# GLACIOLOGICAL RESEARCH PROGRAM IN EAST QUEEN MAUD LAND, EAST ANTARCTICA

## PART 5, 1985

Yutaka AGETA*, Tokio KIKUCHI**, Kokichi KAMIYAMA***
and Fumio OKUHIRA****

CONTENTS



* Water Research Institute, Nagoya University, Furo-cho, Chikusa-ku, Nagoya 464.
** Faculty of Science, Kochi University, 5-1, Akebonocho 2-chome, Kochi 780.
*** Geophysical Research Station, Kyoto University, Noguchi-hara, Beppu 874.
**** Gifu Prefectural Research Institute for Environmental Pollution, 58-2, Yabuta 8-chome, Gifu 500.

# I. Introduction

The 26th Japanese Antarctic Research Expedition 1984-1986 (JARE-26) extended the field work of the East Queen Maud Land Glaciological Project (abbreviated to EQGP). The details of the project were described by Higashi (1981) and Associate Committee on Glaciological Research Program in East Queen Maud Land (1982a, b), which was initiated by JARE-23 (Nishio, 1984). The major activities of JARE-26 involved oversnow traverses toward the inland plateau and Sør Rondane Mountains, and ice core drillings of 200m, 40m and 100m in depth at the Advance Camp (A.C.: 74°12'S, 34°59'E), the Dome Camp (D.C.: 77°00'S, 35°00'E) and S25 (69°02'S, 40°28'E), respectively. And also, temperature distributions and variations of diameters of the drill-hole were measured at Mizuho Station using the hole of 700m in depth bored by JARE-24 and - 25.

The main traverse of JARE-26 was planned to make observations around the dome-like plateau (Valkyrjedomen), where the second highest dome of the Antarctic ice sheet is situated. The highest area of that plateau was called as 'Dome Fuji' by our party, unofficially. At the end of the first summer of our wintering in February 1985, a base house was constructed at the Advance Camp, which would be used as a base camp for glaciological and meteorological observations, and also for traverses behind this camp. The traverse toward the dome was carried out during the second summer of our wintering in November and December 1985, and the highest place of this dome was found at 77°22'S, 39°37'E with an altitude of 3807m by the use of the doppler satellite positioning system. After the above traverse, the routes from the Advance Camp to Asuka Camp at the north of Sør Rondane Mountains were connected by our party using the routes traced by JARE-24 partly. Other trips for support and supply to Mizuho Station were also made in 1985.

Oversnow traverses by JARE-26 are shown in Fig. A (see the end of this volume), and listed in Table I-1. Among the data obtained during these traverses, the following data are compiled in this report: position, elevation and ice thickness of stations; net accumulation of snow measured by the stake method; surface meteorological data during the oversnow traverses. The other data will be presented in different publications.

Surface meteorological data at Mizuho Station was published as JARE Data Reports, No. 120 (Meteorology 19) by Kikuchi et al. (1986). Present report includes following data at Mizuho Station; the net accumulation of snow and the temperature profiles in surface snow layer. Meteorological and glaciological data at the Advance Camp will be published as JARE Data Reports (Glaciology 15) in near future, hence not included here.

The authors would like to thank Prof. Akira Higashi of International Christian University, the supervisor of the present project and Dr. Kou Kusunoki, the emeritus Prof. of the National Institute of Polar Research, for their valuable advices. Thanks are also due to all members of the wintering party of JARE-26 led by Dr. Hiroshi Fukunishi, who extended generous supports in the field work.

## References

Associate Committee on Glaciological Research Program in East Queen Maud Land (1982a): A scheme of Japanese Antarctic Glaciological Research (1). Seppyô (J. Jpn. Soc. Snow Ice), 44 (2), 115-124.

Associate Committee on Glaciological Research Program in East Queen Maud Land (1982b): A scheme of Japanese Antarctic Glaciological Research (2). Seppyô (J. Jpn. Soc. Snow Ice), 44 (3), 173-182.

Higashi, A. (1981): Glaciological research project in the east Queen Maud Land, Antarctica. Seppyô (J. Jpn. Soc. Snow Ice), 43 (2), 129-130.

Kikuchi, T., Shimamoto, T., Okuhira, F. and Ageta, Y. (1986): Meteorological data at Mizuho Station, Antarctica in 1985. JARE Data Rep., 120 (Meteorol. 19), 78p.

Nishio, F. (1984): Outline of glaciological research program in East Queen Maud Land, East Antarctica. JARE Data Rep., 94 (Glaciol. 10), 1-2.

Table I-1. Oversnow traverses carried out by JARE-26, 1985-1986.

| Period | Traverse route | Route name | Distance (km) | Position and elevation | Ice thickness | Surface meteorological data | Net accumulation |
|---|---|---|---|---|---|---|---|
| '85 Jan.11-13 | S16-Mizuho | S,H,Z | 260 | | | | |
| Jan.14-18 | S16-Mizuho | S,H,Z | 260 | | | Table III-1 | Table IV-1 |
| Jan.26-Feb.7 | Mizuho-A.C. | IM | 250 | | | -2 | -2 |
| Mar. 1-12 | A.C.-Mizuho | IM | 250 | | | -2 | -2 |
| Mar.20-Apr.1 | Mizuho-Tottsuki-Mizuho | S,H,Z | 550 | | | -3 | |
| Aug. 5-30 | Syowa-Mizuho-Syowa | S,H,Z | 570 | | | -4 | |
| Sep.17-Oct.6 | Syowa-Mizuho-Syowa | S,H,Z | 570 | | | | |
| Oct.27-Nov.6 | Syowa-Mizuho-Syowa | S,H,Z | 570 | | | -6 | |
| Sep.27-Oct.14 | Mizuho-A.C. | IM | 250 | | TAble II-5 | -5 | -2 |
| Nov. 9-Dec.25 | A.C.-Dome Fuji-A.C. | ID,DF | 1130 | Table II-1,2 | -5 | -7 | -3 |
| '86 Jan. 3-14 | A.C.-Mizuho | IM | 250 | | | -8 | -2 |
| Jan.19-Feb. 2 | Mizuho-S16 | S,H,Z | 260 | | | -8 | |
| Jan. 8-26 | A.C.-Asuka Camp | IR,KR,RY | 530 | -3,4 | | -9 | -4,5 |

A.C. : the Advance Camp

## II. Position, Elevation and Ice Thickness of Stations

### 1. Position along new routes

Observers: Kokichi KAMIYAMA, Junichi FUJII,
Fumio OKUHIRA and Tokio KIKUCHI

Four routes were newly established in 1985-1986 by JARE-26 (see Fig. A). Route ID was extended from ID 43, where JARE-25 turned back. Route DF was set from ID155 (the Dome Camp) for the survey of the second highest dome of the Antarctic ice sheet. After the above observation, Route ID was extended from ID155 and finally returned to the Advance Camp. Route IR starts from the Advance Camp and joins to Route KR which was set from Route RY by JARE-24. Route RY was extended to Asuka Camp from RY175 where JARE -24 reached. Consequently, the routes between the Advance Camp and Asuka Camp were connected.

In Route ID from the Advance Camp to the Dome Camp and Routes IR and RY, the marker stakes were installed every 1km, because the short distance between stakes was thought to be helpful for the next visit. All marker stakes which were set every 2km were numbered from the beginning to the end of the routes. These numbered stakes were to be used for snow accumulation measurements. The stakes between numbered stakes were called with prime, for example, a stake between ID100 and ID101 was called ID101'.

Navigational data, the azimuth and the distance between neighbouring stations, were obtained with a magnetic hand compass and an odometer of a vehicle, respectively. By operating a doppler satellite positioning system (JMR 4A), the positions of stations were determined from place to place along the routes. The JMR data, which were calculated on the WGS-72 earth ellipsoid with broadcasted ephemerides, were interpolated by the help of the navigational data using a standard spherical trigonometry. The positions of the stations were thus obtained on the new routes as shown in Tables II-1 for Route ID (43-409'), II-2 for Route DF (-150), II-3 for Route IR (-70) and II-4 for Route RY (175-258'). For positioning with JMR, the number of pass was 10 to 50 at most stations, and the error would be 10 to 30m (Shibuya et al., 1982). However, the errors of results in Table II-4 are thought to be more, since positionings with JMR were made at 2 stations only. Corrected results on this part will be published by JARE-27 as JARE Data Reports (Glaciology).

2. Elevation along new routes

Observer : Yutaka AGETA

The measurements with barometric altimeters (American Paulin Altimeter MM1 and Thommen 3B4) were made every 1 or 2 km along the routes. The observations with JMR also gave the data on elevation. These data are much more precise than those by barometric altimeter, thus are considered as basic data for elevation. They were obtained, however, only sporadically along the routes, and hence the JMR data were interpolated by the use of barometric data for stations between the JMR stations. The final results on elevation are tabulated in Table II together with positions. The errors in determining elevations by JMR would be about ± 10 m for the pass number of 10 to 50 (Shibuya et al., 1982).

3. Ice thickness along the routes

Observers: Kokichi KAMIYAMA and Jun'ichi FUJII

The ice thickness was measured using a radio echo sounder equipped on an oversnow vehicle. The instrument was a NIPR type consisting of a 179 MHz transmitter and a receiver with an oscilloscope as an indicator. Their specifications were given by Wada et al. (1981). The details of the operation and the method for deciding the ice thickness were similar to those used by JARE 25 reported by Fujii et al. (1986). The results are shown in Table II-5. The oblique bar in the table indicates the station where no echo was obtained. The value in parentheses is the one at the station where the echo was distinguished but not so obvious. The measurements were carried out not on the running vehicle but at lunchtime-stop and overnight-stop stations. Unfortunately at some stations the measurements were missed by the poor condition of the contact with the antena systems caused by low temperature.

References

Fujii, Y., Kawada, K., Yoshida, M. and Matsumoto, S. (1986) : Position, elevation and ice thickness of stations. JARE Data Rep., 116 (Glaciol. 13), 5-7.

Shibuya, K., Ito, K. and Kaminuma, K. (1982): Utilization of an NNSS receiver in the explosion seismic experiments on the Prince Olav Coast, East Antarctica 2. Positioning. Nankyoku Shiryô (Antarct. Rec. ), 76, 73-88.

Wada, M. and Mae, S. (1981): Air borne radio echo sounding on the Shirase Glacier and its drainage basin, East Antarctica. Nankyoku Shiryo (Antarct. Rec.), 72, 16-25.

Table II-1. Position and elevation of stations along Route ID.

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 43(γ5)*(JARE25) | 74° 59' 59" | 35° 00' 57" | 3396 |
| ID 43' | 75 00 33 | 35 01 03 | |
| ID 44 | 75 01 06 | 35 00 59 | 3401 |
| ID 44' | 75 01 38 | 35 01 01 | 3414 |
| ID 45 | 75 02 10 | 35 01 04 | 3416 |
| ID 45' | 75 02 42 | 35 01 05 | 3430 |
| ID 46 | 75 03 14 | 35 01 06 | 3441 |
| ID 46' | 75 03 44 | 35 01 07 | |
| ID 47 | 75 03 31 | 35 01 06 | 3450 |
| ID 47' | 75 04 06 | 35 01 07 | |
| ID 48 | 75 04 40 | 35 01 13 | 3459 |
| ID 48' | 75 05 14 | 35 01 10 | 3465 |
| ID 49 | 75 05 49 | 35 01 06 | 3467 |
| ID 49' | 75 05 51 | 35 01 05 | 3475 |
| ID 50 | 75 06 28 | 35 01 11 | 3478 |
| ID 50' | 75 07 06 | 35 01 12 | 3478 |
| ID 51 | 75 07 41 | 35 01 17 | 3476 |
| ID 51' | 75 08 18 | 35 01 18 | 3476 |
| ID 52 | 75 08 58 | 35 01 20 | 3478 |
| ID 52' | 75 09 31 | 35 01 17 | 3480 |
| ID 53 | 75 10 08 | 35 01 13 | 3483 |
| ID 53' | 75 10 45 | 35 01 15 | 3487 |
| ID 54 | 75 11 22 | 35 01 18 | 3487 |
| ID 54' | 75 11 59 | 35 01 13 | 3486 |
| ID 55 | 75 12 36 | 35 01 14 | 3483 |
| ID 55' | 75 13 13 | 35 01 15 | 3486 |
| ID 56* | 75 13 50 | 35 01 16 | 3487 |
| ID 56' | 75 14 22 | 35 01 06 | 3488 |
| ID 57 | 75 14 54 | 35 01 14 | 3485 |
| ID 57' | 75 15 29 | 35 01 21 | 3489 |
| ID 58 | 75 15 58 | 35 01 16 | 3491 |
| ID 58' | 75 16 30 | 35 01 18 | 3491 |
| ID 59 | 75 17 03 | 35 01 19 | 3495 |
| ID 59' | 75 17 35 | 35 01 21 | 3500 |
| ID 60 | 75 18 07 | 35 01 15 | 3505 |
| ID 60' | 75 18 43 | 35 01 05 | 3511 |
| ID 61 | 75 19 13 | 35 01 04 | 3515 |
| ID 61' | 75 19 46 | 35 00 54 | 3517 |
| ID 62 | 75 20 17 | 35 00 49 | 3516 |
| ID 62' | 75 20 52 | 35 00 44 | 3517 |
| ID 63 | 75 21 24 | 35 00 43 | 3517 |
| ID 63' | 75 21 56 | 35 00 33 | 3521 |
| ID 64 | 75 22 29 | 35 00 28 | 3524 |
| ID 64' | 75 23 02 | 35 00 23 | 3526 |
| ID 65 | 75 23 34 | 35 00 22 | 3525 |
| ID 65' | 75 24 06 | 35 00 21 | 3529 |
| ID 66 | 75 24 38 | 35 00 21 | 3530 |
| ID 66' | 75 24 51 | 35 00 18 | 3534 |
| ID 67 | 75 25 25 | 35 00 17 | 3538 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 67' | 75° 26' 00" | 35° 00' 16" | 3542 |
| ID 68 | 75 26 34 | 35 00 16 | 3544 |
| ID 68' | 75 26 58 | 35 00 13 | 3547 |
| ID 69 | 75 27 35 | 35 00 07 | 3546 |
| ID 69' | 75 28 11 | 35 00 02 | 3548 |
| ID 70 | 75 28 43 | 34 59 59 | 3551 |
| ID 70' | 75 29 21 | 34 59 49 | 3552 |
| ID 71* | 75 30 00 | 34 59 42 | 3550 |
| ID 71' | 75 30 32 | 34 59 42 | 3555 |
| ID 72 | 75 31 02 | 34 59 42 | 3556 |
| ID 72' | 75 31 35 | 34 59 36 | 3557 |
| ID 73 | 75 32 08 | 34 59 29 | 3561 |
| ID 73' | 75 32 41 | 34 59 34 | 3561 |
| ID 74 | 75 33 12 | 34 59 30 | 3563 |
| ID 74' | 75 33 44 | 34 59 32 | 3568 |
| ID 75 | 75 34 17 | 34 59 26 | 3570 |
| ID 75' | 75 34 49 | 34 59 19 | 3573 |
| ID 76 | 75 35 21 | 34 59 20 | 3576 |
| ID 76' | 75 35 53 | 34 59 15 | 3582 |
| ID 77 | 75 36 25 | 34 59 16 | 3585 |
| ID 77' | 75 36 58 | 34 59 18 | 3591 |
| ID 78 | 75 36 51 | 34 59 16 | 3599 |
| ID 78' | 75 37 24 | 34 59 19 | 3605 |
| ID 79 | 75 37 58 | 34 59 14 | 3610 |
| ID 79' | 75 38 32 | 34 59 15 | 3612 |
| ID 80 | 75 39 06 | 34 59 06 | 3616 |
| ID 80' | 75 39 09 | 34 59 04 | 3619 |
| ID 81 | 75 39 45 | 34 59 04 | 3619 |
| ID 81' | 75 40 20 | 34 59 07 | 3618 |
| ID 82 | 75 40 56 | 34 59 07 | 3621 |
| ID 82' | 75 41 31 | 34 58 58 | 3618 |
| ID 83 | 75 42 08 | 34 58 52 | 3618 |
| ID 83' | 75 42 43 | 34 58 52 | 3620 |
| ID 84 | 75 43 19 | 34 58 45 | 3619 |
| ID 84' | 75 43 54 | 34 58 50 | 3618 |
| ID 85 | 75 44 30 | 34 58 55 | 3626 |
| ID 85' | 75 45 07 | 34 58 56 | 3628 |
| ID 86 | 75 45 43 | 34 59 03 | 3630 |
| ID 86' | 75 46 18 | 34 59 05 | 3630 |
| ID 87 | 75 46 54 | 34 59 13 | 3631 |
| ID 87' | 75 47 31 | 34 59 13 | 3635 |
| ID 88 | 75 48 09 | 34 59 23 | 3638 |
| ID 88' | 75 48 44 | 34 59 26 | 3637 |
| ID 89* | 75 49 23 | 34 59 24 | 3642 |
| ID 89' | 75 49 57 | 34 59 26 | 3644 |
| ID 90 | 75 50 28 | 34 59 28 | 3648 |
| ID 90' | 75 51 00 | 34 59 29 | 3656 |
| ID 91 | 75 51 32 | 34 59 31 | 3659 |
| ID 91' | 75 51 15 | 34 59 31 | 3660 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 92 | 75° 51' 50" | 34° 59' 35" | 3657 |
| ID 92' | 75 52 26 | 34 59 39 | 3658 |
| ID 93 | 75 53 01 | 34 59 41 | 3659 |
| ID 93' | 75 53 36 | 34 59 43 | 3655 |
| ID 94 | 75 54 11 | 34 59 44 | 3655 |
| ID 94' | 75 54 47 | 34 59 41 | 3652 |
| ID 95 | 75 55 21 | 34 59 46 | 3652 |
| ID 95' | 75 55 34 | 34 59 45 | 3654 |
| ID 96 | 75 56 12 | 34 59 47 | 3655 |
| ID 96' | 75 56 50 | 34 59 48 | 3652 |
| ID 97 | 75 57 28 | 34 59 53 | 3654 |
| ID 97' | 75 58 06 | 34 59 59 | 3654 |
| ID 98 | 75 58 45 | 34 59 56 | 3654 |
| ID 98' | 75 59 20 | 34 59 56 | 3655 |
| ID 99(γ6)* | 76 00 02 | 34 59 55 | 3657 |
| ID 99' | 75 59 31 | 34 59 54 | 3662 |
| ID 100 | 76 00 04 | 34 59 58 | 3664 |
| ID 100' | 76 00 39 | 35 00 01 | 3668 |
| ID 101 | 76 01 13 | 34 59 56 | 3665 |
| ID 101' | 76 01 47 | 34 59 59 | 3667 |
| ID 102 | 76 02 22 | 34 59 53 | 3673 |
| ID 102' | 76 02 57 | 34 59 50 | 3673 |
| ID 103 | 76 03 30 | 34 59 51 | 3673 |
| ID 103' | 76 04 05 | 34 59 55 | 3676 |
| ID 104 | 76 03 57 | 34 59 54 | 3676 |
| ID 104' | 76 03 53 | 34 59 53 | 3671 |
| ID 105 | 76 04 32 | 34 59 47 | 3672 |
| ID 105' | 76 05 11 | 34 59 39 | 3671 |
| ID 106 | 76 05 49 | 34 59 41 | 3672 |
| ID 106' | 76 06 28 | 34 59 37 | 3672 |
| ID 107 | 76 07 06 | 34 59 41 | 3675 |
| ID 107' | 76 07 18 | 34 59 40 | 3676 |
| ID 108 | 76 07 59 | 34 59 36 | 3676 |
| ID 108' | 76 08 40 | 34 59 31 | 3678 |
| ID 109 | 76 09 01 | 34 59 30 | 3680 |
| ID 109' | 76 09 27 | 34 59 29 | 3682 |
| ID 110 | 76 10 12 | 34 59 23 | 3683 |
| ID 110' | 76 10 59 | 34 59 20 | 3682 |
| ID 111 | 76 11 45 | 34 59 21 | 3685 |
| ID 111' | 76 12 32 | 34 59 25 | 3688 |
| ID 112 | 76 13 11 | 34 59 24 | 3690 |
| ID 112' | 76 13 58 | 34 59 20 | 3693 |
| ID 113 | 76 14 44 | 34 59 19 | 3697 |
| ID 113'* | 76 15 35 | 34 59 11 | 3699 |
| ID 114 | 76 16 07 | 34 59 01 | 3702 |
| ID 114' | 76 16 39 | 34 58 58 | 3705 |
| ID 115 | 76 17 12 | 34 58 50 | 3706 |
| ID 115' | 76 17 44 | 34 58 40 | 3707 |
| ID 116 | 76 17 20 | 34 58 35 | 3708 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 116' | 76° 17' 53" | 34° 58' 32" | 3709 |
| ID 117 | 76 18 27 | 34 58 24 | 3710 |
| ID 117' | 76 19 01 | 34 58 14 | 3712 |
| ID 118 | 76 19 34 | 34 58 01 | 3719 |
| ID 118' | 76 20 09 | 34 57 53 | 3721 |
| ID 119 | 76 20 43 | 34 57 45 | 3719 |
| ID 119' | 76 21 16 | 34 57 38 | 3719 |
| ID 120 | 76 21 50 | 34 57 35 | 3715 |
| ID 120' | 76 22 24 | 34 57 25 | 3711 |
| ID 121 | 76 22 57 | 34 57 22 | 3713 |
| ID 121' | 76 23 32 | 34 57 19 | 3716 |
| ID 122 | 76 24 05 | 34 57 16 | 3715 |
| ID 122' | 76 24 38 | 34 57 17 | 3718 |
| ID 123 | 76 25 12 | 34 57 05 | 3718 |
| ID 123' | 76 25 45 | 34 56 57 | 3719 |
| ID 124 | 76 26 18 | 34 56 54 | 3722 |
| ID 124' | 76 26 52 | 34 56 44 | 3726 |
| ID 125 | 76 27 27 | 34 56 51 | 3728 |
| ID 125' | 76 28 01 | 34 56 50 | 3730 |
| ID 126 | 76 28 14 | 34 56 45 | 3732 |
| ID 126' | 76 28 50 | 34 56 42 | 3736 |
| ID 127 | 76 29 08 | 34 56 37 | 3740 |
| ID 127' | 76 29 45 | 34 56 34 | 3743 |
| ID 128 | 76 30 23 | 34 56 38 | 3745 |
| ID 128' | 76 30 48 | 34 56 33 | 3747 |
| ID 129 | 76 31 17 | 34 56 27 | 3747 |
| ID 129' | 76 31 58 | 34 56 29 | 3747 |
| ID 130 | 76 32 39 | 34 56 31 | 3751 |
| ID 130' | 76 33 14 | 34 56 26 | 3750 |
| ID 131 | 76 33 56 | 34 56 33 | 3748 |
| ID 131' | 76 34 39 | 34 56 37 | 3748 |
| ID 132* | 76 35 21 | 34 56 34 | 3747 |
| ID 132' | 76 35 54 | 34 56 31 | 3752 |
| ID 133 | 76 36 26 | 34 56 28 | 3755 |
| ID 133' | 76 36 58 | 34 56 27 | 3759 |
| ID 134 | 76 37 30 | 34 56 26 | 3760 |
| ID 134' | 76 38 02 | 34 56 18 | 3763 |
| ID 135 | 76 38 36 | 34 56 20 | 3762 |
| ID 135' | 76 39 07 | 34 56 17 | 3763 |
| ID 136 | 76 39 39 | 34 56 19 | 3763 |
| ID 136' | 76 40 11 | 34 56 11 | 3763 |
| ID 137 | 76 40 43 | 34 56 08 | 3765 |
| ID 137' | 76 41 16 | 34 56 10 | 3764 |
| ID 138 | 76 41 48 | 34 56 09 | 3762 |
| ID 138' | 76 42 20 | 34 56 11 | 3763 |
| ID 139 | 76 42 13 | 34 56 05 | 3765 |
| ID 139' | 76 42 47 | 34 55 55 | 3767 |
| ID 140 | 76 43 21 | 34 55 59 | 3766 |
| ID 140' | 76 43 55 | 34 55 58 | 3766 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 141 | 76° 44' 29" | 34° 55' 58" | 3767 |
| ID 141' | 76 45 03 | 34 55 59 | 3766 |
| ID 142 | 76 45 37 | 34 56 04 | 3768 |
| ID 142' | 76 46 11 | 34 56 03 | 3767 |
| ID 143 | 76 46 45 | 34 56 02 | 3773 |
| ID 143' | 76 47 19 | 34 56 07 | 3776 |
| ID 144 | 76 47 53 | 34 56 06 | 3783 |
| ID 144' | 76 48 27 | 34 56 03 | 3777 |
| ID 145 | 76 49 01 | 34 56 00 | 3781 |
| ID 145' | 76 49 35 | 34 56 04 | 3781 |
| ID 146 | 76 50 09 | 34 56 03 | 3781 |
| ID 146' | 76 50 43 | 34 56 10 | 3783 |
| ID 147 | 76 51 16 | 34 56 12 | 3784 |
| ID 147' | 76 51 52 | 34 56 14 | 3783 |
| ID 148 | 76 52 24 | 34 56 13 | 3783 |
| ID 148' | 76 52 58 | 34 56 05 | 3785 |
| ID 149 | 76 53 32 | 34 55 57 | 3785 |
| ID 149' | 76 54 06 | 34 56 02 | 3787 |
| ID 150* | 76 54 40 | 34 55 56 | 3787 |
| ID 150' | 76 55 13 | 34 56 20 | 3788 |
| ID 151 | 76 55 44 | 34 56 44 | 3786 |
| ID 151' | 76 56 16 | 34 57 08 | 3784 |
| ID 152 | 76 56 49 | 34 57 34 | 3780 |
| ID 152' | 76 57 21 | 34 57 58 | 3780 |
| ID 153 | 76 57 53 | 34 58 24 | 3775 |
| ID 153' | 76 58 25 | 34 58 48 | 3773 |
| ID 154 | 76 58 57 | 34 59 09 | 3768 |
| ID 154' | 76 59 29 | 34 59 31 | 3767 |
| ID 155(D.C.)* | 77 00 01 | 35 00 00 | 3761 |
| ID 156 | 76 59 57 | 34 55 12 | 3757 |
| ID 157 | 76 59 52 | 34 50 24 | 3758 |
| ID 158 | 76 59 50 | 34 45 36 | 3758 |
| ID 159 | 76 59 48 | 34 40 49 | 3754 |
| ID 160 | 76 59 46 | 34 36 01 | 3751 |
| ID 161 | 76 59 42 | 34 31 13 | 3752 |
| ID 162 | 76 59 38 | 34 26 25 | 3749 |
| ID 163 | 76 59 37 | 34 21 38 | 3748 |
| ID 164 | 76 59 32 | 34 16 50 | 3744 |
| ID 165 | 76 59 20 | 34 12 06 | 3747 |
| ID 166 | 76 59 15 | 34 07 18 | 3746 |
| ID 167 | 76 59 07 | 34 02 32 | 3743 |
| ID 168 | 76 59 06 | 33 57 44 | 3742 |
| ID 169 | 76 59 06 | 33 52 57 | 3741 |
| ID 170 | 76 59 05 | 33 48 10 | 3745 |
| ID 171 | 76 59 02 | 33 43 23 | 3745 |
| ID 172 | 76 59 01 | 33 38 36 | 3744 |
| ID 173 | 76 59 03 | 33 33 49 | 3740 |
| ID 174 | 76 59 04 | 33 29 02 | 3740 |
| ID 175 | 76 59 03 | 33 24 15 | 3739 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 176 | 76° 59' 07" | 33° 19' 30" | 3740 |
| ID 177 | 76 59 06 | 33 14 43 | 3739 |
| ID 178 | 76 59 05 | 33 09 55 | 3740 |
| ID 179 | 76 58 57 | 33 05 09 | 3739 |
| ID 180 | 76 58 54 | 33 00 22 | 3738 |
| ID 181 | 76 58 53 | 32 55 35 | 3743 |
| ID 182 | 76 58 53 | 32 50 49 | 3740 |
| ID 183 | 76 58 55 | 32 46 02 | 3742 |
| ID 184 | 76 58 51 | 32 41 15 | 3736 |
| ID 185 | 76 58 51 | 32 36 28 | 3738 |
| ID 186 | 76 58 56 | 32 31 43 | 3737 |
| ID 187 | 76 58 55 | 32 26 57 | 3734 |
| ID 188 | 76 58 55 | 32 22 10 | 3735 |
| ID 189 | 76 59 00 | 32 17 25 | 3736 |
| ID 190 | 76 58 59 | 32 12 38 | 3734 |
| ID 191 | 76 58 57 | 32 07 51 | 3734 |
| ID 192 | 76 58 52 | 32 03 05 | 3733 |
| ID 193 | 76 58 47 | 31 58 18 | 3733 |
| ID 194 | 76 58 45 | 31 53 31 | 3735 |
| ID 195 | 76 58 41 | 31 48 45 | 3734 |
| ID 196 | 76 58 38 | 31 43 58 | 3731 |
| ID 197 | 76 58 35 | 31 39 11 | 3737 |
| ID 198 | 76 58 29 | 31 34 25 | 3739 |
| ID 199 | 76 58 25 | 31 29 38 | 3737 |
| ID 200 | 76 58 21 | 31 24 51 | 3737 |
| ID 201 | 76 58 17 | 31 20 05 | 3734 |
| ID 202 | 76 58 14 | 31 15 18 | 3730 |
| ID 203 | 76 58 09 | 31 10 32 | 3730 |
| ID 204 | 76 58 05 | 31 05 46 | 3727 |
| ID 205(γ7)* | 76 57 56 | 31 01 01 | 3730 |
| ID 206 | 76 56 37 | 31 01 41 | 3733 |
| ID 207 | 76 55 28 | 31 02 11 | 3736 |
| ID 208 | 76 54 29 | 31 02 42 | 3739 |
| ID 209 | 76 53 20 | 31 03 27 | 3741 |
| ID 210 | 76 52 11 | 31 04 07 | 3746 |
| ID 211 | 76 51 03 | 31 04 52 | 3749 |
| ID 212 | 76 49 54 | 31 05 47 | 3749 |
| ID 213 | 76 48 45 | 31 06 12 | 3750 |
| ID 214 | 76 47 37 | 31 06 47 | 3752 |
| ID 215 | 76 46 28 | 31 07 32 | 3754 |
| ID 216 | 76 45 19 | 31 08 12 | 3757 |
| ID 217 | 76 44 11 | 31 09 17 | 3757 |
| ID 218 | 76 43 02 | 31 10 11 | 3754 |
| ID 219 | 76 41 54 | 31 10 27 | 3757 |
| ID 220 | 76 40 45 | 31 11 02 | 3751 |
| ID 221 | 76 39 36 | 31 11 42 | 3754 |
| ID 222 | 76 38 27 | 31 12 07 | 3749 |
| ID 223 | 76 37 19 | 31 13 02 | 3747 |
| ID 224 | 76 36 10 | 31 13 51 | 3750 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 225 | 76° 35' 01" | 31° 14' 12" | 3746 |
| ID 226 | 76 33 53 | 31 15 25 | 3744 |
| ID 227 | 76 32 45 | 31 16 00 | 3744 |
| ID 228 | 76 31 36 | 31 16 45 | 3743 |
| ID 229 | 76 30 27 | 31 17 20 | 3741 |
| ID 230 | 76 31 18 | 31 17 50 | 3738 |
| ID 231 | 76 30 14 | 31 18 25 | 3738 |
| ID 232* | 76 29 10 | 31 19 10 | 3736 |
| ID 233 | 76 27 57 | 31 18 55 | 3735 |
| ID 234 | 76 26 43 | 31 18 59 | 3731 |
| ID 235 | 76 25 29 | 31 19 22 | 3731 |
| ID 236 | 76 24 15 | 31 19 31 | 3728 |
| ID 237 | 76 23 01 | 31 19 26 | 3729 |
| ID 238 | 76 21 47 | 31 19 49 | 3729 |
| ID 239 | 76 20 33 | 31 20 02 | 3724 |
| ID 240 | 76 19 19 | 31 20 11 | 3719 |
| ID 241 | 76 18 05 | 31 20 20 | 3721 |
| ID 242 | 76 16 51 | 31 20 30 | 3719 |
| ID 243 | 76 15 37 | 31 20 29 | 3717 |
| ID 244 | 76 14 23 | 31 20 52 | 3712 |
| ID 245 | 76 13 10 | 31 20 29 | 3708 |
| ID 246 | 76 11 56 | 31 20 43 | 3705 |
| ID 247 | 76 10 41 | 31 21 06 | 3701 |
| ID 248 | 76 09 27 | 31 21 15 | 3693 |
| ID 249 | 76 08 13 | 31 21 48 | 3685 |
| ID 250 | 76 06 59 | 31 22 02 | 3674 |
| ID 251 | 76 05 45 | 31 22 16 | 3667 |
| ID 252 | 76 04 31 | 31 22 16 | 3671 |
| ID 253 | 76 04 57 | 31 22 44 | 3671 |
| ID 254 | 76 03 49 | 31 22 35 | 3667 |
| ID 255 | 76 02 40 | 31 22 35 | 3663 |
| ID 256 | 76 03 25 | 31 23 03 | 3664 |
| ID 257 | 76 02 21 | 31 23 03 | 3661 |
| ID 258 | 76 01 16 | 31 23 12 | 3654 |
| ID 259($\gamma$8)* | 76 00 12 | 31 23 17 | 3648 |
| ID 260 | 75 58 51 | 31 23 20 | 3651 |
| ID 261 | 75 57 31 | 31 23 17 | 3649 |
| ID 262 | 75 56 17 | 31 23 29 | 3650 |
| ID 263 | 75 54 59 | 31 23 50 | 3642 |
| ID 264 | 75 53 40 | 31 24 16 | 3641 |
| ID 265 | 75 52 22 | 31 24 33 | 3636 |
| ID 266 | 75 51 04 | 31 24 58 | 3633 |
| ID 267 | 75 49 46 | 31 25 01 | 3631 |
| ID 268 | 75 48 27 | 31 24 59 | 3627 |
| ID 269 | 75 47 09 | 31 24 57 | 3624 |
| ID 270 | 75 45 51 | 31 24 55 | 3626 |
| ID 271 | 75 44 32 | 31 25 16 | 3624 |
| ID 272 | 75 43 14 | 31 25 42 | 3623 |
| ID 273 | 75 41 56 | 31 25 58 | 3625 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 274 | 75° 40' 37" | 31° 26' 01" | 3622 |
| ID 275 | 75 39 19 | 31 25 59 | 3621 |
| ID 276 | 75 38 40 | 31 26 11 | 3612 |
| ID 277 | 75 37 24 | 31 26 09 | 3608 |
| ID 278 | 75 36 08 | 31 26 12 | 3608 |
| ID 279 | 75 34 52 | 31 26 01 | 3602 |
| ID 280 | 75 33 36 | 31 25 55 | 3588 |
| ID 281 | 75 32 20 | 31 26 20 | 3576 |
| ID 282 | 75 31 04 | 31 26 27 | 3573 |
| ID 283 | 75 29 48 | 31 26 44 | 3573 |
| ID 284 | 75 28 32 | 31 26 51 | 3573 |
| ID 285 | 75 28 16 | 31 27 03 | 3574 |
| ID 286 | 75 28 05 | 31 27 15 | 3575 |
| ID 287 | 75 26 53 | 31 27 31 | 3575 |
| ID 288 | 75 25 42 | 31 27 39 | 3570 |
| ID 289 | 75 24 30 | 31 27 41 | 3562 |
| ID 290 | 75 23 19 | 31 27 40 | 3559 |
| ID 291 | 75 22 08 | 31 27 47 | 3560 |
| ID 292 | 75 20 56 | 31 27 50 | 3555 |
| ID 293 | 75 19 45 | 31 27 58 | 3550 |
| ID 294 | 75 18 33 | 31 28 05 | 3540 |
| ID 295 | 75 17 22 | 31 28 13 | 3536 |
| ID 296 | 75 16 10 | 31 28 11 | 3534 |
| ID 297 | 75 16 27 | 31 28 23 | 3536 |
| ID 298 | 75 15 17 | 31 28 30 | 3534 |
| ID 299 | 75 14 08 | 31 28 55 | 3531 |
| ID 300 | 75 14 34 | 31 29 07 | 3533 |
| ID 301 | 75 13 27 | 31 28 57 | 3536 |
| ID 302 | 75 12 20 | 31 29 05 | 3529 |
| ID 303 | 75 11 14 | 31 29 12 | 3520 |
| ID 304 | 75 10 07 | 31 29 19 | 3507 |
| ID 305 | 75 09 00 | 31 29 14 | 3487 |
| ID 306 | 75 09 42 | 31 29 26 | 3478 |
| ID 307 | 75 08 37 | 31 29 24 | 3474 |
| ID 308 | 75 07 33 | 31 29 27 | 3472 |
| ID 309 | 75 06 28 | 31 29 26 | 3459 |
| ID 310 | 75 05 24 | 31 29 29 | 3439 |
| ID 311 | 75 04 19 | 31 29 32 | 3432 |
| ID 312 | 75 03 21 | 31 30 04 | 3427 |
| ID 313 | 75 02 17 | 31 29 49 | 3425 |
| ID 314 | 75 01 13 | 31 29 48 | 3420 |
| ID 315(γ 9)* | 75 00 09 | 31 29 21 | 3414 |
| ID 316 | 74 58 53 | 31 29 18 | 3409 |
| ID 317 | 74 57 43 | 31 29 32 | 3406 |
| ID 318 | 74 56 30 | 31 29 55 | 3397 |
| ID 319 | 74 55 17 | 31 30 14 | 3389 |
| ID 320 | 74 54 04 | 31 30 41 | 3377 |
| ID 321 | 74 52 51 | 31 31 00 | 3372 |
| ID 322 | 74 51 37 | 31 31 19 | 3366 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 323 | 74° 50' 25" | 31° 32' 03" | 3362 |
| ID 324 | 74 49 12 | 31 32 30 | 3355 |
| ID 325 | 74 47 59 | 31 32 49 | 3344 |
| ID 326 | 74 46 45 | 31 33 12 | 3340 |
| ID 327 | 74 45 32 | 31 33 30 | 3335 |
| ID 328 | 74 44 19 | 31 33 40 | 3331 |
| ID 329 | 74 43 06 | 31 33 59 | 3322 |
| ID 330 | 74 41 53 | 31 34 26 | 3313 |
| ID 331 | 74 40 40 | 31 34 49 | 3313 |
| ID 332 | 74 39 27 | 31 34 59 | 3310 |
| ID 333 | 74 39 05 | 31 35 13 | 3302 |
| ID 334 | 74 37 55 | 31 35 40 | 3294 |
| ID 335 | 74 36 45 | 31 35 46 | 3285 |
| ID 336 | 74 36 35 | 31 36 01 | 3283 |
| ID 337 | 74 35 28 | 31 36 19 | 3276 |
| ID 338 | 74 34 20 | 31 36 29 | 3276 |
| ID 339 | 74 33 13 | 31 36 39 | 3275 |
| ID 340 | 74 32 05 | 31 36 49 | 3274 |
| ID 341 | 74 30 58 | 31 37 25 | 3264 |
| ID 342 | 74 29 51 | 31 37 47 | 3246 |
| ID 343 | 74 28 44 | 31 38 23 | 3236 |
| ID 344 | 74 29 00 | 31 38 37 | 3237 |
| ID 345 | 74 27 55 | 31 38 56 | 3229 |
| ID 346 | 74 26 51 | 31 39 18 | 3214 |
| ID 347 | 74 25 46 | 31 39 37 | 3200 |
| ID 348 | 74 24 42 | 31 40 04 | 3183 |
| ID 349 | 74 23 37 | 31 40 14 | 3173 |
| ID 350 | 74 22 33 | 31 40 24 | 3170 |
| ID 351 | 74 21 28 | 31 40 26 | 3164 |
| ID 352 | 74 20 24 | 31 40 36 | 3153 |
| ID 353 | 74 19 19 | 31 40 46 | 3148 |
| ID 354 | 74 18 15 | 31 40 56 | 3142 |
| ID 355 | 74 17 10 | 31 41 15 | 3132 |
| ID 356 | 74 16 06 | 31 41 17 | 3120 |
| ID 357 | 74 15 01 | 31 41 18 | 3111 |
| ID 358 | 74 13 57 | 31 41 45 | 3100 |
| ID 359 | 74 12 52 | 31 42 12 | 3094 |
| ID 360($\gamma$10)* | 74 11 48 | 31 42 47 | 3092 |
| ID 361 | 74 11 44 | 31 46 43 | 3093 |
| ID 362 | 74 11 46 | 31 50 41 | 3094 |
| ID 363 | 74 11 44 | 31 54 38 | 3091 |
| ID 364 | 74 11 44 | 31 58 36 | 3086 |
| ID 365 | 74 11 48 | 32 02 33 | 3077 |
| ID 366 | 74 11 48 | 32 06 31 | 3076 |
| ID 367 | 74 11 48 | 32 10 29 | 3099 |
| ID 368 | 74 11 48 | 32 14 26 | 3130 |
| ID 369 | 74 11 50 | 32 18 24 | 3144 |
| ID 370 | 74 11 56 | 32 22 21 | 3148 |
| ID 371 | 74 11 59 | 32 26 19 | 3156 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| ID 372 | 74° 11' 56" | 32° 30' 16" | 3160 |
| ID 373 | 74 11 52 | 32 34 13 | 3165 |
| ID 374 | 74 11 57 | 32 38 11 | 3171 |
| ID 375 | 74 11 56 | 32 42 08 | 3169 |
| ID 376 | 74 11 53 | 32 46 05 | 3165 |
| ID 377 | 74 11 50 | 32 50 02 | 3168 |
| ID 378 | 74 11 49 | 32 54 00 | 3170 |
| ID 379 | 74 11 46 | 32 57 57 | 3180 |
| ID 380 | 74 11 46 | 33 01 55 | 3186 |
| ID 381 | 74 11 49 | 33 05 52 | 3187 |
| ID 382 | 74 12 00 | 33 09 49 | 3185 |
| ID 383 | 74 11 56 | 33 13 46 | 3182 |
| ID 384 | 74 11 59 | 33 17 44 | 3179 |
| ID 385 | 74 11 58 | 33 21 41 | 3177 |
| ID 386 | 74 11 55 | 33 25 38 | 3179 |
| ID 387 | 74 11 49 | 33 29 35 | 3184 |
| ID 388 | 74 11 47 | 33 33 32 | 3186 |
| ID 389 | 74 11 49 | 33 37 30 | 3184 |
| ID 390 | 74 11 46 | 33 41 27 | 3183 |
| ID 391 | 74 11 40 | 33 45 23 | 3179 |
| ID 392 | 74 11 37 | 33 49 20 | 3177 |
| ID 393 | 74 11 40 | 33 53 18 | 3174 |
| ID 394 | 74 11 43 | 33 57 16 | 3180 |
| ID 395 | 74 11 42 | 34 01 14 | 3184 |
| ID 396 | 74 11 35 | 34 05 09 | 3188 |
| ID 397 | 74 11 29 | 34 09 05 | 3188 |
| ID 398 | 74 11 22 | 34 13 00 | 3191 |
| ID 399 | 74 11 14 | 34 16 55 | 3198 |
| ID 400 | 74 11 17 | 34 20 53 | 3201 |
| ID 401 | 74 11 16 | 34 24 51 | 3201 |
| ID 402 | 74 11 22 | 34 28 49 | 3200 |
| ID 403 | 74 11 18 | 34 32 46 | 3195 |
| ID 404 | 74 11 19 | 34 36 44 | 3192 |
| ID 405 | 74 11 14 | 34 40 40 | 3192 |
| ID 406 | 74 11 14 | 34 44 38 | 3191 |
| ID 407 | 74 11 15 | 34 48 36 | 3189 |
| ID 408 | 74 11 18 | 34 52 34 | 3190 |
| ID 409 | 74 11 42 | 34 56 18 | 3196 |
| ID 409' | 74 11 57 | 34 58 08 | 3199 |
| IM252 (A.C.)* | 74 12 02 | 34 59 08 | 3198 |

A.C. = Advance Camp
D.C. = Dome Camp

Table II-2. Position and elevation of stations along Route DF.

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| DF 1 | 77° 00' 02" | 35° 04' 43" | 3762 |
| DF 2 | 77 00 07 | 35 09 32 | 3761 |
| DF 3 | 77 00 12 | 35 14 21 | 3760 |
| DF 4 | 77 00 08 | 35 19 10 | 3764 |
| DF 5 | 77 00 07 | 35 23 59 | 3766 |
| DF 6 | 77 00 04 | 35 28 49 | 3767 |
| DF 7 | 77 00 08 | 35 33 38 | 3765 |
| DF 8 | 77 00 07 | 35 38 28 | 3766 |
| DF 9 | 77 00 04 | 35 43 17 | 3767 |
| DF 10 | 77 00 03 | 35 48 07 | 3768 |
| DF 11 | 77 00 00 | 35 52 49 | 3766 |
| DF 12 | 76 59 58 | 35 57 46 | 3770 |
| DF 13 | 76 59 55 | 36 02 35 | 3772 |
| DF 14 | 76 59 49 | 36 07 23 | 3773 |
| DF 15 | 76 59 48 | 36 12 13 | 3774 |
| DF 16 | 76 59 46 | 36 17 02 | 3777 |
| DF 17 | 76 59 42 | 36 21 51 | 3779 |
| DF 18 | 76 59 40 | 36 26 41 | 3781 |
| DF 19 | 76 59 34 | 36 31 29 | 3782 |
| DF 20 | 76 59 28 | 36 36 10 | 3782 |
| DF 21 | 76 59 23 | 36 41 05 | 3781 |
| DF 22 | 76 59 23 | 36 45 55 | 3779 |
| DF 23 | 76 59 16 | 36 50 35 | 3780 |
| DF 24 | 76 59 13 | 36 55 24 | 3778 |
| DF 25* | 76 59 18 | 37 00 13 | 3780 |
| DF 26 | 76 59 10 | 37 05 01 | 3783 |
| DF 27 | 76 59 11 | 37 09 50 | 3785 |
| DF 28 | 76 59 07 | 37 14 38 | 3782 |
| DF 29 | 76 59 03 | 37 19 27 | 3783 |
| DF 30 | 76 58 57 | 37 24 16 | 3786 |
| DF 31 | 76 58 52 | 37 29 04 | 3787 |
| DF 32 | 76 58 45 | 37 33 51 | 3788 |
| DF 33 | 76 58 37 | 37 38 32 | 3785 |
| DF 34 | 76 58 40 | 37 43 20 | 3785 |
| DF 35 | 76 58 41 | 37 48 09 | 3786 |
| DF 36 | 76 58 26 | 37 52 50 | 3786 |
| DF 37 | 76 58 20 | 37 57 38 | 3789 |
| DF 38 | 76 58 22 | 38 02 27 | 3789 |
| DF 39 | 76 58 22 | 38 07 15 | 3786 |
| DF 40 | 76 58 22 | 38 12 04 | 3785 |
| DF 41 | 76 58 22 | 38 16 53 | 3787 |
| DF 42 | 76 58 15 | 38 21 41 | 3789 |
| DF 43 | 76 58 09 | 38 26 28 | 3789 |
| DF 44 | 76 58 01 | 38 31 08 | 3793 |
| DF 45 | 76 58 01 | 38 36 11 | 3795 |
| DF 46 | 76 58 04 | 38 40 59 | 3795 |
| DF 47 | 76 58 10 | 38 45 46 | 3795 |
| DF 48 | 76 58 04 | 38 50 34 | 3794 |
| DF 49 | 76 58 02 | 38 55 22 | 3791 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| DF 50* | 76° 58' 07" | 39° 00' 10" | 3789 |
| DF 51(from DF46) | 76 59 09 | 38 39 54 | 3794 |
| DF 52 | 77 00 13 | 38 38 49 | 3796 |
| DF 53 | 77 01 17 | 38 37 24 | 3797 |
| DF 54 | 77 02 20 | 38 36 05 | 3798 |
| DF 55 | 77 03 25 | 38 34 54 | 3796 |
| DF 56 | 77 04 28 | 38 33 25 | 3797 |
| DF 57 | 77 05 18 | 38 30 02 | 3800 |
| DF 58 | 77 06 02 | 38 26 36 | 3801 |
| DF 59 | 77 06 51 | 38 23 18 | 3802 |
| DF 60 | 77 07 37 | 38 26 49 | 3803 |
| DF 61 | 77 08 15 | 38 30 49 | 3803 |
| DF 62 | 77 08 58 | 38 34 31 | 3803 |
| DF 63* | 77 09 42 | 38 38 09 | 3801 |
| DF 64 | 77 10 23 | 38 41 56 | 3803 |
| DF 65 | 77 11 09 | 38 45 23 | 3802 |
| DF 66 | 77 11 55 | 38 48 53 | 3802 |
| DF 67 | 77 12 40 | 38 52 27 | 3804 |
| DF 68 | 77 13 21 | 38 56 15 | 3804 |
| DF 69 | 77 14 05 | 38 59 53 | 3803 |
| DF 70 | 77 14 31 | 39 04 19 | 3801 |
| DF 71 | 77 15 02 | 39 08 37 | 3803 |
| DF 72* | 77 15 29 | 39 13 04 | 3802 |
| DF 73 | 77 16 22 | 39 15 55 | 3804 |
| DF 74 | 77 17 14 | 39 18 50 | 3803 |
| DF 75 | 77 18 08 | 39 21 36 | 3808 |
| DF 76 | 77 19 01 | 39 24 31 | 3805 |
| DF 77 | 77 19 51 | 39 27 39 | 3804 |
| DF 78 | 77 20 41 | 39 30 46 | 3807 |
| DF 79 | 77 21 34 | 39 33 42 | 3808 |
| DF 80* | 77 22 24 | 39 36 50 | 3807 |
| DF 81 | 77 22 32 | 39 31 51 | 3807 |
| DF 82 | 77 22 32 | 39 26 53 | 3805 |
| DF 83 | 77 22 33 | 39 21 45 | 3804 |
| DF 84 | 77 22 34 | 39 16 57 | 3803 |
| DF 85 | 77 22 33 | 39 11 59 | 3801 |
| DF 86 | 77 22 31 | 39 07 01 | 3801 |
| DF 87 | 77 22 32 | 39 02 04 | 3803 |
| DF 88 | 77 22 35 | 38 56 59 | 3801 |
| DF 89 | 77 22 35 | 38 52 09 | 3799 |
| DF 90 | 77 22 35 | 38 47 11 | 3801 |
| DF 91 | 77 22 40 | 38 42 14 | 3798 |
| DF 92 | 77 22 35 | 38 37 17 | 3794 |
| DF 93 | 77 22 29 | 38 32 19 | 3796 |
| DF 94 | 77 22 29 | 38 27 22 | 3798 |
| DF 95 | 77 22 29 | 38 22 24 | 3798 |
| DF 96 | 77 22 30 | 38 17 26 | 3795 |
| DF 97 | 77 22 29 | 38 12 28 | 3795 |
| DF 98 | 77 22 21 | 38 07 32 | 3795 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| DF 99 | 77° 22' 20" | 38° 02' 35" | 3794 |
| DF 100 | 77 22 19 | 37 57 37 | 3790 |
| DF 101 | 77 22 19 | 37 52 39 | 3790 |
| DF 102 | 77 22 15 | 37 47 42 | 3787 |
| DF 103 | 77 22 11 | 37 42 44 | 3789 |
| DF 104* | 77 22 12 | 37 37 47 | 3788 |
| DF 105 | 77 22 09 | 37 32 49 | 3788 |
| DF 106 | 77 22 12 | 37 27 52 | 3786 |
| DF 107 | 77 22 12 | 37 22 43 | 3784 |
| DF 108 | 77 22 15 | 37 17 57 | 3780 |
| DF 109 | 77 22 12 | 37 12 58 | 3779 |
| DF 110 | 77 22 10 | 37 08 00 | 3776 |
| DF 111 | 77 22 14 | 37 03 04 | 3778 |
| DF 112 | 77 22 14 | 36 58 06 | 3778 |
| DF 113 | 77 22 12 | 36 53 08 | 3778 |
| DF 114 | 77 22 13 | 36 48 10 | 3772 |
| DF 115 | 77 22 11 | 36 43 12 | 3771 |
| DF 116 | 77 22 08 | 36 38 14 | 3770 |
| DF 117 | 77 22 14 | 36 33 18 | 3767 |
| DF 118 | 77 22 09 | 36 28 20 | 3766 |
| DF 119 | 77 22 06 | 36 23 22 | 3765 |
| DF 120 | 77 22 12 | 36 18 27 | 3765 |
| DF 121 | 77 22 11 | 36 13 29 | 3764 |
| DF 122 | 77 22 13 | 36 08 32 | 3764 |
| DF 123 | 77 22 18 | 36 03 35 | 3763 |
| DF 124 | 77 22 22 | 35 58 39 | 3764 |
| DF 125 | 77 22 18 | 35 53 41 | 3763 |
| DF 126 | 77 22 15 | 35 48 43 | 3763 |
| DF 127 | 77 22 17 | 35 43 46 | 3763 |
| DF 128 | 77 22 13 | 35 38 48 | 3762 |
| DF 129 | 77 22 10 | 35 33 51 | 3761 |
| DF 130 | 77 22 07 | 35 28 53 | 3761 |
| DF 131 | 77 22 09 | 35 23 56 | 3760 |
| DF 132* | 77 22 07 | 35 18 58 | 3758 |
| DF 133 | 77 21 58 | 35 14 27 | 3758 |
| DF 134 | 77 21 53 | 35 09 57 | 3756 |
| DF 135 | 77 21 52 | 35 05 30 | 3753 |
| DF 136 | 77 21 45 | 35 01 40 | 3748 |
| DF 137 | 77 19 58 | 35 01 33 | 3747 |
| DF 138 | 77 18 11 | 35 01 35 | 3747 |
| DF 139 | 77 16 24 | 35 02 14 | 3758 |
| DF 140 | 77 16 02 | 35 02 39 | 3759 |
| DF 141 | 77 14 26 | 35 02 25 | 3761 |
| DF 142 | 77 12 50 | 35 01 48 | 3760 |
| DF 143 | 77 11 14 | 35 01 34 | 3758 |
| DF 144 | 77 09 38 | 35 01 51 | 3759 |
| DF 145 | 77 08 02 | 35 01 15 | 3758 |
| DF 146 | 77 06 26 | 35 01 09 | 3759 |
| DF 147 | 77 04 49 | 35 00 48 | 3761 |

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| DF 148 | 77° 03' 13" | 35° 00' 27" | 3761 |
| DF 149 | 77 01 37 | 34 59 58 | 3760 |
| DF 150 (ID155 = D.C.)* | 77 00 01 | 35 00 00 | 3761 |

D.C. = Dome Camp

Table II-3. Position and elevation of stations along Route IR.

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| IM 252 (A.C.)* | 74° 12' 02" | 34° 59' 08" | 3198 |
| IR 0' | 74 11 40 | 34 57 44 | 3193 |
| IR 1 | 74 11 19 | 34 56 14 | 3187 |
| IR 1' | 74 10 58 | 34 54 46 | 3188 |
| IR 2 | 74 10 37 | 34 53 17 | 3185 |
| IR 2' | 74 10 16 | 34 51 51 | 3178 |
| IR 3 | 74 09 54 | 34 50 24 | 3177 |
| IR 3' | 74 09 33 | 34 48 57 | 3172 |
| IR 4 | 74 09 11 | 34 47 30 | 3171 |
| IR 4' | 74 08 48 | 34 46 09 | 3170 |
| IR 5 | 74 08 25 | 34 44 48 | 3170 |
| IR 5' | 74 08 03 | 34 43 24 | 3173 |
| IR 6 | 74 07 41 | 34 42 00 | 3170 |
| IR 6' | 74 07 19 | 34 40 32 | 3167 |
| IR 7 | 74 06 58 | 34 39 04 | 3158 |
| IR 7' | 74 06 37 | 34 37 36 | 3157 |
| IR 8 | 74 06 16 | 34 36 09 | 3156 |
| IR 8' | 74 05 55 | 34 34 41 | 3156 |
| IR 9 | 74 05 34 | 34 33 13 | 3157 |
| IR 9' | 74 05 14 | 34 31 42 | 3153 |
| IR 10 | 74 04 54 | 34 30 12 | 3147 |
| IR 10' | 74 04 35 | 34 28 39 | |
| IR 11 | 74 04 15 | 34 27 05 | 3142 |
| IR 11' | 74 03 56 | 34 25 32 | 3141 |
| IR 12 | 74 03 37 | 34 23 59 | 3134 |
| IR 12' | 74 03 15 | 34 22 33 | 3130 |
| IR 13 | 74 02 54 | 34 21 07 | 3126 |
| IR 13' | 74 02 34 | 34 19 37 | 3128 |
| IR 14 | 74 02 13 | 34 18 06 | 3129 |
| IR 14' | 74 01 53 | 34 16 37 | 3130 |
| IR 15 | 74 01 32 | 34 15 08 | 3132 |
| IR 15' | 74 01 12 | 34 13 38 | 3134 |
| IR 16 | 74 00 52 | 34 12 08 | 3132 |
| IR 16' | 74 00 29 | 34 10 45 | 3127 |
| IR 17 | 74 00 07 | 34 09 22 | 3119 |
| IR 17' | 73 59 46 | 34 07 56 | 3116 |
| IR 18 | 73 59 24 | 34 06 30 | 3110 |
| IR 18' | 73 59 03 | 34 05 04 | |
| IR 19 | 73 58 41 | 34 03 38 | 3099 |
| IR 19' | 73 58 23 | 34 02 03 | 3092 |
| IR 20 | 73 58 05 | 34 00 28 | 3086 |
| IR 20' | 73 57 44 | 33 58 58 | 3070 |
| IR 21 | 73 57 24 | 33 57 28 | 3057 |
| IR 21' | 73 57 04 | 33 55 58 | 3060 |
| IR 22 | 73 56 44 | 33 54 28 | 3066 |
| IR 22' | 73 56 25 | 33 52 54 | 3063 |
| IR 23 | 73 56 07 | 33 51 19 | 3060 |
| IR 23' | 73 55 47 | 33 49 48 | 3057 |
| IR 24 | 73 55 27 | 33 48 17 | 3050 |

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| IR 24' | 73° 55' 04" | 33° 47' 00" | 3048 |
| IR 25 | 73 54 40 | 33 45 43 | 3044 |
| IR 25' | 73 54 19 | 33 44 16 | 3042 |
| IR 26 | 73 53 58 | 33 42 49 | 3040 |
| IR 26' | 73 53 38 | 33 41 20 | 3043 |
| IR 27 | 73 53 17 | 33 39 50 | 3047 |
| IR 27' | 73 52 56 | 33 38 25 | 3048 |
| IR 28 | 73 52 34 | 33 36 59 | 3045 |
| IR 28' | 73 52 14 | 33 35 31 | 3042 |
| IR 29 | 73 51 53 | 33 34 03 | 3038 |
| IR 29' | 73 51 33 | 33 32 32 | 3036 |
| IR 30 | 73 51 14 | 33 31 02 | 3031 |
| IR 30' | 73 50 51 | 33 29 41 | 3023 |
| IR 31 | 73 50 28 | 33 28 20 | 3018 |
| IR 31' | 73 50 07 | 33 26 55 | 3017 |
| IR 32 | 73 49 46 | 33 25 29 | 3016 |
| IR 32' | 73 49 25 | 33 24 02 | 3014 |
| IR 33 | 73 49 04 | 33 22 34 | 3007 |
| IR 33' | 73 48 43 | 33 21 09 | 3005 |
| IR 34 | 73 48 21 | 33 19 44 | 3006 |
| IR 34' | 73 48 00 | 33 18 17 | 2998 |
| IR 35 | 73 47 39 | 33 16 51 | 2993 |
| IR 35' | 73 47 18 | 33 15 24 | 2990 |
| IR 36 | 73 46 57 | 33 13 58 | 2988 |
| IR 36' | 73 46 35 | 33 12 35 | 2985 |
| IR 37 | 73 46 14 | 33 11 11 | 2987 |
| IR 37' | 73 45 52 | 33 09 46 | 2987 |
| IR 38 | 73 45 31 | 33 08 21 | 2985 |
| IR 38' | 73 45 10 | 33 06 52 | 2984 |
| IR 39 | 73 44 50 | 33 05 24 | 2987 |
| IR 39' | 73 44 28 | 33 04 00 | 2984 |
| IR 40 | 73 44 07 | 33 02 37 | 2981 |
| IR 40' | 73 43 47 | 33 01 07 | 2975 |
| IR 41 | 73 43 27 | 32 59 37 | 2975 |
| IR 41' | 73 43 04 | 32 58 18 | 2972 |
| IR 42 | 73 42 41 | 32 56 59 | 2972 |
| IR 42' | 73 42 21 | 32 55 30 | 2970 |
| IR 43 | 73 42 01 | 32 54 02 | 2971 |
| IR 43' | 73 41 39 | 32 52 37 | 2969 |
| IR 44 | 73 41 18 | 32 51 13 | 2958 |
| IR 44' | 73 40 55 | 32 49 51 | 2946 |
| IR 45 | 73 40 33 | 32 48 30 | 2939 |
| IR 45' | 73 40 09 | 32 47 14 | 2937 |
| IR 46 | 73 39 46 | 32 45 58 | 2933 |
| IR 46' | 73 39 25 | 32 44 31 | 2928 |
| IR 47 | 73 39 04 | 32 43 04 | 2923 |
| IR 47' | 73 38 43 | 32 41 40 | 2912 |
| IR 48 | 73 38 21 | 32 40 15 | 2900 |
| IR 48' | 73 37 56 | 32 39 09 | 2885 |
| IR 49 | 73 37 30 | 32 38 03 | 2870 |

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| IR 49' | 73° 37' 08" | 32° 36' 40" | 2856 |
| IR 50 | 73 36 46 | 32 35 18 | 2846 |
| IR 50' | 73 36 26 | 32 33 48 | 2847 |
| IR 51 | 73 36 06 | 32 32 19 | 3848 |
| IR 51' | 73 35 46 | 32 30 52 | 2843 |
| IR 52 | 73 35 25 | 32 29 25 | 2843 |
| IR 52' | 73 35 04 | 32 28 01 | 2846 |
| IR 53 | 73 34 42 | 32 26 37 | 2842 |
| IR 53' | 73 34 23 | 32 25 08 | 2838 |
| IR 54 | 73 34 03 | 32 23 39 | 2831 |
| IR 54' | 73 33 43 | 32 22 10 | 2829 |
| IR 55 | 73 33 23 | 32 20 41 | 2826 |
| IR 55' | 73 33 02 | 32 19 16 | 2824 |
| IR 56 | 73 32 41 | 32 17 50 | 2822 |
| IR 56' | 73 32 19 | 32 16 29 | 2820 |
| IR 57 | 73 31 57 | 32 15 08 | 2816 |
| IR 57' | 73 31 36 | 32 13 42 | 2816 |
| IR 58 | 73 31 16 | 32 12 16 | 2812 |
| IR 58' | 73 30 54 | 32 10 52 | 2812 |
| IR 59 | 73 30 33 | 32 09 28 | 2810 |
| IR 59' | 73 30 11 | 32 08 05 | 2812 |
| IR 60 | 73 29 50 | 32 06 41 | 2808 |
| IR 60' | 73 29 28 | 32 05 19 | 2811 |
| IR 61 | 73 29 06 | 32 03 57 | 2804 |
| IR 61' | 73 28 45 | 32 02 33 | 2802 |
| IR 62 | 73 28 23 | 32 01 10 | 2798 |
| IR 62' | 73 28 02 | 31 59 46 | 2796 |
| IR 63 | 73 27 40 | 31 58 23 | 2798 |
| IR 63' | 73 27 19 | 31 57 01 | 2795 |
| IR 64 | 73 26 57 | 31 55 39 | 2793 |
| IR 64' | 73 26 35 | 31 54 15 | 2781 |
| IR 65 | 73 26 14 | 31 52 52 | 2777 |
| IR 65' | 73 25 54 | 31 51 24 | 2774 |
| IR 66 | 73 25 34 | 31 49 55 | 2767 |
| IR 66' | 73 25 13 | 31 48 31 | 2767 |
| IR 67 | 73 24 52 | 31 47 06 | 2764 |
| IR 67' | 73 24 30 | 31 45 47 | 2762 |
| IR 68 | 73 24 07 | 31 44 28 | 2762 |
| IR 68' | 73 23 48 | 31 42 57 | 2759 |
| IR 69 | 73 23 29 | 31 41 27 | 2758 |
| IR 69' | 73 23 04 | 31 40 17 | 2756 |
| IR 70 | 73 22 39 | 31 39 07 | 2755 |
| KR 72 (JARE-24) | 73 22 04 | 31 37 31 | 2749 |

Table II-4. Position and elevation of stations along Route RY.

* JMR station

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| RY 175*(JARE-24) | 72° 07' 44" | 27° 51' 58" | 1615 |
| RY 175' | 72 07 12 | 27 51 36 | 1606 |
| RY 176 | 72 06 39 | 27 51 18 | 1586 |
| RY 176' | 72 06 12 | 27 50 16 | 1568 |
| RY 177 | 72 05 43 | 27 49 23 | 1562 |
| RY 177' | 72 05 12 | 27 48 45 | 1563 |
| RY 178 | 72 04 40 | 27 49 15 | 1556 |
| RY 178' | 72 04 11 | 27 50 02 | 1529 |
| RY 179 | 72 03 38 | 27 49 56 | 1519 |
| RY 179' | 72 03 00 | 27 49 42 | 1482 |
| RY 180 | 72 02 24 | 27 49 26 | 1462 |
| RY 180' | 72 01 57 | 27 48 24 | |
| RY 181 | 72 01 32 | 27 47 29 | |
| RY 181' | 72 01 00 | 27 46 59 | |
| RY 182 | 72 00 38 | 27 45 54 | 1355 |
| RY 182' | 72 00 06 | 27 45 29 | |
| RY 183 | 71 59 39 | 27 46 29 | |
| RY 183' | 71 59 06 | 27 46 35 | |
| RY 184 | 71 58 37 | 27 46 06 | |
| RY 184' | 71 58 04 | 27 46 16 | |
| RY 185 | 71 57 45 | 27 45 17 | 1249 |
| RY 185' | 71 57 43 | 27 43 32 | 1240 |
| RY 186 | 71 57 46 | 27 41 48 | 1233 |
| RY 186' | 71 57 45 | 27 40 04 | 1224 |
| RY 187 | 71 57 27 | 27 38 28 | 1245 |
| RY 187' | 71 56 58 | 27 37 52 | 1274 |
| RY 188 | 71 56 28 | 27 37 03 | 1266 |
| RY 188' | 71 55 59 | 27 36 13 | 1258 |
| RY 189 | 71 55 31 | 27 35 17 | 1258 |
| RY 189' | 71 55 04 | 27 34 16 | 1254 |
| RY 190 | 71 54 31 | 27 34 08 | 1251 |
| RY 190' | 71 54 01 | 27 33 22 | |
| RY 191 | 71 53 35 | 27 32 17 | 1203 |
| RY 191' | 71 53 07 | 27 31 20 | 1197 |
| RY 192 | 71 52 41 | 27 30 14 | 1185 |
| RY 192' | 71 52 15 | 27 29 08 | 1171 |
| RY 193 | 71 51 48 | 27 28 04 | 1150 |
| RY 193' | 71 51 22 | 27 27 01 | 1135 |
| RY 194 | 71 50 53 | 27 26 08 | 1124 |
| RY 194' | 71 50 25 | 27 25 02 | 1123 |
| RY 195 | 71 50 03 | 27 23 45 | 1110 |
| RY 195' | 71 49 40 | 27 22 27 | 1093 |
| RY 196 | 71 49 11 | 27 21 35 | 1089 |
| RY 196' | 71 48 39 | 27 21 13 | 1082 |
| RY 197 | 71 48 08 | 27 20 30 | 1078 |
| RY 197' | 71 47 39 | 27 19 32 | 1076 |
| RY 198 | 71 47 11 | 27 18 36 | 1072 |
| RY 198' | 71 46 47 | 27 17 24 | 1066 |
| RY 199 | 71 46 23 | 27 15 42 | 1061 |

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| RY 199' | 71° 46' 05" | 27° 14' 15" | 1060 |
| RY 200 | 71 45 45 | 27 12 51 | 1057 |
| RY 200' | 71 45 26 | 27 11 26 | 1051 |
| RY 201 | 71 45 06 | 27 10 01 | 1042 |
| RY 201' | 71 44 47 | 27 08 36 | 1023 |
| RY 202 | 71 44 28 | 27 07 11 | 1007 |
| RY 202' | 71 44 08 | 27 05 46 | 1002 |
| RY 203 | 71 43 49 | 27 04 21 | 993 |
| RY 203' | 71 43 26 | 27 03 04 | 991 |
| RY 204 | 71 43 01 | 27 01 57 | 986 |
| RY 204' | 71 42 35 | 27 00 52 | 978 |
| RY 205 | 71 42 08 | 26 59 51 | 963 |
| RY 205' | 71 41 40 | 26 58 54 | 953 |
| RY 206 | 71 41 10 | 26 58 10 | 950 |
| RY 206' | 71 40 40 | 26 57 25 | 939 |
| RY 207 | 71 40 11 | 26 56 33 | 937 |
| RY 207' | 71 39 58 | 26 54 57 | 912 |
| RY 208 | 71 39 45 | 26 53 21 | 888 |
| RY 208' | 71 39 32 | 26 51 45 | 878 |
| RY 209 | 71 39 22 | 26 50 29 | 865 |
| RY 209' | 71 39 09 | 26 48 53 | 866 |
| RY 210 | 71 38 55 | 26 47 18 | 869 |
| RY 210' | 71 38 41 | 26 45 44 | 862 |
| RY 211 | 71 38 28 | 26 44 08 | 851 |
| RY 211' | 71 38 16 | 26 42 32 | 836 |
| RY 212 | 71 38 04 | 26 40 55 | 827 |
| RY 212' | 71 37 53 | 26 39 18 | 821 |
| RY 213 | 71 37 41 | 26 37 41 | 819 |
| RY 213' | 71 37 29 | 26 36 04 | 811 |
| RY 214 | 71 37 17 | 26 34 27 | 797 |
| RY 214' | 71 37 05 | 26 32 51 | 783 |
| RY 215 | 71 36 53 | 26 31 14 | 781 |
| RY 215' | 71 36 39 | 26 29 32 | 786 |
| RY 216 | 71 36 25 | 26 28 06 | 784 |
| RY 216' | 71 36 12 | 26 26 30 | 784 |
| RY 217 | 71 35 57 | 26 24 59 | 793 |
| RY 217' | 71 35 43 | 26 23 25 | 799 |
| RY 218 | 71 35 29 | 26 21 51 | 802 |
| RY 218' | 71 35 16 | 26 20 16 | 805 |
| RY 219 | 71 35 03 | 26 18 40 | 805 |
| RY 219' | 71 34 50 | 26 17 05 | 807 |
| RY 220 | 71 34 38 | 26 15 28 | 805 |
| RY 220' | 71 34 24 | 26 13 55 | 794 |
| RY 221 | 71 34 12 | 26 12 18 | 793 |
| RY 221' | 71 33 59 | 26 10 43 | 788 |
| RY 222 | 71 33 45 | 26 08 58 | 781 |
| RY 222' | 71 33 33 | 26 07 32 | 779 |
| RY 223 | 71 33 19 | 26 05 48 | 777 |
| RY 223' | 71 33 14 | 26 04 06 | 773 |
| RY 224 | 71 33 09 | 26 02 09 | 771 |

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| RY 224' | 71° 33' 04" | 26° 00' 43" | 771 |
| RY 225 | 71 32 58 | 25 59 01 | 772 |
| RY 225' | 71 32 54 | 25 57 20 | 771 |
| RY 226 | 71 32 49 | 25 55 38 | 771 |
| RY 226' | 71 32 44 | 25 53 56 | 779 |
| RY 227 | 71 32 37 | 25 52 15 | 788 |
| RY 227' | 71 32 54 | 25 50 49 | 792 |
| RY 228 | 71 32 49 | 25 49 07 | 786 |
| RY 228' | 71 32 45 | 25 47 26 | 783 |
| RY 229 | 71 32 40 | 25 45 44 | 780 |
| RY 229' | 71 32 35 | 25 44 02 | 778 |
| RY 230 | 71 32 30 | 25 42 20 | 773 |
| RY 230' | 71 32 26 | 25 40 39 | 769 |
| RY 231 | 71 32 22 | 25 38 57 | 773 |
| RY 231' | 71 32 17 | 25 37 15 | 776 |
| RY 232 | 71 32 13 | 25 35 33 | 777 |
| RY 232' | 71 32 09 | 25 33 51 | 776 |
| RY 233 | 71 32 06 | 25 32 09 | 780 |
| RY 233' | 71 32 05 | 25 30 26 | 783 |
| RY 234 | 71 32 02 | 25 28 44 | 789 |
| RY 234' | 71 31 56 | 25 27 03 | 793 |
| RY 235 | 71 31 51 | 25 25 21 | 793 |
| RY 235' | 71 31 46 | 25 23 40 | 805 |
| RY 236 | 71 31 41 | 25 21 59 | 811 |
| RY 236' | 71 31 37 | 25 20 16 | 814 |
| RY 237 | 71 31 33 | 25 18 35 | 822 |
| RY 237' | 71 31 29 | 25 16 53 | 836 |
| RY 238 | 71 31 25 | 25 15 06 | 837 |
| RY 238' | 71 31 20 | 25 13 29 | 836 |
| RY 239 | 71 31 16 | 25 11 47 | 833 |
| RY 239' | 71 31 13 | 25 10 05 | 833 |
| RY 240 | 71 31 08 | 25 08 24 | 833 |
| RY 240' | 71 31 04 | 25 06 42 | 835 |
| RY 241 | 71 31 00 | 25 05 00 | 835 |
| RY 241' | 71 30 57 | 25 03 18 | 832 |
| RY 242 | 71 30 53 | 25 01 36 | 832 |
| RY 242' | 71 30 50 | 24 59 54 | 832 |
| RY 243 | 71 30 47 | 24 58 12 | 832 |
| RY 243' | 71 30 44 | 24 56 26 | 834 |
| RY 244 | 71 30 41 | 24 54 48 | 841 |
| RY 244' | 71 30 37 | 24 53 06 | 841 |
| RY 245 | 71 30 33 | 24 51 10 | 854 |
| RY 245' | 71 30 30 | 24 49 42 | |
| RY 246 | 71 30 26 | 24 48 01 | 851 |
| RY 246' | 71 30 22 | 24 46 19 | |
| RY 247 | 71 30 19 | 24 44 37 | 882 |
| RY 247' | 71 30 15 | 24 42 55 | 876 |
| RY 248 | 71 30 11 | 24 41 13 | 859 |
| RY 248' | 71 30 08 | 24 39 31 | 843 |
| RY 249 | 71 30 05 | 24 37 49 | 847 |

| Station | Latitude (S) | Longitude (E) | Elevation (m) |
|---|---|---|---|
| RY 249' | 71° 30' 02" | 24° 36' 07" | 851 |
| RY 250 | 71 29 59 | 24 34 25 | 855 |
| RY 250' | 71 29 56 | 24 32 43 | 843 |
| RY 251 | 71 29 53 | 24 31 01 | 840 |
| RY 251' | 71 29 51 | 24 29 19 | 840 |
| RY 252 | 71 29 48 | 24 27 37 | 840 |
| RY 252' | 71 29 45 | 24 25 55 | 837 |
| RY 253 | 71 29 42 | 24 24 13 | 837 |
| RY 253' | 71 29 39 | 24 22 31 | 839 |
| RY 254 | 71 29 36 | 24 20 49 | 849 |
| RY 254' | 71 29 33 | 24 19 08 | 856 |
| RY 255 | 71 29 29 | 24 17 26 | 861 |
| RY 255' | 71 29 26 | 24 15 44 | 873 |
| RY 256 | 71 29 47 | 24 14 29 | 881 |
| RY 256' | 71 30 08 | 24 13 13 | 889 |
| RY 257 | 71 30 29 | 24 11 58 | 902 |
| RY 257' | 71 30 50 | 24 10 43 | 905 |
| RY 258 | 71 31 12 | 24 09 28 | 917 |
| RY 258'(Asuka)* | 71 31 34 | 24 08 17 | 930 |

Table II-5. Ice thickness of stations.

| Station | Latitude (S) | Longitude (E) | Elevation (m) | Ice thickness (m) |
|---|---|---|---|---|
| IM 40 (G1) | 71° 24' | 43° 41' | 2416 | 2306 |
| IM 80 (Y1) | 71 59 | 42 24 | 2552 | 1917 |
| ID 43 (Y5) | 75 00 | 35 01 | 3396 | 2678 |
| ID 56 | 75 14 | 35 01 | 3487 | / |
| ID 62 | 75 20 | 35 01 | 3516 | 3035 |
| ID 71 | 75 30 | 35 00 | 3550 | (2515) |
| ID 79' | 75 39 | 34 59 | 3612 | (2443) |
| ID 99 (Y6) | 76 00 | 35 00 | 3657 | 2838 |
| ID 150 | 76 55 | 34 56 | 3787 | 2508 |
| ID 155 (DC) | 77 00 | 35 00 | 3761 | 2778 |
| ID 165 | 76 59 | 34 12 | 3747 | (2282) |
| ID 178 | 76 59 | 33 10 | 3740 | 2171 |
| ID 190 | 76 59 | 32 13 | 3734 | (2443) |
| ID 205 (Y7) | 76 58 | 31 01 | 3730 | 2624 |
| ID 216 | 76 45 | 31 08 | 3757 | 2662 |
| ID 232 | 76 29 | 31 19 | 3736 | (2125) |
| ID 243 | 76 16 | 31 20 | 3717 | 2812 |
| ID 259 (Y8) | 76 00 | 31 23 | 3648 | 3165 |
| ID 270 | 75 46 | 31 25 | 3626 | (2235) |
| ID 283 | 75 30 | 31 27 | 3573 | 2811 |
| ID 294 | 75 19 | 31 28 | 3540 | 2616 |
| ID 303 | 75 11 | 31 29 | 3520 | 2611 |
| ID 315 (Y9) | 75 00 | 31 29 | 3414 | 2359 |
| ID 331 | 74 41 | 31 35 | 3313 | 2577 |
| ID 341 | 74 31 | 31 37 | 3264 | 2437 |
| ID 352 | 74 20 | 31 41 | 3153 | (2443) |
| ID 360 (Y10) | 74 12 | 31 43 | 3092 | (2594) |
| ID 365 | 74 12 | 32 03 | 3077 | 2295 |
| ID 378 | 74 12 | 32 54 | 3170 | / |
| ID 390 | 74 12 | 33 41 | 3183 | (2771) |
| ID 402 | 74 11 | 34 29 | 3200 | 1788 |
| DF 37 | 76 58 | 37 58 | 3789 | (2165) |
| DF 50 | 76 58 | 39 00 | 3789 | (2100) |
| DF 63 | 77 10 | 38 38 | 3801 | 2841 |
| DF 72 | 77 15 | 39 13 | 3802 | 2894 |
| DF 76 | 77 19 | 39 25 | 3805 | (3091) |
| DF 80 | 77 22 | 39 37 | 3807 | (2833) |
| DF 80-2 | 77 24 | 39 43 | 3806 | 2673 |
| DF 87 | 77 23 | 39 02 | 3803 | 3336 |
| DF 103 | 77 22 | 37 43 | 3789 | 3204 |
| DF 117 | 77 22 | 36 33 | 3767 | 2955 |
| DF 132 | 77 22 | 35 19 | 3758 | (2970) |
| DF 142 | 77 13 | 35 02 | 3760 | 3274 |

## III. Surface Meteorological Data During Oversnow Traverses

Observers: Tokio KIKUCHI, Yutaka AGETA,
Shizuo FUKUSAWA and Masao WAKABAYASHI

The observations were made during the oversnow traverses listed in Table I-1. The item, instrument, and accuracy of the observations are given below.

| Item | Instrument | Accuracy |
|---|---|---|
| Air temperature | Alchol thermometer | ±0.2°C |
| Wind speed | Portable 3-cup anemometer | ±1.0m/s |
| | or Vane anemometer | ±0.5m/s |
| Wind direction | Magnetic compass | ±5° |
| Visibility | Visual observation | |
| Amount of cloud | Visual observation | |
| Weather and phenomena | Visual observation | |

Notations in the tables are as follows:

- LT: Local standard time (GMT+3h)
- Ta: Air temperature (°C)
- WS: Wind speed (m/s)
- WD: Wind direction
- V: Visibility (km)
- N: Amount of cloud (in tenth)
- W: Present weather and phenomena
  - ○ clear
  - ◐ fine

 cloudy

 cloudy (upper cloud is predominant)

 snow

 snowstorm

 blowing snow

 drifting snow

 ice prism

 halo

Position and elevation of stations are given in Tables II-1, II-2, II-3 and II-4 for Routes ID (43 - 409'), DF, IR and RY (175 - 258'), respectively. For Routes S-H-Z, IM-ID (0 - 43) and KR-RY (0-175) refer to Naruse and Yokoyama (1975), Fujii et al. (1986) and Nakawo et al. (1984), respectively.

## References


Fujii, Y., Kawada, K., Yoshida, M. and Matsumoto, S. (1986) : Position, elevation and ice thickness of stations. JARE Data Rep., 116 (Glaciol. 13), 5-27.

Nakawo, M., Narita, H. and Isobe, T. (1984) : Position, elevation and ice thickness of stations. JARE Data Rep., 96 (Glaciol. 11), 4-38.

Naruse, R. and Yokoyama, K. (1975) : Position, elevation and ice thickness of stations. JARE Data Rep., 28 (Glaciol. 3), 7-47.

Table III-1. Surface meteorological data along Route S-H-Z during 10-18 January 1985.

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| JAN.10 | 18 | S16 | -1.4 | ENE | 2.0 | 5.0 | 10 | ◎ | 10St |
| JAN.10 | 21 | S16 | -2.8 | ESE | | 30. | 10 | ◎ | 10St |
| JAN.11 | 09 | S16 | -1.8 | ENE | 6.0 | | 9 | ‡ ◎ | 8Cu 1Ac |
| JAN.11 | 15 | S16 | -2.6 | NE | | 30. | 7 | ◑ | 7Cu |
| JAN.11 | 18 | S16 | -1.6 | ENE | 1.0 | 30. | 1 | ○ | 1Ac |
| JAN.12 | 12 | S16 | -1.3 | | 5.0 | 30. | 1 | ○ | |
| JAN.12 | 15 | S16 | -0.9 | NE | 4.0 | 30. | 1 | ○ | |
| JAN.12 | 18 | S16 | -1.5 | NE | 3.0 | 30. | 2 | ○ | 1St 2Cs |
| JAN.12 | 21 | S16 | -3.7 | ENE | | 30. | 3 | ◑ | |
| JAN.13 | 09 | S16 | -2.1 | E | 7.0 | 10. | 5 | ◑ | 1Ac 4Cc |
| JAN.13 | 12 | S16 | -1.1 | ENE | 5.0 | 30. | 3 | ◑ | |
| JAN.13 | 15 | S16 | 1.3 | ENE | 2.0 | 30. | 8 | ◑ | |
| JAN.13 | 18 | S16 | -1.1 | ENE | 5.0 | 30. | 9 | ◎ | |
| JAN.13 | 21 | S16 | -3.1 | NE | 4.0 | 30. | 9 | ◎ | |
| JAN.14 | 09 | S16 | | E | 5.0 | 30. | 0 | ○ | |
| JAN.14 | 12 | S16 | | | | 30. | 1 | ○ | |
| JAN.14 | 15 | S16 | | | | 30. | 1 | ○ | |
| JAN.14 | 18 | S26 | -3.4 | ENE | 5.0 | 30. | 1 | ○ | |
| JAN.14 | 21 | H7 | -7.3 | ENE | 5.0 | 30. | 1 | ○ | |
| JAN.15 | 09 | H7 | -3.3 | ENE | 5.0 | 30. | 0+ | ‡ ○ | 0+Cs |
| JAN.15 | 21 | H180 | -12.7 | SE | 3.0 | 30. | 10 | ◍ | 10Cs |
| JAN.16 | 09 | H180 | -8.5 | E | 4.0 | 30. | 1 | ○ | 1As |
| JAN.18 | 09 | Z70 | -21.0 | E | 12.2 | 1.0 | 0 | ‡ ○ | |

Table III-2. Surface meteorological data along Route IM during 26 January - 12 March 1985.

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| JAN.26 | 15 | IM4 | -12.3 | E | 9.0 | .50 | 4 | ‡ ◑ | 4Ci |
| JAN.26 | 18 | IM10 | -14.0 | E | 10.0 | .50 | 2 | ‡ ○ | 2Ci |
| JAN.26 | 21 | IM16 | -19.0 | ESE | 11.0 | .50 | 1 | ‡ ○ | 1Ci |
| JAN.27 | 09 | IM16 | -18.5 | ESE | 14.3 | .10 | 0 | ‡ ○ | |
| JAN.27 | 12 | IM20 | -14.5 | E | 15.8 | .10 | 0 | ‡ ○ | |
| JAN.27 | 15 | IM24 | -12.5 | ESE | 10.0 | .20 | 0+ | ‡ ○ | 0+Cs |
| JAN.27 | 18 | IM30 | | ESE | | .30 | 0 | ‡ ○ | |
| JAN.28 | 15 | IM40 | -14.0 | | 9.3 | | | | |
| JAN.29 | 09 | IM40 | -17.4 | ESE | | 5.0 | 10- | ◎ | |
| JAN.29 | 12 | IM47 | -11.0 | ESE | | 1.0 | 10- | ‡ ◎ | |
| JAN.29 | 15 | IM51 | -13.9 | E | 5.3 | 1.0 | 10- | ‡ ◍ | 10-Cs |
| JAN.29 | 18 | IM57 | -12.6 | ESE | 7.0 | 1.0 | 10- | ‡ ◍ | 10-Cs |
| JAN.29 | 21 | IM63' | -16.0 | ESE | 9.4 | 1.0 | 10 | ⁂ | 10As |
| JAN.30 | 09 | IM63' | -15.5 | E | | .20 | 3 | ‡ ◑ | 3As |
| JAN.30 | 12 | IM69 | -11.6 | ESE | | .50 | 10 | ‡ ◍ | 10Cs |
| JAN.30 | 15 | IM74 | -12.6 | E | 8.3 | 1.0 | 10 | ‡ ◎ | 10As |
| JAN.30 | 18 | IM80 | -14.6 | E | | 10. | 10 | ‡ ◍ | ⁂10Cs |
| JAN.30 | 21 | IM86 | -18.0 | E | 9.8 | 10. | 8 | ‡ ◑ | 8Cs |
| JAN.31 | 09 | IM86 | -18.2 | ESE | | 10. | 4 | ‡ ◑ | 4Cs |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| JAN.31 | 12 | IM93 | -15.2 | ESE | | 10. | 2 | ○ | 2Ci |
| JAN.31 | 15 | IM96 | -13.5 | E | 7.7 | 10. | 1 | ○ | 1Ci |
| JAN.31 | 18 | IM103 | -10.3 | E | | 10. | 8 | ‡ ◑ | 8Ci |
| JAN.31 | 21 | IM109 | -19.9 | E | 9.3 | 5.0 | 8 | ‡ ◑ | 8Cs |
| FEB. 1 | 12 | IM112 | | ESE | 7.2 | 2.0 | 9 | ‡ ◍ | 9Cs |
| FEB. 1 | 18 | IM118 | | E | | | 2 | | |
| FEB. 2 | 12 | IM122' | | ESE | | 10. | 0 | ○ | |
| FEB. 2 | 15 | IM127 | -18.0 | ESE | 10.1 | 10. | 0 | ○ | |
| FEB. 2 | 18 | IM134 | | ESE | | 20. | 0 | ○ | |
| FEB. 3 | 09 | IM141 | | ESE | | 20. | 0 | ○ | |
| FEB. 3 | 12 | IM145 | -19.0 | ESE | | 20. | 0 | ○ | |
| FEB. 3 | 15 | IM150 | -16.4 | ESE | 5.9 | 20. | 0 | ○ | |
| FEB. 3 | 18 | IM157 | | ESE | | 20. | 0 | ○ | |
| FEB. 3 | 21 | IM157 | -26.1 | ESE | 3.9 | 30. | 0 | ○ | |
| FEB. 4 | 09 | IM157 | -27.8 | | | 30. | 0 | ○ | |
| FEB. 4 | 12 | IM162 | | ESE | | 10. | 1 | ○ | |
| FEB. 4 | 15 | IM166' | | ESE | 4.9 | 5.0 | 3 | ◑ | 3Cs |
| FEB. 4 | 18 | IM172 | | ESE | | 5.0 | 5 | ◑ | 5Cs |
| FEB. 4 | 21 | IM178' | -24.0 | E | 1.0 | 10. | 10 | ◍ | 10Cs |
| FEB. 5 | 09 | IM178' | -29.3 | ESE | | 10. | 7 | ◑ | 7Ci |
| FEB. 5 | 12 | IM184 | -19.4 | ESE | | 10. | 7 | ◑ | 7Ci/Cs |
| FEB. 5 | 15 | IM188' | -25.3 | NE | 5.3 | 10. | 7 | ◑ | 7Ci/Cs |
| FEB. 5 | 18 | IM196 | | ENE | | 20. | 10 | ◎ | 10As |
| FEB. 5 | 21 | IM202 | -29.7 | ENE | 4.0 | 5.0 | 10 | ◎ | 10As |
| FEB. 6 | 09 | IM202 | | E | | 2.0 | 10 | ‡ ◎ | 10As |
| FEB. 6 | 12 | IM205 | | E | | 2.0 | 10 | ‡ ◎ | 10As |
| FEB. 6 | 15 | IM212 | | ENE | 7.0 | 1.0 | 10 | ※‡ | 10As |
| FEB. 6 | 18 | IM219 | | NNW | | 5.0 | 10 | ※ | 10As |
| FEB. 7 | 12 | IM233 | | ESE | 2.5 | 10. | 3 | ※ | 3Cs |
| FEB. 7 | 15 | IM239 | | ENE | 2.4 | 10. | 5 | ※ | 5Cs |
| FEB. 7 | 18 | IM249 | | | | 30. | 2 | ○ | 2Ci |
| Stay at IM252 (Advance Camp) 8 - 28 February. | | | | | | | | | |
| MAR. 1 | 09 | IM252 | -48.2 | ESE | 8.0 | 2.0 | 0 | ‡ ○ | |
| MAR. 1 | 15 | IM246' | -42.2 | ESE | 10.6 | .50 | 0 | ‡ ○ | |
| MAR. 1 | 18 | IM237 | -42.8 | SE | 8.6 | .50 | 0 | ‡ ○ | |
| MAR. 1 | 21 | IM230 | -46.4 | ESE | 9.4 | .50 | 0 | ‡ ○ | |
| MAR. 2 | 09 | IM230 | -46.2 | ESE | 8.7 | .50 | 0 | ‡ ○ | |
| MAR. 2 | 12 | IM226 | -41.7 | SE | 10.6 | .30 | 0 | ‡ ○ | |
| MAR. 2 | 15 | IM218 | -38.8 | ESE | 10.7 | .50 | 0 | ‡ ○ | |
| MAR. 2 | 18 | IM209 | -40.0 | ESE | 10.8 | 1.0 | 0+ | ‡ ○ | 0+Cs |
| MAR. 2 | 21 | IM203 | -42.8 | ESE | 8.3 | 1.0 | 0+ | ‡ ○ | 0+Cs |
| MAR. 3 | 09 | IM203 | -41.3 | ESE | 11.5 | .20 | 0 | ‡ ○ | |
| MAR. 3 | 12 | IM199 | -38.0 | ESE | 13.5 | .20 | 0 | ‡ ○ | |
| MAR. 3 | 15 | IM192' | -35.8 | ESE | 11.5 | .30 | 0 | ‡ ○ | |
| MAR. 3 | 18 | IM185 | -36.3 | ESE | 7.7 | 1.0 | 0 | ‡ ○ | |
| MAR. 3 | 21 | IM178 | -40.6 | ESE | 7.6 | 1.0 | 0+ | ‡ ○ | 0+Cs |
| MAR. 4 | 09 | IM178 | -37.5 | SE | 5.6 | 1.0 | 0+ | ‡ ○ | 0+Cs |
| MAR. 4 | 12 | IM173 | -33.4 | ESE | 10.6 | .50 | 0 | ‡ ○ | |
| MAR. 4 | 15 | IM167' | -32.0 | SE | 11.4 | .50 | 0 | ‡ ○ | |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| MAR. 4 | 18 | IM157 | -33.5 | ESE | 13.2 | .30 | 0 | ⊹ ○ | |
| MAR. 5 | 09 | IM153' | -35.9 | ESE | 14.2 | .01 | X | ※⊹ | |
| MAR. 5 | 15 | IM153' | -30.0 | ESE | 13.4 | .02 | X | ※⊹ | |
| MAR. 5 | 21 | IM153' | -32.3 | E | 15.0 | .03 | X | ⊹ | |
| MAR. 6 | 09 | IM153' | -32.0 | ESE | 13.5 | .03 | X | ⊹ | |
| MAR. 6 | 12 | IM152 | -31.0 | E | 14.5 | .05 | X | ⊹ | |
| MAR. 6 | 15 | IM145 | -29.2 | E | 13.0 | .10 | X | ⊹ | |
| MAR. 6 | 18 | IM138' | -30.0 | E | 15.5 | .05 | 10 | ※⊹ | 10St |
| MAR. 6 | 21 | IM137 | -30.0 | E | 12.0 | .05 | 10 | ※⊹ | 10St |
| MAR. 7 | 09 | IM137 | -34.0 | ESE | 10.5 | .30 | X | ⊹ | |
| MAR. 7 | 12 | IM132 | -30.5 | ESE | 9.8 | .30 | 7 | ⊹ ◐ | 7Cs |
| MAR. 7 | 15 | IM125 | -29.2 | E | 10.8 | .50 | 2 | ⊹ ○ | 2Cs |
| MAR. 7 | 18 | IM117 | -31.0 | E | 10.0 | 1.0 | 1 | ⊹ ○ | 1Cs |
| MAR. 8 | 09 | IM113 | -36.5 | ESE | 8.5 | 1.0 | 1 | ⊹ ○ | 1Cs |
| MAR. 8 | 12 | IM109 | | | | 2.0 | 2 | ⊹ ○ | 2Cs |
| MAR. 8 | 15 | IM105 | -32.3 | ESE | 10.9 | 2.0 | 2 | ⊹ ○ | 2Cs |
| MAR. 8 | 18 | IM96 | -33.6 | ESE | 10.5 | .30 | 3 | ⊹ ◐ | 3Cs |
| MAR. 8 | 21 | IM91 | -36.5 | ESE | 10.6 | .30 | 4 | ⊹ ◐ | 4Cs |
| MAR. 9 | 09 | IM91 | -34.0 | E | 14.3 | .05 | X | ⊹ | |
| MAR. 9 | 12 | IM86 | -29.8 | ESE | 14.9 | .05 | X | ⊹ | |
| MAR. 9 | 15 | IM82 | -27.5 | ESE | 15.3 | .05 | X | ⊹ | |
| MAR. 9 | 21 | IM77 | -29.2 | E | 12.0 | .10 | X | ⊹ | |
| MAR.10 | 09 | IM77 | -30.0 | E | 10.6 | .30 | 9 | ⊹ ◍ | 9Cs |
| MAR.10 | 12 | IM70 | -28.0 | ESE | 12.3 | .50 | 8 | ⊹ ◐ | 8Cs |
| MAR.10 | 15 | IM63' | -26.1 | ESE | 11.2 | 1.0 | 3 | ⊹ ◐ | 3Cs |
| MAR.10 | 18 | IM52 | -29.0 | E | 10.5 | 1.0 | 8 | ⊹ ◐ | 8Cs |
| MAR.10 | 21 | IM47 | -31.5 | E | 8.7 | 1.0 | 10 | ⊹ ◎ | 10As |
| MAR.11 | 09 | IM47 | -31.5 | E | 11.9 | .50 | 2 | ⊹ ○ | 2Cs |
| MAR.11 | 12 | IM40 | -29.5 | ESE | 12.2 | .50 | 3 | ⊹ ◐ | 3Ci |
| MAR.11 | 15 | IM37' | -26.0 | E | 11.5 | 1.0 | 1 | ⊹ ○ | 1Cs |
| MAR.11 | 18 | IM28 | -29.5 | E | 10.6 | 3.0 | 1 | ⊹ ○ | 3Cs |
| MAR.11 | 21 | IM24 | -33.0 | E | 6.7 | 5.0 | 0+ | ⊹ ○ | 0+Cs |
| MAR.12 | 09 | IM24 | -32.0 | E | 7.1 | 10. | 0 | ⊹ ○ | |
| MAR.12 | 12 | IM18 | -27.5 | E | 6.1 | 10. | 1 | ○ | 1Cs |
| MAR.12 | 15 | IM11 | -26.8 | ENE | 4.8 | 10. | 0+ | ○ | 0+Cs |

Table III-3. Surface meteorological data along Route S-H-Z during 21 March - 1 April 1985.

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| MAR.21 | 09 | Z84 | -30.7 | E | 7.3 | 10. | 9 | ⊹ ◎ | |
| MAR.21 | 15 | Z32 | -23.7 | E | 8.9 | 10. | 10- | ⊹ ◍ | 1Ac 10-Cs |
| MAR.22 | 09 | S122 | -18.7 | E | 8.9 | 10. | 10- | ⊹ ◎ | 10-As |
| MAR.22 | 15 | H204 | -15.5 | ENE | 8.8 | 10. | 10 | ⊹ ◍ | 2Ac 10Cs |
| MAR.23 | 08 | H130 | -16.7 | ENE | 5.3 | 5.0 | 10 | ※ | 2Ac 10Cs |
| MAR.23 | 15 | S30 | -13.0 | E | 3.3 | 10. | 10 | ※ | |
| MAR.26 | 15 | S16 | | | | | | ※ | |
| MAR.27 | 09 | S16 | -12.5 | WSW | 2.1 | 5.0 | 9 | ※ | 1Cu 9As |
| MAR.27 | 12 | S16 | | | | | | ⊹ | |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| MAR.27 | 18 | S30 | | | | | | ⊹ | |
| MAR.29 | 09 | S30 | | | | 2.0 | 1 | ⊹ ○ | 1Ac |
| MAR.29 | 15 | H136 | -25.0 | ENE | 11.3 | 10. | 1 | ⊹ ○ | 1Ac |
| MAR.30 | 09 | H200 | -32.0 | E | 9.3 | 10. | | ⊹ ○ | |
| MAR.30 | 18 | H260 | | | | | | ⊹ ○ | |
| MAR.31 | 09 | H260 | -39.0 | ESE | 13.5 | .20 | 1 | ⊹ ○ | |
| MAR.31 | 15 | Z13 | -39.8 | E | 10.5 | .20 | | ⊹ | |
| APR. 1 | 09 | Z33 | -42.5 | E | 14.2 | .20 | 1 | ⊹ ○ | |

Table III-4. Surface meteorological data along Route S-H-Z during 5 to 30 August 1985.

| Date | LT | Station | Ta | WD | WS | V | N | W |
|---|---|---|---|---|---|---|---|---|
| AUG. 5 | 15 | T18 | -22.8 | | 5.0 | 40. | | ◐ |
| AUG. 5 | 21 | S18 | -27.6 | | 8.0 | 1.0 | | ○ |
| AUG. 6 | 08 | S18 | -26.2 | E | 8.0 | .10 | | ⊹ |
| AUG. 6 | 15 | S25 | -28.0 | E | 8.0 | .08 | | ⊹ |
| AUG. 6 | 21 | H3 | -30.6 | | 6.0 | .50 | | ⊹ |
| AUG. 7 | 08 | H3 | -32.0 | E | 6.0 | 2.0 | | ○ |
| AUG. 7 | 15 | H80 | -33.7 | E | 7.0 | .50 | | ⊹ |
| AUG. 7 | 21 | H98 | -33.6 | | 10.0 | .20 | | ⊹ |
| AUG. 8 | 08 | H98 | -33.0 | E | 10.0 | .20 | | ⊹ |
| AUG. 8 | 15 | H145 | -36.0 | E | 8.0 | .40 | | ⊹ |
| AUG. 8 | 21 | H164 | -39.2 | | 5.0 | .80 | | ⊹ |
| AUG. 9 | 08 | H164 | -39.4 | ENE | 5.0 | .50 | | ⊹ |
| AUG. 9 | 15 | H219 | -39.8 | ENE | 5.0 | 2.0 | | ○ |
| AUG. 9 | 21 | H235 | -40.6 | | 5.0 | 1.0 | | ○ |
| AUG.10 | 08 | H235 | -39.0 | E | 4.0 | 1.0 | | ◐ |
| AUG.10 | 15 | H284 | -44.2 | E | 7.0 | .20 | | ⊹ |
| AUG.10 | 21 | H297 | -42.5 | | 7.0 | .10 | | ⊹ |
| AUG.11 | 08 | H297 | -41.7 | E | 7.0 | .08 | | ⊹ |
| AUG.11 | 15 | Z11 | -42.2 | E | 8.0 | .08 | | ⊹ |
| AUG.11 | 21 | Z16 | -42.3 | | 7.0 | .05 | | ⊹ |
| AUG.12 | 08 | Z16 | -39.0 | E | 12.0 | .05 | | ⊹ |
| AUG.12 | 15 | Z23.5 | -37.5 | ENE | 14.0 | .04 | | ⊹ |
| AUG.12 | 21 | Z23.5 | -30.8 | | 14.0 | .02 | | ⁂ |
| AUG.13 | 08 | Z23.5 | -25.6 | ENE | 13.0 | .01 | | ⁂ |
| AUG.13 | 15 | Z23.5 | -27.8 | NE | 8.0 | .01 | | ⁂ |
| AUG.13 | 21 | Z23.5 | -31.5 | ENE | 5.0 | .08 | | ⊹ |
| AUG.14 | 08 | Z23.5 | -41.8 | E | 3.0 | 10. | | ◐ |
| AUG.14 | 15 | Z47 | -45.2 | E | 6.0 | 25. | | ○ |
| AUG.14 | 21 | Z77.5 | -46.9 | | 9.0 | .30 | | ⊹ |
| AUG.15 | 08 | Z77.5 | -49.1 | ENE | 9.0 | .08 | | ⊹ |
| AUG.15 | 15 | Z77.5 | -49.7 | ENE | 8.0 | .10 | | ⊹ |
| AUG.15 | 21 | Z77.5 | -50.0 | | 10.0 | .10 | | ⊹ |
| AUG.16 | 08 | Z77.5 | -49.0 | E | 10.0 | .05 | | ⊹ |
| AUG.16 | 15 | Z77.5 | -47.2 | E | 14.0 | .05 | | ⊹ |
| AUG.16 | 21 | Z77.5 | -48.0 | | 13.0 | .04 | | ⊹ |
| AUG.17 | 08 | Z77.5 | -49.5 | E | 9.0 | .08 | | ⊹ |

| Date | LT | Station | Ta | WD | WS | V | N | W |
|---|---|---|---|---|---|---|---|---|
| AUG.17 | 15 | Z77.5 | -49.8 | ENE | 8.0 | .15 | | ‡ |
| AUG.17 | 21 | Z77.5 | -52.0 | | 8.0 | .20 | | ‡ |
| AUG.18 | 08 | Z77.5 | -49.2 | ENE | 5.0 | .30 | | ‡ |
| AUG.18 | 15 | Z95 | -42.5 | E | 8.0 | .20 | | ‡ |
| Stay at Mizuho Station 19 - 21 August. | | | | | | | | |
| AUG.22 | 15 | Z81.5 | -42.3 | E | 11.0 | .20 | | ‡ |
| AUG.22 | 21 | Z56 | -46.8 | | 10.0 | .15 | | ‡ |
| AUG.23 | 08 | Z56 | -47.1 | E | 7.0 | .30 | | ‡ |
| AUG.23 | 15 | Z21.5 | -41.2 | E | 5.0 | .70 | | ‡ |
| AUG.23 | 21 | Z6 | -44.9 | | 8.0 | .50 | | ‡ |
| AUG.24 | 08 | Z6 | -44.4 | E | 9.0 | .20 | | ‡ |
| AUG.24 | 15 | H269 | -39.0 | E | 8.0 | .40 | | ‡ |
| AUG.24 | 21 | H240 | -38.5 | | 6.0 | .50 | | ‡ |
| AUG.25 | 08 | H240 | -38.2 | E | 7.0 | .40 | | ‡ |
| AUG.25 | 15 | H185 | -36.1 | E | 5.0 | 20. | | ○ |
| AUG.25 | 21 | H150 | -38.4 | | 6.0 | 20. | | ○ |
| AUG.26 | 08 | H150 | -39.9 | E | 7.0 | 1.0 | | ○ |
| AUG.26 | 15 | H117 | -33.2 | E | 8.0 | 10. | | ○ |
| AUG.26 | 21 | H97 | -32.1 | | 10.0 | .50 | | ‡ |
| AUG.27 | 08 | H97 | -34.1 | E | 7.0 | 2.0 | | ○ |
| AUG.27 | 15 | H15 | -29.3 | E | 7.0 | 20. | | ○ |
| AUG.27 | 21 | S25 | -29.3 | | 9.0 | 10. | | ○ |
| AUG.28 | 08 | S25 | -22.3 | ENE | 10.0 | .15 | | ‡ |
| AUG.28 | 15 | S25 | -17.4 | ENE | 17.0 | .01 | | ※‡ |
| AUG.28 | 21 | S25 | -14.1 | | 16.0 | .03 | | ※‡ |
| AUG.29 | 08 | S25 | -14.2 | ENE | 15.0 | .08 | | ※‡ |
| AUG.29 | 15 | S25 | -12.3 | ENE | 19.0 | | | ※‡ |
| AUG.29 | 21 | S25 | -15.8 | | 16.0 | .08 | | ※‡ |
| AUG.30 | 08 | S25 | -27.4 | ENE | 4.0 | 1.0 | | ◐ |

Table III-5. Surface meteorological data along Route IM during 27 September - 14 October 1985.

| Date | LT | Station | Ta | WD | WS | V | N | W |
|---|---|---|---|---|---|---|---|---|
| SEP.27 | 15 | IM5 | -33.6 | E | 8.9 | 1.0 | 10 | ‡ ◍ 10Cs |
| SEP.27 | 20 | IM13 | -38.5 | E | 8.5 | 1.0 | 10 | ◍ 10Cs |
| SEP.28 | 07 | IM13 | -43.4 | | 7.8 | | | |
| SEP.28 | 09 | IM13 | -40.7 | E | 8.2 | 5.0 | 0+ | ○ 0+Cs |
| SEP.28 | 12 | IM20 | | ESE | | 20. | 0 | ○ |
| SEP.28 | 15 | IM24 | -38.8 | ESE | 4.9 | 30. | 1 | ○ 1Ci |
| SEP.28 | 18 | IM30 | -43.5 | ESE | 7.4 | 30. | 0+ | ○ 0+Ci |
| SEP.29 | 09 | IM31 | | | | .30 | 10 | ‡ ◍ 10Cs |
| SEP.29 | 11 | IM36' | -42.3 | ESE | 9.6 | .50 | 8 | ‡ ◐ 8Ci |
| SEP.30 | 09 | IM40 | -42.2 | SE | 10.2 | 1.0 | 0 | ‡ ○ |
| SEP.30 | 14 | IM40 | | | | .20 | 0 | ‡ ○ |
| SEP.30 | 14 | IM46 | -40.8 | ESE | 10.2 | .40 | 0 | ‡ ○ |
| SEP.30 | 18 | IM47' | -42.7 | SE | 11.7 | .10 | 0 | ‡ ○ |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| OCT. 1 | 09 | IM47' | -43.2 | ESE | 18.2 | .02 | X | ⁂ | |
| OCT. 1 | 12 | IM47' | -41.0 | E | 16.4 | .01 | X | ⁂ | |
| OCT. 1 | 15 | IM47' | -38.2 | E | 14.4 | .03 | X | ⁂ | |
| OCT. 1 | 18 | IM47' | -35.5 | E | 13.9 | .03 | X | ⁂ | |
| OCT. 1 | 21 | IM47' | -36.0 | E | 13.8 | .02 | X | ‡ | |
| OCT. 2 | 06 | IM47' | -36.0 | E | 12.2 | .05 | X | ‡ | |
| OCT. 2 | 09 | IM47' | -36.0 | E | 12.8 | .03 | X | ‡ | |
| OCT. 2 | 12 | IM47' | -35.0 | E | 13.2 | .07 | X | ‡ | |
| OCT. 2 | 15 | IM47' | -35.0 | E | 11.8 | .10 | 0 | ‡ ○ | |
| OCT. 2 | 18 | IM47' | -39.3 | ESE | 14.7 | .10 | 0 | ‡ ○ | |
| OCT. 2 | 21 | IM47' | -40.7 | ESE | 12.8 | .10 | 0 | ‡ ○ | |
| OCT. 3 | 07 | IM47' | -39.0 | | 12.8 | | | | |
| OCT. 3 | 09 | IM47' | -38.0 | ESE | 13.5 | | 0 | ‡ ○ | |
| OCT. 3 | 12 | IM47' | | | | .10 | 0 | ‡ ○ | |
| OCT. 3 | 15 | IM55 | -31.1 | E | 10.0 | .05 | 10 | ‡ ◍ | 10Cs |
| OCT. 3 | 18 | IM57' | -33.7 | ESE | 8.2 | .50 | 10 | ‡ ◎ | 10As |
| OCT. 3 | 21 | IM57' | -36.5 | E | 7.5 | .50 | 10 | ‡ ◎ | 10As |
| OCT. 4 | 07 | IM57' | -39.6 | | | | | | |
| OCT. 4 | 09 | IM57' | -38.0 | E | 10.7 | .50 | 7 | ‡ ◑ | 3Ac 4Cc |
| OCT. 4 | 12 | IM63 | -36.0 | E | 11.1 | .80 | 8 | ‡ ◑ | 8Ci |
| OCT. 4 | 15 | IM69 | -35.8 | ESE | 9.8 | 2.0 | 5 | ‡ ◑ | 5Ci |
| OCT. 4 | 18 | IM75 | | | | 1.0 | 8 | ‡ ◑ | 3Ac 5Ci |
| OCT. 5 | 09 | IM77' | -39.5 | ESE | 12.1 | 2.0 | 10- | ‡ ◍ | 10-Ci |
| OCT. 5 | 12 | IM83 | -35.2 | ESE | 12.6 | 2.0 | 10- | ‡ ◍ | 10-Ci |
| OCT. 5 | 15 | IM89 | -35.5 | ESE | 11.6 | 2.0 | 10- | ‡ ◍ | 10-Ci |
| OCT. 5 | 21 | IM95 | -41.3 | ESE | 10.3 | 2.0 | 3 | ‡ ◑ | 3Ci |
| OCT. 6 | 07 | IM95 | -43.3 | | 13.0 | 1.0 | 0 | ‡ ○ | |
| OCT. 6 | 09 | IM95 | -40.5 | ESE | 9.6 | 1.0 | 0 | ‡ ○ | |
| OCT. 6 | 12 | IM102 | -36.5 | ESE | 11.3 | 1.0 | 2 | ‡ ○ | 2Cs |
| OCT. 6 | 15 | IM108 | -37.0 | ESE | 7.2 | 3.0 | 1 | ‡ ○ | 1Cs |
| OCT. 6 | 18 | IM113 | -39.9 | ESE | 8.9 | 2.0 | 2 | ‡ ○ | 2Cs |
| OCT. 6 | 21 | IM113 | -42.2 | ESE | 7.8 | 3.0 | 0 | ‡ ○ | |
| OCT. 7 | 07 | IM113 | -45.0 | | 7.4 | | | | |
| OCT. 7 | 09 | IM113 | -42.2 | ESE | 8.9 | 2.0 | 0 | ‡ ○ | |
| OCT. 7 | 12 | IM118 | -38.5 | ESE | 9.5 | 2.0 | 0 | ‡ ○ | |
| OCT. 7 | 15 | IM123 | -39.0 | ESE | 8.8 | 5.0 | 0+ | ‡ ○ | 0+Ci |
| OCT. 7 | 18 | IM127 | -42.0 | ESE | 10.2 | 5.0 | 0+ | ‡ ○ | 0+Cs |
| OCT. 7 | 21 | IM127 | -45.0 | | 9.3 | 3.0 | 0 | ‡ ○ | |
| OCT. 8 | 09 | IM127 | -45.2 | ESE | 11.0 | .50 | 0 | ‡ ○ | |
| OCT. 8 | 12 | IM132' | -42.0 | ESE | 10.1 | .50 | 0 | ‡ ○ | |
| OCT. 8 | 15 | IM137 | -41.0 | ESE | 8.0 | 1.0 | 0 | ‡ ○ | |
| OCT. 8 | 21 | IM145 | -47.2 | ESE | 7.9 | 2.0 | 0 | ‡ ○ | |
| OCT. 9 | 09 | IM145 | -46.9 | SE | 7.9 | 2.0 | 0 | ‡ ○ | |
| OCT. 9 | 12 | IM149 | -43.2 | SE | 8.6 | 2.0 | 1 | ‡ ○ | 1Ci |
| OCT. 9 | 15 | IM157 | -43.1 | SE | 6.9 | 10. | 1 | ‡ ○ | 1Ci |
| OCT. 9 | 18 | IM160 | -46.5 | SE | 6.5 | 20. | 0 | ‡ ○ | |
| OCT. 9 | 21 | IM164 | -51.1 | ESE | 6.1 | 20. | 0 | ‡ ○ | |
| OCT.10 | 09 | IM164 | -50.2 | ESE | 7.7 | 1.0 | 10 | ‡ ◍ | 10Cs |
| OCT.10 | 12 | IM164 | -46.5 | ESE | 7.4 | 1.0 | 0 | ↔ | |
| OCT.10 | 15 | IM169 | -45.2 | ESE | 8.6 | 1.0 | 1 | ↔ | 1Cs |
| OCT.10 | 18 | IM176 | -47.8 | E | 7.3 | 1.0 | 10- | ‡ ◍ | 10-Ci |

| Date | LT | Station | Ta | WD | WS | V | N | W |
|---|---|---|---|---|---|---|---|---|
| OCT.10 | 21 | IM179 | -51.3 | E | 8.5 | 2.0 | 10- | 10-Cs |
| OCT.11 | 09 | IM179 | -49.7 | ESE | 8.4 | 1.0 | 10- | 10-Cs |
| OCT.11 | 12 | IM180 | -46.0 | ESE | 8.5 | 1.0 | 2 | 2Cs |
| OCT.11 | 15 | IM185 | -45.0 | ESE | 8.2 | 1.0 | 1 | 1Cs |
| OCT.11 | 18 | IM193' | -47.2 | E | 8.7 | 2.0 | 1 | 1Cs |
| OCT.12 | 09 | IM198 | -47.8 | ESE | 11.4 | .30 | 8 | 8Cs |
| OCT.12 | 12 | IM200 | -44.6 | ESE | 12.1 | .10 | 10 | 10Cs |
| OCT.12 | 15 | IM205 | -42.8 | ESE | 11.1 | .30 | 10 | 10Cs |
| OCT.12 | 18 | IM211 | -45.0 | ESE | 9.9 | .30 | 10 | 10Cs |
| OCT.12 | 21 | IM215 | -47.6 | ESE | 7.6 | .30 | 10 | 10Cs |
| OCT.13 | 09 | IM215 | -49.0 | ESE | 8.8 | 1.0 | 0 | |
| OCT.13 | 12 | IM217 | -45.2 | ESE | 5.4 | 10. | 0 | |
| OCT.13 | 15 | IM222 | -44.0 | E | 6.0 | 20. | 0 | |
| OCT.13 | 18 | IM229 | -47.0 | ESE | 4.4 | 30. | 0+ | 0+Cs |
| OCT.13 | 21 | IM232 | -53.2 | ESE | 4.4 | 30. | 1 | 1Cs |
| OCT.14 | 09 | IM232 | -48.2 | ESE | 5.3 | 10. | 2 | 2Cs |
| OCT.14 | 12 | IM235' | -43.2 | E | 6.9 | 10. | 10 | 10Cs |
| OCT.14 | 15 | IM242 | -42.9 | ESE | 5.7 | 15. | 3 | 3Cs |
| OCT.14 | 18 | IM251 | -45.5 | ESE | 6.8 | 20. | 3 | 3Cs |

Table III-6. Surface meteorological data along Route S-H-Z during 27 October - 6 November 1985.

| Date | LT | Station | Ta | WD | WS | V | N | W |
|---|---|---|---|---|---|---|---|---|
| OCT.27 | 15 | S16 | -12.7 | ENE | 13.0 | 10. | 10- | 0+Ac 10-Ci |
| OCT.27 | 20 | H34 | -22.3 | ENE | 10.0 | 5.0 | 0+ | 0+Ac 0+Ci |
| OCT.28 | 08 | H34 | -19.7 | ENE | 13.0 | .50 | 5 | 5Ci |
| OCT.28 | 14 | H144 | -18.1 | ENE | 12.0 | 1.0 | 2 | 2Ci |
| OCT.28 | 20 | H227 | -25.1 | E | 9.0 | 2.0 | 0+ | 0+Ci |
| OCT.29 | 07 | H227 | -27.5 | E | 9.0 | 1.0 | 2 | 2Ci |
| OCT.29 | 14 | Z6 | -23.7 | E | 11.0 | 20. | 0+ | 0+Ci |
| OCT.29 | 20 | Z42 | -31.3 | E | 7.0 | 50. | 0+ | 0+Ci |
| OCT.30 | 07 | Z42 | -35.0 | E | 10.0 | 1.0 | 0+ | 0+Ci |
| OCT.30 | 12 | Z80 | -28.3 | ENE | 10.0 | 20. | 0+ | 0+Ci |
| Stay at Mizuho Station 31 October - 2 November. | | | | | | | | |
| NOV. 3 | 15 | Z77 | -27.3 | NE | 5.0 | 50. | 0+ | 0+Ci |
| NOV. 3 | 22 | Z22 | -33.5 | ENE | 7.0 | 50. | 7 | 7Ci |
| NOV. 4 | 07 | Z22 | -31.3 | ENE | 9.0 | 15. | 10- | 0+Ac 8Ci 10-Cs |
| NOV. 4 | 15 | H266 | -21.6 | NNE | 8.0 | 20. | 10 | 10Cs |
| NOV. 4 | 22 | H154 | -22.3 | ENE | 8.0 | .30 | 10 | 10As |
| NOV. 5 | 07 | H154 | -24.5 | E | 6.0 | 5.0 | 10 | 1As 10Cs |
| NOV. 5 | 15 | H50 | -17.8 | NE | 7.0 | 50. | 5 | 2Cu 4Ci |
| NOV. 5 | 19 | S16 | -15.6 | NE | 5.0 | 15. | 3 | 1St 0+Cb 1Cu 3Ci |
| NOV. 6 | 08 | S16 | -14.0 | ENE | 6.0 | 15. | 10 | 0+Sc 10Ac |

Table III-7. Surface meteorological data along Route ID-DF during 9 November - 25 December 1985.

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| NOV. 9 | 15 | ID5 | -34.5 | ENE | 2.8 | 30. | 6 | ◐ | 6Ci |
| NOV. 9 | 18 | ID12 | -35.9 | E | 3.4 | 30. | 9 | ◍ | 9Cs/Ci |
| NOV.10 | 09 | ID16' | -36.7 | E | 5.7 | 5.0 | 9 | ◍ ⊕ | 9Cs/Ci |
| NOV.10 | 12 | ID21' | -33.5 | E | 4.3 | 5.0 | 10- | ✳ | 10-Cs/Ci |
| NOV.10 | 15 | ID25' | -33.0 | E | 5.4 | 10. | 8 | ◐ | 8Cs/Ci |
| NOV.10 | 18 | ID33' | -35.2 | ESE | 4.2 | 5.0 | 8 | ◐ ⊕ | 8Cs/Ci |
| NOV.10 | 21 | ID38' | -40.7 | E | 4.4 | 30. | 6 | ◐ | 6Ci |
| NOV.11 | 09 | ID38' | -31.0 | E | 9.7 | .20 | 10- | ✳+ | 10-Cs |
| NOV.11 | 12 | ID39' | -29.2 | E | 10.0 | .10 | 10- | ✳+ | |
| NOV.11 | 15 | ID41' | -27.8 | ENE | 9.8 | .20 | 10- | ✳+ | |
| NOV.11 | 21 | ID43 | -31.9 | E | 7.5 | .40 | 9 | ◍ | 9Cs/Ci |
| NOV.12 | 09 | ID43 | -33.7 | E | 5.2 | 10. | 9 | ◍ | 9Cs/Ci |
| NOV.12 | 15 | ID43 | -29.0 | ENE | 6.4 | 5.0 | 10- | ◍ ⊕ | 10-Cs/Ci |
| NOV.12 | 18 | ID43 | -34.2 | ENE | 4.6 | 10. | 10- | ◍ ⊕ | 10-Cs |
| NOV.12 | 21 | ID43 | -38.9 | E | 3.8 | 30. | 9 | ✳ ⊕ | 9Cs/Ci |
| NOV.13 | 09 | ID43 | -36.0 | SE | 6.6 | 5.0 | 7 | + ◐ | 7Ci |
| NOV.13 | 12 | ID45 | -34.3 | ESE | 7.5 | 5.0 | 7 | + ◐ ⊕ | 7Ci/Cs |
| NOV.13 | 15 | ID47 | -32.7 | E | 7.4 | 5.0 | 8 | + ◐ | 8Ci/Cs |
| NOV.13 | 18 | ID52 | -35.2 | E | 6.9 | 5.0 | 9 | + ◍ | 9Ci/Cs |
| NOV.14 | 09 | ID56 | -33.6 | ENE | 7.7 | .50 | 10- | ✳+ ⊕ | 10-Cs |
| NOV.14 | 12 | ID58' | -31.5 | ENE | 7.8 | 1.5 | 10- | ✳+ ⊕ | 10-Cs |
| NOV.14 | 15 | ID62 | -30.1 | NE | 5.9 | 10. | 10- | ✳ ⊕ | 10-Cs |
| NOV.14 | 18 | ID66' | -31.9 | ENE | 4.0 | 10. | 10- | ✳ ⊕ | 10-Cs |
| NOV.15 | 09 | ID71 | -37.9 | | | 10. | 9 | ✳ ⊕ | 9Cs/Ci |
| NOV.15 | 12 | ID75 | -33.7 | Calm | | 30. | 8 | ✳ ⊕ | 8Cs/Ci |
| NOV.15 | 15 | ID79' | -29.8 | Calm | | 30. | 7 | ✳ ⊕ | 7Cs/Ci |
| NOV.15 | 18 | ID85 | -37.7 | Calm | | 30. | 6 | ✳ ⊕ | 6Cs/Ci |
| NOV.15 | 21 | ID89 | -42.9 | Calm | | 30. | 1 | ○ | 0+As 0+Ci |
| NOV.16 | 09 | ID89 | -43.8 | SSE | 3.0 | 30. | 0+ | ○ | 0+As 0+Ci |
| NOV.16 | 12 | ID92' | -38.7 | SSE | 2.6 | 30. | 0+ | ○ | 0+Ci |
| NOV.16 | 15 | ID97 | -37.7 | SE | 2.2 | 30. | 1 | ○ | 1Ci |
| NOV.17 | 09 | ID99 | -44.7 | ESE | 4.5 | 30. | 0+ | ○ | 0+Ci |
| NOV.17 | 15 | ID99 | -38.9 | ESE | 4.3 | 30. | 0 | ○ | |
| NOV.17 | 21 | ID99 | -46.3 | E | 3.6 | 30. | 0 | ○ | |
| NOV.18 | 09 | ID99 | -40.7 | E | 4.9 | 30. | 6 | ◐ | 6Ci |
| NOV.18 | 12 | ID103 | -37.7 | ENE | 5.3 | 5.0 | 6 | ✳ ⊕ | 6Ci/Cs |
| NOV.18 | 15 | ID107' | -34.3 | NE | 5.9 | 5.0 | 9 | ✳ ⊕ | 9Ci/Cs |
| NOV.18 | 18 | ID113' | -36.7 | ENE | 3.2 | 5.0 | 8 | ✳ ⊕ | 8Ci/Cs |
| NOV.19 | 09 | ID113' | -39.5 | | | 10. | 8 | ◐ ⊕ | 8Ci/Cs |
| NOV.19 | 12 | ID113' | -33.5 | ENE | 1.5 | 30. | 7 | ◐ | 7Ci/Cs |
| NOV.19 | 15 | ID113' | -34.3 | ENE | 2.1 | 30. | 9 | ◍ ⊕ | 9Ci/Cs |
| NOV.19 | 18 | ID113' | -37.3 | ESE | 1.8 | 10. | 9 | ◍ ⊕ | 9Ci/Cs |
| NOV.19 | 21 | ID113' | -42.7 | Calm | | 10. | 9 | ◍ | 9Ci/Cs |
| NOV.20 | 09 | ID113' | -35.7 | E | 5.3 | 10. | 10- | ◍ ⊕ | 10-Cs |
| NOV.20 | 12 | ID117' | -33.9 | ENE | 5.7 | 5.0 | 10 | ◍ | 10Cs |
| NOV.20 | 15 | ID122 | -32.9 | ENE | 5.2 | 30. | 10 | ✳ ⊕ | 10Cs |
| NOV.20 | 18 | ID127 | -34.5 | ENE | 3.4 | 30. | 10 | ◍ ⊕ | 10Cs |
| NOV.21 | 09 | ID132 | -35.5 | ENE | 2.6 | 10. | 9 | ◍ ⊕ | 9Ci/Cs |
| NOV.21 | 12 | ID135' | -32.5 | NE | 3.3 | 30. | 9 | ◍ ⊕ | 9Ci/Cs |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| NOV.21 | 15 | ID140 | -32.7 | N | 3.9 | 10. | 10 | ◍ ⊕ | 10Cs |
| NOV.21 | 18 | ID145' | -33.7 | N | 3.0 | 10. | 10- | ⋇ ⊕ | 10-Cs |
| NOV.22 | 09 | ID150 | -39.3 | NNW | 3.0 | 10. | 7 | ◍ | 7Ci |
| NOV.22 | 12 | ID153 | -34.1 | NNW | 3.7 | 30. | 2 | ○ | 2Ci |
| NOV.22 | 15 | ID155 | -33.8 | NW | 4.2 | 30. | 6 | ◍ | 6Ci |
| NOV.23 | 09 | ID155 | -40.0 | | | 5.0 | 10- | ⋇ ⊕ | 10-Cs |
| NOV.23 | 12 | DF4 | -36.8 | WNW | 2.7 | 30. | 3 | ◍ | 3Ci |
| NOV.23 | 15 | DF11 | -32.0 | WNW | 2.8 | 30. | 8 | ⋇ ⊕ | 8Ci/Cs |
| NOV.23 | 18 | DF18 | -37.7 | NW | 1.6 | 30. | 8 | ⋇ ⊕ | 8Ci/Cs |
| NOV.24 | 09 | DF25 | -40.7 | NW | 2.5 | 10. | 6 | ⋇ | 6Ci |
| NOV.24 | 12 | DF30 | -36.5 | WNW | 4.0 | 30. | 7 | ⋇ ⊕ | 7Ci/Cs |
| NOV.24 | 15 | DF37 | -34.7 | W | 3.7 | 30. | 7 | ◍ | 7Ci |
| NOV.24 | 18 | DF44 | -37.7 | NW | 1.5 | 10. | 6 | ⋇ | 1St 6Ci |
| NOV.25 | 09 | DF50 | -39.8 | W | 1.3 | 30. | 1 | ○ | 1St 1Ci |
| NOV.25 | 15 | DF53 | -34.8 | NW | 3.1 | 30. | 1 | ○ | 1Ci |
| NOV.26 | 09 | DF63 | -36.7 | WNW | 3.2 | 30. | 5 | ◍ | 5Ci |
| NOV.26 | 15 | DF72 | -34.0 | WNW | | 30. | 1 | ○ | 0+Ac 1Ci |
| NOV.27 | 12 | DF72 | -35.7 | W | 1.6 | 30. | 0+ | ○ | 0+Ci |
| NOV.27 | 15 | DF72 | -32.0 | WNW | 1.3 | 30. | 0+ | ○ | 0+Ci |
| NOV.27 | 21 | DF80 | -44.3 | NNW | 1.6 | 10. | 3 | ⋇ | 1St 1Ac 2Ci |
| NOV.28 | 12 | DF80 | -35.9 | WNW | 3.7 | 30. | 3 | ◍ | 3Ci |
| NOV.28 | 15 | DF87 | -31.5 | NW | 3.2 | 30. | 2 | ⋇ | 2Ci |
| NOV.28 | 18 | DF96 | -35.7 | NNW | 2.2 | 30. | 3 | ◍ | 3Ci |
| NOV.29 | 09 | DF104 | -38.9 | NNW | 2.8 | 10. | 8 | ◍ ⊕ | 8Ci/Cs |
| NOV.29 | 12 | DF110 | -32.5 | NW | 4.0 | 10. | 9 | ⋇ ⊕ | 9Ci/Cs |
| NOV.29 | 15 | DF117 | -31.7 | NW | 4.6 | 30. | 7 | ⋇ ⊕ | 7Ci/Cs |
| NOV.29 | 18 | DF125 | -34.7 | NNW | 2.5 | 30. | 7 | ⋇ ⊕ | 7Ci/Cs |
| NOV.30 | 09 | DF132 | -36.6 | N | 3.7 | 30. | 1 | ○ | 1Ci |
| NOV.30 | 12 | DF137 | -35.0 | NNW | 3.4 | 30. | 2 | ○ | 2Ci |
| NOV.30 | 15 | DF142 | -31.0 | N | 2.8 | 30. | 7 | ◍ | 0+Ac 7Ci |
| NOV.30 | 18 | DF148 | -34.1 | N | 2.1 | 30. | 8 | ⋇ | 0+Ac 8Ci/Cs |
| DEC. 1 | 12 | ID155 | -33.2 | NNE | 5.6 | 5.0 | 10- | ⋇ ⊕ | 10-Ci/Cs |
| DEC. 1 | 15 | ID155 | -32.3 | NNE | 6.2 | 10. | 10 | ⋇ ⊕ | 10Ci/Cs |
| DEC. 1 | 18 | ID155 | -32.7 | N | 5.1 | 10. | 10 | ⋇ ⊕ | 10Ci/Cs |
| DEC. 1 | 21 | ID155 | -36.8 | NNE | 4.0 | 10. | 10- | ⋇ ⊕ | 10Ci/Cs |
| DEC. 2 | 09 | ID155 | -35.7 | NNW | 5.0 | 10. | 10 | ⋇ | 1As 10Ci/Cs |
| DEC. 2 | 12 | ID155 | -31.0 | NW | 5.8 | 10. | 10 | ⋇ | 1As 10Ci/Cs |
| DEC. 2 | 15 | ID155 | -31.0 | NNW | 6.6 | 10. | 10- | ⋇ ⊕ | 10-Cs |
| DEC. 2 | 21 | ID155 | -37.9 | NNE | 2.2 | 10. | 9 | ⋇ ⊕ | 9Ci/Cs |
| DEC. 3 | 09 | ID155 | -37.5 | NNE | 3.0 | 10. | 8 | ⋇ ⊕ | 8Ci/Cs |
| DEC. 3 | 21 | ID155 | -38.7 | NE | 4.2 | 10. | 8 | ⋇ ⊕ | 8Ci/Cs |
| DEC. 4 | 12 | ID155 | -33.3 | NE | 8.6 | 1.0 | 10 | ⋇+ ⊕ | 10Ci/Cs |
| DEC. 4 | 21 | ID155 | -34.7 | NNE | 7.0 | 1.0 | 10 | ⋇+ ⊕ | 10Ci/Cs |
| DEC. 5 | 09 | ID155 | -32.7 | NE | 6.2 | 1.0 | 10 | ⋇ ⊕ | 10Ci/Cs |
| DEC. 5 | 21 | ID155 | -36.7 | NE | 2.4 | 10. | 9 | ⋇ ⊕ | 9Ci/Cs |
| DEC. 6 | 09 | ID155 | -34.2 | ENE | 3.4 | 30. | 9 | ⋇ ⊕ | 9Ci/Cs |
| DEC. 6 | 12 | ID155 | -32.0 | NE | 4.8 | 30. | 8 | ⋇ ⊕ | 8Ci/Cs |
| DEC. 6 | 15 | ID155 | -31.5 | NE | 4.5 | 30. | 7 | ⋇ | 7Ci/Cs |
| DEC. 6 | 21 | ID155 | -37.5 | E | 2.6 | 30. | 2 | ○ | 2Ci |
| DEC. 7 | 09 | ID155 | -35.4 | ENE | 4.3 | 30. | 7 | ⋇ ⊕ | 6Cs 1Ci |
| DEC. 7 | 15 | ID155 | -31.6 | ENE | 5.7 | 30. | 1 | ⋇ ⊕ | 1Ci |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| DEC. 8 | 09 | ID155 | -35.7 | NE | 4.0 | 10. | 8 | ⁕ ⊕ | 8Ci/Cs |
| DEC. 8 | 15 | ID155 | -30.8 | NNE | 4.4 | 30. | 7 | ⁕ ⊕ | 7Ci/Cs |
| DEC. 9 | 09 | ID155 | -36.0 | | | 10. | 3 | ⊕ | 3Ci |
| DEC. 9 | 12 | ID159 | -31.2 | NNW | 2.3 | 30. | 8 | ⁕ ⊕ | 8Ci/Cs |
| DEC. 9 | 15 | ID165 | -29.7 | NNW | 4.8 | 30. | 7 | ⁕ ⊕ | 7Ci/Cs |
| DEC. 9 | 18 | ID171 | -31.2 | N | 2.4 | 30. | 0+ | ↔ | 0+Ci |
| DEC.10 | 09 | ID178 | -33.0 | NE | 4.6 | 30. | 6 | ⁕ | 6Ci/Cs |
| DEC.10 | 12 | ID184 | -31.0 | NE | 7.0 | 30. | 6 | ⁕ | 6Ci/Cs |
| DEC.10 | 15 | ID190 | -28.3 | NE | 7.4 | 10. | 9 | ⊹ ⊕ ⊕ | 9Ci/Cs |
| DEC.10 | 18 | ID198 | -30.2 | NE | 7.6 | 10. | 4 | ⊹ ⊕ | 4Ci/Cs |
| DEC.11 | 15 | ID205 | -29.0 | N | 6.8 | 30. | 1 | ○ | 1Ci |
| DEC.11 | 18 | ID205 | -29.3 | N | 5.6 | 30. | 1 | ○ | 1Ci |
| DEC.12 | 09 | ID205 | -32.3 | NNW | 1.2 | 30. | 1 | ○ | 0+Ac 1Ci |
| DEC.12 | 12 | ID210 | -27.4 | Calm | | 30. | 4 | ↔ ⊕ | 0+Ac 3Cs 1Ci |
| DEC.12 | 15 | ID216 | -28.0 | S | 1.2 | 30. | 1 | ○ | 0+AC 1Ci |
| DEC.12 | 18 | ID225 | -28.3 | SSE | 1.8 | 30. | 1 | ○ | 1Ci |
| DEC.13 | 09 | ID232 | -32.0 | SE | | 30. | 1 | ○ | 1Ci |
| DEC.13 | 12 | ID237 | -28.2 | SE | 5.4 | 30. | 1 | ○ | 1Ci |
| DEC.13 | 15 | ID243 | -27.0 | SE | 5.0 | 30. | 1 | ○ | 0+Ac 0+Ci |
| DEC.13 | 18 | ID250 | -26.5 | SE | 6.2 | 30. | 0+ | ○ | 0+Ci |
| DEC.14 | 15 | ID259 | -27.3 | ENE | 1.9 | 30. | 8 | ⊕ | 8Ci/Cs |
| DEC.15 | 09 | ID259 | -33.2 | E | 1.0 | 30. | 9 | ⁕ | 9Ci/Cs |
| DEC.15 | 15 | ID259 | -29.3 | NE | 3.4 | 30. | 8 | ⁕ ⊕ | 8Ci/Cs |
| DEC.16 | 09 | ID259 | -35.2 | ESE | 2.6 | 30. | 0+ | ○ | 0+Ci |
| DEC.16 | 12 | ID264 | -31.2 | ESE | 3.8 | 30. | 0+ | ○ | 0+Ci |
| DEC.16 | 15 | ID270 | -30.2 | ESE | 4.9 | 30. | 1 | ○ | 1Cu |
| DEC.16 | 18 | ID277 | -30.2 | ESE | 6.4 | 30. | 0+ | ○ | 0+Cu |
| DEC.16 | 21 | ID283 | -32.2 | SE | 3.8 | 30. | 0 | ○ | |
| DEC.17 | 09 | ID283 | -32.7 | E | 7.8 | 5.0 | 0 | ⊹ ○ | |
| DEC.17 | 12 | ID288 | -28.3 | ESE | 9.1 | 1.5 | 1 | ⊹ ○ | 1Ci |
| DEC.17 | 15 | ID294 | -26.3 | E | 10.8 | 1.5 | 7 | ⊹ ⊕ | 7Ci |
| DEC.17 | 18 | ID300 | -24.4 | E | 9.7 | 1.0 | 9 | ⁕⊹ ⊕ | 9Ci/Cs |
| DEC.18 | 09 | ID303 | -23.5 | ENE | 10.8 | .30 | 10 | ⁕⊹ | 10Cs |
| DEC.18 | 12 | ID303 | -22.2 | ENE | 11.8 | .20 | 10 | ⁕⊹ | 10Cs |
| DEC.18 | 15 | ID303 | -22.4 | NE | 10.9 | .20 | 10 | ⁕⊹ | 10Cs |
| DEC.18 | 18 | ID303 | -23.2 | NE | 9.4 | .50 | 10- | ⊹ ⊕ | 2Cu 9Ci/Cs |
| DEC.18 | 23 | ID303 | -27.1 | E | 7.0 | 1.0 | 10- | ⊕ ⊕ | 2Ac 9Ci/Cs |
| DEC.19 | 09 | ID303 | -23.8 | NE | 7.1 | 1.0 | 10 | ⊹ ⊕ ⊕ | 10Ci/Cs |
| DEC.19 | 12 | ID307 | -21.2 | NE | 8.4 | .50 | 10 | ⁕⊹ ⊕ | 10Ci/Cs |
| DEC.19 | 15 | ID312 | -22.6 | NE | 8.2 | .50 | 10 | ⁕⊹ ⊕ | 10Ci/Cs |
| DEC.19 | 21 | ID315 | -25.4 | ENE | 5.0 | 5.0 | 9 | ⁕⊹ ⊕ | 2St 8Ci/Cs |
| DEC.20 | 09 | ID315 | -23.2 | ENE | 8.0 | .80 | 10 | ⁕⊹ ⊕ | 10Cs |
| DEC.20 | 12 | ID315 | -23.7 | ENE | 7.4 | | 10 | ⁕⊹ ⊕ | 2Cu 10Ci/Cs |
| DEC.20 | 15 | ID320 | -24.0 | E | 8.6 | 5.0 | 8 | ⊹ ⊕ | 1Cu 2Ci 6Cs |
| DEC.20 | 18 | ID325 | -24.9 | ESE | 9.1 | 3.0 | 3 | ⊹ ⊕ | 1As 3Ci |
| DEC.20 | 21 | ID331 | -27.8 | ESE | 4.7 | 30. | 6 | ⊕ | 6Ci |
| DEC.21 | 09 | ID331 | -28.0 | ESE | 7.7 | 5.0 | 1 | ⊹ ○ | 0+Ci |
| DEC.21 | 12 | ID336 | -25.3 | ESE | 10.4 | 3.0 | 0+ | ⊹ ○ | 0+Ci |
| DEC.21 | 15 | ID341 | -23.2 | ESE | 8.5 | 3.0 | 0+ | ⊹ ○ | 0+Ci |
| DEC.21 | 18 | ID347 | -23.2 | E | 7.0 | 5.0 | 1 | ⊹ ○ | 1Ci |
| DEC.21 | 21 | ID352 | -25.9 | ESE | 6.0 | 30. | 0+ | ⊹ ○ | 0+Ci |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| DEC.22 | 09 | ID352 | -27.3 | ESE | 7.8 | 10. | 7 | ⊹ ◐ | 1Ac 7Ci |
| DEC.22 | 12 | ID356 | -25.4 | ESE | 8.4 | 30. | 5 | ⊹ ◐ | 5Ci/Cs |
| DEC.22 | 15 | ID360 | -23.8 | ESE | 7.5 | 30. | 6 | ⊹ ◐ | 6Ci |
| DEC.22 | 21 | ID360 | -26.2 | ESE | 6.0 | 30. | 1 | ○ | 1Ci |
| DEC.23 | 09 | ID360 | -28.3 | ESE | 8.0 | 30. | 0+ | ⊹ ○ | 0+Ac 0+Ci |
| DEC.23 | 12 | ID360 | -25.3 | ESE | 8.8 | 10. | 0+ | ⊹ ○ | 0+Ci |
| DEC.23 | 15 | ID365 | -24.2 | ESE | 9.2 | 10. | 1 | ⊹ ○ | 0+Ci |
| DEC.23 | 18 | ID372 | -25.2 | ESE | 10.0 | 10. | 0+ | ⊹ ○ | 0+Ci |
| DEC.24 | 09 | ID378 | -28.5 | ESE | 5.6 | 30. | 0+ | ○ | 0+Ci |
| DEC.24 | 12 | ID383 | -26.5 | E | 8.0 | 30. | 0+ | ○ | 0+Ci |
| DEC.24 | 15 | ID390 | -24.4 | ESE | 7.2 | 30. | 0+ | ⊹ ○ | 0+Ci |
| DEC.24 | 18 | ID396 | -24.7 | E | 7.2 | 30. | 0+ | ⊹ ○ | 0+Ci |
| DEC.25 | 09 | ID402 | -25.8 | E | 9.5 | .70 | 9 | ⊹ ◐ ⊕ | 9Ci/Cs |
| DEC.25 | 12 | ID406 | -23.8 | E | 8.8 | 1.0 | 10 | ⁂ ⊹ ⊕ | 10Ci/Cs |

Table III-8. Surface meteorological data along Route IM-Z-H-S during 3 January to 3 February 1986.

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| 1986 | | | | | | | | | |
| JAN. 3 | 15 | IM242 | -22.0 | ENE | 9.3 | .50 | 8 | ⊹ ◐ | 8Cs |
| JAN. 4 | 15 | IM213 | -20.0 | E | 9.4 | 2.0 | 10 | ⁂ ⊹ | 3Cu 7Cs |
| JAN. 4 | 21 | IM196 | -24.0 | E | 3.6 | 30. | 6 | ⁂ | 6Ci |
| JAN. 5 | 09 | IM196 | -22.7 | E | 12.0 | .30 | 10 | ⁂ ⊹ | 10Cs |
| JAN. 5 | 15 | IM184 | -20.5 | E | 12.3 | .50 | 3 | ⊹ ◐ | 1Cc 2Cs |
| JAN. 6 | 15 | IM157 | -20.2 | E | 11.6 | 1.0 | 1 | ⊹ ○ | 1Cs |
| JAN. 7 | 09 | IM157 | -24.2 | E | 8.8 | 2.0 | 7 | ⊹ ◐ | 7Cc |
| JAN. 7 | 15 | IM145 | -20.7 | ESE | 10.3 | 3.0 | 0 | ⊹ ○ | |
| JAN. 8 | 15 | IM111 | -20.0 | E | 12.0 | .30 | X | ⊹ | |
| JAN. 8 | 21 | IM97' | -22.2 | ESE | 11.6 | .30 | 5 | ⊹ ◐ | 5As |
| JAN. 9 | 09 | IM97' | -17.4 | E | 11.4 | .20 | 10 | ⁂ ⊹ | 10As |
| JAN. 9 | 15 | IM97' | -14.7 | E | 12.7 | .20 | 10 | ⁂ ⊹ | 10As |
| JAN.10 | 09 | IM97' | -17.2 | E | 19.0 | .01 | 10 | ⁂ ⊹ | 10St |
| JAN.10 | 15 | IM97' | -14.5 | E | 16.9 | .03 | 10 | ⁂ ⊹ | 10St |
| JAN.11 | 09 | IM97' | -15.4 | E | 14.2 | .05 | 10 | ⊹ ◎ | 10As |
| JAN.11 | 15 | IM97' | -14.0 | E | 13.8 | .10 | 10 | ⊹ ◎ | 5As 5Cs |
| JAN.12 | 15 | IM97' | -14.2 | E | 10.6 | .50 | 10 | ⊹ ◐ | 10Cs |
| JAN.13 | 09 | IM80 | -14.5 | E | 13.6 | .10 | 2 | ⊹ ○ | 2Cs |
| JAN.13 | 15 | IM66 | -10.3 | E | 10.3 | 2.0 | 1 | ⊹ ○ | 1Cs |
| JAN.14 | 15 | IM22 | -11.0 | E | 12.3 | .50 | 0 | ⊹ ○ | |
| Stay at Mizuho Station 15 - 19 January 1986. | | | | | | | | | |
| JAN.20 | 15 | H206 | -10.5 | ENE | 3.1 | 30. | 0 | ○ | |
| JAN.22 | 06 | S16 | -7.6 | E | 9.0 | 30. | 9 | ◎ | 9Ac |
| JAN.23 | 15 | S25 | -8.0 | ENE | 6.7 | 30. | 0+ | ○ | 0+Cs |
| JAN.24 | 15 | S25 | -8.0 | NNE | 3.5 | 30. | 1 | ○ | 1Ac |
| JAN.25 | 15 | S25 | -8.2 | ENE | 6.0 | 30. | 1 | ○ | 1Ac |
| JAN.26 | 15 | S25 | -8.0 | ENE | 8.0 | 30. | 5 | ⊹ ◐ | 5Ci |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| JAN.27 | 15 | S25 | -9.0 | ENE | 9.0 | 5.0 | 8 | | 8Ac |
| JAN.28 | 15 | S25 | -9.0 | NE | 4.5 | 30. | 2 | | 2As 0+Cc |
| JAN.29 | 15 | S25 | -9.0 | S | 2.8 | 30. | 1 | | 1Cc |
| JAN.30 | 15 | S25 | -7.6 | ENE | 4.9 | 30. | 9 | | 5Cc 4Cs |
| FEB. 1 | 15 | S25 | -10.2 | ENE | 10.3 | 2.0 | 10 | | 10As |
| FEB. 2 | 15 | S16 | -8.3 | ENE | 10.4 | 10. | 10 | | 10As |
| FEB. 3 | 06 | S16 | -12.5 | ENE | 10.0 | 20. | 9 | | 9Ac |

Table III-9. Surface meteorological data along Route IR-KR-RY during 8 - 31 January 1986.

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| JAN. 8 | 15 | IR5 | -23.1 | E | 11.6 | 2.0 | 0 | | |
| JAN. 8 | 18 | IR11 | -24.1 | E | 10.4 | 1.0 | 0+ | | 0+Ac |
| JAN. 9 | 09 | IR16 | -24.2 | E | 13.0 | .10 | 10- | | |
| JAN. 9 | 15 | IR16 | -18.3 | ENE | 12.9 | .10 | 10 | | |
| JAN.10 | 09 | IR16 | -18.1 | ENE | 14.6 | .05 | 10- | | |
| JAN.10 | 15 | IR16 | -17.2 | ENE | 16.2 | .05 | 10- | | |
| JAN.10 | 21 | IR16 | -18.8 | ENE | 11.2 | .05 | 10- | | |
| JAN.11 | 09 | IR16 | -15.8 | ENE | 11.8 | .10 | 10 | | |
| JAN.11 | 15 | IR16 | -16.8 | ENE | 9.0 | .10 | 10 | | |
| JAN.11 | 21 | IR16 | -18.2 | E | 12.0 | .30 | 10- | | 10-As |
| JAN.12 | 09 | IR16 | -19.4 | E | 10.8 | .40 | 9 | | 8Sc 1Ac |
| JAN.12 | 12 | IR19 | -16.1 | E | 8.4 | .70 | 10- | | |
| JAN.12 | 15 | IR19' | -17.1 | ENE | 12.9 | .10 | 10- | | |
| JAN.12 | 18 | IR19' | -17.8 | ENE | 9.5 | .30 | 10- | | 7Sc 1As 6Cs |
| JAN.12 | 21 | IR19' | -18.9 | ENE | 9.4 | 10. | 9 | | 1St 8As/Ac |
| JAN.13 | 09 | IR19' | -16.9 | E | 9.6 | 1.5 | 9 | | 2Ac 8Cs/Ci |
| JAN.13 | 12 | IR26' | -14.6 | E | 11.5 | 1.5 | 10- | | 10-Ac/As |
| JAN.13 | 15 | IR32' | -14.2 | E | 8.9 | 2.0 | 3 | | 1Ac 2Ci |
| JAN.13 | 18 | IR40' | -13.5 | ENE | 10.1 | 3.0 | 9 | | 2Ac 8Ci |
| JAN.14 | 09 | IR50 | -15.7 | E | 12.4 | 1.2 | 2 | | 2Ci |
| JAN.14 | 12 | IR54 | -14.2 | E | 13.8 | .70 | 2 | | 1Ac 1Ci |
| JAN.14 | 15 | IR58' | -12.5 | ENE | 15.2 | .70 | 1 | | 0+Ac 0+Ci |
| JAN.14 | 18 | IR64 | -13.2 | E | 13.8 | .50 | 1 | | 1Ac 0+Ci |
| JAN.15 | 15 | KR73 | -14.2 | E | 9.8 | 2.0 | 0+ | | 0+Ci |
| JAN.16 | 12 | KR61 | -16.1 | ESE | 12.0 | 3.0 | 1 | | 1Ac |
| JAN.16 | 15 | KR54 | -14.1 | ESE | 10.5 | 5.0 | 0+ | | 0+Ac |
| JAN.16 | 18 | KR44 | -14.2 | ESE | 9.1 | 10. | 1 | | 0+Ac 0+Ci |
| JAN.17 | 09 | KR37 | -20.6 | SE | 9.1 | 10. | 1 | | 0+Ac 0+Ci |
| JAN.17 | 12 | KR34 | -17.1 | ESE | 9.1 | 10. | 3 | | 1Ac 3Ci |
| JAN.17 | 15 | KR26 | -14.2 | ESE | 9.4 | 30. | 1 | | 0+Cu 0+Ac 0+Ci |
| JAN.17 | 18 | KR20 | -13.8 | ESE | 7.2 | 30. | 0+ | | 0+Cu 0+Ac |
| JAN.18 | 09 | KR10 | -16.9 | ESE | 9.7 | 30. | 0+ | | 0+Ac |
| JAN.18 | 12 | KR5 | -13.4 | ESE | 10.0 | 30. | 0+ | | 0+Ac |
| JAN.18 | 15 | RY135 | -11.4 | E | 7.8 | 30. | 0+ | | 0+Cu 0+Ac |
| JAN.18 | 21 | RY135 | -15.1 | E | 5.1 | 30. | 0+ | | 0+Ac |
| JAN.19 | 09 | RY135 | -16.1 | ESE | 7.3 | 30. | 0+ | | 0+Ac 0+Ci |
| JAN.19 | 12 | RY142 | -12.7 | ESE | 8.0 | 30. | 0+ | | 0+Ac 0+Ci |

| Date | LT | Station | Ta | WD | WS | V | N | W | |
|---|---|---|---|---|---|---|---|---|---|
| JAN.19 | 15 | RY150 | -11.1 | ESE | 6.8 | 30. | 0+ | ⊹ ○ | 0+Ac 0+Ci |
| JAN.21 | 09 | RY155 | -16.9 | SSE | 9.3 | 30. | 0 | ⊹ ○ | |
| JAN.21 | 12 | RY163 | -12.2 | SSE | 10.2 | 5.0 | 0 | ⊹ ○ | |
| JAN.21 | 15 | RY167 | -8.6 | SE | 8.7 | 30. | 0+ | ⊹ ○ | 0+Cu |
| JAN.21 | 18 | RY176' | -7.0 | SE | 7.3 | 30. | 0+ | ○ | 0+Cu |
| JAN.23 | 09 | RY185' | -11.1 | SE | 7.4 | 30. | 3 | ◐ | 3Ci |
| JAN.23 | 12 | RY187 | -8.2 | SE | 9.6 | 30. | 2 | ○ | 2Ci |
| JAN.23 | 15 | RY190 | -7.1 | ESE | 9.4 | 30. | 2 | ○ | 2Ci |
| JAN.24 | 12 | RY201 | -8.2 | ESE | 7.6 | 30. | 0 | ○ | |
| JAN.24 | 15 | RY206 | -6.5 | ESE | 7.4 | 30. | 0 | ○ | |
| JAN.24 | 18 | RY211 | -5.2 | E | 6.6 | 30. | 0 | ○ | |
| JAN.25 | 09 | RY217 | -9.3 | ESE | 9.8 | 30. | 0 | ○ | |
| JAN.25 | 15 | RY225' | -7.4 | E | 9.0 | 30. | 0+ | ○ | 0+Ac |
| JAN.25 | 18 | RY231 | | | | 30. | 0+ | ○ | 0+Ac |
| JAN.25 | 21 | RY239 | -11.4 | E | 5.4 | 30. | 0+ | ○ | 0+Ac |
| JAN.26 | 09 | RY239 | -11.8 | SE | 12.4 | .50 | 0 | ⊹ ○ | |
| JAN.26 | 12 | RY244 | -9.3 | ESE | 13.0 | 1.5 | 0+ | ⊹ ○ | 0+Ac |
| JAN.26 | 15 | RY250' | -8.1 | ESE | 12.8 | 3.0 | 0 | ⊹ ○ | |
| JAN.27 | 15 | Asuka | -8.9 | ESE | 12.6 | 2.0 | 0+ | ⊹ ○ | 0+Cu |
| JAN.28 | 15 | Asuka | -10.3 | E | 12.4 | 5.0 | 0+ | ⊹ ○ | 0+Ac |
| JAN.29 | 15 | Asuka | -9.5 | E | 10.4 | 10. | 1 | ○ | 1Ac |
| JAN.30 | 15 | Asuka | -8.9 | ESE | 16.2 | 5.0 | 7 | ⊹ ◐ | |
| JAN.31 | 15 | Asuka | -8.6 | ESE | 16.0 | 5.0 | 7 | ⊹ ◐ | 3Ac 5Ci/Cc |

## IV. Net Accumulation of Snow along Traverse Routes

Observers: JARE-24 Masayoshi NAKAWO and others
JARE-25 Yoshiyuki FUJII and
Kunio KAWADA
JARE-26 Yutaka AGETA and others
JARE-27 Fumihiko NISHIO and others

Net accumulation of snow was measured by the stake method along several traverse routes as shown in Table I-1 and Fig. A. Data at the Advance Camp (100-stake row) will be published as JARE Data Reports (Glaciology 15) in near future.

Condition of snow surface around each stake was observed and classified as follows:

E: Erosional surface consisting of sastrugi, erosional pit or smooth surface.
D: Depositional surface consisting of barchan or dune.
G: Glazed surface consisting of ice crust.
I: Bare ice./ S: Snow surface.

Surface condition which is indicated with 2 letters (for example, DE) means the mixed or intermediate one of those 2 conditions.

### 1. Route S-H-Z

The stake height of the route was measured several times in 1985, and by JARE-27 in January 1986. The height differences which give approximately the annual net accumulation along the route are tabulated in Table IV-1. The positions of the stations are given by Naruse and Yokoyama (1975).

### 2. Route IM

Route IM from Mizuho Station was extended to the Advance Camp by JARE-25 in 1984. JARE-26 made two round trips along this route in 1985-1986. All data along Route IM are shown in Table IV-2. The last column of the table give approximately the annual net accumulation for 11-12 months. The position and elevation of the stations are shown in Fujii et al. (1986).

3. Route ID

Since JARE-25 set a route from the Advance Camp to ID 43 in November 1984, net accumulation for about 1 year could be observed by JARE-26 on the way to Dome Fuji in November 1985. Results are shown in Table IV-3. The position and elevation of the stations are shown in Fujii et al.(1986).

4. Route KR

Route KR was set by JARE-24 in December 1983. Net accumulation for about 25 months (2 years including 3 summers) could be observed by JARE-26 on the way to Sør Rondane Mountains from the Advance Camp. Results are shown in Table IV-4. Since stakes could not be found at KR 2, 3, 8, 21 and 22, they are thought to be buried due to heavy snow accumulation. Heights of these stakes which were measured by JARE-24 in December 1983, are shown in parentheses for reference. The position and elevation of the stations are shown in Nakawo et al. (1984).

5. Route RY

Route RY was established by JARE-24 up to RY 185 in November 1983. Net accumulation for about 26 months (2 years including 3 summers) could be observed by JARE-26 on the way to Asuka Camp through Sør Rondane Mountains. Results are shown in Table IV-5. Data shown in parentheses at RY 150 and 151 are the stake heights measured by JARE-24, same as Route KR, such as described above. The position and elevation of the stations are shown in Nakawo et al.(1984).

6. A 100-stake row and a 36-stake farm along Route IM

A 100-stake row was set at γ1 (IM80) in October 1984 by JARE-25, and net accumulation was measured by JARE-26 on the way of two round trips from Mizuho Station to the Advance Camp. Direction of this stake row is perpendicular to the prevailing wind direction, and the distance between each stake is 5 m.

Results are shown in Table IV-6. Annual net accumulation could be calculated from these results as shown in the last column of this table.

A 36-stake farm (100m x100m in area) was set at G6 (IM 157) and measured by JARE-26 on the way of two round trips along Route IM. The stakes of this farm are distributed and numbered as same as that of Mizuho Station which is shown in Fig. 1 in the next chapter. Results are shown in Table IV-7 with totals for 11 months.

## References


Fujii, Y., Kawada, K., Yoshida, M. and Shin'ichi Matsumoto (1986): Position, elevation and ice thickness of stations. JARE Data Rep., 116 (Glaciol. 13), 5-27.

Nakawo, M., Narita, H. and Isobe, T. (1984) : Position, elevation and ice thickness of stations. JARE Data Rep., 96 (Glaciol. 11), 4-38.

Naruse, R. and Yokoyama, K. (1975) : Position, elevation and ice thickness of stations. JARE Data Rep., 28 (Glaciol. 3), 7-47.

Table IV-1. Net accumulation along Routes S-H-Z.

(cm in depth)

| Station No. | Jan.1985 -Jan.1986 (362days) | Station No. | Jan.1985 -Jan.1986 (362days) | Station No. | Jan.1985 -Jan.1986 (362days) |
|---|---|---|---|---|---|
| S16 | | H136 | 20.0 | Z 2 | 17.0 |
| 17 | 75.5 | 140 | 40.5 | 4 | -4.0 |
| 18 | 86.0 | 144 | 45.0 | 6 | 9.0 |
| 19 | 84.0 | 148 | 20.5 | 8 | 5.0 |
| 20 | 164.0 | 152 | 31.0 | 10 | 16.0 |
| 21 | 4.0 | 156 | 21.0 | 12 | 0.0 |
| 22 | 127.0 | 160 | 18.0 | 14 | 64.0 |
| 23 | 106.0 | 164 | 58.0 | 16 | -5.0 |
| 24 | 93.0 | 168 | 19.0 | 18 | 1.0 |
| 25 | 66.0 | 172 | 15.0 | 20 | 25.0 |
| 26 | 91.0 | 176 | 39.0 | 22 | 53.0 |
| 27 | 65.0 | 180 | 25.0 | 24 | -6.5 |
| 28 | 62.0 | 184 | 15.0 | 26 | 30.5 |
| 29 | 63.0 | 188 | 21.0 | 28 | 16.0 |
| 30 | 85.0 | 192 | 23.0 | 30 | -0.5 |
| H 3 | 84.0 | 196 | 71.0 | 32 | 41.5 |
| 9 | 69.0 | 200 | 11.0 | 34 | 3.0 |
| 15 | 89.0 | 204 | 26.0 | 36 | 3.0 |
| 21 | 59.0 | 208 | 15.0 | 38 | -4.0 |
| 27 | 79.0 | 212 | 33.5 | 40 | -6.0 |
| 35 | 74.0 | 216 | 24.0 | 42 | 0.0 |
| 42 | 35.5 | 220 | 19.5 | 46 | 16.0 |
| 48 | 51.0 | 224 | 11.0 | 50 | 43.0 |
| 54 | 69.5 | 228 | 23.5 | 54 | 21.5 |
| 60 | 57.0 | 232 | 1.5 | 58 | 1.5 |
| 64 | 49.0 | 236 | 20.0 | 62 | 17.0 |
| 68 | 0.5 | 240 | 33.5 | 66 | 12.0 |
| 72 | 92.0 | 244 | 29.0 | 70 | -9.0 |
| 76 | 19.0 | 248 | 32.0 | 72 | 11.0 |
| 80 | 39.0 | 252 | 33.5 | 74 | -4.0 |
| 84 | 21.0 | 256 | 52.0 | 76 | 28.5 |
| 88 | 65.0 | 260 | 61.0 | 78 | 22.0 |
| 92 | 50.0 | 264 | 32.0 | 80 | -1.5 |
| 96 | 50.0 | 268 | 43.0 | 82 | 13.0 |
| 100 | 9.0 | 272 | 45.0 | 84 | 56.0 |
| 104 | 8.0 | 276 | 36.0 | 86 | 9.5 |
| 108 | 49.0 | 280 | 30.0 | 88 | 2.0 |
| 112 | 22.0 | 284 | -8.0 | 90 | 44.0 |
| 116 | 45.5 | 288 | 22.0 | 92 | 5.0 |
| 120 | 32.0 | 293 | -4.0 | 94 | 15.5 |
| 124 | 22.5 | 297 | -2.0 | 96 | 14.0 |
| 128 | 29.5 | 301 | 8.0 | 98 | 15.0 |
| 132 | 28.5 | S122 | 15.5 | 100 | 30.0 |

Table IV-2. Net accumulation along Route IM in 1984-1986.

(cm in depth)

| Station No. | Oct.12 -Nov.14 (106-85days) | | Jan.26 -Feb. 7 (45-22) | | Mar.1 -12 (199-227) | | Sep.27 -Oct.14 (109-81) | Jan.3 -14 | Jan.-Feb.'85 -Jan.'86 (353-330) |
|---|---|---|---|---|---|---|---|---|---|
| IM 1 | -16.0 | E | 2.0 | E | 7.5 | E | 3.0 | | 12.5 |
| 2 | -9.5 | E | -1.0 | E | 2.5 | E | -6.0 | | -4.5 |
| 3 | -7.5 | E | 0.0 | E | -0.5 | E | -3.5 | | -4.0 |
| 4 | -10.0 | E | 14.0 | E | 0.5 | E | 5.0 | | 19.5 |
| 5 | -4.5 | E | -0.5 | E | 0.0 | E | -3.5 | | -4.0 |
| 6 | 5.0 | E | -1.0 | E | 4.0 | E | 6.5 | | 9.5 |
| 7 | 5.5 | E | 15.5 | DE | 5.5 | E | 20.0 | | 41.0 |
| 8 | -109.5 | E | 13.0 | E | 40.0 | E | 9.0 | | 62.0 |
| 9 | 11.5 | E | -5.0 | E | 2.0 | E | 13.5 | | 10.5 |
| 10 | 12.5 | | 9.5 | E | 7.0 | E | 8.0 | | 24.5 |
| 11 | 8.0 | E | 0.0 | E | 0.0 | E | 13.0 | | 13.0 |
| 12 | -2.0 | | -0.5 | E | 57.5 | E | 3.5 | | 60.5 |
| 13 | -8.0 | DE | -3.0 | E | 17.5 | E | -1.0 | | 13.5 |
| 14 | -43.0 | DE | 13.0 | E | 31.0 | E | -1.5 | | 42.5 |
| 15 | -6.5 | E | 1.0 | E | 0.5 | E | 12.0 | | 13.5 |
| 16 | -3.0 | E | -2.5 | E | 0.5 | E | -1.5 | | -3.5 |
| 17 | -3.0 | E | -1.0 | E | 0.5 | E | -0.5 | | -1.0 |
| 18 | 7.0 | E | -18.0 | E | 0.0 | E | -1.0 | | -19.0 |
| 19 | 2.5 | E | 11.0 | DE | -1.0 | E | -2.5 | | 7.5 |
| 20 | 8.5 | E | 0.0 | E | 7.0 | E | 17.5 | | 24.5 |
| 21 | -5.0 | DE | 1.0 | E | 1.0 | E | -4.5 | | -2.5 |
| 22 | 15.0 | E | -5.5 | E | 12.5 | E | -6.0 | | 1.0 |
| 23 | -117.0 | E | -1.0 | E | 7.0 | E | 8.0 | | 14.0 |
| 24 | 1.0 | E | -2.0 | E | 61.0 | E | 11.0 | | 70.0 |
| 25 | -3.0 | E | 1.0 | E | 8.5 | E | -4.0 | | 5.5 |
| 26 | -105.5 | E | 12.0 | E | 20.0 | E | 31.0 | | 63.0 |
| 27 | -4.5 | E | -0.5 | E | 9.0 | E | 3.5 | | 12.0 |
| 28 | -4.0 | E | 0.5 | E | | | | | |
| 29 | -5.0 | E | 0.5 | E | 0.5 | E | 18.0 | | 19.0 |
| 30 | -1.5 | E | 9.0 | E | 18.0 | E | -13.0 | | 14.0 |
| 31 | -3.0 | E | 0.0 | E | 0.5 | E | 17.5 | | 18.0 |
| 32 | -5.5 | DE | 13.0 | DE | 23.5 | E | 2.0 | | 38.5 |
| 33 | 5.0 | DE | -2.0 | E | 0.0 | E | 4.0 | | 2.0 |
| 34 | 5.5 | E | 35.0 | DE | -3.5 | DE | 4.0 | | 35.5 |
| 35 | -5.0 | E | -1.0 | E | 1.0 | E | -1.0 | | -1.0 |
| 36 | -3.0 | E | -0.5 | E | 9.0 | E | 2.5 | | 11.0 |
| 37 | -5.0 | E | 0.0 | E | 1.5 | E | -3.5 | | -2.0 |
| 38 | -1.5 | DE | -1.0 | E | 29.5 | D | 0.0 | | 28.5 |
| 39 | -8.0 | E | 17.0 | E | 38.0 | D | 31.5 | | 86.5 |
| 40 | 11.5 | E | 11.0 | E | 98.0 | DE | 10.0 | | 119.0 |
| 41 | -7.0 | E | -0.5 | E | 53.5 | DE | 28.0 | | 81.0 |
| 42 | -8.5 | E | 1.5 | E | 6.5 | E | 24.5 | | 32.5 |

(cm in depth)

| Station No. | Oct.12 -Nov.14 (106-85days) | | Jan.26 -Feb. 7 (45-22) | | Mar.1 -12 (199-227) | | Sep.27 -Oct.14 (109-81) | | Jan.3 -14 | Jan.-Feb.'85 -Jan.'86 (353-330) |
|---|---|---|---|---|---|---|---|---|---|---|
| IM 43 | -5.0 | E | 2.0 | E | 0.0 | E | 6.0 | | | 8.0 |
| 44 | 4.0 | E | 13.5 | D | 21.0 | E | -4.5 | | | 30.0 |
| 45 | 2.0 | E | 14.5 | D | 44.5 | E | 10.5 | | | 69.5 |
| 46 | 9.5 | E | 7.5 | E | 52.0 | E | 8.0 | | | 67.5 |
| 47 | 10.5 | E | -0.5 | E | 74.5 | E | -13.0 | | | 61.0 |
| 48 | 23.5 | E | 20.0 | E | 17.5 | E | 5.0 | | | 42.5 |
| 49 | 1.0 | E | 10.0 | E | 0.0 | E | -2.5 | | | 7.5 |
| 50 | 5.0 | E | 5.5 | E | 21.5 | E | 2.0 | | | 29.0 |
| 51 | 25.5 | E | -1.5 | E | 16.0 | E | 11.0 | | | 25.5 |
| 52 | -8.0 | E | 0.0 | E | 16.0 | E | -5.0 | | | 11.0 |
| 53 | -5.0 | E | 22.5 | DE | -0.5 | E | 16.0 | | | 38.0 |
| 54 | -12.0 | E | 0.0 | E | 1.0 | E | 39.0 | | | 40.0 |
| 55 | 8.5 | E | -2.0 | E | 22.0 | E | 6.0 | | | 26.0 |
| 56 | -8.5 | | -0.5 | E | 1.0 | E | 16.5 | | | 17.0 |
| 57 | -1.0 | DE | 6.5 | DE | 31.0 | E | -0.5 | | | 37.0 |
| 58 | -3.5 | E | 4.0 | E | 47.5 | D | 22.5 | | | 74.0 |
| 59 | 14.0 | E | -1.5 | E | 30.5 | DE | -16.5 | | | 12.5 |
| 60 | 7.0 | E | -0.5 | E | 28.0 | E | 0.5 | | | 28.0 |
| 61 | -7.5 | DE | -0.5 | E | 18.0 | E | 17.0 | | | 34.5 |
| 62 | 8.0 | E | -0.5 | E | 27.5 | E | 5.5 | | | 32.5 |
| 63 | -2.5 | E | 0.5 | E | 61.5 | DE | -7.5 | | | 54.5 |
| 64 | -2.0 | E | -1.5 | E | 1.5 | E | -3.0 | | | -3.0 |
| 65 | -3.0 | E | 2.5 | E | 0.5 | E | 29.5 | | | 32.5 |
| 66 | -4.0 | E | -0.5 | E | 8.5 | E | 60.5 | | | 68.5 |
| 67 | 4.0 | E | 6.5 | E | 25.0 | E | 23.0 | | | 54.5 |
| 68 | -5.0 | E | 2.0 | DE | 28.5 | DE | 22.5 | | | 53.0 |
| 69 | 27.0 | E | -1.0 | E | 3.0 | E | 7.0 | | | 9.0 |
| 70 | -2.0 | E | 16.5 | DE | 24.5 | E | 15.0 | | | 56.0 |
| 71 | -6.0 | E | 13.0 | E | 5.0 | E | 20.0 | | | 38.0 |
| 72 | 1.0 | E | 1.0 | E | 25.5 | E | 10.5 | | | 37.0 |
| 73 | 8.5 | E | 0.5 | E | 39.5 | E | -0.5 | | | 39.5 |
| 74 | -3.5 | E | 2.0 | E | 54.5 | D | -27.0 | | | 29.5 |
| 75 | -4.0 | E | -0.5 | E | 0.5 | E | 7.5 | | | 7.5 |
| 76 | 9.0 | E | -0.5 | E | 29.5 | E | 4.0 | | | 33.0 |
| 77 | -5.0 | E | 5.0 | E | 0.0 | E | 47.5 | | | 52.5 |
| 78 | -5.0 | E | 1.0 | E | 17.0 | E | 24.5 | | | 42.5 |
| 79 | -5.0 | G | 1.0 | G | 1.0 | E | -1.0 | | | 1.0 |
| 80 | -1.0 | G | 0.0 | E | 0.5 | G | 30.0 | | | 30.5 |
| 81 | -1.0 | G | -1.0 | E | -1.0 | G | 17.0 | | | 15.0 |
| 82 | -2.0 | G | -2.5 | E | 0.5 | G | 16.0 | | | 14.0 |
| 83 | -4.0 | E | 0.5 | E | -0.5 | G | -1.0 | | | -1.0 |
| 84 | -2.5 | E | -0.5 | EG | 0.0 | G | 28.5 | | | 28.0 |

(cm in depth)

| Station No. | Oct.12 -Nov.14 (106-85days) | | Jan.26 -Feb. 7 (45-22) | | Mar.1 -12 (199-227) | | Sep.27 -Oct.14 (109-81) | | Jan.3 -14 | Jan.-Feb.'85 -Jan.'86 (353-330) |
|---|---|---|---|---|---|---|---|---|---|---|
| IM 85 | 8.0 | DE | -0.5 | E | 0.5 | G | 17.0 | | | 17.0 |
| 86 | -3.0 | E | -0.5 | E | 0.0 | G | 73.0 | | | 72.5 |
| 87 | 2.5 | E | -0.5 | E | 0.0 | G | 10.5 | | | 10.0 |
| 88 | -1.0 | E | -1.0 | E | 0.0 | G | 4.0 | | | 3.0 |
| 89 | 19.0 | E | 35.0 | D | -9.5 | E | 17.5 | | | 43.0 |
| 90 | -2.5 | E | 1.0 | E | 4.5 | E | 30.0 | | | 35.5 |
| 91 | -3.0 | E | -0.5 | E | 0.5 | E | 17.0 | | | 17.0 |
| 92 | 0.5 | E | -0.5 | E | 1.0 | G | 15.0 | | | 15.5 |
| 93 | -3.5 | E | 11.5 | DE | -12.5 | G | 21.0 | | | 20.0 |
| 94 | 4.5 | DE | 11.5 | DE | -11.5 | E | 11.0 | | | 11.0 |
| 95 | 0.0 | E | -2.0 | E | 29.0 | D | -9.0 | | | 18.0 |
| 96 | -5.0 | DE | 6.0 | DE | 12.0 | E | 5.0 | | | 23.0 |
| 97 | 2.0 | E | -1.0 | EG | 6.5 | D | 9.0 | | | 14.5 |
| 98 | 19.5 | E | -1.5 | E | 32.0 | E | 1.5 | | | 32.0 |
| 99 | 14.0 | E | 7.0 | DE | 30.0 | D | -14.0 | | | 23.0 |
| 100 | -1.5 | E | 24.5 | DE | | | | | | |
| 101 | 12.0 | E | 15.0 | DE | 46.5 | E | 9.5 | | | 71.0 |
| 102 | -4.5 | E | 0.5 | DE | 57.0 | E | 16.0 | | | 73.5 |
| 103 | -2.0 | E | 27.5 | DE | 53.5 | E | -4.5 | | | 76.5 |
| 104 | 2.0 | E | 0.0 | E | 27.5 | E | 31.0 | | | 58.5 |
| 105 | -3.0 | E | 0.0 | EG | 30.0 | D | -4.0 | | | 26.0 |
| 106 | 5.0 | E | -2.0 | EG | 5.0 | E | 0.0 | | | 3.0 |
| 107 | 21.0 | D | 1.0 | E | 17.0 | DE | 6.0 | | | 24.0 |
| 108 | 2.0 | DE | 10.0 | E | 15.0 | E | -1.0 | | | 24.0 |
| 109 | -3.0 | E | 7.5 | DE | 49.5 | E | 17.0 | | | 74.0 |
| 110 | -3.0 | E | -2.0 | E | 26.0 | E | 13.0 | | | 37.0 |
| 111 | 7.0 | E | 0.0 | E | 0.0 | E | -2.0 | | | -2.0 |
| 112 | -0.5 | E | -0.5 | E | 57.0 | E | 18.0 | | | 74.5 |
| 113 | 27.0 | E | -0.5 | E | 4.5 | E | 13.5 | | | 17.5 |
| 114 | -4.0 | E | -1.0 | E | 43.0 | E | 10.0 | | | 52.0 |
| 115 | -0.5 | E | -0.5 | E | 21.5 | E | -1.5 | | | 19.5 |
| 116 | -7.0 | E | -2.0 | EG | 21.0 | D | 28.0 | | | 47.0 |
| 117 | 1.0 | E | 0.0 | EG | 30.0 | DE | -5.0 | | | 25.0 |
| 118 | -2.0 | E | 10.0 | E | 2.5 | DE | 2.0 | | | 14.5 |
| 119 | -4.0 | E | 1.0 | E | 10.0 | E | -1.0 | | | 10.0 |
| 120 | -4.0 | E | 7.0 | E | 36.5 | E | 3.5 | | | 47.0 |
| 121 | 3.5 | E | 20.0 | E | 50.0 | E | -1.5 | | | 68.5 |
| 122 | 1.0 | E | 1.5 | E | 24.0 | E | 19.5 | | | 45.0 |
| 123 | 0.5 | E | 0.0 | E | 28.5 | E | -3.0 | | | 25.5 |
| 124 | 15.5 | DE | 1.5 | E | 6.5 | E | 38.0 | | | 46.0 |
| 125 | -2.0 | E | -1.5 | E | 0.5 | E | 7.5 | | | 6.5 |
| 126 | -2.0 | E | 9.5 | D | 49.0 | | -1.5 | | | 57.0 |

(cm in depth)

| Station No. | Oct.12 -Nov.14 (106-85days) | | Jan.26 -Feb. 7 (45-22) | | Mar.1 -12 (199-227) | | Sep.27 -Oct.14 (109-81) | | Jan.3 -14 | Jan.-Feb.'85 -Jan.'86 (353-330) |
|---|---|---|---|---|---|---|---|---|---|---|
| IM127 | -2.0 | G | 0.0 | E | 0.5 | G | -4.5 | | | -4.0 |
| 128 | -2.5 | G | -1.0 | E | 0.5 | G | -2.0 | | | -2.5 |
| 129 | -6.0 | E | 26.0 | E | 9.0 | E | -1.5 | | | 33.5 |
| 130 | 13.0 | E | 19.0 | E | 8.5 | E | 8.5 | | | 36.0 |
| 131 | -3.0 | E | -0.5 | E | 26.5 | E | 17.5 | | | 43.5 |
| 132 | 24.0 | E | -0.5 | E | 0.5 | E | -1.5 | | | -1.5 |
| 133 | -6.0 | E | 39.5 | DE | -19.0 | E | 12.5 | | | 33.0 |
| 134 | -2.5 | E | -0.5 | E | 0.5 | E | -3.0 | | | -3.0 |
| 135 | -1.0 | E | 0.0 | E | 0.0 | G | -1.5 | | | -1.5 |
| 136 | -3.0 | E | 0.5 | E | 28.0 | E | -3.0 | | | 25.5 |
| 137 | 14.0 | D | 15.0 | D | -16.0 | E | -1.5 | | | -2.5 |
| 138 | 0.0 | E | 15.0 | E | 23.0 | E | -2.0 | | | 36.0 |
| 139 | -7.0 | DE | 30.0 | D | 0.0 | E | 11.0 | | | 41.0 |
| 140 | -2.0 | E | 0.0 | E | 66.5 | E | -3.5 | | | 63.0 |
| 141 | -4.5 | E | 0.0 | E | 29.5 | DE | 0.5 | | | 30.0 |
| 142 | -4.0 | E | 0.0 | E | 26.5 | DE | -3.5 | | | 23.0 |
| 143 | 17.5 | DE | 0.0 | E | 27.5 | E | 0.0 | | | 27.5 |
| 144 | -2.5 | E | -0.5 | E | 29.5 | E | 10.5 | | | 39.5 |
| 145 | -7.5 | E | -0.5 | E | 63.5 | D | -6.5 | | | 56.5 |
| 146 | -9.0 | E | 36.0 | D | 30.0 | DE | -25.0 | | | 41.0 |
| 147 | -11.0 | E | -1.0 | E | 8.0 | G | -2.0 | | | 5.0 |
| 148 | -2.0 | E | -2.0 | E | 2.0 | G | 9.5 | | | 9.5 |
| 149 | 0.0 | E | -1.0 | E | 32.0 | E | -3.5 | | | 27.5 |
| 150 | -4.0 | E | 1.0 | E | 34.5 | DE | 9.5 | | | 45.0 |
| 151 | -7.5 | E | -1.0 | E | 7.0 | E | 16.0 | | | 22.0 |
| 152 | 7.5 | DE | -2.5 | E | 36.5 | E | 16.5 | | | 50.5 |
| 153 | -1.0 | E | -0.5 | E | 2.0 | E | -3.5 | | | -2.0 |
| 154 | 7.5 | DE | -0.5 | E | 8.0 | E | -2.0 | | | 5.5 |
| 155 | -3.0 | E | 11.0 | D | -5.0 | E | 0.0 | | | 6.0 |
| 156 | -5.0 | E | -1.0 | E | 0.5 | G | 3.0 | | | 2.5 |
| 157 | 3.0 | DE | -0.5 | E | 2.0 | E | 7.0 | | | 8.5 |
| 158 | -3.5 | E | 1.0 | E | 7.5 | G | -1.0 | | | 7.5 |
| 159 | -3.5 | E | 1.5 | E | 37.0 | E | -1.0 | | | 37.5 |
| 160 | -6.0 | E | 2.0 | E | 0.0 | E | -2.5 | | | -0.5 |
| 161 | -4.5 | E | 0.5 | E | 17.5 | DE | -10.0 | | | 8.0 |
| 162 | -2.0 | E | -0.5 | E | -0.5 | G | -2.5 | | | -3.5 |
| 163 | -1.0 | E | -0.5 | E | 15.5 | E | 14.5 | | | 29.5 |
| 164 | -2.5 | E | 0.5 | E | 1.0 | E | -3.0 | | | -1.5 |
| 165 | -2.0 | E | 0.0 | E | 39.0 | E | -9.5 | | | 29.5 |
| 166 | -2.5 | E | 0.5 | E | 15.5 | E | 26.5 | | | 42.5 |
| 167 | -3.0 | E | 1.0 | E | 23.0 | E | 12.0 | | | 36.0 |
| 168 | -3.0 | E | 13.0 | DE | 56.5 | DE | 23.5 | | | 93.0 |

(cm in depth)

| Station No. | Oct.12 -Nov.14 (106-85days) | | Jan.26 -Feb. 7 (45-22) | | Mar.1 -12 (199-227) | | Sep.27 -Oct.14 (109-81) | | Jan.3 -14 | Jan.-Feb.'85 -Jan.'86 (353-330) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1M169 | -2.5 | E | -0.5 | EG | 6.0 | E | 3.0 | | | 8.5 |
| 170 | -3.0 | E | 1.0 | EG | 22.0 | E | -11.0 | | | 12.0 |
| 171 | -2.0 | E | 0.0 | E | 47.0 | G | 10.0 | | | 57.0 |
| 172 | 5.0 | E | 11.0 | D | 5.0 | G | 14.0 | | | 30.0 |
| 173 | 0.0 | DE | 11.0 | E | 10.0 | E | 6.5 | | | 27.5 |
| 174 | -4.0 | E | 34.0 | D | 5.0 | E | 13.0 | | | 52.0 |
| 175 | -3.0 | E | 3.0 | D | 17.5 | D | 10.5 | | | 31.0 |
| 176 | -19.5 | E | -1.5 | E | 47.0 | E | 10.0 | | | 55.5 |
| 177 | -1.0 | E | 7.5 | D | -7.5 | G | -1.0 | | | -1.0 |
| 178 | 5.0 | DE | 0.0 | E | 20.0 | E | 3.0 | | | 23.0 |
| 179 | -2.5 | E | 0.0 | E | 0.5 | E | -2.0 | | | -1.5 |
| 180 | 2.0 | E | -0.5 | E | 12.5 | E | 0.0 | | | 12.0 |
| 181 | 1.0 | E | 14.0 | E | 18.0 | E | -5.0 | | | 27.0 |
| 182 | -3.0 | E | 1.0 | DE | -2.0 | G | -2.0 | | | -3.0 |
| 183 | -0.5 | DE | 10.5 | E | 29.0 | DE | -4.5 | | | 35.0 |
| 184 | 8.5 | E | -0.5 | E | 7.5 | | -1.0 | | | 6.0 |
| 185 | -2.5 | E | 0.0 | E | -0.5 | E | 22.0 | | | 21.5 |
| 186 | -1.5 | E | 0.0 | E | -0.5 | G | 11.0 | | | 10.5 |
| 187 | -2.0 | E | 0.0 | E | 15.0 | E | -3.0 | | | 12.0 |
| 188 | 9.0 | E | -0.5 | E | 13.5 | E | 14.0 | | | 27.0 |
| 189 | 9.5 | DE | -0.5 | E | 18.5 | E | -1.5 | | | 16.5 |
| 190 | -4.5 | E | | | | E | 8.5 | | | |
| 191 | -1.0 | E | 0.0 | G | 1.0 | E | -2.0 | | | -1.0 |
| 192 | -2.0 | G | 10.0 | D | 4.0 | E | 7.0 | | | 21.0 |
| 193 | 3.0 | DE | 0.0 | E | 3.5 | E | -0.5 | | | 3.0 |
| 194 | -2.0 | G | 4.0 | D | -3.5 | G | -0.5 | | | 0.0 |
| 195 | -2.0 | E | 0.0 | E | 0.5 | G | 3.5 | | | 4.0 |
| 196 | -2.0 | E | 0.0 | EG | -0.5 | G | -0.5 | | | -1.0 |
| 197 | -2.5 | E | 0.0 | E | 0.5 | G | -2.0 | | | -1.5 |
| 198 | -3.0 | E | 3.0 | E | -3.0 | G | -1.5 | | | -1.5 |
| 199 | -3.0 | G | 0.5 | G | -0.5 | G | 0.0 | | | 0.0 |
| 200 | -1.0 | G | -0.5 | E | -0.5 | G | 0.0 | | | -1.0 |
| 201 | -3.0 | E | 24.0 | D | -23.5 | E | -1.5 | | | -1.0 |
| 202 | -6.0 | E | 4.0 | E | | | | | | |
| 203 | -2.0 | E | 0.5 | E | 0.5 | E | 9.0 | | | 10.0 |
| 204 | 3.5 | DE | 18.5 | DE | -18.0 | G | -1.0 | | | -0.5 |
| 205 | 7.5 | E | -1.0 | E | 2.5 | E | 22.0 | | | 23.5 |
| 206 | -3.0 | E | 2.0 | E | 33.5 | E | -4.0 | | | 31.5 |
| 207 | -3.0 | E | 0.0 | E | 1.0 | G | -1.5 | | | -0.5 |
| 208 | 5.5 | E | 1.5 | E | 10.0 | E | -1.0 | | | 10.5 |
| 209 | 6.0 | D | 3.5 | E | -1.5 | E | 9.0 | | | 11.0 |
| 210 | -1.0 | E | -0.5 | G | 11.5 | E | 17.5 | | | 28.5 |

(cm in depth)

| Station No. | Oct.12 -Nov.14 (106-85days) | | Jan.26 -Feb. 7 (45-22) | | Mar.1 -12 (199-227) | | Sep.27 -Oct.14 (109-81) | | Jan.3 -14 | Jan.-Feb.'85 -Jan.'86 (353-330) |
|---|---|---|---|---|---|---|---|---|---|---|
| IM211 | 10.0 | DE | 5.0 | E | 14.0 | E | -2.0 | | | 17.0 |
| 212 | 6.0 | E | 0.5 | E | 36.5 | E | -5.0 | | | 32.0 |
| 213 | 3.5 | E | -1.5 | E | 34.5 | D | -17.5 | | | 15.5 |
| 214 | -1.0 | E | 15.5 | D | -3.5 | E | -1.0 | | | 11.0 |
| 215 | -1.0 | E | 7.0 | E | 26.0 | E | -3.0 | | | 30.0 |
| 216 | -3.5 | E | 0.0 | E | 0.0 | G | 0.0 | | | 0.0 |
| 217 | 11.5 | E | 6.5 | E | 6.0 | E | 14.5 | | | 27.0 |
| 218 | -8.0 | E | 0.0 | EG | 44.0 | E | -4.0 | | | 40.0 |
| 219 | -2.0 | E | -1.0 | E | 23.0 | E | -4.0 | | | 18.0 |
| 220 | -1.0 | E | -0.5 | E | -0.5 | EG | -1.0 | | | -2.0 |
| 221 | -1.5 | E | -0.5 | E | 67.0 | DE | -17.0 | | | 49.5 |
| 222 | -0.5 | E | 8.5 | D | 12.0 | E | 4.0 | | | 24.5 |
| 223 | 1.5 | E | 6.5 | DE | 31.5 | E | -7.0 | | | 31.0 |
| 224 | 9.0 | E | 2.0 | E | 20.0 | E | -2.0 | | | 20.0 |
| 225 | -2.0 | DE | 11.5 | DE | 27.5 | E | 12.0 | | | 51.0 |
| 226 | -3.0 | E | 2.5 | E | -1.5 | G | -2.0 | | | -1.0 |
| 227 | 6.0 | E | 1.5 | E | -1.5 | G | 23.5 | | | 23.5 |
| 228 | -12.5 | E | 10.5 | G | -0.5 | E | -0.5 | | | 9.5 |
| 229 | -2.5 | E | 1.5 | G | 23.0 | E | 38.0 | | | 62.5 |
| 230 | -4.0 | E | 15.0 | D | 12.0 | D | -5.0 | | | 22.0 |
| 231 | -3.5 | E | 0.0 | EG | 0.5 | E | 10.0 | | | 10.5 |
| 232 | 1.5 | E | 0.5 | E | 28.0 | D | -11.5 | | | 17.0 |
| 233 | 9.0 | E | -1.0 | E | 7.0 | E | -6.0 | | | 0.0 |
| 234 | -2.5 | E | 0.5 | EG | 26.0 | E | 3.0 | | | 29.5 |
| 235 | 4.0 | DE | 0.0 | E | 1.0 | E | 4.0 | | | 5.0 |
| 236 | 1.5 | E | 34.0 | D | 7.0 | E | 1.5 | | | 42.5 |
| 237 | 2.0 | E | -4.0 | E | 27.5 | E | -4.5 | | | 19.0 |
| 238 | 1.5 | E | 15.5 | DE | 31.0 | E | -3.0 | | | 43.5 |
| 239 | -2.5 | E | 0.0 | EG | 0.5 | G | 9.0 | | | 9.5 |
| 240 | 4.0 | E | 3.5 | E | -3.5 | E | 6.0 | | | 6.0 |
| 241 | 29.5 | E | 0.0 | G | 5.5 | E | 19.0 | | | 24.5 |
| 242 | 1.0 | E | 0.5 | DE | 43.0 | E | -2.5 | | | 41.0 |
| 243 | 16.5 | E | 0.5 | E | 35.0 | D | -3.0 | | | 32.5 |
| 244 | 4.0 | E | -1.0 | G | 12.0 | E | 3.0 | | | 14.0 |
| 245 | -1.0 | E | 11.0 | DE | -4.0 | E | 19.0 | | | 26.0 |
| 246 | -0.5 | E | 8.0 | E | 39.5 | E | -9.0 | | | 38.5 |
| 247 | 5.0 | E | 2.0 | D | 52.0 | E | -9.0 | | | 45.0 |
| 248 | -2.5 | E | 4.5 | D | 20.0 | E | 5.0 | | | 29.5 |
| 249 | 6.0 | E | 6.0 | DE | 20.0 | E | 49.0 | | | 75.0 |
| 250 | -2.0 | E | 7.5 | E | 16.5 | E | -2.0 | | | 22.0 |
| 251 | 4.0 | E | 11.0 | E | -2.0 | E | -2.5 | | | 6.5 |
| 252 | | E | 0.5 | E | 1.5 | E | -5.0 | | | 17.0 |

Table IV-3. Net accumulation along Route ID.

(cm in depth)

| Station No. | Nov.1984 -Nov.1985 (353days) | Surface condition (Nov.1985) |
|---|---|---|
| ID 1 | 57.5 | E |
| 2 | -3.0 | E |
| 3 | 19.5 | E |
| 4 | 28.5 | E |
| 5 | 15.0 | E |
| 6 | 26.5 | E |
| 7 | 45.0 | E |
| 8 | 35.0 | E |
| 9 | 31.0 | E |
| 10 | 25.0 | E |
| 11 | 46.0 | DE |
| 12 | 12.5 | E |
| 13 | 6.0 | G |
| 14 | -0.5 | E |
| 15 | | |
| 16 | -2.5 | G |
| 17 | -2.0 | G |
| 18 | 5.0 | G |
| 19 | 16.0 | E |
| 20 | 2.0 | E |
| 21 | 0.0 | G |
| 22 | 5.0 | E |

(cm in depth)

| Station No. | Nov.1984 -Nov.1985 (353days) | Surface condition (Nov.1985) |
|---|---|---|
| ID23 | 13.0 | E |
| 24 | 11.5 | E |
| 25 | -2.5 | E |
| 26 | 9.0 | E |
| 27 | 0.5 | E |
| 28 | 39.5 | E |
| 29 | 16.0 | E |
| 30 | 1.0 | G |
| 31 | 10.5 | E |
| 32 | 3.0 | E |
| 33 | 27.0 | E |
| 34 | -4.0 | G |
| 35 | 11.5 | G |
| 36 | 2.0 | G |
| 37 | 8.0 | E |
| 38 | - | E |
| 39 | 26.0 | E |
| 40 | 7.5 | E |
| 41 | - | E |
| 42 | 19.5 | E |
| 43 | 33.0 | E |

Table IV-4. Net accumulation along Route KR.

(cm in depth)

| Station No. | Dec.1983 -Jan.1986 (769-762days) | Surface condition (Jan.1986) |
|---|---|---|
| KR 1 | 104.5 | E |
| 2 | (189) | E |
| 3 | (176) | E |
| 4 | 57.4 | E |
| 5 | 20.0 | E |
| 6 | 77.8 | E |
| 7 | 78.1 | E |
| 8 | (176) | E |
| 9 | 8.5 | E |
| 10 | -9.8 | E |
| 11 | -2.2 | E |
| 12 | 78.8 | E |
| 13 | 38.8 | E |
| 14 | 28.9 | E |
| 15 | 122.1 | E |
| 16 | 128.4 | E |
| 17 | 92.1 | E |
| 18 | 130.4 | E |
| 19 | 123.6 | E |
| 20 | 170.4 | E |
| 21 | (170) | E |
| 22 | (185) | E |
| 23 | 98.0 | E |
| 24 | 61.3 | E |
| 25 | 60.1 | E |
| 26 | -6.7 | G |
| 27 | 55.2 | E |
| 28 | 0.6 | E |
| 29 | 9.3 | E |
| 30 | -6.9 | G |
| 31 | 16.0 | E |
| 32 | -7.9 | G |
| 33 | 66.3 | E |
| 34 | 26.2 | E |
| 35 | -2.2 | G |
| 36 | 150.8 | E |
| 37 | 57.5 | E |
| 38 | 29.5 | |
| 39 | 67.3 | E |
| 40 | 67.2 | E |

(cm in depth)

| Station No. | Dec.1983 -Jan.1986 (769-762days) | Surface condition (Jan.1986) |
|---|---|---|
| KR41 | 19.9 | E |
| 42 | -0.4 | E |
| 43 | 6.2 | E |
| 44 | | |
| 45 | 4.6 | E |
| 46 | -15.3 | E |
| 47 | -0.4 | E |
| 48 | 77.8 | E |
| 49 | 79.0 | E |
| 50 | 115.7 | E |
| 51 | -3.9 | E |
| 52 | -5.9 | G |
| 53 | 3.2 | E |
| 54 | -0.5 | E |
| 55 | 26.4 | E |
| 56 | 74.7 | E |
| 57 | 138.5 | E |
| 58 | 31.7 | E |
| 59 | 21.3 | E |
| 60 | 35.7 | E |
| 61 | -7.1 | G |
| 62 | -6.1 | E |
| 63 | -7.2 | G |
| 64 | 13.2 | E |
| 65 | 6.8 | E |
| 66 | -7.5 | G |
| 67 | -8.1 | G |
| 68 | 22.0 | E |
| 69 | 96.3 | E |
| 70 | 26.6 | E |
| 71 | 42.5 | E |
| 72 | 17.8 | E |
| 73 | 55.2 | E |
| 74 | 65.4 | E |
| 75 | 96.9 | E |

Table IV-5. Net accumulation along Route RY.

(cm in depth)

| Station No. | Nov.1983 -Jan.1986 (792-784days) | Surface condition (Jan.1986) |
|---|---|---|
| RY135 | 117.7 | E |
| 6 | 113.8 | E |
| 7 | 34.2 | E |
| 8 | 60.3 | E |
| 9 | 26.3 | E |
| 140 | 32.5 | E |
| 1 | 46.3 | E |
| 2 | 98.0 | E |
| 3 | 94.9 | E |
| 4 | 17.1 | E |
| 5 | 9.3 | E |
| 6 | -0.3 | E |
| 7 | 19.2 | E |
| 8 | 3.4 | E |
| 9 | 102.0 | E |
| 150 | (186) | E |
| 1 | (189) | E |
| 2 | 74.7 | E |
| 3 | 55.8 | E |
| 4 | 26.5 | E |
| 5 | 23.0 | E |
| 6 | 2.7 | E |
| 7 | 3.8 | E |
| 8 | 16.5 | E |
| 9 | 0.4 | E |
| 160 | 62.3 | E |

(cm in depth)

| Station No. | Nov.1983 -Jan.1986 (792-784days) | Surface condition (Jan.1986) |
|---|---|---|
| RY161 | -2.1 | E |
| 2 | 8.2 | E |
| 3 | -1.9 | E |
| 4 | -7.2 | E |
| 5 | -12.9 | SI |
| 6 | -1.9 | SI |
| 7 | -24.3 | I |
| 8 | -28.6 | I |
| 9 | -11.9 | SI |
| 170 | -24.1 | I |
| 1 | -20.4 | I |
| 2 | -24.3 | I |
| 3 | -26.2 | I |
| 4 | -23.4 | I |
| 5 | -28.0 | I |
| 6 | -29.6 | I |
| 7 | -32.4 | I |
| 8 | -26.3 | I |
| 9 | -30.6 | I |
| 180 | -38.5 | I |
| 1 | -31.8 | I |
| 2 | -35.9 | I |
| 3 | | |
| 4 | -50.7 | I |
| 5 | -49.0 | I |

Table IV-6. Net accumulation with a 100-stake row at $\gamma$1 (Route IM) in 1984-1986.

(cm in depth)

| No. | Oct.27 (95days) | | Jan.30 (38) | | Mar.9 (210) | | Oct.5 (99) | | Jan.12 | Jan.30 '85 -Jan.12 '86 (347) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | -5.0 | DE | 0.0 | G | 0.0 | G | 4.5 | | | 4.5 |
| 2 | -3.0 | DE | -1.0 | G | 1.0 | G | -1.5 | | | -1.5 |
| 3 | 5.0 | DE | 0.0 | EG | -1.0 | E | 11.0 | | | 10.0 |
| 4 | -2.0 | G | 0.0 | G | -1.0 | G | 13.0 | | | 12.0 |
| 5 | -1.5 | G | -1.5 | G | 0.0 | G | -1.5 | | | -3.0 |
| 6 | 2.5 | DE | -0.5 | EG | 0.0 | E | -5.0 | EG | | -5.5 |
| 7 | 3.5 | DE | -0.5 | EG | 0.0 | E | -2.5 | | | -3.0 |
| 8 | -2.0 | G | -2.0 | G | -0.5 | G | 7.0 | | | 4.5 |
| 9 | -1.0 | G | -2.0 | G | 0.0 | G | 16.5 | | | 14.5 |
| 10 | 2.5 | DE | -0.5 | EG | -1.0 | E | 46.0 | | | 44.5 |
| 11 | -1.0 | DE | -1.0 | G | 0.0 | G | 19.5 | | | 18.5 |
| 12 | -3.5 | G | -0.5 | G | -1.0 | G | 0.0 | | | -1.5 |
| 13 | -2.0 | G | 0.0 | G | -0.5 | G | 6.5 | | | 6.0 |
| 14 | -1.5 | G | 0.5 | EG | -1.0 | G | 13.0 | | | 12.5 |
| 15 | -1.0 | G | 0.0 | EG | -1.0 | G | 9.0 | | | 8.0 |
| 16 | -2.0 | G | -1.5 | EG | -0.5 | G | -1.0 | G | | -3.0 |
| 17 | -2.5 | G | 0.5 | G | 0.0 | G | -2.0 | G | | -1.5 |
| 18 | -1.0 | G | -2.0 | G | 0.5 | G | -2.0 | G | | -3.5 |
| 19 | -3.5 | G | -0.5 | G | 1.0 | G | -3.5 | G | | -3.0 |
| 20 | -1.0 | G | -2.0 | G | 1.0 | G | -2.0 | | | -3.0 |
| 21 | -2.0 | G | -1.0 | G | 1.0 | G | -1.0 | G | | -1.0 |
| 22 | -3.0 | G | 0.0 | G | 0.0 | G | 3.0 | | | 3.0 |
| 23 | -2.0 | G | 1.0 | G | -1.0 | G | -1.0 | | | -1.0 |
| 24 | 0.5 | DE | -0.5 | EG | 0.0 | G | 8.0 | G | | 7.5 |
| 25 | -3.5 | G | 0.5 | G | 0.0 | G | -3.5 | G | | -3.0 |
| 26 | -1.0 | DE | -1.0 | G | 0.0 | E | -2.0 | G | | -3.0 |
| 27 | -3.5 | G | -1.0 | G | 0.5 | G | 25.0 | EG | | 24.5 |
| 28 | -2.0 | G | -0.5 | G | 0.5 | G | 33.5 | | | 33.5 |
| 29 | -4.0 | G | 0.0 | G | -1.0 | G | 21.0 | | | 20.0 |
| 30 | -1.5 | G | -1.5 | G | 0.0 | G | 13.5 | | | 12.0 |
| 31 | -4.5 | G | -0.5 | G | 0.0 | G | 6.0 | | | 5.5 |
| 32 | -2.0 | G | 0.0 | G | 3.0 | G | -5.0 | G | | -2.0 |
| 33 | -2.0 | G | -1.0 | G | 0.0 | G | 1.5 | | | 0.5 |
| 34 | -2.0 | G | -1.0 | G | -1.0 | G | -3.0 | G | | -5.0 |
| 35 | -3.0 | G | 0.0 | G | 0.0 | G | 5.5 | | | 5.5 |

(cm in depth)

| No. | Oct.27 (95days) | | Jan.30 (38) | | Mar.9 (210) | | Oct.5 (99) | | Jan.12 | Jan.30 '85 -Jan.12 '86 (347) |
|---|---|---|---|---|---|---|---|---|---|---|
| 36 | -1.0 | G | -1.0 | G | 0.5 | G | -2.5 | G | | -3.0 |
| 37 | -2.5 | G | -0.5 | G | 0.0 | G | 1.5 | | | 1.0 |
| 38 | 6.5 | DE | -1.5 | EG | 0.0 | E | -2.0 | | | -3.5 |
| 39 | -3.0 | G | -1.5 | G | 1.5 | G | 12.0 | | | 12.0 |
| 40 | -3.0 | G | 0.0 | G | -1.0 | G | 2.0 | | | 1.0 |
| 41 | -3.0 | G | -2.0 | G | 1.0 | G | 8.0 | | | 7.0 |
| 42 | -2.0 | G | -1.5 | G | 0.0 | G | -3.5 | G | | -5.0 |
| 43 | 5.5 | DE | -1.0 | EG | 0.0 | G | -2.5 | G | | -3.5 |
| 44 | -2.5 | DE | -0.5 | G | -0.5 | G | 12.0 | | | 11.0 |
| 45 | -3.0 | G | 1.0 | G | -1.0 | G | 16.0 | | | 16.0 |
| 46 | 7.0 | DE | -2.5 | EG | 0.0 | G | 8.5 | | | 6.0 |
| 47 | -2.5 | DE | -0.5 | EG | -0.5 | G | -1.0 | G | | -2.0 |
| 48 | -0.5 | G | -1.0 | EG | -0.5 | G | -0.5 | | | -2.0 |
| 49 | -3.5 | G | -1.5 | G | -1.0 | G | 8.0 | | | 5.5 |
| 50 | 2.0 | DE | -1.0 | EG | 0.0 | G | 0.5 | | | -0.5 |
| 51 | -2.0 | G | -1.0 | G | 0.0 | G | 3.0 | | | 2.0 |
| 52 | -2.5 | G | -0.5 | G | -1.0 | G | 13.0 | | | 11.5 |
| 53 | -2.5 | G | -0.5 | G | 0.0 | G | -4.0 | G | | -4.5 |
| 54 | -2.0 | DE | -0.5 | G | 0.5 | G | 9.0 | | | 9.0 |
| 55 | -1.5 | G | -2.0 | G | -0.5 | G | 14.5 | | | 12.0 |
| 56 | -5.5 | G | -0.5 | G | -1.0 | G | 30.0 | | | 28.5 |
| 57 | -3.0 | G | -1.0 | G | 0.0 | G | 2.0 | | | 1.0 |
| 58 | -2.0 | G | -1.0 | EG | 0.0 | G | -3.0 | G | | -4.0 |
| 59 | 3.5 | DE | 0.5 | EG | 0.0 | G | -2.0 | G | | -1.5 |
| 60 | 0.0 | G | -1.0 | G | 0.0 | G | 7.0 | | | 6.0 |
| 61 | -2.5 | G | -0.5 | G | 0.0 | G | -2.0 | G | | -2.5 |
| 62 | -3.5 | DE | -0.5 | EG | 0.0 | G | 21.5 | G | | 21.0 |
| 63 | -2.0 | G | -0.5 | G | 0.5 | G | 1.5 | | | 1.5 |
| 64 | -3.0 | G | -1.0 | G | 0.0 | G | 6.5 | | | 5.5 |
| 65 | -2.0 | G | 0.0 | G | -1.0 | G | 0.5 | | | -0.5 |
| 66 | -3.5 | G | -0.5 | G | 0.0 | G | -2.0 | G | | -2.5 |
| 67 | -2.5 | G | -2.0 | G | 1.5 | G | -3.5 | G | | -4.0 |
| 68 | -2.5 | G | -0.5 | G | -2.0 | G | -2.0 | G | | -4.5 |
| 69 | -2.0 | G | -2.0 | G | 0.0 | G | -2.5 | G | | -4.5 |
| 70 | -2.5 | G | -0.5 | G | -0.5 | G | -2.5 | G | | -3.5 |

(cm in depth)

| No. | Oct.27 (95days) | | Jan.30 (38) | | Mar.9 (210) | | Oct.5 (99) | | Jan.12 | Jan.30 '85 -Jan.12 '86 (347) |
|---|---|---|---|---|---|---|---|---|---|---|
| 71 | -3.0 | G | 0.0 | G | -1.0 | G | 1.5 | | | 0.5 |
| 72 | -1.5 | G | -0.5 | G | -0.5 | G | -2.0 | | | -3.0 |
| 73 | -2.5 | G | -2.0 | G | 0.0 | G | -2.5 | G | | -4.5 |
| 74 | -2.5 | G | -0.5 | G | 0.0 | G | 4.5 | | | 4.0 |
| 75 | -2.5 | G | 0.5 | G | 0.5 | G | -0.5 | | | 0.5 |
| 76 | -3.0 | G | -1.5 | G | 0.0 | G | -2.5 | G | | -4.0 |
| 77 | -1.5 | G | -1.5 | G | 0.0 | G | -3.0 | G | | -4.5 |
| 78 | -2.0 | G | 0.0 | G | -0.5 | G | -0.5 | G | | -1.0 |
| 79 | 2.5 | DE | -1.0 | EG | 0.0 | G | 6.0 | | | 5.0 |
| 80 | -1.5 | G | -2.0 | G | 0.5 | G | -2.5 | G | | -4.0 |
| 81 | -1.0 | DE | -1.5 | G | -0.5 | G | 1.0 | G | | -1.0 |
| 82 | -1.5 | DE | -1.5 | EG | 0.0 | G | -0.5 | | | -2.0 |
| 83 | -3.0 | G | -0.5 | G | -0.5 | G | -1.0 | G | | -2.0 |
| 84 | -3.5 | G | -0.5 | G | -1.0 | G | -2.0 | G | | -3.5 |
| 85 | -3.5 | G | -2.0 | G | 0.5 | G | -2.5 | G | | -4.0 |
| 86 | -1.0 | G | -2.0 | G | 0.0 | G | 6.0 | | | 4.0 |
| 87 | -0.5 | G | -1.0 | G | 0.0 | G | -0.5 | G | | -1.5 |
| 88 | 3.0 | DE | -0.5 | EG | -0.5 | G | 7.0 | | | 6.0 |
| 89 | 4.0 | DE | -1.0 | EG | 0.0 | G | -2.0 | | | -3.0 |
| 90 | -2.0 | G | -1.0 | G | 0.0 | G | -1.5 | EG | | -2.5 |
| 91 | -2.0 | G | -1.0 | G | 0.0 | G | -1.0 | EG | | -2.0 |
| 92 | -3.0 | G | 0.0 | G | 0.0 | G | 10.5 | | | 10.5 |
| 93 | -4.0 | G | 0.0 | G | 0.0 | G | -3.0 | G | | -3.0 |
| 94 | -2.5 | G | 0.0 | G | -0.5 | G | 8.5 | | | 8.0 |
| 95 | -2.0 | G | -2.0 | G | -1.0 | G | 3.5 | | | 0.5 |
| 96 | 0.0 | DE | -1.5 | EG | 1.0 | G | 16.0 | | | 15.5 |
| 97 | -2.5 | G | -0.5 | G | 0.0 | G | 13.5 | | | 13.0 |
| 98 | -3.0 | G | -0.5 | G | -0.5 | G | 26.0 | | | 25.0 |
| 99 | -2.5 | G | -0.5 | G | -1.0 | G | 0.0 | G | | -1.5 |
| 100 | -3.0 | G | -0.5 | G | 0.0 | G | -2.5 | G | | -3.0 |
| Mean | -1.6 | | -0.8 | | -0.1 | | 4.4 | | | 3.5 |

Table IV-7. Net accumulation with a 36-stake farm at G6 (Route IM) in 1985-1986.

(cm in depth)

| No. | Feb.3 (29days) | | Mar.4 (219) | | Oct.9 (89) | Jan.6 | Total (337) |
|---|---|---|---|---|---|---|---|
| I -1 | E | -1.0 | E | 42.0 | E | 15.5 | 56.5 |
| 2 | EG | 37.0 | D | -2.5 | E | 0.0 | 34.5 |
| 3 | EG | -14.0 | EG | 36.0 | E | 16.5 | 38.5 |
| 4 | E | -1.5 | E | 33.0 | E | 12.5 | 44.0 |
| 5 | DE | 7.5 | DE | 14.5 | E | 0.5 | 22.5 |
| 6 | E | -1.0 | E | 27.0 | D | -4.0 | 22.0 |
| II -1 | DE | -1.5 | E | 13.5 | E | 0.5 | 12.5 |
| 2 | DE | -2.5 | DE | 41.5 | D | -3.5 | 35.5 |
| 3 | DE | 27.0 | D | -1.5 | E | 20.5 | 46.0 |
| 4 | DE | -1.0 | E | 28.5 | E | 6.0 | 33.5 |
| 5 | E | 49.0 | DE | -34.0 | E | 26.5 | 41.5 |
| 6 | EG | -1.0 | EG | 7.5 | E | 8.5 | 15.0 |
| III -1 | DE | 37.0 | DE | -7.0 | E | 20.5 | 50.5 |
| 2 | DE | 3.5 | E | 23.5 | E | 6.0 | 33.0 |
| 3 | E | -1.0 | E | 24.0 | E | 1.5 | 24.5 |
| 4 | E | 32.0 | DE | -2.0 | E | 1.5 | 31.5 |
| 5 | DE | 9.0 | DE | 16.0 | E | 1.5 | 26.5 |
| 6 | DE | 11.0 | D | 4.5 | E | -1.0 | 14.5 |
| IV -1 | DE | -1.0 | E | 72.0 | E | -3.0 | 68.0 |
| 2 | DE | -0.5 | E | 61.0 | E | -1.0 | 59.5 |
| 3 | DE | 9.0 | DE | 26.0 | E | -1.5 | 33.5 |
| 4 | DE | -1.5 | E | 22.5 | E | -1.0 | 20.0 |
| 5 | E | 72.0 | DE | -20.5 | DE | -8.5 | 43.0 |
| 6 | E | 11.5 | DE | 58.5 | E | 2.0 | 72.0 |
| V -1 | E | -3.5 | E | 1.5 | E | 8.0 | 6.0 |
| 2 | E | 15.0 | D | 24.0 | E | -3.0 | 36.0 |
| 3 | E | -2.0 | E | 46.0 | DE | -4.5 | 39.5 |
| 4 | E | -1.0 | D | 52.5 | E | -6.0 | 45.5 |
| 5 | E | -1.0 | E | 26.0 | E | -3.5 | 21.5 |
| 6 | E | 0.5 | E | 21.5 | E | -1.0 | 21.0 |
| VI -1 | E | -1.0 | E | 19.0 | DE | 12.0 | 30.0 |
| 2 | E | -1.5 | E | 4.0 | D | 19.5 | 22.0 |
| 3 | E | 33.0 | DE | -28.5 | DE | -7.0 | -2.5 |
| 4 | DE | -3.0 | E | 2.0 | EG | 4.5 | 3.5 |
| 5 | E | -2.0 | E | 1.0 | EG | 11.0 | 10.0 |
| 6 | E | -1.0 | E | 30.0 | E | -1.5 | 27.5 |
| Mean | | 8.6 | | 19.0 | | 4.0 | 31.6 |

# V. Net Accumulation of Snow at Mizuho Station

Observers: Yutaka AGETA, Takashi SHIMAMOTO, Yoshitaka KATO, Fumio OKUHIRA, Tadashi MURAI, Tokio KIKUCHI, Takashi FURUDATE and Mikio NAKASHIMA.

The measurements were made once a month using a 36-stake farm and a 101-stake row. The former was installed in 1972, in which 36 bamboo stakes in a square of 100m sides were arranged in a rectangular lattice with spacings of 20 m. The farm was adopted for the routine accumulation measurements in 1985 as well. The results of the measurements are given in Table V-1. The stakes of this farm are distributed and numbered as shown in Fig. 1.

Another stake farm of 201 stakes with 1 m spacing was prepared in 1973, which basically consisted of two rows of stakes, one perpendicular and the other parallel to the direction of the prevailing wind. They crossed each other, forming an X shape as shown in Fig. 2. This stake farm also had been adopted for the accumulation measurements at Mizuho Station. However, the measurements on the stakes of the parallel row to the wind direction was determined to discontinue, and the row of 101 stakes, which was aligned perpendicular to the wind direction, was left for further measurements of snow accumulation, as explained by Nakawo et al.(1984). The results of the measurements are given in Table V-2.

Since parts of data sheets for stakes No. I-1～IV-6 of a 36-stake farm and No. 142～201 of a 101-stake row on Jan. 31 and Feb. 28 in 1985 were lost after the measurements and calculations, there are large blanks in Tables V-1 and 2. However, total and mean values for all periods and all stakes of a 36-stake farm could be obtained as seen in Table V-1. On the other hand, mean values of net accumulation with a 101-stake

row during the period from Dec. 31, 1984 to Apr. 1, 1985 were calculated from the data of stakes No. 102～141 only and shown in parentheses as seen in Table V-2. However, total values for all stakes of a 101-stake row could be calculated using the stake heights on Dec. 31, 1984 and Dec. 30, 1985.

## Reference

Nakawo, M., Narita, H. and Isobe, T. (1984) : Net accumulation of snow at Mizuho Station. JARE Data Rep., 96 (Glaciol. 11), 66-78.

Table V-1. Net accumulation with a 36-stake farm at Mizuho Station in 1985.

(cm in depth)

| No. | Dec.31 (31days) | Jan.31 (28) | Feb.28 (32) | Apr.1 (27) | | Apr.28 (34) | | June1 (27) | | June28 (31) | | July29 (30) | | Aug.28 (33) | | Sep.30 (28) | | Oct.28 (29) | | Nov.26 (34) | | Dec.30 | Total (364) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I -1 | | | | 0.0 | E | -0.3 | E | 0.8 | E | 2.5 | E | -2.9 | E | 0.2 | E | -0.6 | E | 14.2 | D | 0.1 | E | | 26.5 |
| 2 | | | | 0.2 | E | -0.2 | E | 0.2 | E | 0.4 | E | -0.3 | G | 0.5 | E | -0.3 | E | 7.3 | D | -1.8 | E | | 5.2 |
| 3 | | | | -0.2 | E | 0.0 | E | 0.2 | E | 1.4 | E | -0.2 | E | 0.1 | E | -0.7 | E | 14.5 | D | -4.7 | E | | 9.3 |
| 4 | | | | -0.2 | G | -0.3 | G | 0.5 | G | 0.2 | G | -0.2 | G | 0.2 | E | 0.0 | G | 14.6 | D | -1.6 | E | | 10.6 |
| 5 | | | | -4.6 | E | -0.4 | E | 0.3 | E | 0.2 | E | -0.2 | E | 0.1 | E | -0.1 | E | 11.7 | D | 5.6 | E | | 17.6 |
| 6 | | | | 0.5 | E | 0.1 | G | 0.0 | E | 0.4 | E | 0.0 | G | 0.0 | E | -0.3 | E | 9.9 | D | -2.0 | E | | 6.4 |
| II -1 | | | | -1.5 | E | 0.3 | E | 0.4 | E | 0.4 | E | -0.3 | E | 0.7 | E | -0.1 | E | 26.9 | D | -6.3 | E | | 20.3 |
| 2 | | | | 0.2 | E | -0.1 | E | 0.2 | E | -0.1 | E | 0.2 | G | 0.1 | E | -0.5 | E | 7.0 | D | -5.4 | D | | 5.7 |
| 3 | | | | -0.2 | G | -0.2 | E | 0.3 | G | 0.0 | G | 0.2 | G | 0.1 | E | -0.1 | G | -0.2 | G | -2.0 | G | | -4.0 |
| 4 | | | | 0.3 | G | -0.5 | G | 0.4 | G | 0.0 | G | 0.2 | G | -0.2 | E | 0.0 | G | 8.8 | D | -9.7 | E | | -4.7 |
| 5 | | | | 0.2 | E | -0.3 | E | 0.4 | E | 0.0 | E | 0.2 | E | 0.0 | E | -0.3 | E | -0.3 | E | -1.6 | E | | 1.6 |
| 6 | | | | 0.0 | G | 0.0 | E | 0.3 | G | 0.2 | E | 0.0 | E | 0.0 | E | 0.0 | E | 25.4 | D | -5.8 | E | | 17.0 |
| III -1 | | | | 8.8 | DE | -6.7 | E | 0.3 | E | 22.4 | DE | -22.5 | E | -0.4 | E | 0.3 | E | 9.1 | D | -3.9 | E | | 5.4 |
| 2 | | | | -0.7 | E | 0.1 | E | 0.2 | E | 0.2 | E | 3.0 | E | 0.1 | E | -0.3 | E | 3.4 | D | -1.4 | E | | 4.6 |
| 3 | | | | 0.6 | G | -0.1 | E | 0.3 | E | 0.0 | E | 0.2 | G | -0.1 | E | -0.3 | E | 9.1 | D | -4.1 | E | | 3.4 |
| 4 | | | | -0.1 | G | 0.0 | G | 0.9 | G | -1.7 | G | -0.4 | G | 0.5 | E | -0.7 | E | 4.5 | D | -5.5 | E | | -3.1 |
| 5 | | | | -0.2 | E | 0.0 | E | 0.2 | G | 0.0 | E | 0.0 | G | 0.1 | E | -0.1 | E | -0.4 | E | -1.8 | E | | 14.8 |
| 6 | | | | 0.3 | G | 0.1 | G | 0.2 | G | 0.0 | G | 0.2 | G | 0.1 | E | 0.0 | E | 17.9 | D | 1.3 | E | | 17.4 |
| IV -1 | | | | -0.3 | G | 0.1 | E | 0.2 | G | 0.0 | G | 0.2 | G | 0.1 | E | -0.2 | E | 0.0 | E | 11.4 | E | | 10.3 |
| 2 | | | | -0.3 | G | -0.9 | E | 0.7 | G | 0.4 | G | -0.2 | G | 0.3 | E | -0.3 | E | 5.1 | D | -1.5 | E | | 1.3 |
| 3 | | | | 0.3 | E | 0.0 | E | 0.2 | G | 0.1 | E | 0.4 | E | 0.0 | E | -0.2 | E | 5.2 | D | -2.8 | E | | 0.0 |
| 4 | | | | 0.2 | G | 0.1 | G | 0.2 | G | 0.6 | G | -0.1 | G | 0.1 | E | -0.3 | E | 8.5 | D | -3.3 | E | | 3.2 |
| 5 | | | | -0.1 | G | -0.5 | G | 0.0 | G | 0.3 | G | 0.1 | G | 0.3 | E | -0.4 | E | -0.2 | E | -1.0 | E | | -3.1 |
| 6 | | | | -0.3 | E | -0.1 | E | 0.5 | E | 0.0 | G | -0.1 | G | 0.2 | E | 0.0 | E | -0.7 | E | -1.3 | E | | -2.0 |
| V -1 | -2.0 | -0.5 | -1.2 | 1.4 | G | -0.2 | E | 0.2 | G | -0.5 | G | -0.2 | G | 0.0 | G | -0.2 | E | -0.4 | E | -0.1 | E | | -3.7 |
| 2 | -1.5 | -0.6 | -0.8 | 0.9 | G | -0.8 | E | 0.9 | G | -0.5 | G | 0.0 | G | 0.2 | E | -0.4 | E | 13.0 | D | -4.6 | E | | 5.8 |
| 3 | -1.4 | 0.7 | -1.5 | 0.3 | G | -0.4 | E | 0.5 | G | 0.2 | G | 0.0 | G | 0.1 | E | -0.1 | E | 2.2 | D | -3.4 | G | | -2.8 |
| 4 | -2.2 | -0.8 | -0.2 | 0.0 | G | 0.0 | G | 0.4 | G | 0.1 | G | 0.2 | G | 0.1 | E | -0.1 | G | -0.2 | E | -2.2 | E | | -4.9 |
| 5 | -2.0 | -1.8 | 0.9 | -1.6 | G | 0.0 | G | 1.4 | G | 0.1 | G | -0.1 | G | 0.0 | E | 0.2 | E | 15.2 | D | 4.1 | E | | 16.4 |
| 6 | 0.0 | -0.8 | 1.0 | 0.0 | E | -0.1 | E | 0.2 | E | 0.0 | E | 0.1 | E | 0.2 | E | 0.0 | E | 0.7 | D | 4.4 | E | | 5.7 |
| VI -1 | -2.9 | -0.5 | -0.2 | 0.0 | G | -0.2 | E | 0.3 | E | -0.1 | E | 0.0 | E | 0.1 | G | -0.2 | E | 19.1 | D | -3.0 | E | | 12.4 |
| 2 | -1.8 | 6.7 | -1.9 | 0.2 | E | -0.2 | E | 0.2 | E | 0.0 | E | 0.0 | E | 0.1 | E | 0.0 | E | 2.5 | D | -2.2 | E | | 3.6 |
| 3 | -2.4 | -0.6 | -0.5 | 0.2 | G | -0.2 | E | 0.4 | G | 8.2 | D | -7.4 | G | 0.0 | E | 0.4 | E | -1.2 | E | 9.6 | D | | 6.5 |
| 4 | -1.4 | 15.2 | -10.1 | -0.2 | E | 0.2 | E | 0.0 | E | 20.6 | DE | -20.4 | E | 0.1 | E | 0.2 | E | -0.5 | E | 2.0 | E | | 5.7 |
| 5 | -3.3 | 14.8 | -4.9 | 0.1 | E | -0.2 | E | 0.1 | E | 0.2 | E | 0.2 | E | -0.1 | E | -0.6 | E | 0.9 | D | 0.6 | E | | 7.8 |
| 6 | -4.5 | 3.5 | -4.1 | 4.4 | D | -4.5 | E | 0.2 | E | 0.1 | E | 0.1 | E | 0.2 | E | 0.4 | E | 11.4 | D | -3.6 | E | | 3.6 |
| Mean | -1.7 | 6.3 | -4.7 | 0.2 | | -0.5 | | 0.4 | | 1.6 | | -1.4 | | 0.1 | | -0.2 | | 7.3 | | -1.3 | | | 6.1 |

Table V-2. Net accumulation with a 101-stake row at Mizuho Station in 1985.

(cm in depth)

| No. | Dec.31 (31days) | Jan.31 (28) | Feb.28 (32) | Apr.1 (28) | | Apr.29 (34) | | June2 (26) | | June28 (32) | | July30 (29) | | Aug.28 (33) | | Sep.30 (28) | | Oct.28 (29) | | Nov.26 (34) | | Dec.30 | Total (364) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 102 | -2.4 | 9.3 | -10.2 | -0.1 | G | 0.1 | E | 0.5 | G | 1.8 | E | 0.0 | E | 1.3 | E | -1.5 | E | 9.6 | D | -0.3 | E | | 8.1 |
| 103 | -1.5 | 2.1 | -3.4 | -1.0 | G | 0.9 | E | -0.6 | G | 0.5 | E | 0.0 | G | 0.5 | E | 0.1 | G | 12.8 | D | -2.4 | E | | 8.0 |
| 104 | -2.5 | 2.8 | -3.9 | 0.0 | G | -0.1 | E | 0.3 | G | 0.0 | E | 0.0 | G | 0.2 | G | 0.2 | E | 20.0 | D | -13.2 | E | | 3.8 |
| 105 | -1.8 | -1.3 | -0.4 | 0.2 | G | 0.2 | E | -0.1 | G | 2.0 | E | -1.7 | G | 0.3 | G | -0.5 | G | 11.5 | D | -3.6 | E | | 4.8 |
| 106 | -1.8 | 5.2 | -5.8 | 0.1 | G | -0.1 | E | 0.2 | G | 0.2 | E | -0.2 | G | 0.2 | G | -0.1 | G | 13.9 | D | -4.2 | E | | 7.6 |
| 107 | -1.3 | 14.8 | -15.5 | 0.0 | G | 0.0 | E | 0.1 | G | 3.9 | E | -3.7 | G | 0.2 | G | -0.1 | E | 16.6 | D | -5.9 | E | | 9.1 |
| 108 | -1.1 | 20.6 | -16.3 | -0.1 | E | 0.1 | E | -0.1 | E | 0.3 | E | -0.2 | G | 0.3 | G | -0.5 | E | 6.8 | D | -0.3 | E | | 9.5 |
| 109 | -1.6 | 27.4 | -27.7 | 0.0 | E | -0.1 | E | 0.4 | G | 2.0 | E | -1.6 | G | 0.4 | E | -0.6 | E | 18.4 | D | -3.2 | E | | 13.8 |
| 110 | -2.5 | 30.1 | -25.6 | 3.7 | E | -1.3 | E | 0.5 | E | 0.0 | E | 0.0 | E | 0.2 | E | -0.9 | E | 1.2 | D | 0.5 | E | | 5.9 |
| 111 | -1.9 | 23.6 | -22.0 | 0.1 | E | -0.1 | E | 0.0 | E | 0.1 | E | 10.2 | E | -0.1 | E | -9.9 | E | 7.9 | D | -1.7 | E | | 6.2 |
| 112 | -2.3 | 14.2 | -9.0 | 0.0 | E | -0.1 | E | 0.6 | E | -0.3 | E | -0.1 | E | 0.3 | E | -0.2 | E | -0.1 | E | 0.4 | E | | 3.4 |
| 113 | -1.2 | 9.9 | -5.3 | -0.6 | E | 0.5 | E | 0.3 | E | 0.1 | E | 0.1 | E | 0.2 | E | -0.1 | E | -0.6 | E | -0.3 | E | | 3.0 |
| 114 | 2.3 | 0.0 | -0.6 | 0.0 | E | -0.4 | E | 0.3 | E | 0.4 | E | 0.0 | E | 0.4 | E | -0.4 | E | -0.2 | E | -1.0 | E | | 0.8 |
| 115 | 7.1 | -1.0 | 0.0 | -0.2 | E | 0.0 | E | 0.0 | E | 0.4 | E | 0.0 | E | 0.2 | E | -0.6 | E | 0.8 | D | 0.2 | E | | 6.9 |
| 116 | -1.2 | -0.5 | 0.0 | 0.2 | G | -0.2 | G | -0.2 | G | 0.2 | G | 0.0 | G | 0.2 | G | -0.3 | G | 0.0 | E | -0.9 | E | | -2.7 |
| 117 | -2.5 | -0.6 | 4.3 | -0.3 | G | -0.1 | E | 0.5 | E | 0.1 | E | -0.1 | E | 0.2 | G | -0.1 | E | -0.7 | E | -2.7 | E | | -2.0 |
| 118 | -2.0 | 0.8 | 1.7 | 0.0 | E | -0.2 | E | 0.2 | E | 0.2 | E | 0.0 | E | 0.1 | G | 0.0 | E | -0.5 | E | -2.1 | E | | -1.8 |
| 119 | -2.5 | 0.0 | -1.0 | 0.1 | G | 0.0 | E | 0.4 | E | 5.6 | DE | -5.2 | E | 0.1 | G | -0.3 | E | 6.0 | D | -2.6 | E | | 0.6 |
| 120 | 0.3 | -0.6 | -1.4 | -0.5 | G | -0.2 | E | 0.6 | E | 6.2 | DE | -5.9 | G | 0.4 | E | -0.4 | E | 3.8 | D | -3.5 | E | | -1.2 |
| 121 | (-5.3) | -0.7 | 0.0 | 0.3 | G | -0.2 | E | 0.0 | G | 1.0 | D | -0.7 | G | -0.2 | G | -0.1 | E | -0.5 | E | 8.3 | E | | 1.9 |
| 122 | -2.0 | 0.3 | -2.1 | 1.3 | G | -0.2 | E | 0.0 | G | 2.9 | D | -3.2 | G | 0.0 | G | -0.2 | E | 2.0 | D | 8.7 | E | | 7.5 |
| 123 | -1.2 | 4.5 | -3.3 | 0.2 | E | -0.2 | E | 0.0 | E | 1.4 | D | -1.2 | E | 0.1 | G | -0.3 | E | 15.3 | D | -1.2 | E | | 14.1 |
| 124 | -2.0 | -0.8 | -0.1 | 0.6 | G | -0.2 | E | -0.1 | E | -0.1 | E | 0.3 | E | 0.1 | G | -0.5 | E | 21.1 | D | -7.7 | E | | 10.6 |
| 125 | -2.0 | -0.6 | -0.4 | 0.1 | G | 0.1 | E | 0.0 | E | 0.1 | E | 0.1 | E | 0.3 | G | -0.1 | E | 12.4 | D | -11.4 | E | | -1.4 |
| 126 | -1.6 | 6.4 | -5.5 | 1.8 | E | -1.1 | E | 1.0 | E | 0.0 | E | 0.2 | E | 0.1 | G | -0.2 | E | 3.7 | D | -5.8 | E | | -1.0 |
| 127 | -1.9 | 2.6 | -2.8 | 2.1 | E | -0.2 | E | 0.5 | E | 0.0 | E | -0.3 | E | 0.2 | E | -0.2 | E | 4.8 | D | 3.0 | E | | 7.8 |
| 128 | -2.6 | 2.2 | -3.5 | 0.7 | E | -0.4 | E | 0.8 | E | -0.3 | E | 0.1 | E | -0.1 | E | -0.3 | E | -0.6 | E | 9.2 | E | | 5.2 |
| 129 | -3.7 | 6.4 | -11.1 | -0.8 | E | -0.5 | E | 0.7 | E | 9.6 | DE | -9.9 | E | -0.1 | E | -0.4 | E | 14.3 | D | 4.0 | E | | 8.5 |
| 130 | -2.8 | -0.7 | -0.5 | 0.1 | G | -0.3 | E | 0.4 | E | 13.7 | DE | -13.7 | E | 0.2 | E | -0.8 | E | 5.9 | D | 5.7 | E | | 7.2 |
| 131 | -2.4 | 0.3 | -1.6 | 0.3 | G | -0.2 | E | 0.2 | E | 11.0 | DE | -10.8 | E | 0.1 | E | -0.3 | E | 2.0 | D | -2.4 | E | | -3.8 |
| 132 | -2.6 | 8.9 | -9.1 | -0.3 | G | -0.2 | E | 0.1 | E | 3.6 | D | -3.4 | E | 0.1 | E | -0.4 | E | 2.0 | D | -4.0 | E | | -5.3 |
| 133 | -1.0 | 0.7 | -1.5 | 0.0 | G | 0.0 | E | 0.0 | E | 0.4 | E | -0.1 | G | 0.1 | G | -0.2 | E | 5.4 | D | -5.0 | E | | -1.2 |
| 134 | -1.8 | -0.2 | -0.5 | 0.3 | G | 0.0 | E | 0.3 | E | -0.1 | E | 0.3 | G | 0.2 | G | -0.4 | E | 6.4 | D | -3.2 | E | | 1.3 |
| 135 | 4.5 | -1.6 | -1.0 | 0.5 | G | -0.5 | E | 0.4 | E | -0.2 | E | -0.1 | G | 0.1 | E | -2.6 | E | 12.4 | D | -3.8 | E | | 8.1 |
| 136 | 5.2 | -0.9 | -0.1 | 0.2 | G | 0.1 | G | -0.2 | E | 8.2 | D | -7.8 | G | 0.1 | G | 0.1 | G | 12.3 | D | -3.2 | E | | 14.0 |

(cm in depth)

| No. | Dec.31 (31days) | Jan.31 (28) | Feb.28 (32) | Apr.1 (28) | | Apr.29 (34) | | June2 (26) | | June28 (32) | | July30 (29) | | Aug.28 (33) | | Sep.30 (28) | | Oct.28 (29) | | Nov.26 (34) | | Dec.30 | Total (364) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 137 | -4.5 | 1.5 | -2.4 | -0.1 | E | -0.1 | E | 0.0 | E | 13.0 | D | -13.0 | E | 0.2 | E | -0.1 | E | 18.7 | D | -0.5 | E | | 12.7 |
| 138 | -1.0 | 5.4 | -5.9 | -0.1 | G | 0.3 | E | 0.0 | E | 20.9 | DE | -20.6 | E | 0.0 | E | -0.1 | E | 29.8 | D | -5.5 | E | | 23.2 |
| 139 | -1.0 | -0.4 | -0.1 | 0.0 | G | -0.3 | G | 0.3 | G | 1.0 | E | -0.8 | E | 0.2 | E | -0.3 | E | 21.9 | D | -5.5 | E | | 15.0 |
| 140 | -1.1 | -0.5 | -0.2 | 0.3 | G | -0.1 | G | 0.1 | G | 10.3 | DE | -7.4 | E | 0.5 | E | -1.1 | E | 15.4 | D | -7.2 | E | | 9.0 |
| 141 | -2.9 | 2.7 | -3.4 | -0.2 | G | 0.3 | E | 0.2 | G | 4.8 | DE | -3.7 | E | 0.3 | E | -0.5 | E | 21.0 | D | -4.7 | E | | 13.9 |
| 142 | | | | -0.2 | E | 0.1 | E | -0.4 | G | 0.6 | E | -0.2 | E | 0.2 | E | 0.0 | E | 6.1 | D | -2.0 | E | | 7.7 |
| 143 | | | | 0.0 | E | -0.2 | E | 0.0 | E | 0.1 | E | 0.1 | E | 0.1 | E | -0.5 | E | -0.8 | E | 8.0 | E | | 11.9 |
| 144 | | | | -0.2 | E | 0.3 | E | -0.2 | E | 0.2 | E | 0.3 | E | -0.2 | E | -0.2 | E | 10.2 | D | -2.9 | E | | 12.9 |
| 145 | | | | -0.1 | E | -0.5 | E | 0.3 | E | 0.2 | E | -0.2 | E | 0.1 | E | -0.1 | E | 1.1 | D | 0.9 | E | | 12.0 |
| 146 | | | | -0.1 | E | -0.3 | E | 0.3 | E | 1.0 | D | -0.9 | E | 0.0 | E | 0.0 | E | -0.6 | E | -2.4 | E | | 7.6 |
| 147 | | | | -0.3 | E | 0.3 | E | 0.3 | E | 0.0 | E | 0.0 | E | 0.2 | E | -0.2 | E | 0.2 | D | -1.0 | E | | -1.8 |
| 148 | | | | 0.3 | E | -0.2 | E | -0.1 | G | 0.4 | E | 0.0 | E | 0.2 | E | -0.2 | E | 15.4 | D | -2.3 | E | | 11.7 |
| 149 | | | | 0.2 | E | 0.0 | E | 0.2 | E | 4.5 | D | -4.7 | E | 0.5 | E | -0.3 | E | 17.6 | D | -2.1 | E | | 16.8 |
| 150 | | | | 0.3 | E | -0.1 | E | -0.2 | E | 0.2 | E | 0.2 | E | 0.0 | E | -0.1 | E | 7.1 | D | -8.2 | E | | 0.2 |
| 151 | | | | 0.0 | E | 0.0 | E | 0.1 | E | 3.8 | E | 0.0 | E | 0.1 | E | -0.3 | E | 15.0 | D | -1.4 | E | | 15.3 |
| 51 | | | | 0.2 | E | -0.2 | E | 0.2 | E | -0.1 | E | 0.2 | E | 0.2 | E | 0.3 | E | 20.8 | D | 1.1 | E | | 21.8 |
| 152 | | | | 0.3 | G | 0.1 | G | 0.2 | G | -0.2 | E | 0.4 | G | 0.4 | E | -0.2 | E | 23.6 | D | -3.2 | E | | 18.5 |
| 153 | | | | 0.8 | G | -0.4 | G | 0.3 | G | 0.3 | E | 0.4 | G | 0.3 | E | 0.1 | E | 12.1 | D | -0.2 | E | | 10.8 |
| 154 | | | | 0.7 | G | 0.1 | G | 0.0 | G | 2.7 | D | -2.5 | G | 0.2 | G | 0.0 | E | 5.2 | D | -1.8 | E | | 1.8 |
| 155 | | | | 0.2 | G | -0.1 | G | 0.1 | G | 9.9 | D | -9.7 | G | 0.2 | E | -0.2 | E | 16.6 | D | -1.6 | E | | 12.3 |
| 156 | | | | -0.3 | E | 0.0 | E | 0.3 | E | 0.0 | E | -0.3 | E | 0.0 | E | -0.1 | E | 16.4 | D | -4.0 | E | | 19.0 |
| 157 | | | | 0.1 | E | 0.1 | E | 0.0 | E | 1.7 | D | -1.7 | E | 0.1 | E | 0.3 | E | 19.4 | D | -1.6 | E | | 23.1 |
| 158 | | | | 0.1 | G | 0.2 | G | 0.6 | E | 2.5 | D | -2.4 | E | 0.1 | E | 0.0 | E | 19.6 | D | -2.9 | E | | 15.2 |
| 159 | | | | 0.2 | G | 1.3 | G | 5.0 | E | 0.0 | E | 0.1 | E | 2.1 | E | -0.8 | E | 11.8 | D | -2.4 | E | | 14.3 |
| 160 | | | | 0.0 | G | -0.2 | G | 2.0 | E | 4.6 | E | -5.0 | E | 0.3 | E | -0.5 | E | 22.5 | D | -2.0 | E | | 19.0 |
| 161 | | | | 3.1 | E | -0.8 | E | 0.0 | E | 0.3 | E | -0.3 | E | 0.2 | E | -0.5 | E | 16.3 | D | -4.6 | E | | 10.6 |
| 162 | | | | 1.2 | E | 0.4 | E | 0.0 | E | 0.0 | E | 0.3 | E | -0.2 | E | -0.2 | E | 14.1 | D | -2.0 | E | | 10.6 |
| 163 | | | | -0.2 | G | 1.5 | E | 5.0 | E | 0.0 | E | 0.0 | E | 0.5 | E | -0.5 | E | 8.0 | D | -3.1 | E | | 8.7 |
| 164 | | | | 6.4 | D | -6.7 | G | 6.9 | E | 0.0 | E | -0.1 | E | 0.2 | E | 0.2 | E | 4.3 | D | -3.8 | E | | 4.7 |
| 165 | | | | 8.5 | DE | -7.4 | G | 6.5 | E | 4.9 | E | -0.1 | E | 0.1 | E | -0.3 | E | -0.4 | D | 0.3 | E | | 8.2 |
| 166 | | | | 0.3 | G | -0.2 | E | 0.3 | G | 8.2 | E | -5.0 | E | 0.3 | E | -3.1 | E | 4.8 | D | 4.6 | E | | 6.8 |
| 167 | | | | -0.2 | G | -0.2 | E | 2.0 | G | 6.9 | D | -6.9 | E | 0.1 | E | -0.2 | E | 0.4 | D | 6.9 | E | | 5.9 |
| 168 | | | | -0.1 | G | 0.2 | E | 0.3 | G | 0.2 | E | 0.1 | G | 0.2 | G | -0.3 | G | -0.4 | E | 6.7 | E | | 4.3 |
| 169 | | | | -0.3 | E | -0.1 | E | 0.8 | E | 2.4 | E | -2.3 | E | -0.3 | E | 0.0 | E | -0.4 | E | 8.0 | E | | 7.6 |
| 170 | | | | 0.2 | E | -0.2 | E | 0.2 | E | 1.2 | E | -1.1 | E | 0.3 | E | -0.3 | E | 0.1 | E | -1.4 | E | | 4.5 |

(cm in depth)

| No. | Dec.31 Jan.31 (31days) | Feb.28 (28) | Apr.1 (32) | Apr.29 (28) | | June 2 (34) | | June 28 (26) | | July 30 (32) | | Aug.28 (29) | | Sep.30 (33) | | Oct.28 (28) | | Nov.26 (29) | | Dec.30 (34) | | Total (364) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 171 | | | | 0.0 | E | -0.1 | E | 0.4 | E | 6.0 | E | -5.8 | E | 0.1 | E | -0.4 | E | 3.3 | D | 2.9 | G | 4.7 |
| 172 | | | | 5.6 | DE | -5.7 | E | 0.3 | G | 5.0 | E | -5.1 | E | 0.3 | E | -0.3 | G | 7.5 | D | 3.6 | E | 8.0 |
| 173 | | | | 1.5 | DE | -1.5 | E | 0.5 | G | 6.4 | D | -6.2 | E | 0.4 | E | -0.1 | E | 6.5 | D | -1.2 | E | 3.1 |
| 174 | | | | 1.0 | DE | -0.7 | G | 0.1 | G | 1.4 | E | -1.1 | G | 0.3 | G | -0.4 | G | 4.2 | D | -1.4 | E | -0.6 |
| 175 | | | | 0.3 | G | -0.2 | G | 0.1 | G | 1.0 | E | -0.8 | G | 0.1 | G | 0.3 | G | -0.9 | E | 2.9 | E | -0.3 |
| 176 | | | | 1.9 | E | -0.3 | E | 0.2 | E | 0.0 | E | 0.2 | G | 0.0 | G | -0.5 | G | -0.3 | E | -2.0 | E | -3.5 |
| 177 | | | | 2.3 | E | -2.3 | G | 0.1 | G | 1.3 | D | -1.1 | G | 0.0 | G | -0.2 | G | 5.0 | D | 5.8 | E | 9.1 |
| 178 | | | | 0.4 | G | -0.2 | G | 0.4 | G | 3.8 | E | -3.8 | G | 0.2 | G | -0.2 | G | 8.0 | D | 2.2 | E | 8.3 |
| 179 | | | | 1.7 | E | -2.1 | E | 0.8 | G | -0.2 | E | 0.6 | G | -0.4 | G | -0.1 | G | 8.2 | D | 0.7 | E | 6.9 |
| 180 | | | | 2.6 | E | 0.0 | E | 0.9 | E | -0.4 | E | -0.1 | E | 0.2 | E | -0.3 | E | 0.2 | E | -3.6 | E | -4.2 |
| 181 | | | | 2.1 | E | -0.7 | E | 0.7 | E | 0.0 | E | 0.0 | E | 0.0 | E | -0.5 | E | 9.1 | D | -11.2 | E | -2.7 |
| 182 | | | | -0.8 | G | -0.4 | E | 0.3 | G | 3.8 | E | -0.4 | E | 0.3 | E | -0.6 | E | -0.1 | E | -2.8 | E | -2.9 |
| 183 | | | | -1.9 | G | -0.2 | E | 0.4 | G | 0.1 | E | 0.0 | E | 1.3 | E | -1.5 | E | 0.1 | E | -1.4 | E | -3.0 |
| 184 | | | | 0.1 | G | -0.2 | E | 0.1 | E | 0.2 | E | 0.1 | G | 0.2 | G | -0.4 | G | 0.0 | E | -2.2 | E | -5.6 |
| 185 | | | | 0.2 | G | 0.1 | E | -0.1 | E | 1.0 | E | -0.4 | G | 0.3 | G | -0.8 | E | 0.1 | E | -11.6 | E | -14.6 |
| 186 | | | | 1.9 | E | -0.3 | E | 0.0 | E | 9.9 | E | -4.5 | E | 0.0 | E | -0.4 | E | 2.0 | D | -2.8 | E | 3.7 |
| 187 | | | | 1.0 | G | -0.6 | E | 0.1 | G | 4.3 | D | -4.0 | G | -0.1 | G | -0.3 | G | 0.0 | G | -1.1 | G | -3.5 |
| 188 | | | | 0.0 | G | -0.2 | E | 0.2 | G | 4.8 | D | -4.5 | G | 0.1 | G | -0.4 | G | 0.0 | D | -1.7 | E | -5.7 |
| 189 | | | | 0.0 | G | -0.2 | E | 0.3 | G | 8.1 | D | -8.0 | G | 0.3 | E | -0.1 | E | 8.5 | D | -8.1 | E | -0.8 |
| 190 | | | | 0.1 | G | -0.2 | E | 0.4 | G | 0.2 | E | 0.2 | G | 0.1 | E | -0.4 | E | 4.1 | D | -4.4 | E | 1.3 |
| 191 | | | | -0.5 | G | 0.2 | E | 0.5 | G | 3.2 | D | -3.0 | G | -0.2 | E | 0.0 | E | 8.9 | D | -7.9 | E | -2.2 |
| 192 | | | | -0.2 | G | 0.0 | E | 0.2 | E | 6.0 | D | -5.7 | E | 0.4 | G | -0.4 | E | 8.3 | D | -4.9 | E | 0.3 |
| 193 | | | | 0.3 | G | -0.2 | E | 0.3 | E | 18.2 | E | -17.5 | E | 2.3 | E | -2.4 | E | 12.3 | D | -3.9 | E | 5.9 |
| 194 | | | | 0.0 | G | -0.2 | E | 0.5 | E | 3.0 | D | -2.5 | E | 0.1 | E | -0.6 | E | 7.9 | D | 7.6 | D | 13.3 |
| 195 | | | | 0.0 | G | -0.3 | E | 0.3 | G | 8.4 | DE | -8.1 | E | 0.0 | E | -0.2 | E | 0.3 | D | 18.9 | D | 16.2 |
| 196 | | | | 0.3 | G | 0.0 | E | 0.2 | G | 4.9 | DE | -4.8 | G | 0.1 | E | -0.2 | G | 15.9 | D | 6.2 | D | 19.5 |
| 197 | | | | 0.4 | G | -0.4 | E | 0.5 | G | 10.8 | DE | -10.9 | G | 0.4 | E | -0.1 | G | 17.8 | D | 3.9 | D | 19.5 |
| 198 | | | | 0.0 | G | 0.3 | E | -0.1 | G | 0.2 | E | 0.1 | G | 0.1 | E | -0.2 | G | 12.3 | D | 8.1 | D | 18.6 |
| 199 | | | | -10.0 | G | -0.2 | E | 0.4 | G | 6.9 | D | -6.8 | G | 0.1 | E | -0.2 | E | 17.4 | D | -1.3 | E | 14.8 |
| 200 | | | | 0.4 | G | -0.2 | E | 0.9 | G | 1.9 | E | -2.3 | G | 0.2 | E | -0.4 | E | 22.8 | D | -2.8 | E | 17.5 |
| 201 | | | | 0.6 | G | -0.1 | E | 0.4 | G | 4.2 | E | -4.3 | G | 4.3 | E | -0.6 | E | 23.4 | D | -3.4 | E | 22.0 |
| Mean | (-1.4) | (4.8) | (-4.9) | 0.4 | | -0.4 | | 0.5 | | 3.0 | | -2.5 | | 0.3 | | -0.5 | | 8.4 | | -1.2 | | 6.9 |

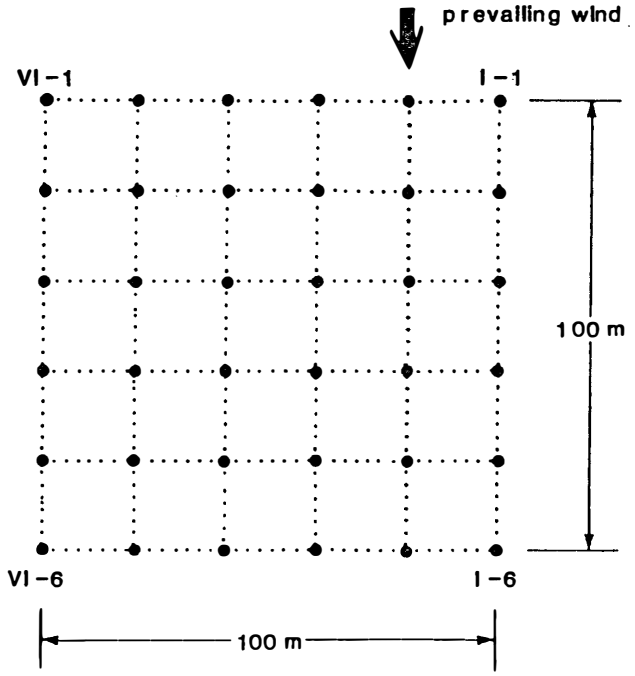



Fig. 1. 36-stake farm at Mizuho Station.

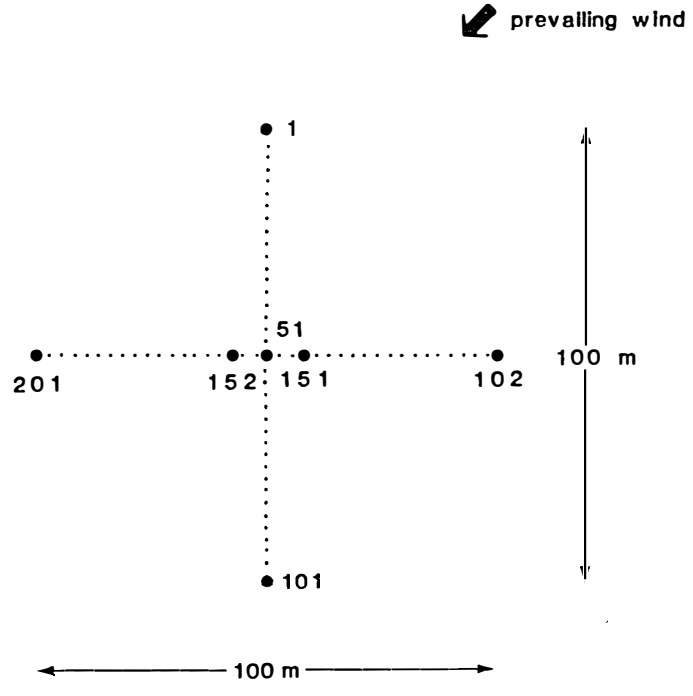



Fig. 2. 201-stake farm at Mizuho Station.

# VI. Temperature Profiles in Surface Snow Layer at Mizuho Station

Observers: Fumio OKUHIRA, Tokio KIKUCHI,
Yutaka AGETA
and Takashi SHIMAMOTO

The measurements were made using platinum resistance thermometers placed in metal pipes, which were installed in 1980 by Wada et al. (1981) at several depths in a surface snow layer. A spot reading of the resistance for each thermometer was made approximately twice a month with a standard digital voltmeter as was described by Nakawo et al. (1984). On 6 July 1985, the voltmeter was replaced with a digital thermometer (Thermo-degmeter, PT-3DS) to indicate the temperature directly. The results are listed in Table VI-1. The data before the beginning of April was omitted because we had failed to measure the reference (cable) resistance.

The change in the levels of the thermometers was monitored during the observation period in 1985. The difference between the lowest and the highest surface levels, however, was as small as 6 cm and the net difference in the year was 4 cm. Therefore, we considered the change in depths of the thermometers was negligible (Fujii et al., 1986).

## References

Fujii, Y., Kawada, K., Yoshida, M. and Matsumoto, S. (1986): Temperature profiles in surface snow layer at Mizuho Station. JARE Data Rep., 116 (Glaciol. 13), 69-70

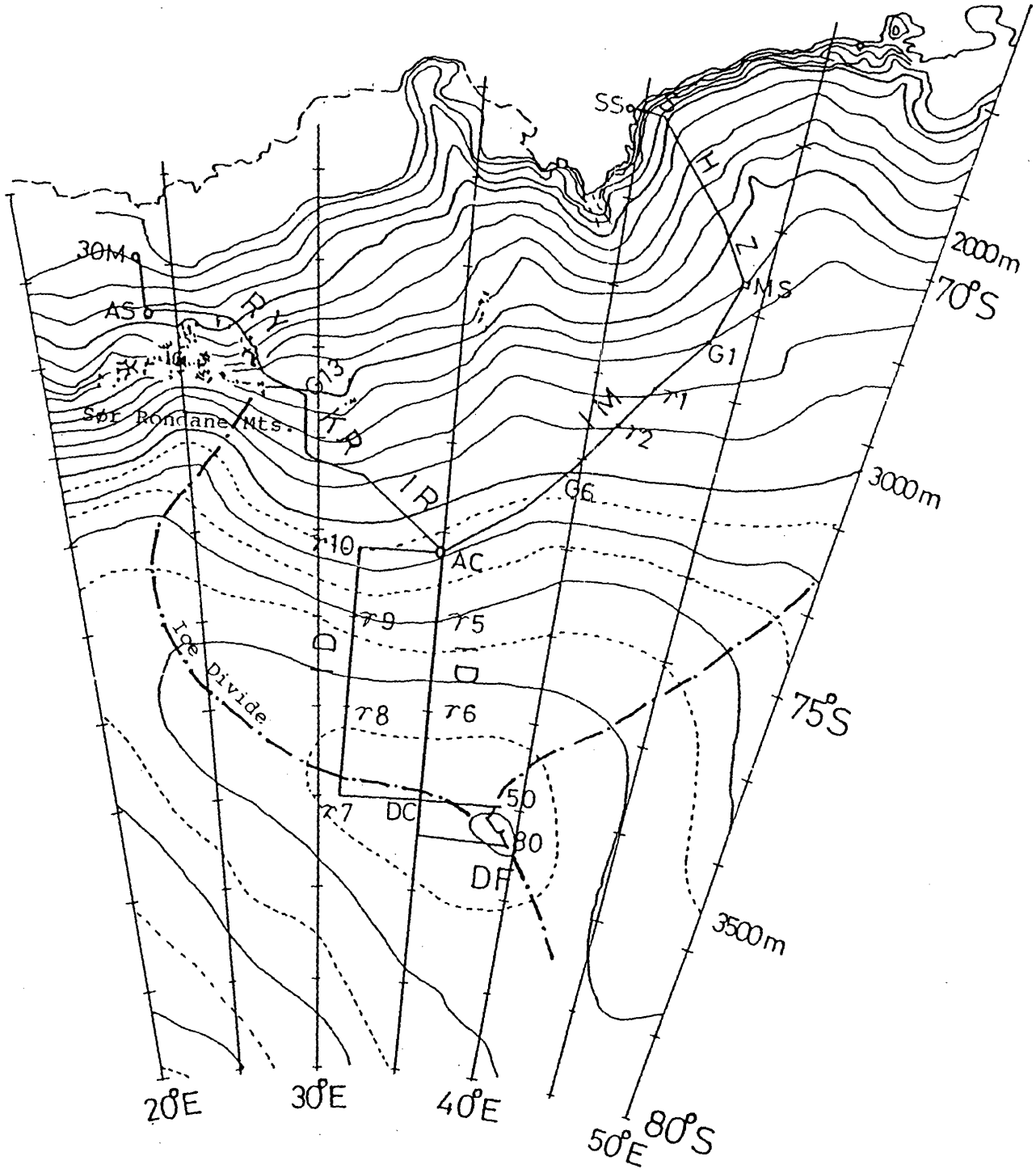
Nakawo, M., Narita, H. and Isobe, T. (1984): Temperature profiles in surface snow layer at Mizuho Station. JARE Data Rep., 96 (Glaciol. 11), 79-80.

Wada, M., Yamanouchi, T., Mae, S., Kawaguchi, S. and Kusunoki, K. (1981) : POLEX-South data, Part 2. Micrometeorological data at Mizuho Station, Antarctica in 1979. JARE Data Rep., 62 (Meteorol. 9), 321p.

Table VI-1. Temperature profile at Mizuho Station.

(°C)

| Depth in m | | 1.2 | 1.7 | 3.7 | 5.7 | 10.7 |
|---|---|---|---|---|---|---|
| 1985 | 16 Apr. | -30.6 | -30.0 | -30.0 | -32.1 | -33.1 |
| | 2 May | -32.6 | -31.9 | -30.8 | -32.4 | -33.2 |
| | 15 May | -34.0 | -32.9 | -31.2 | -32.4 | -33.2 |
| | 1 June | -36.2 | -34.8 | -32.0 | -32.4 | -33.1 |
| | 18 June | -36.2 | -35.2 | -32.6 | -32.6 | -33.0 |
| | 2 July | -35.8 | -35.3 | -33.2 | -32.8 | -33.0 |
| | 6 July | -35.6 | -35.2 | -33.3 | -32.8 | -33.0 |
| | (by Thermo-degmeter PT-3DS, hereafter) | | | | | |
| | 6 July | -35.4 | -35.2 | -33.4 | -32.8 | -32.9 |
| | 15 July | -35.4 | -35.1 | -33.2 | -32.7 | -32.8 |
| | 1 Aug. | -38.0 | -37.1 | -33.8 | -33.0 | -32.7 |
| | 14 Aug. | -37.9 | -37.0 | -34.0 | -33.1 | -32.7 |
| | 31 Aug. | -39.1 | -38.2 | -34.6 | -33.5 | -32.9 |
| | 14 Sep. | -38.8 | -38.0 | -34.8 | -33.5 | -32.7 |
| | 15 Oct. | -37.6 | -37.4 | -35.2 | -34.0 | -33.0 |
| | 5 Nov. | -35.7 | -36.2 | -35.2 | -34.3 | -33.1 |
| | 11 Nov. | -35.4 | -35.7 | -35.2 | -34.3 | -33.2 |
| | 15 Nov. | -34.3 | -35.1 | -35.1 | -34.3 | -33.2 |
| | 1 Dec. | -32.4 | -33.5 | -34.7 | -34.4 | -33.3 |
| | 15 Dec. | -30.5 | -31.9 | -34.1 | -34.3 | -33.4 |
| 1986 | 2 Jan. | -28.1 | -29.9 | -33.2 | -36.4 | -33.4 |




SS: Syowa Station
MS: Mizuho Station
AC: Advance Camp
DC: Dome Camp
AS: Asuka Camp

Fig. A. Routes of oversnow traverses by JARE26 (1985-86) in East Queen Maud Land.