Ci       |
| 22-Oct-00 | 07:30 | Mizuho  | 731.8 | -32.0 | ⊕ | ↗      | ENE | 8.4  | 0.5 | 10  | 10Cs            |
| 22-Oct-00 | 09:00 | Mizuho  | 732.4 | -30.1 | ⊕ | ↗      | ENE | 7.4  | 2   | 10  | 10Cs            |
| 22-Oct-00 | 18:00 | Mizuho  | 734.8 | -26.7 | × |        | NE  | 5.8  | 5   | 10  | 0+Ac,10As       |
| 23-Oct-00 | 07:30 | Mizuho  | 736.9 | -32.4 | ⊕ |        | NE  | 5.0  | 10  | 7   | 7Ci             |
| 23-Oct-00 | 09:00 | Mizuho  | 736.9 | -31.6 | ⊕ |        | ENE | 5.5  | 20  | 10- | 10-Ci           |
| 23-Oct-00 | 18:00 | Mizuho  | 736.2 | -30.3 | ⊕ |        | E   | 4.2  | 20  | 7   | 1Ac,7Ci         |
| 24-Oct-00 | 07:30 | Mizuho  | 734.6 | -39.4 | ⊕ | ↗      | E   | 8.5  | 5   | 7   | 7Ci             |
| 24-Oct-00 | 09:00 | Mizuho  | 734.4 | -37.4 | ⊕ | ↗      | E   | 8.6  | 5   | 10- | 10-Ci           |
| 24-Oct-00 | 09:55 | Mizuho  | 734.5 | -35.8 | ⊕ | ↗      | E   | 7.8  | 10  | 3   | 0+Ac,3Ci        |
| 24-Oct-00 | 18:00 | Mizuho  | 733.9 | -36.3 | ○ | ↗      | ESE | 7.3  | 30  | 0+  | 0+Ci            |
| 25-Oct-00 | 07:30 | Mizuho  | 735.6 | -43.6 | ⊕ | ↗      | E   | 10.1 | 0.5 | 3   | 1Ac,3Ci         |
| 25-Oct-00 | 09:00 | Mizuho  | 735.6 | -40.8 | ⊕ | ↗      | E   | 9.3  | 1   | 10- | 1Ac,10-Ci       |
| 25-Oct-00 | 18:00 | Mizuho  | 735.6 | -33.9 | ⊕ | ↗      | E   | 6.8  | 30  | 10- | 0+Sc,0+Ac,10-Ci |
| 26-Oct-00 | 07:30 | Mizuho  | 734.5 | -36.9 | ⊕ | ↗      | E   | 10.4 | 0.3 | 10- | 1Ac,10-Ci       |

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD  | WS   | V   | N   | CL             |
|-----------|-------|---------|-------|-------|---|--------|-----|------|-----|-----|----------------|
| 26-Oct-00 | 09:00 | Mizuho  | 734.6 | -34.3 | ⊕ | ↗      | E   | 9.4  | 0.5 | 10- | 10-Ci          |
| 26-Oct-00 | 18:00 | Mizuho  | 735.4 | -28.0 | × |        | E   | 1.6  | 10  | 10  | 10As           |
| 27-Oct-00 | 07:35 | Mizuho  | 731.9 | -38.3 | ○ | ↗      | E   | 7.0  | 5   | 1   | 1Sc,0+Ci       |
| 27-Oct-00 | 09:00 | Mizuho  | 731.7 | -36.5 | ⊕ |        | E   | 6.6  | 10  | 4   | 4Ac,0+cl       |
| 27-Oct-00 | 18:00 | Mizuho  | 727.4 | -30.7 | × |        | SE  | 1.3  | 20  | 10- | 9Sc,XAc        |
| 28-Oct-00 | 07:30 | Mizuho  | 723.9 | -46.2 | ○ | ↗      | E   | 9.9  | 0.3 | 0+  | 0+Sc           |
| 28-Oct-00 | 09:00 | Mizuho  | 723.0 | -43.5 | ○ | ↗      | E   | 9.2  | 0.3 | 0+  | 0+Sc           |
| 28-Oct-00 | 18:00 | Mizuho  | 721.6 | -37.7 | ○ |        | ENE | 5.5  | 30  | 1   | 1Sc            |
| 29-Oct-00 | 07:30 | Mizuho  | 719.9 | -44.7 | ○ | ↗      | E   | 8.7  | 1   | 1   | 0+Ac,1Ci       |
| 29-Oct-00 | 09:00 | Mizuho  | 720.2 | -41.5 | ○ | ↗      | E   | 8.5  | 1   | 0+  | 0+Ac,0+Ci      |
| 29-Oct-00 | 18:00 | Mizuho  | 723.8 | -37.4 | ○ |        | E   | 7.3  | 30  | 0+  | 0+Ac,0+Ci      |
| 30-Oct-00 | 07:30 | Mizuho  | 729.0 | -38.7 | ⊕ | ↗      | ENE | 10.8 | 0.3 | 10- | 1Ac,10-Ci      |
| 30-Oct-00 | 09:00 | Mizuho  | 728.7 | -35.5 | ⊙ | ↗      | ENE | 11.9 | 0.2 | 10- | 10-Ac          |
| 30-Oct-00 | 18:00 | Mizuho  | 729.7 | -28.5 | × | ↗      | ENE | 12.3 | 0.1 | 10  | X              |
| 31-Oct-00 | 07:30 | Mizuho  | 735.0 | -28.6 | × | ↗      | ENE | 9.5  | 0.2 | 10- | 1Sc,10-As      |
| 31-Oct-00 | 09:00 | Mizuho  | 734.9 | -27.3 | × | ↗      | ENE | 11.6 | 0.1 | 10  | no data        |
| 31-Oct-00 | 18:00 | Mizuho  | 736.0 | -26.2 | ⊕ |        | ENE | 3.9  | 10  | 10- | 2Ac,10-Ci      |
| 1-Nov-00  | 07:30 | Mizuho  | 737.8 | -35.0 | ○ | ↗      | E   | 7.8  | 5   | 0+  | 0+Sc           |
| 1-Nov-00  | 09:00 | Mizuho  | 737.8 | -32.8 | ○ |        | ESE | 7.8  | 10  | 1   | 1Ci            |
| 1-Nov-00  | 18:00 | Mizuho  | 737.0 | -30.2 | ○ |        | ESE | 5.9  | 30  | 0+  | 0+Ci           |
| 2-Nov-00  | 07:55 | Mizuho  | 736.0 | -38.4 | ○ | ↗      | ESE | 13.8 | 0.1 | 0   |                |
| 2-Nov-00  | 09:00 | Mizuho  | 735.8 | -36.6 | ○ | ↗      | ESE | 13.8 | 0.1 | 0   |                |
| 2-Nov-00  | 18:00 | Mizuho  | 734.6 | -33.1 | ○ | ↗      | E   | 11.3 | 0.3 | 0   |                |
| 3-Nov-00  | 07:58 | Mizuho  | 732.3 |       | ○ | ↗      | E   | 13.4 | 0.1 | 0   |                |
| 3-Nov-00  | 09:00 | Mizuho  | 732.1 | -35.2 | ○ | ↗      | E   | 14.6 | 0.1 | 0   |                |
| 3-Nov-00  | 18:00 | Mizuho  | 730.4 | -31.6 | ○ | ↗      | E   | 12.7 | 0.1 | 0   |                |
| 4-Nov-00  | 07:30 | Mizuho  | 733.6 | -35.9 | ○ | ↗      | E   | 11.8 | 0.2 | 0   |                |
| 4-Nov-00  | 09:00 | Mizuho  | 733.9 | -33.9 | ○ | ↗      | E   | 11.8 | 0.2 | 0   |                |
| 4-Nov-00  | 18:00 | Mizuho  | 736.0 | -30.3 | ○ | ↗      | E   | 5.1  | 30  | 0+  | 0+Ac           |
| 5-Nov-00  | 07:30 | Mizuho  | 740.7 | -35.6 | ⊕ | ↗      | ENE | 8.8  | 0.5 | 10- | 2Ac,10-Ci      |
| 5-Nov-00  | 09:00 | Mizuho  | 741.3 | -32.1 | ⊕ | ↗      | ENE | 9.1  | 2   | 2   | 2Ac,0+Ci       |
| 5-Nov-00  | 18:04 | Mizuho  | 741.3 | -25.6 | × | ↗      | ENE | 10.4 | 0.1 | 10  | 10Ac           |
| 6-Nov-00  | 07:30 | Mizuho  | 740.1 | -25.3 | ⊙ | ↗      | E   | 12.8 | 0.1 | 10  | X              |
| 6-Nov-00  | 09:03 | Mizuho  | 740.2 | -24.3 | ⊕ | ↗      | ENE | 14.7 | 0.1 | 10  | X              |
| 6-Nov-00  | 18:00 | Mizuho  | 740.7 | -23.6 | ⊕ | ↗      | ENE | 11.8 | 0.2 | 10- | 2Ac,10-Ci      |
| 7-Nov-00  | 07:30 | Mizuho  | 742.9 | -29.3 | ⊕ | ↗      | E   | 10.8 | 0.2 | 2   | 0+Ac,2Ci       |
| 7-Nov-00  | 09:00 | Mizuho  | 742.8 | -27.7 | ⊕ | ↗      | E   | 12.2 | 0.2 | 8   | 0+Ac,8Ci       |
| 7-Nov-00  | 18:00 | Mizuho  | 743.9 | -23.3 | ⊕ | ↓      | ENE | 9.0  | 10  | 10- | 1Sc,1Ac,10-Ci  |
| 8-Nov-00  | 07:30 | Mizuho  | 746.5 | -22.7 | ⊙ | ↗      | ENE | 11.3 | 0.5 | 10- | 10-Ac          |
| 8-Nov-00  | 09:00 | Mizuho  | 746.5 | -21.8 | ⊙ | ↗      | ENE | 12.6 | 0.2 | 10  | 10Ac           |
| 8-Nov-00  | 18:00 | Mizuho  | 747.0 | -19.8 | ⊙ | ↗      | ENE | 9.6  | 0.3 | 10  | 10Ac           |
| 9-Nov-00  | 07:30 | Mizuho  | 746.5 | -24.7 | ⊕ | ↗      | E   | 9.2  | 5   | 10- | 1Ac,10-Ci      |
| 9-Nov-00  | 09:00 | Mizuho  | 746.0 | -22.9 | ⊕ | ↗      | E   | 10.2 | 5   | 10- | 0+Ac,10-Ci     |
| 9-Nov-00  | 18:00 | Mizuho  | 742.9 | -20.9 | ⊕ | ↓      | E   | 4.9  | 30  | 10- | 0+Ac,10-Ci     |
| 10-Nov-00 | 07:30 | Mizuho  | 737.4 | -25.9 | ⊕ | ↗      | ENE | 13.2 | 3   | 10- | 10-Ci          |
| 10-Nov-00 | 09:00 | Mizuho  | 737.1 | -24.0 | ⊕ | ↗      | ENE | 12.5 | 3   | 10- | 10-Ci          |
| 10-Nov-00 | 18:00 | Mizuho  | 736.5 | -20.9 | ⊕ |        | ENE | 10.5 | 20  | 10- | 0+Sc,2Ac,10-Ci |
| 11-Nov-00 | 07:30 | Mizuho  | 737.9 | -26.6 | × | ↗      | ENE | 10.2 | 0.2 | 10  | 10Ac           |
| 11-Nov-00 | 09:00 | Mizuho  | 738.1 | -24.4 | × | ↗      | ENE | 9.2  | 0.2 | 10  | 10Ac           |
| 11-Nov-00 | 18:00 | Mizuho  | 739.9 | -21.6 | ⊙ |        | NE  | 4.9  | 30  | 10- | 9Sc,XAc        |
| 12-Nov-00 | 07:30 | Mizuho  | 743.4 | -25.7 | ⊕ | ↓      | ENE | 7.3  | 10  | 10- | 2Ac,10-Ci      |
| 12-Nov-00 | 09:00 | Mizuho  | 743.8 | -24.0 | ⊕ | ↓      | ENE | 8.3  | 10  | 10- | 1Ac,10-Ci      |
| 12-Nov-00 | 18:00 | Mizuho  | 744.4 | -20.8 | ⊙ |        | NE  | 5.2  | 10  | 10- | 10-Sc          |
| 13-Nov-00 | 07:30 | Mizuho  | 743.3 | -27.4 | ⊙ | ↗      | E   | 7.4  | 1   | 10- | 10-Ac          |

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD  | WS   | V   | N   | CL             |
|-----------|-------|---------|-------|-------|---|--------|-----|------|-----|-----|----------------|
| 13-Nov-00 | 09:00 | Mizuho  | 747.0 | -25.8 | ⊙ | ↗      | E   | 7.2  | 3   | 10- | 10-Ac          |
| 13-Nov-00 | 18:00 | Mizuho  | 742.8 | -24.6 | ⊙ | ↗      | E   | 8.7  | 10  | 9   | 0+Ac,9Ci       |
| 14-Nov-00 | 07:30 | Mizuho  | 744.2 | -22.6 | × | ↗      | ENE | 11.4 | 0.1 | 10  | 10As           |
| 14-Nov-00 | 09:00 | Mizuho  | 744.6 | -21.7 | × | ↗      | ENE | 11.8 | 0.1 | 10  | 10As           |
| 14-Nov-00 | 18:00 | Mizuho  | 745.4 | -20.1 | ⊕ | ↗      | NE  | 7.7  | 10  | 10- | 4Ac,10-Ci      |
| 15-Nov-00 | 07:30 | Mizuho  | 744.1 | -26.3 | ⊕ | ↗      | E   | 8.2  | 5   | 8   | 2Ac,8Ci        |
| 15-Nov-00 | 09:00 | Mizuho  | 743.6 | -24.1 | ⊕ | ↗      | E   | 8.5  | 5   | 10- | 1Sc,3Ac,10-Ci  |
| 15-Nov-00 | 18:00 | Mizuho  | 740.9 | -21.6 | ⊕ | ↗      | ENE | 6.9  | 10  | 10- | 4Ac,10-Ci      |
| 16-Nov-00 | 07:30 | Mizuho  | 741.9 | -27.8 | ⊕ | ↗      | E   | 8.6  | 5   | 10- | 1Ac,10-Ci      |
| 16-Nov-00 | 09:00 | Mizuho  | 742.2 | -25.2 | ⊕ | ↗      | E   | 8.4  | 10  | 10- | 1Ac,10-Ci      |
| 16-Nov-00 | 18:00 | Mizuho  | 746.8 | -21.2 | ⊕ |        | ENE | 4.7  | 30  | 10- | 1Ac,10-Ci      |
| 17-Nov-00 | 07:30 | Mizuho  | 757.1 | -27.4 | ⊙ | ↗      | E   | 7.0  | 10  | 10- | 10-Ac          |
| 17-Nov-00 | 09:00 | Mizuho  | 758.0 | -25.8 | ○ |        | ENE | 6.9  | 20  | 1   | 1Ac,0+Ci       |
| 17-Nov-00 | 10:00 | Mizuho  | 758.1 | -24.2 | ○ |        | ENE | 5.9  | 30  | 0+  | 0+Ac,0+Ci      |
| 17-Nov-00 | 11:00 | Mizuho  | 759.1 | -22.9 | ○ |        | ENE | 5.6  | 30  | 1   | 1Ac,0+Ci       |
| 17-Nov-00 | 12:00 | Mizuho  | 759.4 | -24.7 | ○ |        | ENE | 5.0  | 30  | 1   | 1Ac,0+Ci       |
| 17-Nov-00 | 13:00 | Mizuho  | 759.5 | -20.6 | ○ |        | ENE | 4.7  | 30  | 1   | 1Ci            |
| 17-Nov-00 | 13:25 | Mizuho  | 759.5 | -20.2 | ○ |        | ENE | 4.3  | 30  | 1   | 1Ci            |
| 17-Nov-00 | 18:00 | Mizuho  | 759.5 | -21.5 | ○ |        | E   | 3.6  | 30  | 0+  | 0+Ac           |
| 18-Nov-00 | 07:35 | Mizuho  | 751.1 | -28.4 | ⊕ | ↗      | E   | 11.9 | 2   | 2   | 2Ci            |
| 18-Nov-00 | 09:00 | Mizuho  | 750.2 | -25.8 | ⊕ | ↗      | E   | 11.9 | 2   | 2   | 2Ci            |
| 18-Nov-00 | 18:00 | Mizuho  | 746.0 | -23.7 | ○ | ↗      | ESE | 10.9 | 5   | 1   | 1Ci            |
| 19-Nov-00 | 07:36 | Mizuho  | 746.4 | -28.9 | ○ | ↗      | ESE | 13.5 | 0.2 | 0   |                |
| 19-Nov-00 | 09:00 | Mizuho  | 747.0 | -26.8 | ○ | ↗      | ESE | 12.0 | 0.2 | 0+  | 0+Ac           |
| 19-Nov-00 | 10:00 | Mizuho  | 747.2 | -25.0 | ○ | ↗      | ESE | 11.6 | 0.5 | 0+  | 0+Ac           |
| 19-Nov-00 | 11:00 | Mizuho  | 747.1 | -23.8 | ○ | ↗      | ESE | 13.3 | 0.3 | 0+  | 0+Ac           |
| 19-Nov-00 | 12:00 | Mizuho  | 747.4 | -22.5 | ○ |        | ESE | 12.5 | 1   | 0   |                |
| 19-Nov-00 | 12:25 | Mizuho  | 747.6 | -22.2 | ○ |        | ESE | 12.8 | 0.5 | 0   |                |
| 19-Nov-00 | 13:00 | Mizuho  | 747.8 | -21.6 | ○ |        | ESE | 11.0 | 2   | 0+  | 0+Ci           |
| 19-Nov-00 | 13:20 | Mizuho  | 747.8 | -21.5 | ○ |        | ESE | 11.9 | 1   | 0+  | no data        |
| 19-Nov-00 | 18:00 | Mizuho  | 748.5 | -22.0 | ○ | ↗      | ESE | 9.7  | 10  | 0+  | 0+Ac,0+Ci      |
| 20-Nov-00 | 07:30 | Mizuho  | 746.5 | -27.9 | ○ | ↗      | E   | 12.4 | 0.5 | 0+  | 0+Ac           |
| 20-Nov-00 | 09:00 | Mizuho  | 745.9 | -26.0 | ○ | ↗      | ESE | 12.9 | 0.3 | 0+  | 0+Ac           |
| 20-Nov-00 | 10:00 | Mizuho  | 745.4 | -24.7 | ○ | ↗      | E   | 11.4 | 3   | 0+  | 0+Ac           |
| 20-Nov-00 | 11:00 | Mizuho  | 745.7 | -23.7 | ○ |        | E   | 12.5 | 1   | 0+  | 0+Ac           |
| 20-Nov-00 | 18:00 | Mizuho  | 745.1 | -20.9 | ○ |        | E   | 7.2  | 20  | 0   |                |
| 21-Nov-00 | 07:30 | Mizuho  | 747.4 | -25.7 | ○ | ↗      | E   | 7.9  | 20  | 0+  | 0+Sc,0+Ac      |
| 21-Nov-00 | 09:00 | Mizuho  | 747.4 | -23.7 | ○ |        | E   | 6.8  | 30  | 0+  | 0+Sc           |
| 21-Nov-00 | 10:00 | Mizuho  | 747.3 | -22.1 | ○ |        | E   | 8.0  | 30  | 0+  | 0+Sc           |
| 21-Nov-00 | 11:00 | Mizuho  | 747.1 | -20.4 | ○ |        | E   | 7.2  | 30  | 0+  | 0+Sc,0+Ac      |
| 21-Nov-00 | 18:00 | Mizuho  | 745.5 | -20.7 | ○ |        | E   | 5.0  | 30  | 0+  | 0+Ci           |
| 22-Nov-00 | 09:00 | Mizuho  | 739.7 | -23.5 | ↗ |        | E   | 14.1 | 0.7 |     |                |
| 22-Nov-00 | 18:00 | Mizuho  | 739.5 | -20.3 | ○ |        | E   | 11.1 | 10  | 0   |                |
| 23-Nov-00 | 09:00 | Mizuho  | 742.2 | -24.1 | ↗ |        | E   | 14.2 | 0.5 | 2   | 2Ci            |
| 23-Nov-00 | 18:00 | Mizuho  | 745   | -19.5 | ⊕ | ↗      | E   | 13   | 1   | 10  | 10Cs           |
| 24-Nov-00 | 09:00 | Mizuho  | 746   | -20.7 | ⊕ | ↗      | E   | 9-13 | 1   | 10- | 10-Ci          |
| 24-Nov-00 | 18:00 | Mizuho  | 747   | -18.0 | ⊕ | ↗      | E   | 9    | 10  | 2   | 0+Ac,2Ci       |
| 25-Nov-00 | 09:00 | Mizuho  | 745   | -17.1 | ⊙ | ↗      | E   | 12   | 7   | 9   | 9Ac            |
| 25-Nov-00 | 18:00 | Mizuho  | 745   | -13.7 | ⊕ | ↗      | E   | 9    | 20  | 9   | 0+Sc,1Ac,8Ci   |
| 26-Nov-00 | 18:00 | Mizuho  | 750   | -15.6 | ⊕ |        | E   | 7    | 30  | 10- | 0+Sc,2Ac,10-Ci |
| 27-Nov-00 | 18:00 | Z24     | 768   | -17.0 | ⊕ |        | E   | 8    | 30  | 4   | 1Ac,4Ci        |
| 28-Nov-00 | 18:30 | H220    | 810   | -13.0 | ○ |        | ENE | 3    | 30  | 0+  | 0+Sc,0+Ci      |
| 29-Nov-00 | 18:30 | H180    | 854   | -8.9  | ○ |        | ENE | 5    | 30  | 0+  | 0+Sc,0+Ac,0+Ci |

Table 3-6. Meteorological data observed during the traverse between S16 and Dome  
Fuji (26-Dec-2000 to 10- Feb-2001).

| Date      | LT    | Station | Pa  | Ta    | W | Hydro. | WD  | WS   | V   | N   | CL                    |
|-----------|-------|---------|-----|-------|---|--------|-----|------|-----|-----|-----------------------|
| 26-Dec-00 | 13:00 | S16     | 931 | -1.0  | ⊕ |        | NE  | 4.0  | 20  | 10- | 10-Ci                 |
| 26-Dec-00 | 14:00 | S16     | 933 | -1.5  | ⊕ |        | NE  | 4.0  | 20  | 8   | 0+Cu, 1Ac, 7Cs        |
| 26-Dec-00 | 15:00 | S16     | 932 | -2.0  | ⊕ |        | NE  | 4.0  | 20  | 8   | 0+Cu, 7Ac, 1Ci        |
| 26-Dec-00 | 16:00 | S16     | 931 | -2.5  | ⊙ |        | ENE | 6.0  | 15  | 9   | 1Cu, 9Ac              |
| 26-Dec-00 | 20:00 | S16     | 932 | -5.0  | ✱ |        | NE  | 5.0  | 10  | 10  | 5St, 10Ac             |
| 27-Dec-00 | 05:00 | S16     | 931 | -6.0  | ⊙ | ↗      | NE  | 8.0  | 10  | 10  | 5Sc, 10Ac             |
| 27-Dec-00 | 06:00 | S16     | 931 | -5.5  | ⊙ |        | NE  | 7.0  | 20  | 10  | 5Sc, 10Ac             |
| 27-Dec-00 | 07:00 | S16     | 931 | -5.0  | ⊙ | ↗      | ENE | 8.0  | 10  | 10  | 1Cu, 8Sc, 10Ac        |
| 27-Dec-00 | 08:00 | S16     | 930 | -4.5  | ⊙ | ↗      | ENE | 8.0  | 10  | 10  | 10Sc                  |
| 27-Dec-00 | 09:00 | S16     | 930 | -3.5  | ⊙ |        | ENE | 6.0  | 20  | 10- | 6Sc, 10-Ac            |
| 27-Dec-00 | 10:00 | S16     | 931 | -3.0  | ⊙ |        | ENE | 7.0  | 30  | 10- | 4Sc, 10-Ac            |
| 27-Dec-00 | 11:00 | S16     | 932 | -2.0  | ⊙ |        | ENE | 8.0  | 30  | 10- | 4Sc, 10-Ac            |
| 27-Dec-00 | 12:00 | S16     | 931 | -2.0  | ⊙ |        | ENE | 7.0  | 20  | 10- | 6Sc, 10-Ac            |
| 27-Dec-00 | 13:00 | S16     | 932 | -0.5  | ⊕ |        | NE  | 5.0  | 30  | 8   | 0+Cu, 2Sc, 8Ac        |
| 27-Dec-00 | 14:00 | S16     | 932 | -1.0  | ⊕ |        | NE  | 5.0  | 30  | 8   | 0+Cu, 8Ac             |
| 27-Dec-00 | 15:00 | S16     | 933 | -1.0  | ⊕ |        | NNE | 2.0  | 30  | 8   | 0+Cu, 8Ac, 1Ci        |
| 27-Dec-00 | 16:00 | S16     | 933 | -0.5  | ⊕ |        | -   | 0.0  | 30  | 8   | 0+Cu, 8Ac             |
| 27-Dec-00 | 20:00 | S16     | 927 | -3.5  | ⊕ |        | ENE | 4.0  | 30  | 9   | 0+Cu, 3Ac, 9Ci        |
| 28-Dec-00 | 05:00 | S16     | 925 | -6.0  | ⊕ |        | ENE | 7.0  | 30  | 10- | 0+Cu, 6Ac, 10-Ci      |
| 28-Dec-00 | 06:00 | S16     | 926 | -5.5  | ⊕ |        | E   | 6.0  | 30  | 10- | 0+Cu, 1Sc, 6Ac, 10-Ci |
| 28-Dec-00 | 07:00 | S16     | 926 | -4.5  | ⊕ | ↗      | ENE | 11.0 | 30  | 10- | 1Sc, 3Ac, 10-Ci       |
| 28-Dec-00 | 08:00 | S16     | 925 | -3.5  | ⊕ | ↗      | ENE | 10.0 | 30  | 10- | 1Sc, 3Ac, 10-Ci       |
| 28-Dec-00 | 09:00 | S16     | 925 | -3.0  | ⊕ | ↗      | E   | 9.0  | 20  | 10- | 3Ac, 10-Ci            |
| 28-Dec-00 | 10:00 | S16     | 925 | -2.0  | ⊕ |        | ENE | 8.0  | 30  | 9   | 0+Sc, 3Ac, 9Ci        |
| 28-Dec-00 | 11:00 | S16     | 925 | -1.5  | ⊕ | ↗      | ENE | 11.0 | 30  | 8   | 4Ac, 7Ci              |
| 28-Dec-00 | 12:00 | S16     | 925 | -2.0  | ⊕ | ↗      | ENE | 11.0 | 30  | 9   | 4Ac, 9Ci              |
| 28-Dec-00 | 13:00 | S16     | 925 | -2.0  | ⊕ | ↗      | ENE | 9.0  | 30  | 7   | 3Ac, 6Ci              |
| 28-Dec-00 | 14:00 | S16     | 925 | -1.0  | ⊕ | ↗      | ENE | 11.0 | 30  | 6   | 3Ac, 3Ci              |
| 28-Dec-00 | 20:00 | S16     | 925 | -3.0  | ⊕ |        | E   | 9.0  | 30  | 10- | 6Ac, 1Cc, 10-Ci       |
| 29-Dec-00 | 08:00 | S16     | 924 | -3.5  | ⊕ | ↗      | E   | 10.0 | 2.5 | 10- | 0+Cu, 5Ac, 10-Ci      |
| 29-Dec-00 | 15:00 | S16     | 923 | -1.5  | ⊕ | ↗      | ENE | 12.0 | 2.5 | 10- | 5Ac, 10-Ci            |
| 29-Dec-00 | 20:00 | S16     | 927 | -3.5  | ⊙ |        | E   | 10.0 | 20  | 10- | 2Sc, 10-Ac            |
| 30-Dec-00 | 08:00 | S16     | 925 | -2.5  | ⊕ | ↗      | ENE | 9.0  | 30  | 10- | 0+Cu, 6Ac, 10-Ci      |
| 30-Dec-00 | 15:00 | S25     | 890 | -3.5  | ⊕ |        | ENE | 8.0  | 30  | 7   | 1Cu, 3Ac, 6Ci         |
| 30-Dec-00 | 20:00 | H64     | 856 | -3.0  | ⊕ |        | E   | 6.0  | 30  | 10- | 0+Cu, 6Ac, 10-Ci      |
| 31-Dec-00 | 08:00 | H64     | 856 | -8.0  | ⊕ |        | E   | 8.0  | 30  | 5   | 2Ac, 3Ci              |
| 31-Dec-00 | 15:00 | H144    | 831 | -7.0  | ○ |        | NE  | 8.0  | 30  | 1   | 1Ci                   |
| 31-Dec-00 | 20:00 | H176    | 818 | -11.0 | ○ |        | ESE | 3.0  | 30  | 1   | 1Ci                   |
| 1-Jan-01  | 08:00 | H176    | 816 | -12.5 | ○ |        | ENE | 6.0  | 30  | 0+  | 0+Ci                  |
| 1-Jan-01  | 15:00 | H220    | 806 | -8.0  | ○ |        | ENE | 3.0  | 30  | 0   | -                     |
| 1-Jan-01  | 20:00 | H260    | 795 | -11.0 | ○ |        | -   | 0.0  | 30  | 0+  | 0+Ci                  |
| 2-Jan-01  | 08:00 | H260    | 795 | -14.5 | ○ |        | E   | 7.0  | 30  | 0   | -                     |
| 2-Jan-01  | 15:00 | Z20     | 769 | -11.0 | ○ |        | E   | 6.0  | 30  | 0   | -                     |
| 2-Jan-01  | 20:00 | Z66     | 755 | -16.0 | ○ |        | E   | <3   | 30  | 0+  | 0+Ac                  |
| 3-Jan-01  | 08:30 | Z66     | 754 | -17.0 | ○ |        | ESE | 6.0  | 30  | 0+  | 0+Ac                  |
| 3-Jan-01  | 15:00 | Mizuho  | 745 | -12.0 | ○ |        | E   | 7.0  | 30  | 1   | 1Cu, 0+Ci             |
| 3-Jan-01  | 20:00 | Mizuho  | 745 | -16.0 | ✱ |        | N   | <3   | 30  | 8   | 0+As, 8Ac             |
| 4-Jan-01  | 08:00 | Mizuho  | 746 | -16.0 | ✱ |        | N   | <3   | 30  | 10  | 10Ac                  |
| 4-Jan-01  | 15:00 | Mizuho  | 746 | -14.0 | ⊙ |        | NNE | 3.0  | 20  | 10  | 10Ac                  |
| 4-Jan-01  | 20:00 | MD22    | 739 | -16.0 | ✱ |        | N   | <3   | 30  | 10- | 10-Ac                 |
| 5-Jan-01  | 08:00 | MD22    | 737 | -15.5 | ⊙ |        | SE  | 3.0  | 20  | 10- | 10-Ac                 |

| Date      | LT    | Station   | Pa  | Ta    | W | Hydro. | WD  | WS   | V   | N   | CL             |
|-----------|-------|-----------|-----|-------|---|--------|-----|------|-----|-----|----------------|
| 5-Jan-01  | 15:00 | MD54      | 727 | -15.0 | ⊙ |        | SE  | <3   | 30  | 3   | 3Ac, 0+Ci      |
| 5-Jan-01  | 20:00 | MD80      | 719 | -19.5 | ○ |        | SE  | <3   | 30  | 1   | 1Ac            |
| 6-Jan-01  | 08:00 | MD80      | 716 | -22.0 | ⊙ |        | E   | 3.0  | 30  | 2   | 0+Cu, 2Ac, 1Ci |
| 6-Jan-01  | 15:00 | MD113     | 707 | -16.5 | ⊙ |        | -   | 0.0  | 30  | 2   | 2Cu            |
| 6-Jan-01  | 20:00 | MD132     | 702 | -20.5 | ⊙ |        | -   | 0.0  | 20  | 2   | 2Cu            |
| 7-Jan-01  | 08:00 | MD132     | 705 | -20.5 | × |        | ESE | <3   | 20  | 10- | 0+Sc, 10-As    |
| 7-Jan-01  | 15:00 | MD158     | 698 | -17.0 | × |        | E   | 3.0  | 10  | 10- | 10-Ac          |
| 7-Jan-01  | 20:00 | MD182     | 689 | -19.5 | ⊙ |        | SE  | 3.0  | 30  | 4   | 2Sc, 2Ac       |
| 8-Jan-01  | 08:00 | MD182     | 687 | -20.5 | ⊙ | ↗      | ESE | 7.0  | 20  | 3   | 2Ac, 1Ci       |
| 8-Jan-01  | 15:00 | MD216     | 677 | -18.0 | ⊙ | ↗      | ESE | 10.0 | 10  | 6   | 0+Cu, 6Ci      |
| 8-Jan-01  | 20:00 | MD240     | 670 | -21.0 | ↗ |        | ESE | 9.0  | 0.8 | 10- | 10-Ci          |
| 9-Jan-01  | 08:00 | MD240     | 671 | -24.0 | ↗ |        | ESE | 11.0 | 0.1 | 10  | 10↗            |
| 9-Jan-01  | 12:20 | MD240     | 672 | -19.4 | ↗ |        | ESE | 13.0 | 0.2 | 10  | 10↗            |
| 9-Jan-01  | 15:00 | MD240     | 673 | -19.4 | ↗ |        | ESE | 11.0 | 0.1 | 10  | 10↗            |
| 9-Jan-01  | 20:00 | MD240     | 675 | -20.5 | ↗ |        | ESE | 9.0  | 0.2 | 10  | 10↗            |
| 10-Jan-01 | 08:00 | MD240     | 678 | -22.0 | ⊙ |        | ESE | 9.0  | 10  | 8   | 8Ci            |
| 10-Jan-01 | 15:00 | MD276     | 668 | -19.0 | ⊙ |        | ESE | 8.0  | 20  | 10- | 10-Ci          |
| 10-Jan-01 | 20:00 | MD304     | 659 | -22.7 | ⊙ |        | ESE | 7.0  | 20  | 10- | 3CS, 10-Ci     |
| 11-Jan-01 | 08:00 | MD304     | 659 | -26.0 | ⊙ | ↗      | E   | 6.0  | 30  | 9   | 0+Cc, 9Ci      |
| 11-Jan-01 | 15:00 | MD342     | 649 | -20.7 | ⊙ | ↗      | E   | 7.0  | 30  | 4   | 0+Cc, 4Ci      |
| 11-Jan-01 | 20:00 | MD364     | 643 | -22.6 | ⊙ | ↗      | ESE | 6.0  | 30  | 8   | 0+Cc, 8Ci      |
| 12-Jan-01 | 08:00 | MD364     | 643 | -27.5 | ⊙ | ↗      | ESE | 9.0  | 10  | 10- | 10-Ci          |
| 12-Jan-01 | 15:00 | MD366     | 642 | -23.0 | ↗ |        | ESE | 10.0 | 0.6 | 10- | 10-Ci          |
| 12-Jan-01 | 20:00 | MD392     | 637 | -25.8 | ⊙ | ↗      | E   | 7.0  | 2.5 | 10- | 10-Ci          |
| 13-Jan-01 | 08:00 | MD392     | 639 | -28.5 | ⊙ | ↗      | E   | 6.0  | 10  | 2   | 2Ci            |
| 13-Jan-01 | 15:00 | MD430     | 632 | -23.8 | ⊙ | ↗      | E   | 8.0  | 1   | 10- | 10-Ci          |
| 13-Jan-01 | 20:00 | MD462     | 627 | -26.9 | ⊙ | ↗      | ESE | 7.0  | 2.5 | 10  | 2As, 10Cs      |
| 14-Jan-01 | 08:00 | MD462     | 625 | -30.7 | ⊙ | ↗      | ESE | 7.0  | 10  | 2   | 2Ci            |
| 14-Jan-01 | 15:00 | MD510     | 620 | -25.6 | ○ | ↗      | ESE | 11.0 | 20  | 0   | -              |
| 14-Jan-01 | 20:00 | MD540     | 617 | -28.0 | ○ | ↗      | E   | 6.0  | 20  | 0   | -              |
| 15-Jan-01 | 08:00 | MD540     | 616 | -31.0 | ○ | ↗      | ESE | 8.0  | 1   | 1   | 1Cs            |
| 15-Jan-01 | 15:00 | MD572     | 613 | -25.0 | ⊙ | ↗      | ESE | 7.0  | 20  | 5   | 5Ci            |
| 15-Jan-01 | 20:00 | MD598     | 610 | -29.1 | ⊙ | ↗,↖    | ESE | 5.0  | 20  | 7   | 7Ci            |
| 16-Jan-01 | 08:00 | MD598     | 613 | -32.0 | ○ | ↖      | E   | 6.0  | 10  | 1   | 1Ci            |
| 16-Jan-01 | 15:00 | MD642     | 611 | -26.0 | ⊙ | ↖      | E   | 7.0  | 20  | 6   | 6Ci            |
| 16-Jan-01 | 20:00 | MD676     | 610 | -29.8 | ⊙ |        | E   | 3.0  | 30  | 2   | 0+Ac, 2Ci      |
| 17-Jan-01 | 08:00 | MD676     | 610 | -32.5 | ⊙ |        | ESE | 3.0  | 20  | 2   | 0+Ac, 2Cs      |
| 17-Jan-01 | 15:00 | MD732     | 608 | -26.0 | ⊙ |        | E   | 4.0  | 20  | 10- | 10-Ci          |
| 17-Jan-01 | 20:00 | Dome Fuji | 607 | -29.5 | ⊙ | ↖      | E   | 5.0  | 20  | 10- | 10-Ci          |
| 18-Jan-01 | 08:00 | Dome Fuji | 607 | -33.3 | ⊙ | ↖      | E   | 4.0  | 20  | 10- | 10-Ci          |
| 18-Jan-01 | 15:00 | Dome Fuji | 608 | -28.0 | ⊙ | ↗,↖    | NE  | 6.0  | 20  | 2   | 2Ci            |
| 18-Jan-01 | 20:00 | Dome Fuji | 609 | -30.5 | ⊙ |        | NNE | 3.0  | 30  | 8   | 8Ac            |
| 19-Jan-01 | 08:00 | Dome Fuji | 611 | -32.3 | ⊙ |        | N   | <3   | 30  | 4   | 4Cs            |
| 19-Jan-01 | 15:00 | Dome Fuji | 613 | -25.5 | ⊙ |        | NNE | 3.0  | 30  | 3   | 0+Cs, 3Ci      |
| 19-Jan-01 | 20:00 | Dome Fuji | 613 | -30.0 | ⊙ |        | ESE | <3   | 30  | 2   | 2Ci            |
| 20-Jan-01 | 08:00 | Dome Fuji | 613 | -30.2 | ⊙ |        | ESE | <3   | 30  | 10  | 1As, 10Cs      |
| 20-Jan-01 | 15:00 | Dome Fuji | 613 | -24.5 | ⊙ |        | N   | 4.0  | 30  | 10  | 10Cs           |
| 20-Jan-01 | 20:00 | Dome Fuji | 612 | -28.2 | ⊙ |        | NE  | <3   | 30  | 10- | 10-Ci          |
| 21-Jan-01 | 08:00 | Dome Fuji | 612 | -30.8 | ⊙ |        | NE  | <3   | 30  | 9   | 1Cs, 9Ci       |
| 21-Jan-01 | 15:00 | MD674     | 615 | -24.5 | ⊙ |        | ENE | <3   | 30  | 2   | 2Ci            |
| 21-Jan-01 | 20:00 | MD630     | 617 | -30.1 | ○ |        | SSE | <3   | 30  | 1   | 1Ci            |
| 22-Jan-01 | 08:00 | MD630     | 615 | -32.0 | ⊙ |        | SE  | 3.0  | 30  | 2   | 2Ci            |
| 22-Jan-01 | 15:00 | MD566     | 620 | -24.0 | ○ |        | ESE | 5.0  | 30  | 0+  | 0+Ci           |

| Date      | LT    | Station | Pa  | Ta    | W | Hydro. | WD  | WS   | V   | N   | CL             |
|-----------|-------|---------|-----|-------|---|--------|-----|------|-----|-----|----------------|
| 22-Jan-01 | 20:00 | MD524   | 623 | -27.5 | ○ |        | SSE | 5.0  | 30  | 0+  | 0+Ci           |
| 23-Jan-01 | 08:00 | MD524   | 620 | -32.5 | ○ | ↗,↖    | SE  | 8.0  | 2.5 | 0   | -              |
| 23-Jan-01 | 15:00 | MD466   | 625 | -27.0 | ↗ |        | ENE | 8.0  | 0.8 | 0   | -              |
| 23-Jan-01 | 20:00 | MD424   | 630 | -30.0 | ○ | ↗      | ESE | 6.0  | 20  | 0   | -              |
| 24-Jan-01 | 08:00 | MD424   | 634 | -32.2 | ⊕ | ↗      | ESE | 6.0  | 2.5 | 10- | 10-Cc, 6Cs     |
| 24-Jan-01 | 15:00 | MD370   | 644 | -24.0 | ⊕ | ↗      | ESE | 7.0  | 20  | 10- | 1Cs, 10-Ci     |
| 24-Jan-01 | 20:00 | MD364   | 645 | -28.2 | ⊕ |        | SE  | 5.0  | 30  | 10- | 1Cs, 10-Ci     |
| 25-Jan-01 | 08:00 | MD364   | 641 | -32.0 | ○ | ↗      | SE  | 9.0  | 20  | 1   | 1Ci            |
| 25-Jan-01 | 15:00 | MD364   | 639 | -25.8 | ○ | ↗      | SE  | 8.0  | 20  | 0+  | 0+Ci           |
| 25-Jan-01 | 20:00 | MD364   | 637 | -28.2 | ○ |        | ESE | 6.0  | 30  | 0   | -              |
| 26-Jan-01 | 08:00 | MD364   | 634 | -32.5 | ⊙ | ↗      | SE  | 7.0  | 1   | 10- | 10-St          |
| 26-Jan-01 | 15:00 | MD364   | 634 | -24.5 | ⊕ |        | ESE | 6.0  | 30  | 8   | 8Ac            |
| 26-Jan-01 | 20:00 | MD364   | 636 | -27.2 | ⊙ |        | ESE | 3.0  | 30  | 10- | 10-Sc          |
| 27-Jan-01 | 08:00 | MD364   | 641 | -31.0 | ⊕ |        | SSE | 4.0  | 30  | 7   | 7Ac            |
| 27-Jan-01 | 16:00 | MD364   | 645 | -23.5 | ○ |        | SE  | <3   | 30  | 1   | 1Cu, 0+Ac      |
| 27-Jan-01 | 20:00 | MD364   | 647 | -27.0 | ○ |        | SE  | <3   | 30  | 1   | 1Ac            |
| 28-Jan-01 | 08:00 | MD364   | 648 | -32.5 | ○ |        | SW  | 5.0  | 30  | 1   | 1Ac            |
| 28-Jan-01 | 15:00 | MD364   | 647 | -25.5 | ○ | ↔      | E   | 5.0  | 30  | 1   | 0+Cc, 1Ci      |
| 28-Jan-01 | 20:00 | MD364   | 646 | -29.5 | ○ |        | ESE | 5.0  | 30  | 0+  | 0+Ac           |
| 29-Jan-01 | 08:00 | MD364   | 642 | -30.0 | ○ | ↗      | SE  | 7.0  | 2.5 | 0   | -              |
| 29-Jan-01 | 15:00 | MD364   | 643 | -24.3 | ⊕ | ↗      | ESE | 7.0  | 1   | 10- | 10-Ci          |
| 29-Jan-01 | 20:00 | MD364   | 642 | -27.0 | ⊙ | ↗      | ESE | 9.0  | 10  | 9   | 9Ac            |
| 30-Jan-01 | 08:00 | MD364   | 643 | -31.0 | ⊕ | ↗      | ESE | 7.0  | 20  | 10- | 10-Ci          |
| 30-Jan-01 | 15:00 | MD364   | 645 | -24.8 | ⊕ | ↗      | ESE | 8.0  | 20  | 9   | 2Cs, 7Ci       |
| 30-Jan-01 | 20:00 | MD364   | 645 | -29.5 | ⊕ | ↗      | ESE | 8.0  | 20  | 10- | 0+Ac, 10-Ci    |
| 31-Jan-01 | 08:00 | MD364   | 648 | -33.2 | ⊕ |        | SSE | 6.0  | 30  | 3   | 0+Ac, 3Ci      |
| 31-Jan-01 | 15:00 | MD320   | 659 | -25.5 | ○ |        | SE  | 7.0  | 30  | 1   | 1Ac, 0+Ci      |
| 31-Jan-01 | 20:00 | MD290   | 666 | -28.5 | ○ |        | SSE | 3.0  | 30  | 1   | 1Ac            |
| 1-Feb-01  | 08:00 | MD290   | 667 | -30.5 | ⊕ | ↗      | ESE | 6.0  | 20  | 3   | 3Ac            |
| 1-Feb-01  | 15:00 | MD248   | 678 | -22.5 | ⊕ |        | E   | <3   | 20  | 8   | 8Ac            |
| 1-Feb-01  | 20:00 | MD220   | 687 | -26.5 | ○ |        | SE  | 3.0  | 30  | 1   | 1Ac            |
| 2-Feb-01  | 08:00 | MD220   | 687 | -29.0 | ○ |        | ESE | 5.0  | 30  | 1   | 1Ci            |
| 2-Feb-01  | 15:00 | MD180   | 700 | -21.0 | ○ |        | E   | 7.0  | 30  | 1   | 1Ci            |
| 2-Feb-01  | 20:00 | MD150   | 711 | -23.5 | ⊕ |        | ESE | 5.0  | 30  | 8   | 8Ci            |
| 3-Feb-01  | 08:00 | MD150   | 711 | -26.5 | ⊕ | ↗      | ESE | 8.0  | 30  | 8   | 8Ci            |
| 3-Feb-01  | 15:00 | MD108   | 723 | -18.5 | ⊕ |        | E   | 8.0  | 30  | 3   | 3Ci            |
| 3-Feb-01  | 20:00 | MD76    | 734 | -21.5 | ⊕ |        | ESE | 5.0  | 30  | 8   | 1As, 8Ci       |
| 4-Feb-01  | 08:00 | MD76    | 734 | -27.3 | ○ |        | ESE | 10.0 | 30  | 1   | 1Ci            |
| 4-Feb-01  | 15:00 | MD30    | 736 | -17.2 | ○ | ↗      | ESE | 11.0 | 20  | 1   | 0+Ac, 1Ci      |
| 4-Feb-01  | 20:00 | Mizuho  | 741 | -20.0 | ○ |        | ESE | 10.0 | 10  | 0+  | 0+Ci           |
| 5-Feb-01  | 08:00 | Mizuho  | 738 | -19.0 | ⊙ |        | E   | 12.0 | 10  | 10- | 10-Ac          |
| 5-Feb-01  | 15:00 | Z88     | 747 | -14.5 | ⊙ |        | NE  | 8.0  | 10  | 10  | 8SC, 10Ac      |
| 5-Feb-01  | 20:00 | Z36     | 756 | -15.3 | ⊕ |        | ENE | 5.0  | 20  | 8   | 8Ac            |
| 6-Feb-01  | 08:00 | Z36     | 759 | -21.0 | ○ | ↗      | E   | 11.0 | 20  | 0   | -              |
| 6-Feb-01  | 15:00 | H268    | 790 | -12.5 | ○ | ↗      | ENE | 9.0  | 20  | 0   | -              |
| 6-Feb-01  | 20:00 | H192    | 814 | -14.5 | ⊕ |        | ENE | 5.0  | 30  | 2   | 2Ci            |
| 7-Feb-01  | 08:00 | H192    | 817 | -15.5 | ⊕ |        | ENE | 10.0 | 30  | 10- | 10-Ci          |
| 7-Feb-01  | 15:00 | H84     | 852 | -6.8  | ⊕ |        | NE  | 8.0  | 30  | 8   | 8Ci            |
| 7-Feb-01  | 20:00 | H15     | 877 | -9.3  | ⊕ |        | ENE | 5.0  | 30  | 9   | 0+Cu, 1Ac, 9Ci |
| 8-Feb-01  | 08:00 | H15     | 878 | -12.1 | ⊕ |        | ENE | 9.0  | 30  | 3   | 0+Sc, 3Ac, 1Ci |
| 8-Feb-01  | 15:00 | S16     | 926 | -2.5  | ○ |        | SSW | 3.0  | 30  | 1   | 1SC, 1Ci       |
| 8-Feb-01  | 20:00 | S16     | 925 | -7.5  | ○ |        | E   | 5.0  | 30  | 1   | 1Sc            |
| 9-Feb-01  | 05:00 | S16     | 922 | -12.4 | ○ | ↗      | ESE | 10.0 | 20  | 1   | 1Sc            |

| Date      | LT    | Station | Pa  | Ta    | W | Hydro. | WD  | WS   | V  | N | CL        |
|-----------|-------|---------|-----|-------|---|--------|-----|------|----|---|-----------|
| 9-Feb-01  | 06:00 | S16     | 921 | -12.6 | ○ | ↓      | ESE | 10.0 | 20 | 1 | 1Sc       |
| 9-Feb-01  | 07:00 | S16     | 921 | -11.6 | ○ | ↓      | E   | 9.0  | 20 | 1 | 1Sc       |
| 9-Feb-01  | 08:00 | S16     | 922 | -10.5 | ○ | ↓      | E   | 10.0 | 20 | 1 | 1Sc       |
| 9-Feb-01  | 15:00 | S16     | 919 | -2.5  | ○ |        | ENE | 5.0  | 30 | 1 | 1Ac       |
| 9-Feb-01  | 20:00 | S16     | 916 | -5.5  | ○ |        | ENE | 6.0  | 30 | 1 | 1Ac       |
| 10-Feb-01 | 05:00 | S16     | 915 | -8.2  | ⊙ | ↓      | E   | 11.0 | 20 | 2 | 0+Ac, 2Ci |
| 10-Feb-01 | 06:00 | S16     | 915 | -7.5  | ⊙ | ↓      | E   | 10.0 | 20 | 2 | 0+Ac, 2Ci |
| 10-Feb-01 | 07:00 | S16     | 915 | -6.5  | ⊙ | ↓      | E   | 10.0 | 20 | 2 | 2Ac, 1Ci  |
| 10-Feb-01 | 08:00 | S16     | 915 | -6.0  | ⊙ |        | E   | 9.0  | 30 | 3 | 0+Ac, 3Ci |

Table 3-7. Meteorological data observed during the traverse between S16 and Relay Point (13-Aug-2001 to 24-Sep-2001).

| Date      | LT    | Station | Pa  | Ta    | W | Hydro. | WD  | WS | V   | N   | CL            |
|-----------|-------|---------|-----|-------|---|--------|-----|----|-----|-----|---------------|
| 13-Aug-01 | 18:00 | S16     | 916 | -21.9 | + |        | ENE | 9  | 1   | 10- | 1Sc,4Ac,10-Ci |
| 14-Aug-01 | 09:00 | S16     | 905 | -13.9 | * | +      | ENE | 16 | 0.1 | X   | X             |
| 14-Aug-01 | 17:30 | S16     | 905 | -13.9 | * | +      | ENE | 19 | 0   | X   | X             |
| 15-Aug-01 | 09:00 | S16     | 910 | -14.3 | + |        | ENE | 15 | 0.1 | X   | XAc,XCi       |
| 15-Aug-01 | 18:00 | S16     | 915 | -15.0 | + |        | E   | 9  | 1   | 10- | 9Sc,XCi       |
| 16-Aug-01 | 09:00 | S16     | 913 | -27.3 | ① |        | E   | 4  | 30  | 2   | 0+Sc,0+Ac,2Ci |
| 16-Aug-01 | 18:00 | H60     | 843 | -30.3 | ② |        | E   | 8  | 30  | 10- | 7Sc,10-Ci     |
| 17-Aug-01 | 00:00 | H60     | 848 | -35.1 | ○ |        | E   | 4  | 30  | 0+  | 0+Ci          |
| 17-Aug-01 | 09:00 | H60     | 853 | -28.9 | * |        | ENE | 4  | 20  | 10- | 10-Sc         |
| 17-Aug-01 | 18:00 | H184    | 810 | -38.9 | ○ | ↔      | E   | 5  | 10  | 0+  | 0+Ci          |
| 18-Aug-01 | 00:00 | H184    | 811 | -38.0 | ○ | ↔      | E   | 6  | 10  | 0+  | 0+Ci          |
| 18-Aug-01 | 09:00 | H184    | 812 | -31.9 | ② |        | E   | 8  | 10  | 9   | 7Sc,2Ac       |
| 18-Aug-01 | 13:00 | H240    | 798 | -33.7 | ② |        | E   | 5  | 1   | 10- | 2Sc,9Ac       |
| 18-Aug-01 | 18:00 | H293    | 776 | -35.6 | + |        | E   | 8  | 1   | 10- | 10-Sc         |
| 19-Aug-01 | 00:00 | H293    | 776 | -36.0 | + |        | E   | 9  | 0.5 | 0   | -             |
| 19-Aug-01 | 09:00 | H293    | 774 | -36.0 | + |        | E   | 11 | 0.5 | 10  | 10Sc          |
| 19-Aug-01 | 13:00 | Z26     | 754 | -35.9 | + |        | E   | 9  | 0.5 | 10  | 10As          |
| 19-Aug-01 | 18:00 | Z46     | 748 | -38.5 | + |        | E   | 8  | 0.1 | 10- | 10-Sc         |
| 20-Aug-01 | 00:00 | Z46     | 748 | -41.5 | + |        | E   | 7  | 0.1 | 0+  | 0+Ci          |
| 20-Aug-01 | 09:00 | Z46     | 749 | -47.0 | + |        | E   | 7  | 0.5 | 0+  | 0+Ci          |
| 20-Aug-01 | 13:00 | Z90     | 743 | -44.7 | ○ | +      | E   | 8  | 10  | 0   | -             |
| 20-Aug-01 | 18:00 | IM0     | 738 | -48.9 | + |        | E   | 11 | 0.5 | 0   | -             |
| 21-Aug-01 | 00:00 | IM0     | 736 | -49.0 | + |        | E   | 10 | 0.1 | 0   | -             |
| 21-Aug-01 | 09:00 | IM0     | 735 | -45.0 | + |        | E   | 12 | 0.1 | 10- | 2Ac,10-Ci     |
| 21-Aug-01 | 12:00 | IM0     | 729 | -41.5 | + |        | ESE | 13 | 0.1 | 10- | 4Ac,10-As     |
| 21-Aug-01 | 18:00 | IM0     | 729 | -35.5 | * | +      | E   | 15 | 0   | X   | X             |
| 22-Aug-01 | 09:00 | IM0     | 730 | -30.5 | * | +      | E   | 16 | 0   | X   | X             |
| 22-Aug-01 | 15:00 | IM0     | 730 | -30.5 | * | +      | E   | 13 | 0   | X   | X             |
| 22-Aug-01 | 18:00 | IM0     | 732 | -30.4 | * | +      | E   | 20 | 0   | X   | X             |
| 23-Aug-01 | 07:10 | IM0     | 738 | -35.2 | + |        | ESE | 11 | 0.1 | X   | XAc,XCi       |
| 23-Aug-01 | 09:00 | IM0     | 735 | -34.0 | * | +      | ESE | 15 | 0.1 | X   | X             |
| 23-Aug-01 | 18:00 | IM0     | 734 | -34.5 | * | +      | ESE | 16 | 0   | X   | X             |
| 24-Aug-01 | 07:30 | IM0     | 731 | -33.8 | + |        | ESE | 15 | 0   | X   | X             |
| 24-Aug-01 | 09:00 | IM0     | 732 | -33.2 | + |        | ESE | 15 | 0   | X   | X             |
| 24-Aug-01 | 15:00 | IM0     | 729 | -33.5 | + |        | ESE | 14 | 0.1 | X   | XAc,XCi       |
| 24-Aug-01 | 18:00 | IM0     | 729 | -33.6 | + |        | ESE | 13 | 0.1 | X   | XAc,XCi       |
| 25-Aug-01 | 09:00 | IM0     | 740 | -34.9 | + |        | ESE | 12 | 0.5 | 10  | 10Ac          |
| 25-Aug-01 | 18:00 | MD38    | 730 | -36.0 | + |        | ESE | 10 | 0.1 | 10- | 4Ac,10-Ci     |
| 26-Aug-01 | 08:45 | MD38    | 727 | -37.5 | ② | +      | E   | 8  | 10  | 10- | 10-Sc         |
| 26-Aug-01 | 13:00 | MD68    | 719 | -36.9 | ② |        | E   | 6  | 10  | 10- | 8As,10-Ci     |
| 26-Aug-01 | 18:00 | MD94    | 711 | -44.5 | ① |        | SE  | 6  | 10  | 3   | 0+Sc,3Ci      |
| 27-Aug-01 | 09:00 | MD94    | 708 | -49.2 | ○ |        | SE  | 7  | 10  | 0+  | 0+Ci          |
| 27-Aug-01 | 13:30 | MD120   | 697 | -46.5 | ○ |        | SE  | 6  | 10  | 0+  | 0+Ci          |
| 27-Aug-01 | 18:00 | MD138   | 692 | -50.2 | ○ |        | SE  | 6  | 10  | 0+  | 0+Ci          |
| 28-Aug-01 | 09:00 | MD138   | 696 | -51.3 | + |        | ESE | 11 | 0.1 | 0+  | 0+Ci          |
| 28-Aug-01 | 13:10 | MD158   | 687 | -48.5 | + |        | ESE | 9  | 0.1 | 10- | 10-Ci         |
| 28-Aug-01 | 18:00 | MD172   | 684 | -48.2 | + |        | ESE | 7  | 0.1 | 10- | 10-Ci         |
| 29-Aug-01 | 09:00 | MD172   | 684 | -49.0 | + |        | ESE | 9  | 0.1 | 3   | 1As,2Ci       |
| 29-Aug-01 | 12:00 | MD198   | 672 | -48.2 | + |        | SE  | 10 | 0.5 | 2   | 2Ci           |
| 29-Aug-01 | 20:00 | MD220   | 662 | -53.3 | + |        | SE  | 10 | 0.5 | 2   | 2Ci           |
| 30-Aug-01 | 09:00 | MD220   | 657 | -53.2 | + |        | SE  | 11 | 0.1 | 10- | 10-Ci         |

| Date      | LT    | Station | Pa  | Ta    | W | Hydro. | WD  | WS | V   | N   | CL        |
|-----------|-------|---------|-----|-------|---|--------|-----|----|-----|-----|-----------|
| 30-Aug-01 | 14:20 | MD244   | 647 | -52.0 | ↑ |        | SE  | 15 | 0.1 | 10- | 10-Ci     |
| 30-Aug-01 | 18:00 | MD258   | 644 | -53.1 | ↑ |        | SE  | 11 | 0.1 | 10- | 10-Ci     |
| 31-Aug-01 | 09:00 | MD258   | 647 | -57.4 | ↑ |        | SE  | 11 | 0.5 | 0+  | 0+Ci      |
| 31-Aug-01 | 13:00 | MD274   | 643 | -57.2 | ↑ |        | ESE | 11 | 0.5 | 0   | -         |
| 31-Aug-01 | 19:00 | MD294   | 638 | -59.4 | ↑ |        | ESE | 10 | 0.5 | 0   | -         |
| 01-Sep-01 | 09:00 | MD294   | 643 | -57.4 | ↑ |        | SE  | 10 | 0.5 | 0   | -         |
| 01-Sep-01 | 13:10 | MD316   | 638 | -55.4 | ↑ |        | SE  | 7  | 1   | 0   | -         |
| 01-Sep-01 | 18:00 | MD316   | 638 | -58.6 | ↑ |        | SE  | 9  | 0.5 | 0   | -         |
| 02-Sep-01 | 09:00 | MD316   | 636 | -60.8 | ↑ |        | SE  | 10 | 0.5 | 0   | -         |
| 02-Sep-01 | 15:00 | MD316   | 635 | -58.2 | ↑ |        | SE  | 10 | 0.1 | 0   | -         |
| 02-Sep-01 | 18:00 | MD316   | 635 | -59.0 | ↑ |        | SE  | 9  | 0.1 | 0   | -         |
| 03-Sep-01 | 09:00 | MD316   | 636 | -58.2 | ↑ |        | SE  | 8  | 1   | 10- | 3Ac,10-Ci |
| 03-Sep-01 | 13:00 | MD320   | 632 | -56.5 | ↑ |        | SE  | 7  | 1   | 8   | 0+Ac,8Ci  |
| 03-Sep-01 | 19:00 | MD320   | 633 | -59.6 | ○ | ↑      | SE  | 7  | 10  | 0+  | 0+Ci      |
| 04-Sep-01 | 09:00 | MD320   | 638 | -59.0 | ○ |        | SE  | 7  | 10  | 0+  | 0+Ci      |
| 04-Sep-01 | 13:00 | MD344   | 631 | -59.9 | ⊙ |        | SE  | 6  | 10  | 8   | 8Ci       |
| 04-Sep-01 | 18:00 | MD364   | 628 | -62.0 | ⊙ |        | SSE | 6  | 10  | 2   | 2Ci       |
| 05-Sep-01 | 09:00 | MD364   | 628 | -61.7 | ○ |        | SE  | 6  | 10  | 0+  | 0+Ac,0+Ci |
| 05-Sep-01 | 18:00 | MD364   | 628 | -60.7 | ○ |        | SE  | 8  | 10  | 0+  | 0+Ci      |
| 06-Sep-01 | 09:00 | MD364   | 624 | -59.2 | ↑ |        | SSE | 12 | 0.1 | 10- | 10-Ci     |
| 06-Sep-01 | 18:00 | MD364   | 623 | -55.9 | × | ↑      | S   | 16 | 0   | X   | X         |
| 07-Sep-01 | 09:00 | MD364   | 626 | -55.3 | × | ↑      | SSE | 13 | 0   | X   | XAc       |
| 07-Sep-01 | 18:00 | MD364   | 627 | -51.0 | × | ↑      | SSE | 13 | 0   | X   | X         |
| 08-Sep-01 | 09:00 | MD364   | 627 | -44.3 | × | ↑      | ESE | 12 | 0   | X   | X         |
| 08-Sep-01 | 18:00 | MD364   | 628 | -43.5 | × | ↑      | ESE | 14 | 0   | X   | X         |
| 09-Sep-01 | 09:00 | MD364   | 635 | -57.9 | ↑ |        | SE  | 9  | 0.1 | 10- | 10-Ci     |
| 09-Sep-01 | 18:00 | MD322   | 647 | -49.5 | ↑ |        | SE  | 10 | 1   | 0+  | 0+Ci      |
| 10-Sep-01 | 09:00 | MD322   | 647 | -49.5 | ↑ |        | SE  | 11 | 0.1 | 0+  | 0+Ci      |
| 10-Sep-01 | 13:00 | MD298   | 650 | -46.9 | ↑ |        | SE  | 10 | 0.1 | 0   | -         |
| 10-Sep-01 | 18:00 | MD274   | 657 | -45.0 | ↑ |        | SE  | 14 | 0.1 | 0   | -         |
| 11-Sep-01 | 09:00 | MD274   | 653 | -46.2 | × | ↑      | SE  | 16 | 0   | X   | XAs       |
| 11-Sep-01 | 18:00 | MD274   | 653 | -48.5 | × | ↑      | SE  | 16 | 0   | X   | X         |
| 12-Sep-01 | 09:00 | MD274   | 655 | -42.0 | × | ↑      | SE  | 15 | 0   | X   | XAc,XCi   |
| 12-Sep-01 | 13:00 | MD258   | 658 | -38.5 | ↑ |        | SE  | 14 | 0   | X   | XCi       |
| 12-Sep-01 | 18:00 | MD244   | 663 | -41.5 | ↑ |        | SE  | 16 | 0   | X   | XAc,XCi   |
| 13-Sep-01 | 09:00 | MD244   | 659 | -41.5 | ↑ |        | SE  | 15 | 0   | X   | XAc,XCi   |
| 13-Sep-01 | 12:00 | MD244   | 659 | -39.5 | ↑ |        | SE  | 16 | 0   | X   | XAc,XCi   |
| 13-Sep-01 | 18:00 | MD244   | 659 | -41.6 | × | ↑      | SE  | 16 | 0   | X   | XAc       |
| 14-Sep-01 | 09:00 | MD244   | 655 | -46.5 | × | ↑      | SE  | 15 | 0.1 | X   | X         |
| 14-Sep-01 | 13:00 | MD222   | 662 | -44.5 | ↑ |        | SE  | 14 | 0.1 | X   | XCi       |
| 14-Sep-01 | 18:00 | MD188   | 674 | -44.1 | ↑ |        | SSE | 12 | 0.1 | X   | XAc,XCi   |
| 15-Sep-01 | 09:00 | MD188   | 675 | -46.7 | ○ |        | ESE | 8  | 10  | 0   | -         |
| 15-Sep-01 | 13:00 | MD158   | 686 | -42.5 | ⊙ |        | SE  | 5  | 10  | 8   | 8Ci       |
| 15-Sep-01 | 18:00 | MD140   | 690 | -47.5 | ○ |        | SE  | 9  | 10  | 0   | -         |
| 16-Sep-01 | 09:00 | MD140   | 686 | -49.0 | ○ | ↑      | SE  | 11 | 10  | 0   | -         |
| 16-Sep-01 | 13:00 | MD110   | 690 | -45.0 | ○ | ↑      | ESE | 11 | 10  | 0   | -         |
| 16-Sep-01 | 18:00 | MD86    | 700 | -47.5 | ○ | ↑      | ESE | 11 | 10  | 0+  | 0+Ac,0+Ci |
| 17-Sep-01 | 09:00 | MD86    | 700 | -50.4 | ○ |        | ESE | 7  | 10  | 0   | -         |
| 17-Sep-01 | 13:00 | MD56    | 710 | -45.1 | ⊙ |        | ESE | 8  | 20  | 10- | 10-Ci     |
| 17-Sep-01 | 18:00 | MD24    | 719 | -42.6 | × |        | E   | 6  | 10  | 10- | 8Ac,XCi   |
| 18-Sep-01 | 09:00 | MD24    | 719 | -42.4 | ↑ |        | E   | 9  | 1   | 10- | 10-Ci     |
| 18-Sep-01 | 13:00 | IM1     | 724 | -36.5 | ↑ |        | E   | 10 | 1   | 10- | 10-Ci     |
| 18-Sep-01 | 18:00 | IM1     | 722 | -35.5 | × | ↑      | E   | 13 | 0.1 | 10  | 10Ac      |

| Date      | LT    | Station | Pa  | Ta    | W | Hydro. | WD  | WS | V   | N   | CL             |
|-----------|-------|---------|-----|-------|---|--------|-----|----|-----|-----|----------------|
| 19-Sep-01 | 09:00 | IM1     | 725 | -28.5 | × | ⬆      | E   | 16 | 0   | 10  | 10Ac           |
| 19-Sep-01 | 13:00 | IM1     | 724 | -26.2 | × | ⬆      | E   | 15 | 0   | 10  | 10Ac           |
| 19-Sep-01 | 18:00 | IM1     | 724 | -25.9 | × | ⬆      | E   | 13 | 0   | 10  | 10As           |
| 20-Sep-01 | 09:00 | IM1     | 724 | -29.9 | × | ⬆      | E   | 9  | 0.1 | 10  | 10As           |
| 20-Sep-01 | 13:00 | Z76     | 729 | -28.9 | × |        | E   | 8  | 1   | 10  | 10As           |
| 20-Sep-01 | 18:00 | Z26     | 743 | -28.9 | ⊙ |        | E   | 8  | 10  | 10- | 10-Sc          |
| 21-Sep-01 | 09:00 | Z26     | 738 | -35.4 | ⊕ |        | ENE | 9  | 10  | 9   | 0+Sc,3Ac,9Ci   |
| 21-Sep-01 | 13:00 | H284    | 760 | -30.8 | ⊕ |        | E   | 9  | 10  | 10- | 3Ac,10-Ci      |
| 21-Sep-01 | 18:00 | H204    | 787 | -31.3 | ○ |        | E   | 5  | 30  | 0+  | 0+Sc,0+Ac      |
| 22-Sep-01 | 08:40 | H204    | 789 | -36.7 | ⊖ |        | E   | 6  | 30  | 2   | 0+Ac,2Ci       |
| 22-Sep-01 | 13:00 | H120    | 813 | -31.5 | ○ |        | E   | 5  | 30  | 0+  | 0+Ac           |
| 22-Sep-01 | 18:00 | S30     | 853 | -34.8 | ○ |        | ESE | <3 | 30  | 0+  | 0+Ac,0+Ci      |
| 23-Sep-01 | 09:00 | S30     | 850 | -34.5 | ○ |        | ESE | 5  | 30  | 1   | 1Ci            |
| 23-Sep-01 | 18:00 | S16     | 898 | -26.4 | ⊕ |        | ENE | 7  | 10  | 10- | 3Sc,0+Ac,10-Ci |
| 24-Sep-01 | 11:00 | S16     | 906 | -23.9 | ⊕ |        | E   | 5  | 10  | 10- | 4Ac,8Cs        |

Table 3-8. Meteorological data observed during the traverse between S16 and Dome  
Fuji or Yamato (25-Oct-2001 to 06-Feb-2002).

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD  | WS   | V   | N   | CL             |
|-----------|-------|---------|-------|-------|---|--------|-----|------|-----|-----|----------------|
| 25-Oct-01 | 18:30 | S16     | 912   | -15.3 | ○ |        | E   | 4    | 30  | 0+  | 0+Sc           |
| 26-Oct-01 | 07:30 | S16     | 906   | -17.4 | ○ |        | E   | 5    | 30  | 0+  | 0+Sc           |
| 26-Oct-01 | 13:30 | S23     | 873   | -13.7 | ⊙ |        | ENE | 6    | 30  | 8   | 8Ac            |
| 26-Oct-01 | 17:30 | H16     | 856   | -16.9 | ⊙ |        | E   | <3   | 30  | 9   | 7Sc,3Ac        |
| 27-Oct-01 | 07:00 | H16     | 863   | -19.7 | ⊙ |        | E   | 5    | 30  | 7   | 7Sc,1Ci        |
| 27-Oct-01 | 13:00 | H108    | 831   | -17.4 | ⊙ |        | ENE | 7    | 30  | 9   | 0+Sc,9Cs,XCi   |
| 27-Oct-01 | 18:30 | H192    | 806   | -24.6 | ⊙ |        | E   | 4    | 15  | 10  | 1As,10Cs       |
| 28-Oct-01 | 07:00 | H192    | 804   | -22.4 | × | ↗      | E   | 11   | 0.5 | 10- | 10-Sc          |
| 28-Oct-01 | 13:00 | H264    | 781   | -20.5 | × | ↗      | ENE | 13   | 0.8 | 10- | 4Sc,10-Cs      |
| 28-Oct-01 | 19:00 | Z18     | 758   | -27.4 | ⊙ | ↗      | E   | 13   | 2   | 10- | 1Sc,10-Cs      |
| 29-Oct-01 | 07:00 | Z18     | 761   | -29.2 | ⊙ | ↗      | E   | 10   | 1   | 10- | 0+Sc,4As,10-Cs |
| 29-Oct-01 | 13:00 | Z58     | 754   | -24.9 | ⊙ | ↗      | E   | 12   | 2   | 10- | 2Sc,2Cs,10-Ci  |
| 29-Oct-01 | 19:00 | Mizuho  | 745   | -31.2 | ○ | ↘      | ESE | 10   | 10  | 0+  | 0+Ci           |
| 30-Oct-01 | 07:00 | Mizuho  | 754   | -34.1 | ↗ |        | ESE | 14   | 0.8 | 10- | 10-Ci          |
| 30-Oct-01 | 12:00 | Mizuho  | 754   | -26.5 | ⊙ | ↗      | ESE | 10   | 2   | 10- | 10-Ci          |
| 30-Oct-01 | 18:00 | Mizuho  | 757   | -26.4 | ⊙ | ↘      | ESE | 7    | 30  | 10- | 10-Ci          |
| 31-Oct-01 | 07:00 | Mizuho  | 757   | -25.4 | × |        | E   | 6    | 2   | 10  | 10As           |
| 31-Oct-01 | 13:00 | MD20    | 750   | -17.2 | × |        | N   | <3   | 1.5 | 10  | 10As           |
| 31-Oct-01 | 19:00 | MD56    | 734   | -21.1 | × |        | -   | Calm | 1   | 10  | 10As           |
| 01-Nov-01 | 07:00 | MD56    | 731   | -34.4 | ↗ |        | SE  | 12   | 0.2 | 0   | -              |
| 01-Nov-01 | 13:00 | MD80    | 726   | -27.4 | ↗ |        | SE  | 12   | 0.4 | 0   | -              |
| 01-Nov-01 | 19:00 | MD110   | 716   | -31.3 | ↗ |        | SE  | 14   | 0.4 | 0+  | 0+Ci           |
| 02-Nov-01 | 07:00 | MD110   | 715   | -35.1 | ↗ |        | ESE | 15   | 0.1 | 0   | -              |
| 02-Nov-01 | 13:00 | MD134   | 709   | -27.6 | ↗ |        | ESE | 18   | 0.1 | 0   | -              |
| 02-Nov-01 | 19:00 | MD158   | 702   | -30.9 | ↗ |        | ESE | 17   | 0.2 | 0+  | 0+Ci           |
| 03-Nov-01 | 07:00 | MD158   | 698   | -34.7 | ↗ |        | SE  | 13   | 0.4 | 3   | 3Sc            |
| 03-Nov-01 | 13:00 | MD180   | 688   | -30.5 | ↗ |        | SE  | 16   | 0.4 | 0   | -              |
| 03-Nov-01 | 19:00 | MD210   | 681   | -33.8 | ↗ |        | SE  | 12   | 0.6 | 1   | 1Ci            |
| 04-Nov-01 | 07:00 | MD210   | 679   | -38.3 | ↗ |        | SE  | 12   | 0.6 | 0   | -              |
| 04-Nov-01 | 13:00 | MD232   | 670   | -31.2 | ○ | ↗      | SE  | 10   | 2   | 0   | -              |
| 04-Nov-01 | 19:00 | MD244   | 662   | -34.9 | ⊙ | ↘      | SE  | 8    | 10  | 7   | 7Ci            |
| 05-Nov-01 | 07:00 | MD244   | 658   | -39.2 | ↗ |        | SE  | 16   | 0.1 | X   | X              |
| 05-Nov-01 | 13:00 | MD244   | 658   | -35.0 | ↗ |        | SE  | 17   | 0   | X   | X              |
| 05-Nov-01 | 19:00 | MD244   | 657   | -36.7 | ↗ |        | SE  | 17   | 0.1 | X   | X              |
| 06-Nov-01 | 07:00 | MD244   | 660   | -37.5 | ↗ |        | ESE | 17   | 0   | X   | X              |
| 06-Nov-01 | 13:00 | MD244   | 661   | -31.6 | ↗ |        | ESE | 17   | 0   | X   | X              |
| 06-Nov-01 | 19:00 | MD274   | 656   | -37.0 | ↗ |        | ESE | 13   | 0.4 | 9   | 9Ci            |
| 07-Nov-01 | 07:00 | MD274   | 659   | -40.5 | ↗ |        | ESE | 12   | 0.4 | 9   | 9Ci            |
| 07-Nov-01 | 13:00 | MD302   | 646   | -34.6 | ↗ |        | SE  | 10   | 0.6 | 5   | 5Ci            |
| 07-Nov-01 | 19:00 | MD332   | 639   | -38.9 | ⊙ | ↗      | SE  | 10   | 2   | 9   | 9Ci            |
| 08-Nov-01 | 07:00 | MD332   | 636   | -42.2 | ⊙ | ↗      | SE  | 10   | 2   | 5   | 1Sc,5Ci        |
| 08-Nov-01 | 14:00 | MD364   | 629   | -35.9 | ⊙ | ↗      | SE  | 11   | 5   | 6   | 1Ac,6Ci        |
| 08-Nov-01 | 19:00 | MD364   | 629   | -39.1 | ⊙ | ↗      | SE  | 10   | 5   | 8   | 1Ac,8Ci        |
| 09-Nov-01 | 07:00 | MD364   | 631   | -43.0 | ↗ |        | SE  | 10   | 0.8 | 8   | 8Ci            |
| 09-Nov-01 | 13:00 | MD386   | 627   | -36.6 | ↗ |        | SE  | 10   | 0.4 | 10- | 4Cs,10-Ci      |
| 09-Nov-01 | 19:30 | MD428   | 620   | -40.2 | ⊙ | ↗      | SE  | 8    | 5   | 10- | 1Ac,4Cs,10-Ci  |
| 10-Nov-01 | 07:00 | MD428   | 619   | -43.3 | ↗ |        | ESE | 7    | 0.8 | 10- | 1Cc,10-Cs      |
| 10-Nov-01 | 13:00 | MD458   | 615   | -36.8 | ↗ |        | ESE | 8    | 0.6 | 10- | 3Cs,10-Ci      |
| 10-Nov-01 | 19:30 | MD500   | 610.4 | -41.9 | ⊙ | ↗      | ESE | 6    | 5   | 8   | 0+Sc,6Ac,3Ci   |
| 11-Nov-01 | 07:00 | MD500   | 611.3 | -47.3 | ⊙ |        | SE  | 5    | 10  | 8   | 8Ci            |
| 11-Nov-01 | 13:30 | MD528   | 609.8 | -37.7 | ⊙ | ↔      | ESE | 6    | 10  | 4   | 3Cs,2Ci        |

| Date      | LT    | Station   | Pa    | Ta    | W | Hydro. | WD  | WS   | V  | N   | CL                     |
|-----------|-------|-----------|-------|-------|---|--------|-----|------|----|-----|------------------------|
| 11-Nov-01 | 19:30 | MD562     | 606.0 | -44.1 | ⊕ | ↔      | ESE | 5    | 10 | 10- | 0+Sc,0+Ac,10-Cs        |
| 12-Nov-01 | 07:00 | MD562     | 606.4 | -46.0 | ⊕ | ↔      | ESE | 5    | 2  | 10- | 1Sc,10-Cs              |
| 12-Nov-01 | 13:00 | MD590     | 602.6 | -39.0 | ⊕ | ↔      | ESE | 5    | 5  | 10- | 10-Cs                  |
| 12-Nov-01 | 19:00 | MD620     | 601.1 | -44.9 | ⊕ | ↔      | SE  | 3    | 10 | 10  | 10Cs                   |
| 13-Nov-01 | 07:00 | MD620     | 600.7 | -49.3 | ○ | ↔      | SE  | 3    | 20 | 1   | 1Ci                    |
| 13-Nov-01 | 13:00 | MD646     | 598.9 | -40.0 | ⊕ | ↔      | ESE | 4    | 20 | 7   | 0+Sc,2Ac,7Ci           |
| 13-Nov-01 | 19:30 | MD680     | 596.7 | -45.9 | ○ |        | SE  | 4    | 20 | 0+  | 0+Ci                   |
| 14-Nov-01 | 07:30 | MD680     | 597.9 | -46.0 | ○ |        | SE  | 3    | 20 | 0+  | 0+Ci                   |
| 14-Nov-01 | 13:00 | MD706     | 597.5 | -40.1 | ○ |        | SSE | 4    | 20 | 0+  | 0+Ci                   |
| 14-Nov-01 | 19:00 | Dome Fuji | 597.2 | -44.4 | ○ |        | ESE | <3   | 20 | 0+  | 0+Ci                   |
| 15-Nov-01 | 07:00 | Dome Fuji | 597.5 | -48.3 | ⊕ | ↔      | E   | <1   | 30 | 2   | 2Ci                    |
| 15-Nov-01 | 13:00 | Dome Fuji | 597.6 | -41.2 | ⊕ | ↔      | ENE | <3   | 20 | 4   | 0+Sc,4Ci               |
| 15-Nov-01 | 19:00 | Dome Fuji | 597.6 | -45.8 | ⊕ | ↔      | ENE | 4    | 30 | 2   | 2Ci                    |
| 16-Nov-01 | 07:00 | Dome Fuji | 598.3 | -49.3 | ○ | ↔      | ENE | <3   | 30 | 1   | 1Ci                    |
| 16-Nov-01 | 13:00 | Dome Fuji | 598.7 | -41.6 | ⊕ | ↔      | NE  | 5    | 30 | 3   | 3Ci                    |
| 16-Nov-01 | 19:30 | Dome Fuji | 597.9 | -46.7 | ○ | ↔      | ENE | 3    | 30 | 1   | 1Ci                    |
| 17-Nov-01 | 07:00 | Dome Fuji | 596.0 | -47.5 | ○ | ↔      | E   | <3   | 30 | 1   | 1Ci                    |
| 17-Nov-01 | 13:00 | Dome Fuji | 596.4 | -41.0 | ⊕ |        | E   | 4    | 30 | 2   | 0+Sc,2Ci               |
| 17-Nov-01 | 19:00 | Dome Fuji | 597.3 | -45.2 | ⊕ |        | E   | 3    | 30 | 4   | 4Ci                    |
| 18-Nov-01 | 07:00 | Dome Fuji | 600.2 | -45.6 | ⊕ | ↔      | ENE | <3   | 30 | 1   | 1Ci                    |
| 18-Nov-01 | 13:00 | Dome Fuji | 601.6 | -38.9 | ⊕ |        | NE  | 3    | 30 | 2   | 2Ci                    |
| 18-Nov-01 | 20:00 | Dome Fuji | 602.6 | -45.4 | ○ |        | E   | <3   | 30 | 1   | 1Ci                    |
| 19-Nov-01 | 07:00 | Dome Fuji | 603.7 | -44.9 | ○ | ↔      | E   | <1   | 30 | 0+  | 0+Ci                   |
| 19-Nov-01 | 13:00 | Dome Fuji | 603.7 | -38.8 | ○ |        | E   | <1   | 30 | 0+  | 0+Ci                   |
| 19-Nov-01 | 19:00 | Dome Fuji | 603.4 | -39.3 | ○ |        | N   | <1   | 30 | 0+  | 0+Cc,0+Ci              |
| 20-Nov-01 | 07:00 | Dome Fuji | 603.2 | -44.1 | ⊕ | ↔      | NNW | <1   | 20 | 7   | 3Cs,4Ci                |
| 20-Nov-01 | 13:00 | Dome Fuji | 604.0 | -37.9 | ○ |        | NW  | <1   | 30 | 0+  | 0+Ci                   |
| 20-Nov-01 | 19:00 | Dome Fuji | 604.9 | -40.9 | ○ |        | W   | <3   | 30 | 0+  | 0+Ci                   |
| 21-Nov-01 | 07:00 | Dome Fuji | 606.2 | -42.1 | ○ | ↔      | -   | <1   | 30 | 1   | 0+Ac,1Ci               |
| 21-Nov-01 | 13:00 | Dome Fuji | 607.8 | -36.5 | ○ | ↔      | -   | Calm | 30 | 1   | 0+Ac,1Ci               |
| 21-Nov-01 | 19:00 | Dome Fuji | 607.9 | -40.0 | ⊕ | ↔      | SSW | <1   | 30 | 7   | 4Cs,3Ci                |
| 22-Nov-01 | 07:00 | Dome Fuji | 605.9 | -43.9 | ⊕ | ↔      | S   | 4    | 20 | 2   | 0+Ac,2Ci               |
| 22-Nov-01 | 13:00 | Dome Fuji | 604.3 | -35.6 | ○ | ↔      | S   | 7    | 5  | 0+  | 0+Ci                   |
| 22-Nov-01 | 19:00 | Dome Fuji | 602.7 | -39.6 | ○ | ↔      | S   | 4    | 10 | 0+  | 0+Ci                   |
| 23-Nov-01 | 07:00 | Dome Fuji | 599.4 | -41.4 | ⊕ | ↔      | SE  | 3    | 20 | 2   | 2Ci                    |
| 23-Nov-01 | 13:00 | Dome Fuji | 598.3 | -36.8 | ○ | ↔      | SSE | 5    | 10 | 0+  | 0+Ci                   |
| 23-Nov-01 | 20:00 | Dome Fuji | 598.3 | -43.5 | ⊕ |        | S   | 3    | 30 | 0+  | 0+Ac                   |
| 24-Nov-01 | 07:30 | Dome Fuji | 599.0 | -43.9 | ○ | ↔      | ESE | <1   | 30 | 2   | 2Ci                    |
| 24-Nov-01 | 13:00 | Dome Fuji | 599.3 | -37.3 | ⊕ | ↔      | ENE | 4    | 30 | 10- | 1As,2Cc,10-Ci          |
| 24-Nov-01 | 19:00 | Dome Fuji | 599.5 | -40.5 | ✱ |        | E   | <1   | 20 | 10- | 0+Sc,2Ac,1As,1Cc,10-Ci |
| 25-Nov-01 | 07:00 | Dome Fuji | 599.5 | -43.0 | ⊕ |        | E   | <3   | 30 | 0+  | 0+Ac,0+Ci              |
| 25-Nov-01 | 13:00 | Dome Fuji | 599.6 | -37.3 | ⊕ | ↔      | E   | 4    | 30 | 3   | 2Ac,0+Cc,2Ci           |
| 25-Nov-01 | 19:30 | Dome Fuji | 599.6 | -40.8 | ○ | ↔      | E   | 3    | 30 | 1   | 0+Ac,1Ci               |
| 26-Nov-01 | 07:30 | Dome Fuji | 599.7 | -42.2 | ⊕ | ↔      | ENE | <3   | 30 | 2   | 0+Sc,0+Ac,2Ci          |
| 26-Nov-01 | 13:00 | Dome Fuji | 599.5 | -36.9 | ○ |        | ENE | 4    | 30 | 0+  | 0+Ac                   |
| 26-Nov-01 | 19:00 | Dome Fuji | 599   | -39.5 | ○ | ↔      | E   | 3    | 30 | 0+  | 0+Ac,0+Ci              |
| 27-Nov-01 | 07:00 | Dome Fuji | 597   | -42.4 | ○ | ↔      | E   | 4    | 30 | 0+  | 0+Ac,0+Ci              |
| 27-Nov-01 | 13:00 | Dome Fuji | -     | -37.5 | ○ |        | ENE | 5    | 30 | 0+  | 0+Ac,0+Ci              |
| 27-Nov-01 | 19:00 | Dome Fuji | 598   | -40.5 | ○ |        | NE  | 3    | 30 | 0+  | 0+Ac                   |
| 28-Nov-01 | 07:00 | Dome Fuji | -     | -44.4 | ○ | ↔      | NW  | <3   | 30 | 0+  | 0+Ac,0+Ci              |
| 28-Nov-01 | 13:00 | Dome Fuji | -     | -35.3 | ○ |        | NNW | <3   | 30 | 0+  | 0+Ci                   |
| 28-Nov-01 | 19:00 | Dome Fuji | 603   | -35.9 | ○ |        | WSW | <1   | 30 | 0+  | 0+Ac                   |
| 29-Nov-01 | 07:00 | Dome Fuji | 603   | -43.0 | ○ | ↔      | E   | 4    | 30 | 0+  | 0+Ac                   |

| Date      | LT    | Station   | Pa  | Ta    | W | Hydro. | WD  | WS | V   | N   | CL             |
|-----------|-------|-----------|-----|-------|---|--------|-----|----|-----|-----|----------------|
| 29-Nov-01 | 15:00 | Dome Fuji | -   | -33.6 | ↗ |        | ESE | 13 | 0.1 | X   | X              |
| 29-Nov-01 | 19:00 | Dome Fuji | 597 | -32.2 | ✱ | ↗      | E   | 13 | 0.1 | X   | X              |
| 30-Nov-01 | 07:00 | Dome Fuji | -   | -30.8 | ↗ |        | ENE | 8  | 0.5 | 10  | 10Cs           |
| 30-Nov-01 | 13:00 | Dome Fuji | -   | -26.5 | ✱ | ↗      | ENE | 12 | 0.5 | 10  | 6As,10Cs       |
| 30-Nov-01 | 19:00 | Dome Fuji | 593 | -29.0 | ✱ | ↗      | ENE | 7  | 1   | 10  | 4As,10Cs       |
| 01-Dec-01 | 07:00 | Dome Fuji | -   | -39.4 | ⊕ | ↔      | ESE | 3  | 20  | 10- | 0+Sc,1Ac,10-Ci |
| 01-Dec-01 | 13:00 | Dome Fuji | -   | -35.9 | ⊕ | ↔      | SW  | <3 | 30  | 2   | 0+Sc,1Ac,2Ci   |
| 01-Dec-01 | 19:00 | Dome Fuji | 592 | -38.4 | ⊕ | ↔      | WNW | <1 | 30  | 2   | 0+Sc,1Ac,2Ci   |
| 02-Dec-01 | 07:00 | Dome Fuji | -   | -44.4 | ○ |        | NNW | <3 | 30  | 0+  | 0+Sc,0+Ci      |
| 02-Dec-01 | 13:00 | Dome Fuji | -   | -34.5 | ○ | ↔      | NNW | 5  | 5   | 0+  | 0+Ci           |
| 02-Dec-01 | 19:00 | Dome Fuji | 591 | -38.2 | ○ |        | NW  | <3 | 30  | 0+  | 0+Sc,0+Ac,0+Ci |
| 03-Dec-01 | 07:00 | Dome Fuji | -   | -43.0 | ○ |        | NW  | <3 | 30  | 0+  | 0+Sc,0+Ac,0+Ci |
| 03-Dec-01 | 13:00 | Dome Fuji | -   | -35.8 | ○ |        | WNW | 4  | 30  | 0+  | 0+Ac,0+Ci      |
| 03-Dec-01 | 19:00 | Dome Fuji | 597 | -38.5 | ○ |        | NW  | <3 | 30  | 0+  | 0+Sc,0+Ac,0+Ci |
| 04-Dec-01 | 07:00 | Dome Fuji | 598 | -43.1 | ○ |        | S   | <1 | 30  | 0+  | 0+Ac,0+Ci      |
| 04-Dec-01 | 10:00 | Dome Fuji | -   | -37.9 | ○ |        | SE  | <1 | 30  | 0+  | 0+Ac,0+Ci      |
| 04-Dec-01 | 12:00 | Dome Fuji | -   | -36.4 | ○ |        | E   | <3 | 30  | 0+  | 0+Ac,0+Ci      |
| 04-Dec-01 | 13:00 | Dome Fuji | -   | -35.4 | ○ |        | E   | <3 | 30  | 0+  | 0+Ac,0+Ci      |
| 04-Dec-01 | 14:00 | Dome Fuji | -   | -35.1 | ○ |        | E   | <3 | 30  | 0+  | 0+Ac,0+Ci      |
| 04-Dec-01 | 19:00 | Dome Fuji | 600 | -37.1 | ○ |        | ESE | <3 | 30  | 0   | -              |
| 05-Dec-01 | 07:00 | Dome Fuji | 597 | -41.3 | ⊕ | ↔      | ESE | 5  | 10  | 9   | 1Ac,3Cs,9Ci    |
| 05-Dec-01 | 12:00 | Dome Fuji | -   | -35.4 | ⊕ | ↗      | ESE | 8  | 5   | 10- | 2As,3Cs,10-Ci  |
| 05-Dec-01 | 13:00 | Dome Fuji | -   | -34.9 | ⊕ | ↗      | ESE | 8  | 5   | 10- | 2As,6Cs,10-Ci  |
| 05-Dec-01 | 19:30 | Dome Fuji | 597 | -32.4 | ⊕ | ↗      | ENE | 6  | 10  | 10  | 10Cs           |
| 06-Dec-01 | 07:00 | Dome Fuji | 602 | -35.5 | ✱ | ↗      | N   | 4  | 5   | 10  | 4As,10Cs       |
| 06-Dec-01 | 13:00 | Dome Fuji | -   | -29.5 | ✱ |        | NNW | 5  | 5   | 10  | 2As,10Cs       |
| 06-Dec-01 | 19:00 | Dome Fuji | 605 | -31.1 | ⊕ | ↔      | WNW | 4  | 10  | 9   | 2Ac,9Cs,3Ci    |
| 07-Dec-01 | 07:00 | Dome Fuji | 605 | -38.3 | ○ |        | SW  | 4  | 30  | 0+  | 0+Sc,0+Ac,0+Ci |
| 07-Dec-01 | 11:00 | Dome Fuji | 605 | -31.9 | ○ | ↔      | SW  | 5  | 30  | 1   | 0+Ac,1Ci       |
| 07-Dec-01 | 13:00 | Dome Fuji | -   | -30.5 | ⊕ | ↔      | SW  | 6  | 30  | 5   | 0+Ac,5Ci       |
| 07-Dec-01 | 14:00 | Dome Fuji | 604 | -29.7 | ⊕ | ↔      | SW  | 5  | 30  | 3   | 0+Ac,3Ci       |
| 07-Dec-01 | 16:00 | Dome Fuji | 604 | -28.4 | ⊕ | ↔      | SW  | 6  | 10  | 10- | 6Cs,10-Ci      |
| 07-Dec-01 | 18:00 | Dome Fuji | 604 | -28.0 | ⊕ | ↔      | SSW | 5  | 5   | 10  | 2As,10Cs       |
| 07-Dec-01 | 19:00 | Dome Fuji | 604 | -28.1 | ⊕ | ↔      | SSW | 5  | 5   | 10  | 4As,10Cs       |
| 08-Dec-01 | 07:00 | Dome Fuji | -   | -34.7 | ○ |        | S   | 4  | 30  | 0+  | 0+Ac           |
| 08-Dec-01 | 13:00 | Dome Fuji | -   | -29.5 | ○ | ↔      | S   | 6  | 20  | 0+  | 0+Ac           |
| 08-Dec-01 | 19:00 | Dome Fuji | 602 | -31.4 | ○ |        | S   | 3  | 30  | 0+  | 0+Ac,0+Ci      |
| 09-Dec-01 | 07:00 | Dome Fuji | -   | -36.4 | ○ |        | SSE | 3  | 30  | 0+  | 0+Sc,0+Ac,0+Ci |
| 09-Dec-01 | 11:00 | Dome Fuji | 597 | -32.9 | ○ | ↔      | SE  | 6  | 20  | 0+  | 0+Ac           |
| 09-Dec-01 | 13:00 | Dome Fuji | -   | -32.0 | ○ | ↔      | SSE | 5  | 20  | 0+  | 0+Ac           |
| 09-Dec-01 | 19:00 | Dome Fuji | 594 | -34.3 | ○ | ↔      | SE  | 3  | 30  | 0+  | 0+Ac           |
| 10-Dec-01 | 07:00 | Dome Fuji | 592 | -40.2 | ○ |        | SSE | <3 | 30  | 0+  | 0+Ac,0+Ci      |
| 10-Dec-01 | 13:00 | Dome Fuji | -   | -34.4 | ○ | ↔      | E   | 5  | 10  | 1   | 0+Ac,1Ci       |
| 10-Dec-01 | 19:00 | Dome Fuji | 593 | -36.4 | ○ | ↔      | ENE | 3  | 30  | 1   | 0+Ac,1Ci       |
| 11-Dec-01 | 07:00 | Dome Fuji | 596 | -39.1 | ⊕ | ↔      | NNE | 3  | 20  | 10- | 2Ac,10-Ci      |
| 11-Dec-01 | 10:00 | Dome Fuji | 597 | -34.4 | ⊕ | ↔      | NNE | 5  | 20  | 9   | 2Ac,4Cs,9Ci    |
| 11-Dec-01 | 13:00 | Dome Fuji | 597 | -31.8 | ⊕ | ↔      | NNE | 5  | 10  | 9   | 3Ac,4Cs,9Ci    |
| 11-Dec-01 | 14:00 | Dome Fuji | 598 | -31.4 | ⊕ | ↔      | NNE | 5  | 10  | 6   | 3Ac,1Cs,5Ci    |
| 11-Dec-01 | 15:00 | Dome Fuji | 598 | -32.2 | ⊕ | ↔      | NNE | 5  | 20  | 3   | 2Ac,2Ci        |
| 11-Dec-01 | 16:00 | Dome Fuji | 598 | -31.5 | ⊕ | ↔      | N   | 6  | 10  | 2   | 2Ac,1Ci        |
| 11-Dec-01 | 17:00 | Dome Fuji | 598 | -32.7 | ⊕ | ↔      | N   | 4  | 20  | 2   | 2Ac,1Ci        |
| 11-Dec-01 | 19:00 | Dome Fuji | 598 | -34.6 | ○ |        | N   | 3  | 30  | 1   | 0+Ac,1Ci       |
| 12-Dec-01 | 07:00 | Dome Fuji | -   | -38.6 | ⊕ | ↔      | NW  | <3 | 20  | 7   | 2Ac,7Ci        |

| Date      | LT    | Station         | Pa  | Ta    | W | Hydro. | WD  | WS | V   | N   | CL              |
|-----------|-------|-----------------|-----|-------|---|--------|-----|----|-----|-----|-----------------|
| 12-Dec-01 | 13:00 | Dome Fuji       | -   | -31.4 | ① | ↔      | WNW | 4  | 20  | 4   | 0+Ac,4Ci        |
| 12-Dec-01 | 19:00 | Dome Fuji       | 600 | -31.6 | ① | ↔      | NW  | <3 | 20  | 10- | 2Ac,6Cs,5Ci     |
| 13-Dec-01 | 07:00 | Dome Fuji       | -   | -40.0 | ○ | ↔      | WSW | <3 | 20  | 1   | 0+Sc,1Ac,0+Ci   |
| 13-Dec-01 | 13:00 | Dome Fuji       | -   | -31.4 | ○ |        | SW  | 3  | 30  | 0   | -               |
| 13-Dec-01 | 19:00 | Dome Fuji       | 602 | -33.3 | ○ |        | SSW | <3 | 30  | 0   | -               |
| 14-Dec-01 | 07:00 | Dome Fuji       | -   | -39.7 | ① | ↔      | SSE | <3 | 20  | 2   | 1Ac,2Cs,0+Ci    |
| 14-Dec-01 | 13:00 | Dome Fuji       | -   | -33.0 | ○ | ↔      | E   | 3  | 30  | 0+  | 0+Ac,0+Ci       |
| 14-Dec-01 | 19:00 | Dome Fuji       | 605 | -35.4 | ① |        | E   | <3 | 30  | 2   | 2Ci             |
| 15-Dec-01 | 07:00 | Dome Fuji       | -   | -36.7 | ① |        | NNE | 3  | 20  | 10- | 10-Cs           |
| 15-Dec-01 | 13:00 | Dome Fuji       | -   | -28.9 | ① |        | NNE | 6  | 10  | 10- | 10-Cs           |
| 15-Dec-01 | 19:00 | Dome Fuji       | 608 | -30.6 | ① |        | NE  | 6  | 20  | 10- | 10-Cs           |
| 16-Dec-01 | 07:00 | Dome Fuji       | -   | -35.4 | ① |        | NE  | <3 | 30  | 10- | 0+Sc,0+Ac,10-Cs |
| 16-Dec-01 | 14:00 | Fuji divide     | -   | -29.9 | ① | ↔,↗    | SE  | 5  | 5   | 7   | 7Sc             |
| 16-Dec-01 | 21:00 | S590            | 609 | -34.4 | ○ | ↔      | E   | 4  | 30  | 0+  | 0+Ci            |
| 17-Dec-01 | 07:00 | S590            | -   | -34.7 | ① | ↔,↗    | E   | 6  | 20  | 4   | 4Ci             |
| 17-Dec-01 | 14:00 | 78.5S, 40.8E    | -   | -36.0 | ① | ↗      | E   | 8  | 5   | 10- | 1Ac,10-Ci       |
| 17-Dec-01 | 20:00 | S650            | 610 | -28.0 | ① | ↗      | ENE | 7  | 2   | 10- | 10-Cs           |
| 18-Dec-01 | 07:00 | S650            | -   | -29.5 | ① | ↗      | NE  | 6  | 2   | 10- | 10-Cs           |
| 18-Dec-01 | 13:00 | Plateau Station | -   | -25.5 | ① | ↗      | NE  | 7  | 2   | 10- | 10-Cs           |
| 18-Dec-01 | 19:00 | 79.0S,42.5E     | 611 | -25.9 | ① | ↔      | NE  | 5  | 5   | 10- | 1Ac,1Cs,10-Ci   |
| 19-Dec-01 | 07:00 | 79.0S,42.5E     | -   | -32.9 | ① |        | NE  | 3  | 30  | 7   | 0+Ac,7Ci        |
| 19-Dec-01 | 14:30 | 78.5S, 41.3E    | -   | -26.3 | ① | ↔      | ESE | 5  | 2   | 10- | 10-Cs           |
| 19-Dec-01 | 20:30 | 78.0S,40.0E     | 611 | -31.1 | ① | ↔      | E   | 3  | 5   | 10- | 10-Cs           |
| 20-Dec-01 | 07:00 | 78.0S,40.0E     | -   | -35.3 | ① | ↔      | E   | <3 | 5   | 10- | 0+Ac,10-Cs      |
| 20-Dec-01 | 14:00 | 77.4S, 39.6E    | -   | -28.8 | ① | ↔      | ESE | 4  | 5   | 3   | 0+Ac,3Ci        |
| 20-Dec-01 | 19:00 | Dome Fuji       | 605 | -31.6 | ○ | ↔      | SE  | <3 | 30  | 3   | 0+Ac,3Ci        |
| 21-Dec-01 | 07:00 | Dome Fuji       | -   | -34.9 | ① | ↔      | NE  | 4  | 10  | 10- | 4Ac,10-Ci       |
| 21-Dec-01 | 13:00 | Dome Fuji       | -   | -28.9 | ① | ↔      | NNE | 7  | 2   | 3   | 0+Ac,3Ci        |
| 21-Dec-01 | 20:00 | Dome Fuji       | 610 | -32.5 | ○ |        | ENE | 3  | 30  | 1   | 1Ci             |
| 22-Dec-01 | 07:00 | Dome Fuji       | -   | -36.1 | ① | ↔      | ESE | <3 | 20  | 7   | 0+Ac,7Ci        |
| 22-Dec-01 | 13:00 | Dome Fuji       | -   | -29.4 | ① | ↔,↗    | E   | 7  | 2   | 6   | 0+Ac,6Ci        |
| 22-Dec-01 | 19:00 | Dome Fuji       | 612 | -30.5 | ① |        | ESE | 5  | 30  | 5   | 5Ci             |
| 23-Dec-01 | 07:00 | Dome Fuji       | -   | -33.4 | ◎ |        | ESE | 5  | 2   | 10  | 10Ac            |
| 23-Dec-01 | 12:30 | Dome Fuji       | -   | -30.2 | ○ | ↔      | ESE | 4  | 30  | 0+  | 0+Ac            |
| 23-Dec-01 | 19:00 | MD678           | 612 | -30.0 | ○ | ↔      | SE  | 5  | 20  | 0+  | 0+Ac,0+Ci       |
| 24-Dec-01 | 07:00 | MD678           | -   | -36.4 | ① | ↔      | SW  | <3 | 20  | 2   | 0+Sc,0+Ac,2Ci   |
| 24-Dec-01 | 13:00 | MD646           | -   | -27.3 | ○ |        | SW  | 3  | 30  | 0+  | 0+Ci            |
| 24-Dec-01 | 19:30 | MD610           | 615 | -27.9 | ○ |        | WSW | 4  | 30  | 0+  | 0+Ci            |
| 25-Dec-01 | 07:00 | MD610           | -   | -35.9 |   |        | S   | 4  | 2   | 10- | 10-Ac           |
| 25-Dec-01 | 13:00 | MD584           | -   | -28.0 | ○ | ↔      | SSE | 6  | 30  | 0   | -               |
| 25-Dec-01 | 19:00 | MD528           | 619 | -28.3 | ○ |        | SE  | 4  | 30  | 0   | -               |
| 26-Dec-01 | 07:00 | MD528           | -   | -34.3 | ○ | ↔      | ESE | 6  | 20  | 0+  | 0+Sc,0+Ci       |
| 26-Dec-01 | 13:00 | MD492           | -   | -27.0 | ↗ |        | E   | 10 | 0.6 | 10- | 8Sc,3Ci         |
| 26-Dec-01 | 19:00 | MD444           | 626 | -27.0 | ✱ | ↗      | E   | 8  | 1   | 10- | 8Sc,9Ci         |
| 27-Dec-01 | 07:00 | MD444           | -   | -32.2 | ↗ |        | ESE | 8  | 0.4 | 3   | 3Ci             |
| 27-Dec-01 | 13:00 | MD410           | -   | -25.8 | ↗ |        | ESE | 11 | 0.2 | 8   | 8Sc             |
| 27-Dec-01 | 19:30 | MD366           | 642 | -25.9 | ◎ |        | ESE | 7  | 1   | 8   | 2Sc,8Ci         |
| 28-Dec-01 | 07:00 | MD366           | -   | -30.3 | ↗ |        | ESE | 8  | 0.4 | 1   | 1Ac             |
| 28-Dec-01 | 13:00 | MD332           | -   | -25.3 | ① | ↗      | E   | 8  | 10  | 4   | 3Sc,2Ci         |
| 28-Dec-01 | 19:00 | MD290           | 669 | -24.8 | ◎ |        | E   | 5  | 20  | 9   | 9Sc             |
| 29-Dec-01 | 07:00 | MD290           | -   | -31.4 | ○ | ↔      | SE  | 6  | 20  | 0+  | 0+Ci            |
| 29-Dec-01 | 13:00 | MD262           | -   | -24.8 | ○ | ↗      | SSE | 8  | 10  | 0+  | 0+Sc            |
| 29-Dec-01 | 19:00 | CF162           | 678 | -24.2 | ○ |        | ESE | 5  | 30  | 0   | -               |

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD  | WS | V   | N   | CL                 |
|-----------|-------|---------|-------|-------|---|--------|-----|----|-----|-----|--------------------|
| 30-Dec-01 | 07:00 | CF162   | -     | -27.5 | ○ |        | ESE | 5  | 20  | 0   | -                  |
| 30-Dec-01 | 13:30 | CF120   | -     | -21.4 | ○ | ↗      | E   | 11 | 10  | 0+  | 0+Sc,0+Ci          |
| 30-Dec-01 | 19:30 | CF80    | 720   | -21.5 | ○ | ↗      | E   | 9  | 20  | 0+  | 0+Sc,0+As,0+Ci     |
| 31-Dec-01 | 07:00 | CF80    | -     | -26.3 | ↗ |        | ESE | 11 | 0.2 | 5   | 0+Sc,5Ci           |
| 31-Dec-01 | 16:00 | CF40    | -     | -17.2 | ↗ |        | ESE | 11 | 0.8 | 1   | 1Ac,0+Ci           |
| 31-Dec-01 | 19:00 | CF40    | 731   | -18.0 | ○ | ↗      | ESE | 8  | 10  | 0+  | 0+Sc,0+Ci          |
| 01-Jan-02 | 08:00 | CF40    | -     | -21.1 | ○ | ↗      | ESE | 7  | 20  | 0+  | 0+Sc,0+Ac          |
| 01-Jan-02 | 14:00 | CF40    | -     | -14.5 | ○ | ↗      | ESE | 10 | 10  | 8   | 8Sc                |
| 01-Jan-02 | 19:00 | CF40    | 723   | -14.3 | × |        | E   | 5  | 10  | 9   | 9Sc                |
| 02-Jan-02 | 07:00 | CF40    | -     | -16.0 | × |        | ENE | 6  | 0.6 | 10  | 10Sc               |
| 02-Jan-02 | 12:30 | CF40    | -     | -14.4 | × |        | ENE | 6  | 1   | 10  | 10Sc               |
| 02-Jan-02 | 20:00 | YM60    | 750   | -14.0 | × |        | NE  | 6  | 1   | 10  | 10Sc               |
| 03-Jan-02 | 07:00 | YM60    | -     | -18.5 | ⊕ | ↗      | ESE | 6  | 10  | 10- | 1Sc,2Ac,0+Cs,10-Ci |
| 03-Jan-02 | 13:00 | YM71    | 751   | -13.2 | ○ |        | ESE | 5  | 30  | 0+  | 0+Ac,0+Ci          |
| 03-Jan-02 | 19:00 | YM85    | 747   | -15.5 | ○ |        | S   | 5  | 30  | 0+  | 0+Ac,0+Ci          |
| 04-Jan-02 | 07:00 | YM85    | 744   | -19.4 | ○ | ↗      | ESE | 8  | 10  | 0+  | 0+Ac               |
| 04-Jan-02 | 12:30 | YM100   | 740   | -14.0 | ○ | ↗      | ESE | 7  | 20  | 1   | 0+Cu,1Sc,0+Ac      |
| 04-Jan-02 | 19:00 | YM120   | 736   | -15.3 | ○ | ↗      | E   | 6  | 20  | 0+  | 0+Cu,0+Sc,0+Ci     |
| 05-Jan-02 | 07:00 | YM120   | 737   | -17.4 | ⊙ | ↗      | E   | 8  | 10  | 10- | 10-Sc              |
| 05-Jan-02 | 13:00 | YM135   | 732   | -15.3 | × | ↗      | E   | 8  | 0.2 | 10  | 10Sc               |
| 05-Jan-02 | 19:00 | YM154   | 726   | -18.2 | ⊕ |        | E   | 6  | 20  | 3   | 0+Cu,0+Sc,3Ci      |
| 06-Jan-02 | 07:30 | YM154   | -     | -21.4 | ↗ |        | E   | 12 | 0.4 | 1   | 0+Sc,0+Ac,1Ci      |
| 06-Jan-02 | 12:30 | YM154   | -     | -17.7 | ↗ |        | E   | 14 | 0.4 | 1   | 1Ci                |
| 06-Jan-02 | 19:00 | YM140   | 735.6 | -17.2 | ○ | ↗      | E   | 7  | 10  | 0+  | 0+Sc,0+Ci          |
| 07-Jan-02 | 07:00 | YM140   | 737.3 | -21.9 | ○ |        | ESE | 10 | 0.8 | 1   | 1Ci                |
| 07-Jan-02 | 13:00 | YM123   | 743.0 | -16.2 | ○ | ↗      | E   | 11 | 1   | 1   | 0+Sc,1Ci           |
| 07-Jan-02 | 19:00 | YM100   | 745.4 | -17.0 | ○ |        | ESE | 6  | 30  | 0+  | 0+Cu,0+Sc,0+Ci     |
| 08-Jan-02 | 07:00 | YM100   | 744.2 | -18.7 | ↗ |        | ESE | 11 | 0.8 | 3   | 2Sc,1Ci            |
| 08-Jan-02 | 13:00 | YM85    | 750.2 | -15.2 | ↗ |        | E   | 11 | 0.8 | 2   | 0+Sc,0+Cu,2Cc      |
| 08-Jan-02 | 20:00 | YM85    | 749.4 | -17.0 | ○ |        | E   | 6  | 30  | 0+  | 0+Ci               |
| 09-Jan-02 | 07:00 | YM85    | 749.4 | -21.2 | ○ | ↗      | ESE | 11 | 5   | 0+  | 0+Sc,0+Ci          |
| 09-Jan-02 | 13:30 | YM85    | 749.0 | -15.4 | ○ | ↗      | E   | 10 | 10  | 0+  | 0+Sc               |
| 09-Jan-02 | 19:00 | YM85    | 746.0 | -16.4 | ○ |        | ESE | 5  | 30  | 0+  | 0+Sc,0+Ci          |
| 10-Jan-02 | 07:00 | YM85    | 744.8 | -18.4 | ⊕ | ↗      | ESE | 9  | 10  | 8   | 8Sc                |
| 10-Jan-02 | 13:00 | YM85    | 747.4 | -16.4 | ○ | ↗      | E   | 10 | 10  | 0+  | 0+Sc,0+Ci          |
| 10-Jan-02 | 19:00 | YM85    | 747.4 | -15.4 | ○ |        | ESE | 5  | 30  | 0+  | 0+Sc,0+Ci          |
| 11-Jan-02 | 07:00 | YM85    | 750.6 | -20.0 | ○ | ↗      | ESE | 11 | 1   | 0+  | 0+Ci               |
| 11-Jan-02 | 13:00 | YM85    | 750.6 | -13.5 | ↗ |        | ESE | 13 | 0.4 | 0+  | 0+Sc               |
| 11-Jan-02 | 19:00 | YM85    | 748.8 | -12.3 | ○ | ↗      | SE  | 9  | 2   | 0+  | 0+Sc,0+Ci          |
| 12-Jan-02 | 07:00 | YM85    | 748.2 | -11.6 | ⊙ | ↗      | E   | 15 | 5   | 10- | 0+Sc,10-As         |
| 12-Jan-02 | 13:00 | YM85    | 751.0 | -8.4  | ↗ |        | E   | 15 | 0.6 | 3   | 3Ac,0+Ci           |
| 12-Jan-02 | 19:30 | YM85    | 752.4 | -11.5 | ↗ |        | E   | 12 | 0.8 | 10- | 10-Sc,XCi          |
| 13-Jan-02 | 07:00 | YM85    | 751.4 | -14.5 | ⊙ | ↗      | ESE | 9  | 2   | 9   | 2Sc,9Ac            |
| 13-Jan-02 | 13:00 | YM85    | 749.8 | -12.5 | ○ | ↗      | ESE | 12 | 10  | 0+  | 0+Ci               |
| 13-Jan-02 | 19:00 | YM85    | 749.4 | -13.2 | ○ | ↗      | E   | 10 | 20  | 1   | 0+Sc,0+Ac,1Ci      |
| 14-Jan-02 | 07:00 | YM85    | 747.0 | -17.4 | ○ | ↗      | E   | 12 | 10  | 0+  | 0+Sc,0+Ci          |
| 14-Jan-02 | 13:00 | YM85    | 746.8 | -12.0 | ⊕ | ↗      | E   | 10 | 5   | 8   | 7Ac,4Ci            |
| 14-Jan-02 | 19:00 | YM85    | 746.4 | -13.4 | ○ | ↗      | ESE | 8  | 20  | 1   | 0+Sc,0+Ac,1Ci      |
| 15-Jan-02 | 07:00 | YM85    | 749.0 | -17.9 | ⊕ | ↗      | ESE | 12 | 20  | 7   | 0+Sc,1Cc,7Ci       |
| 15-Jan-02 | 13:00 | YM85    | 750.6 | -13.0 | ○ | ↗      | E   | 10 | 5   | 0+  | 0+Sc               |
| 15-Jan-02 | 19:30 | YM85    | 750.6 | -13.4 | ○ |        | E   | 6  | 30  | 1   | 0+Sc,1Ci           |
| 16-Jan-02 | 07:00 | YM85    | 746.4 | -19.4 | ○ | ↗      | ESE | 11 | 20  | 0+  | 0+Sc,0+Ci          |
| 16-Jan-02 | 13:00 | YM85    | 748.0 | -15.3 | ⊕ | ↗      | E   | 13 | 0.5 | 2   | 2Ci                |

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD  | WS | V   | N   | CL              |
|-----------|-------|---------|-------|-------|---|--------|-----|----|-----|-----|-----------------|
| 16-Jan-02 | 19:00 | YM85    | 745.2 | -15.5 | ○ | ↗      | E   | 8  | 10  | 0+  | 0+Sc,0+Ci       |
| 17-Jan-02 | 07:00 | YM85    | 744.4 | -19.3 | ⊙ | ↗      | ESE | 12 | 20  | 6   | 6Ci             |
| 17-Jan-02 | 12:30 | YM85    | 743.0 | -15.5 | ⊙ | ↗      | E   | 13 | 5   | 8   | 8Ci             |
| 17-Jan-02 | 19:30 | YM85    | 744.4 | -15.8 | ⊙ | ↗      | E   | 8  | 10  | 7   | 2Sc,7Ci         |
| 18-Jan-02 | 07:00 | YM85    | 745.6 | -17.3 | × | ↗      | E   | 10 | 0.1 | 10  | 10Sc            |
| 18-Jan-02 | 13:00 | YM85    | 747.4 | -14.6 | × | ↗      | E   | 10 | 0.1 | 10  | 0+Sc,4As,10Cs   |
| 18-Jan-02 | 19:00 | YM85    | 743.6 | -14.7 | × | ↗      | E   | 10 | 0.1 | 10  | 10-As,XCs       |
| 19-Jan-02 | 07:00 | YM85    | 742.0 | -18.5 | ↗ |        | E   | 12 | 0.1 | 10- | 3Sc,3Cs,10-Ci   |
| 19-Jan-02 | 12:30 | YM85    | 741.4 | -16.1 | ↗ |        | E   | 8  | 0.8 | 4   | 0+Cc,3Cs,4Ci    |
| 19-Jan-02 | 19:00 | YM85    | 740.2 | -16.3 | ⊙ |        | E   | 5  | 30  | 2   | 0+Ac,2Ci        |
| 20-Jan-02 | 07:00 | YM85    | 740.8 | -23.0 | ⊙ | ↗      | ESE | 11 | 1   | 8   | 8Ci             |
| 20-Jan-02 | 13:00 | YM85    | 740.2 | -18.0 | ⊙ | ↗      | E   | 11 | 2   | 3   | 0+Sc,2Ac,3Ci    |
| 20-Jan-02 | 19:00 | YM85    | 739.8 | -18.0 | ⊙ | ↗      | E   | 8  | 10  | 3   | 0+Sc,2Ac,2Ci    |
| 21-Jan-02 | 07:00 | YM85    | 741.0 | -22.6 | ↗ |        | E   | 10 | 0.8 | 7   | 2Sc,4Ac,1Cc,7Ci |
| 21-Jan-02 | 13:00 | YM85    | 742.4 | -18.0 | ⊙ | ↗      | E   | 9  | 1   | 10- | 10-Sc,XCi       |
| 21-Jan-02 | 19:00 | YM85    | 741.6 | -17.9 | ⊙ |        | E   | 8  | 20  | 6   | 1Sc,6Ci         |
| 22-Jan-02 | 07:00 | YM85    | 740.2 | -22.8 | ↗ |        | ESE | 11 | 0.8 | 0+  | 0+Sc            |
| 22-Jan-02 | 13:00 | YM85    | 737.4 | -18.8 | ↗ |        | ESE | 13 | 0.6 | 0+  | 0+Sc            |
| 22-Jan-02 | 19:30 | YM85    | 737.0 | -18.1 | ⊙ | ↗      | E   | 10 | 5   | 4   | 4Sc,0+Ci        |
| 23-Jan-02 | 07:00 | YM85    | 739.2 | -20.0 | ⊙ | ↗      | E   | 10 | 1   | 8   | 8Ac             |
| 23-Jan-02 | 13:00 | YM85    | 739.0 | -15.5 | ⊙ | ↗      | E   | 10 | 2   | 7   | 6Sc,3Ci         |
| 23-Jan-02 | 19:00 | YM85    | 740.4 | -14.3 | × | ↗      | ENE | 8  | 2   | 10  | 10Sc            |
| 24-Jan-02 | 07:00 | YM85    | 741.0 | -19.5 | × | ↗      | ESE | 10 | 0.4 | 10  | 10As            |
| 24-Jan-02 | 13:00 | YM85    | 739.4 | -15.4 | ↗ |        | ESE | 10 | 0.6 | 10- | 0+Sc,10-Cs      |
| 24-Jan-02 | 19:00 | YM85    | 738.2 | -15.5 | ⊙ | ↗      | E   | 8  | 10  | 10- | 0+Sc,10-Cs      |
| 25-Jan-02 | 07:00 | YM85    | 735.8 | -22.6 | ↗ |        | ESE | 11 | 0.8 | 0+  | 0+Ci            |
| 25-Jan-02 | 13:30 | YM85    | 734.6 | -16.3 | ○ | ↗      | E   | 11 | 2   | 0+  | 0+Ci            |
| 25-Jan-02 | 19:30 | YM85    | 734.0 | -17.7 | ⊙ | ↗      | E   | 8  | 10  | 3   | 3Ci             |
| 26-Jan-02 | 07:30 | YM85    | 735.0 | -22.3 | ⊙ | ↗      | ESE | 12 | 5   | 10- | 10-Ci           |
| 26-Jan-02 | 13:00 | YM85    | 735.2 | -17.3 | ⊙ | ↗      | E   | 9  | 2   | 10- | 10-Ci           |
| 26-Jan-02 | 19:00 | YM85    | 735.4 | -17.7 | ⊙ |        | E   | 6  | 30  | 8   | 8Ci             |
| 27-Jan-02 | 07:00 | YM85    | 735.2 | -24.9 | ○ | ↗      | ESE | 7  | 20  | 0+  | 0+Sc,0+Ci       |
| 27-Jan-02 | 13:30 | YM70    | 738.0 | -17.4 | ○ | ↗      | E   | 8  | 20  | 0+  | 0+Ci            |
| 27-Jan-02 | 19:00 | YM70    | 737.4 | -17.6 | ○ |        | E   | 5  | 30  | 0+  | 0+Sc            |
| 28-Jan-02 | 07:00 | YM70    | 737.0 | -25.0 | ⊙ | ↗      | ESE | 10 | 20  | 10- | 10-Ci           |
| 28-Jan-02 | 14:30 | YM50    | 735.0 | -17.4 | ⊙ |        | E   | 6  | 30  | 8   | 2Cc,8Ci         |
| 28-Jan-02 | 19:00 | YM50    | 735.8 | -18.8 | ⊙ |        | E   | 3  | 30  | 8   | 8Ci             |
| 29-Jan-02 | 07:00 | YM50    | 735.6 | -26.3 | ○ | ↗      | E   | 9  | 2   | 0+  | 0+Sc,0+Ci       |
| 29-Jan-02 | 14:00 | YM30    | 739.4 | -18.7 | ○ | ↗      | E   | 8  | 20  | 0+  | 0+Ci            |
| 29-Jan-02 | 19:00 | YM15    | 736.6 | -20.0 | ○ |        | E   | 6  | 30  | 0+  | 0+Ci            |
| 30-Jan-02 | 07:00 | YM15    | 739.2 | -22.5 | ⊙ | ↗      | E   | 11 | 2   | 8   | 0+Sc,8Ci        |
| 30-Jan-02 | 11:30 | YM15    | 739.0 | -20.0 | ↗ |        | E   | 11 | 0.6 | 10- | 10-Cs           |
| 30-Jan-02 | 19:00 | Mizuho  | 739.6 | -19.7 | ⊙ | ↗      | E   | 10 | 2   | 10- | 0+Sc,10-Cs      |
| 31-Jan-02 | 07:00 | Mizuho  | 736.6 | -25.6 | ↗ |        | E   | 13 | 0.1 | 10- | 8Cs,10-Ci       |
| 31-Jan-02 | 13:00 | Z68     | 742.8 | -20.6 | ↗ |        | E   | 11 | 0.6 | 4   | 1Sc,0+Cc,4Ci    |
| 31-Jan-02 | 19:00 | Z12     | 756.6 | -16.9 | × | ↗      | ENE | 8  | 10  | 10- | 10-Sc           |
| 01-Feb-02 | 07:00 | Z12     | 754.6 | -21.5 | × | ↗      | E   | 8  | 0.6 | 8   | 8Sc             |
| 01-Feb-02 | 14:00 | H260    | 777.8 | -14.7 | ⊙ |        | ENE | 5  | 10  | 9   | 9Sc             |
| 01-Feb-02 | 19:00 | H260    | 777.6 | -16.2 | ⊙ |        | NE  | 4  | 10  | 9   | 9Sc             |
| 02-Feb-02 | 07:00 | H260    | 774.6 | -19.3 | × | ↗      | NE  | 7  | 0.8 | 10- | 8Sc,7Ci         |
| 02-Feb-02 | 13:00 | H200    | 793.4 | -14.2 | ↗ |        | ENE | 12 | 0.4 | 10- | 2Sc,4Ac,10-Ci   |
| 02-Feb-02 | 19:00 | H116    | 818.0 | -14.3 | ⊙ | ↗      | E   | 7  | 10  | 10- | 2Sc,10-Ci       |
| 03-Feb-02 | 07:00 | H116    | 820.5 | -19.4 | ⊙ | ↗      | E   | 10 | 2   | 10- | 2Sc,10-Ci       |

| Date      | LT    | Station | Pa    | Ta    | W | Hydro. | WD  | WS   | V  | N   | CL            |
|-----------|-------|---------|-------|-------|---|--------|-----|------|----|-----|---------------|
| 03-Feb-02 | 15:00 | S30     | 861.4 | -8.5  | ① |        | ENE | 6    | 30 | 7   | 7Ci           |
| 03-Feb-02 | 19:00 | S30     | 862.2 | -10.9 | ② |        | ENE | 6    | 30 | 10- | 2Sc,10-Ci     |
| 04-Feb-02 | 06:00 | S30     | 861.6 | -14.0 | ① | ↗      | E   | 9    | 2  | 8   | 2Sc,3Ac,7Ci   |
| 04-Feb-02 | 07:00 | S30     | 861.8 | -12.6 | ① | ↗      | E   | 9    | 2  | 7   | 2Sc,5Ac,7Ci   |
| 04-Feb-02 | 08:00 | S30     | 862.0 | -10.4 | ② | ↗      | E   | 8    | 2  | 9   | 2Sc,7Ac,6Ci   |
| 04-Feb-02 | 09:00 | S30     | 863.0 | -10.3 | ① | ↗      | ENE | 8    | 2  | 8   | 1Sc,5Ac,6Ci   |
| 04-Feb-02 | 10:00 | S30     | 863.4 | -10.0 | ① | ↗      | ENE | 8    | 2  | 8   | 2Sc,7Ac,5Ci   |
| 04-Feb-02 | 11:00 | S30     | 863.8 | -10.0 | ① | ↗      | ENE | 8    | 5  | 7   | 2Sc,6Ac,3Ci   |
| 04-Feb-02 | 12:00 | S30     | 863.6 | -9.2  | ① | ↗      | ENE | 8    | 10 | 7   | 2Sc,3Ac,5Ci   |
| 04-Feb-02 | 13:00 | S30     | 863.0 | -9.1  | × |        | ENE | 8    | 10 | 9   | 1Sc,3Ac,9Ci   |
| 04-Feb-02 | 14:00 | S30     | 863.0 | -9.2  | ② |        | NE  | 7    | 10 | 9   | 1Sc,3Ac,9Ci   |
| 04-Feb-02 | 15:00 | S30     | 863.0 | -8.4  | ② |        | NE  | 8    | 10 | 10- | 2Sc,6Ac,10-Ci |
| 04-Feb-02 | 19:30 | S16     | 911.0 | -7.4  | ② |        | NE  | 7    | 10 | 10- | 2Sc,10-Ac,XCi |
| 05-Feb-02 | 07:00 | S16     | 911.0 | -11.4 | ① | ↗      | E   | 7    | 20 | 3   | 1Sc,3Ac       |
| 05-Feb-02 | 14:00 | S16     | -     | -5.4  | ② |        | -   | Calm | 30 | 10- | 0+Sc,8Ac,6Ci  |
| 05-Feb-02 | 19:00 | S16     | 910.0 | -7.6  | ② |        | E   | 4    | 30 | 10- | 1Sc,6Ac,10-Ci |
| 06-Feb-02 | 07:00 | S16     | 909.0 | -8.4  | ② | ↗      | ENE | 10   | 2  | 10- | 2Sc,2Ac,10-Ci |
| 06-Feb-02 | 12:30 | S16     | 910.2 | -6.2  | ② | ↗      | ENE | 10   | 1  | 10  | 1Sc,10As      |