

Meteorological and oceanographic data along the traverse routes over sea ice in Lützow-Holm Bay in 2002 (JARE-43)

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1. Introduction

Several small traverse expeditions were carried out over sea ice in Lützow-Holm Bay all the year round but the mid summer season around Syowa Station, for various observations, such as biology, geophysics, glaciology and so on, as well as the logistic maintenance. Every traverse routes were traced to avoid icebergs and unstable sea ice area.

In this report, we present the positions of various routes over sea ice as well as the results for meteorological, oceanographic and glaciological observations by the 43rd Japanese Antarctic Expedition (JARE-43). Mr. Nobuhiko Kizu compiled the report as the field leader in chief around coastal area near Syowa Station with Dr. Kokichi Kamiyama, the leader of the wintering party. Mr. Nobuhiko Kizu is also responsible for the field observation also as the leader of meteorological section in Syowa Station.

2. Traverse routes in Lützow-Holm Bay

In 2002, many traverse routes over the Sôya coastal area, as shown in Fig. 1, were traced out by JARE-43, which connected Syowa Station to several coastal areas and islands on sea ice.

Each traverse route was shown in Figs. 2, 3, 4 and 5 with the stakes as marker points. The GPS points of every stakes were also shown in Table 1. Mr. Nobuhiko Kizu is also responsible for GPS positioning of all routes but Route L, as shown in Fig. 2, by Dr. Hiroyuki Wakabayashi traced for land truth for satellite measurements.

3. Field observations on the traverse routes

During the traverses over sea ice from April to November, we observed ice thickness, stake height, snow depth, air temperature, ice temperature (10 cm, 50 cm below) and seawater temperature (used ND500 series by CHINO) along the main

routes.

Ice thickness along the routes was shown in Table 2. The length of stakes above surface was shown in Table 3 as the height of stakes, which is available net balance of sea ice and snow cover. The snow depth over sea ice is also available in Table 4.

In October and November, the temperatures of air, and of snow and ice 10 cm and 50 cm below ice surface at main points along the routes were observed as was shown in Tables 5, 6 and 7. The ice surface was opened by making the pit when sea ice was covered by snow. The temperature of sea water was also observed in November as was shown in Table 8.

During the same term, air temperature, wind-direction, wind-speed, air pressure and humidity are automatically observed by MAWS system at SL55, the point of which was shown in Fig. 5. These data are shown in Table 9 as daily summaries and in Table 10 as hourly synoptic data. The meteorological observations were also carried out at 06, 12 and 18 LT in each traverse and the results are shown in Table 11.

3. Instrument

The instruments used during the expeditions are listed here.

3.1. Glaciological instruments

Item	Instrument	Accuracy
Ice thickness	Tape measurement	
Stake height	Stake measurement	
Snow depth	Stake measurement	
Air temperature	Platinum resistance -50~+300 (°C)	±0.1%
Ice temperature	Platinum resistance -50~+300 (°C)	±0.1%
Seawater temperature	Platinum resistance -50~+300 (°C)	±0.1%

3.2. Meteorological instruments

a) At SL55 observation (Tables 9 and 10)

Item	Instrument	Accuracy
Air pressure	Electronic barometer 600 - 1100 (hPa) (silicon capsule capacitance sensor)	± 0.3 hPa
Air temperature	Platinum resistance -40~+60 (°C) in ventilated shield	± 0.3°C
Hygrometer	Electronic hygrometer 0 - 100 (%) (polymer film capacitance sensor) in ventilated shield	± 2% (0-90%) ± 3% (90-100%)
Wind vane and anemometer	Windmill type 0 - 60 (m/s) (lower motive limit 0.5 m/s) 0 - 360 (degree)	± 0.3 m/s (<10 m/s) <2% (>10 m/s) ± <3 (degree)

b) During traverse observation (Tables 9, 10 and 11)

Item	Instrument	Accuracy
Air pressure	Aneroid gauge	± 1 hPa
Air temperature	Sling type glass thermometer	± 0.5°C
Wind direction	Magnetic compass	± 0.5°C
Wind speed	Portable 3-cup anemometer	± 0.5 m/s
Visibility	Visual observation	
Cloud amount	Visual observation	
Weather	Visual observation	
Individual cloud	Visual observation	

4. Notations appeared in Tables

The notations used in the tables are as follows.

Daily summaries at SL55 (JARE-43 traverse route point) on the sea ice in Table 9;

Pstn : Daily mean surface pressure for hourly observations;

Tm	: Daily mean temperature for hourly observations;
Tx, Tn	: Daily maximum, minimum temperature;
H	: Daily mean relative humidity for hourly observations;
Vm	: Daily mean (scalar) of wind speed obtained from 24-hour wind run;
Vx	: Daily maximum wind speed;
Gust	: Daily maximum gust wind speed.

Surface synoptic data at SL55 (JARE-43 traverse route point) on the sea ice in Table 10.

MN DY LT	: Local Standard Time (UTC+3 hr) in month, day and hour;
Pstn	: Surface pressure;
T	: Air temperature;
Td	: Dew-point temperature;
H	: Relative humidity;
D	: Wind direction in 16 directions; (When the wind speed is less than 0.3 m/s, shown by '-')
V	: Wind speed (10-minute mean);
Vx	: Hourly maximum wind speed;
GUST	: Hourly maximum gust speed.

Surface synoptic data observed on traverse in Table 11.

LST	: Local standard time at Syowa Station (UTC + 3 hr);
Point	: Traverse route point;
Pa	: Air pressure (hPa);
Ta	: Air temperature (°C);
WD	: Wind direction in 16 directions; (When the wind speed is less than 3 m/s, shown by '-')
WS	: Wind speed (m/s); (When the wind speed is less than 3 m/s, shown by 'Calm')
V	: Visibility (km);
N	: Cloud amount (in tenth);
W	: Weather; CL Clear FN Fine HC Cloudy (upper cloud are predominant) CD Cloudy

	SN	Snow
CL	:	Individual cloud amount and type;
AP	:	Atmospheric phenomena.
	SN	Snow
	BS	Blowing snow

Acknowledgments

The expeditions were carried out by the contributions of many members of wintering party of JARE-43 and express here sincere thanks to all the members of JARE-43.

Reference

National Institute of Polar Research (2003): Nihon Nankyoku Chiiki Kansokutai Dai-43-ji-tai Houkoku 2001-2003 (Report of the 43rd Japanese Antarctic Research Expedition 2001-2003). Tokyo, 533 p. (in Japanese).

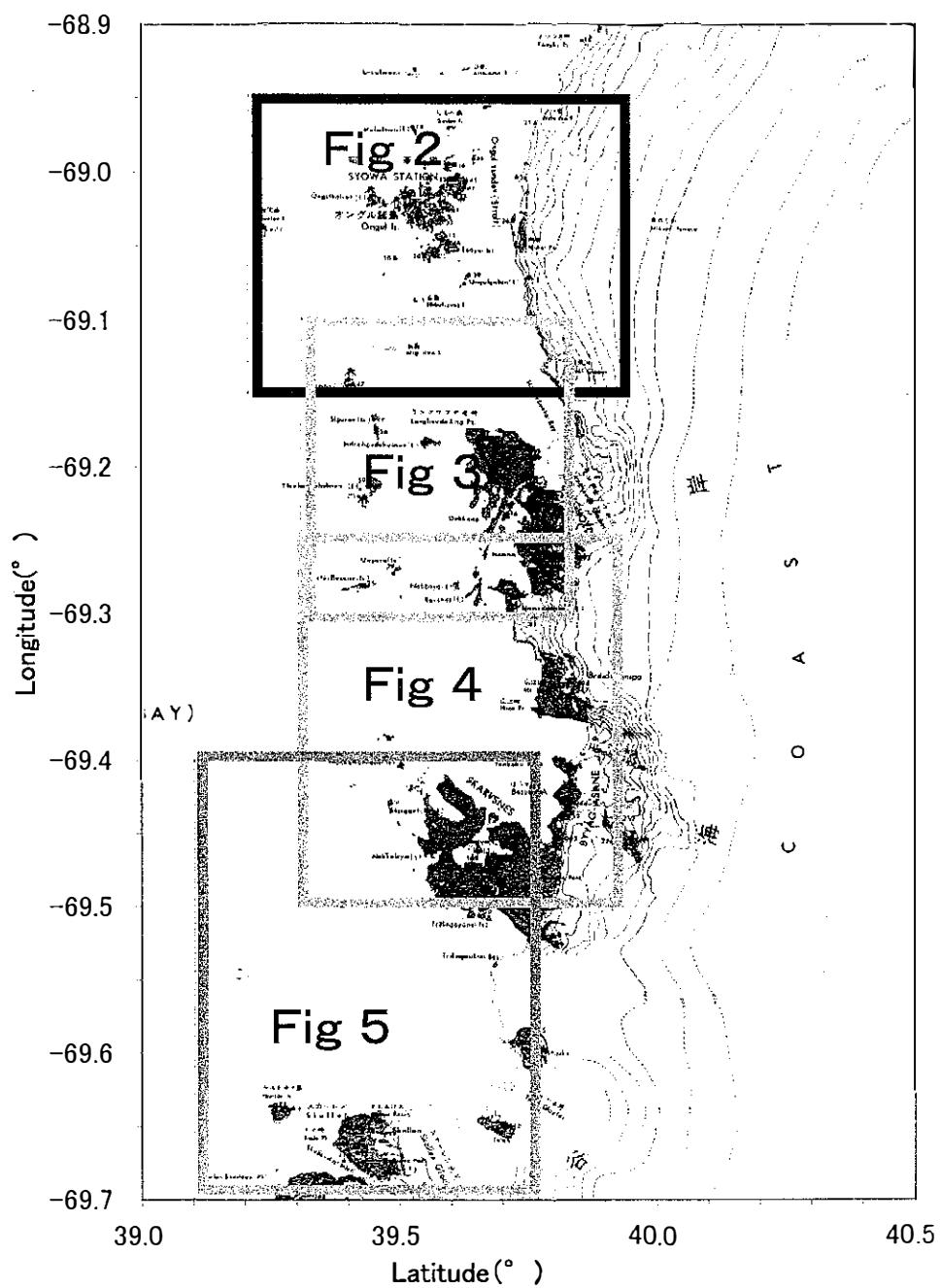


Fig. 1. Map of the Sôya Coast.

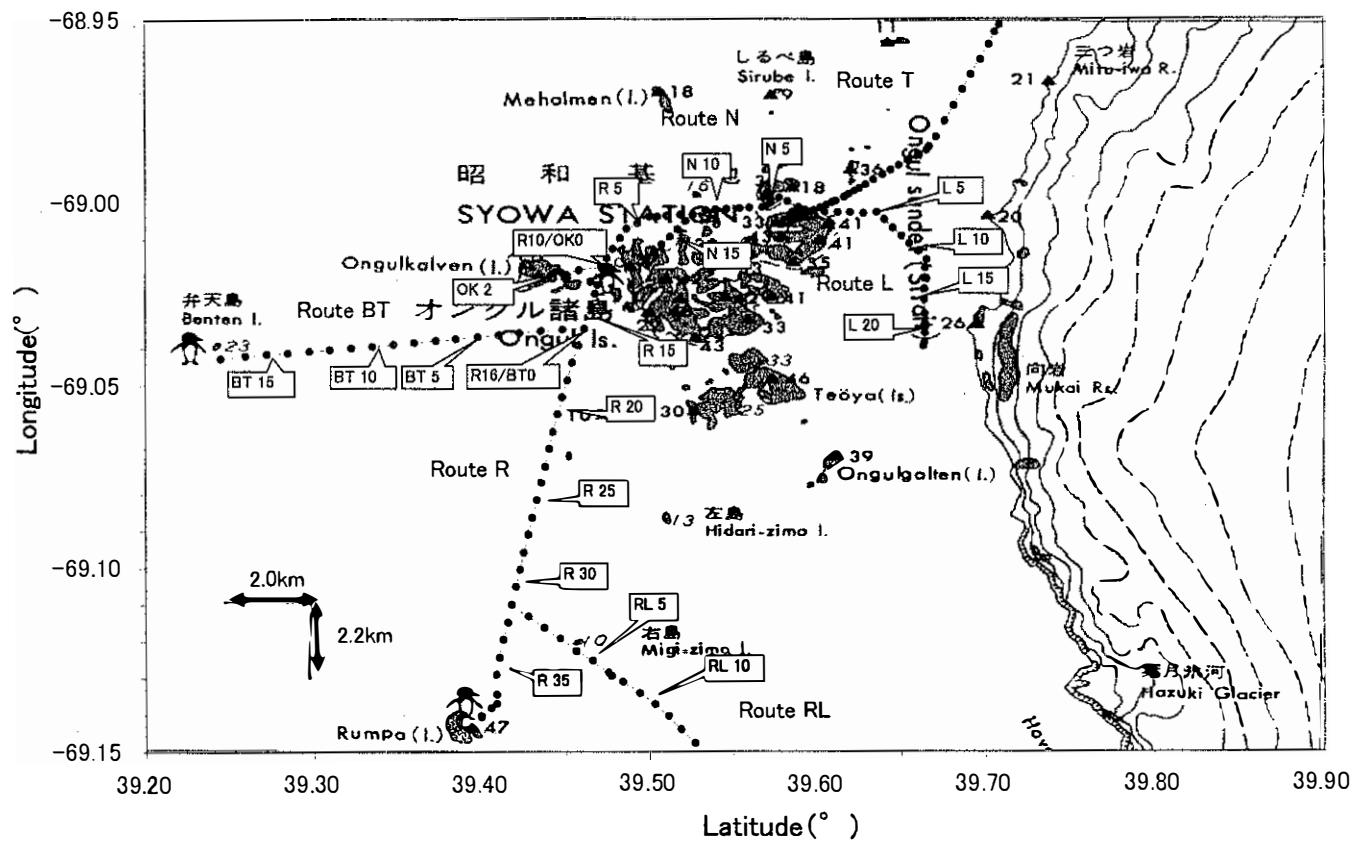


Fig. 2. Map of traverse route along the Sôya Coast (Part 1).

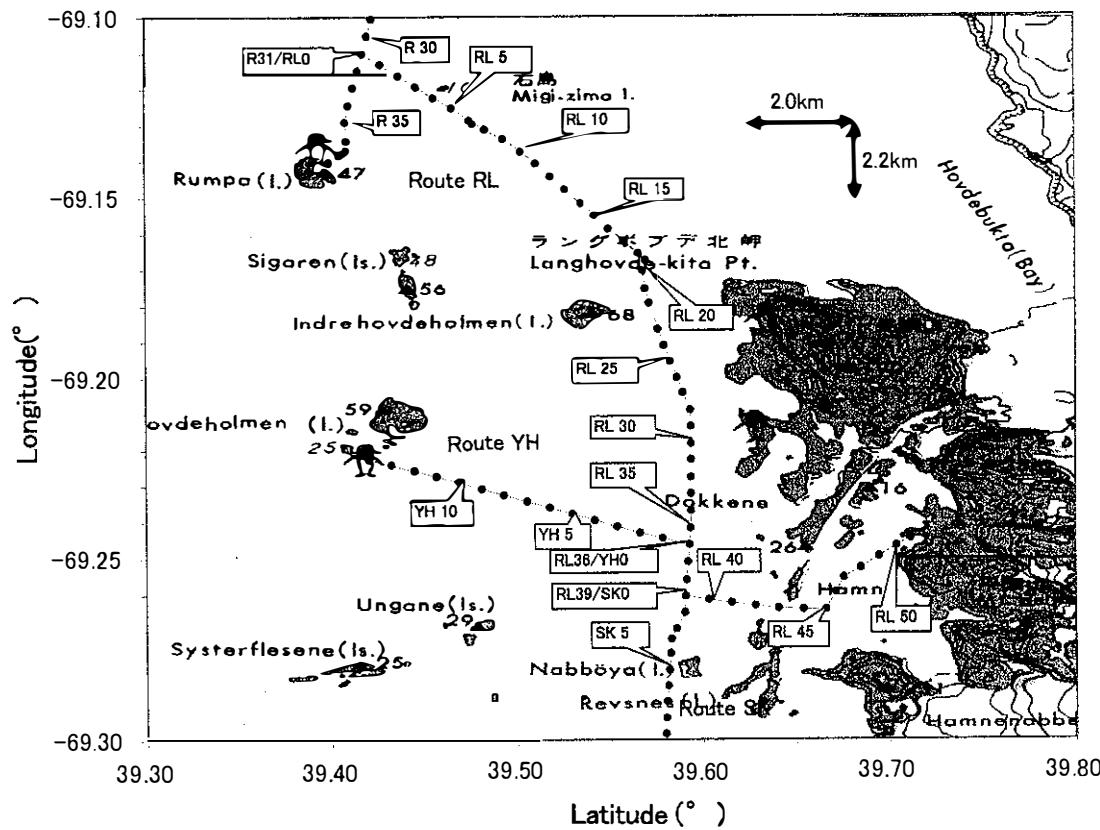


Fig. 3. Map of traverse route along the Sôya Coast (Part 2).

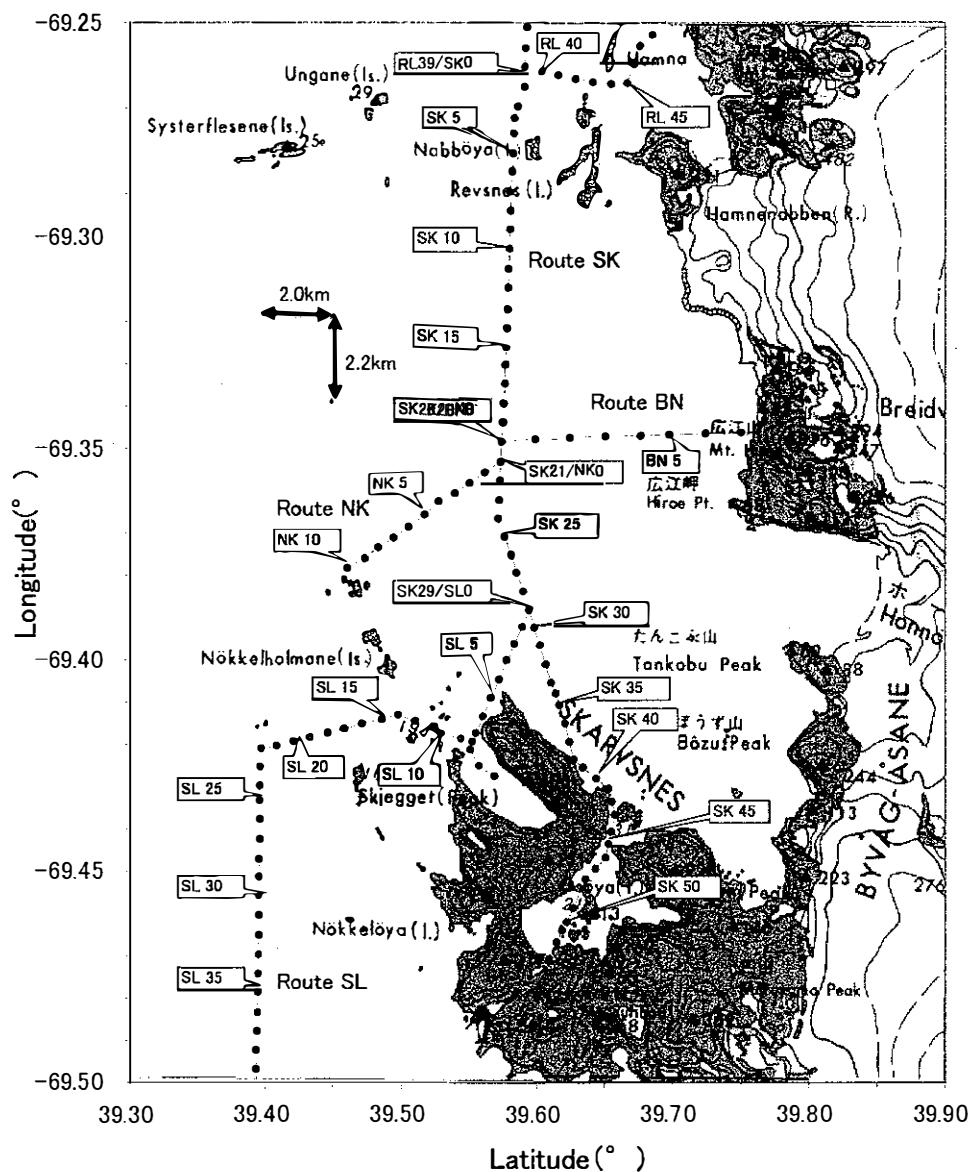


Fig. 4. Map of traverse route along the Sôya Coast (Part 3).

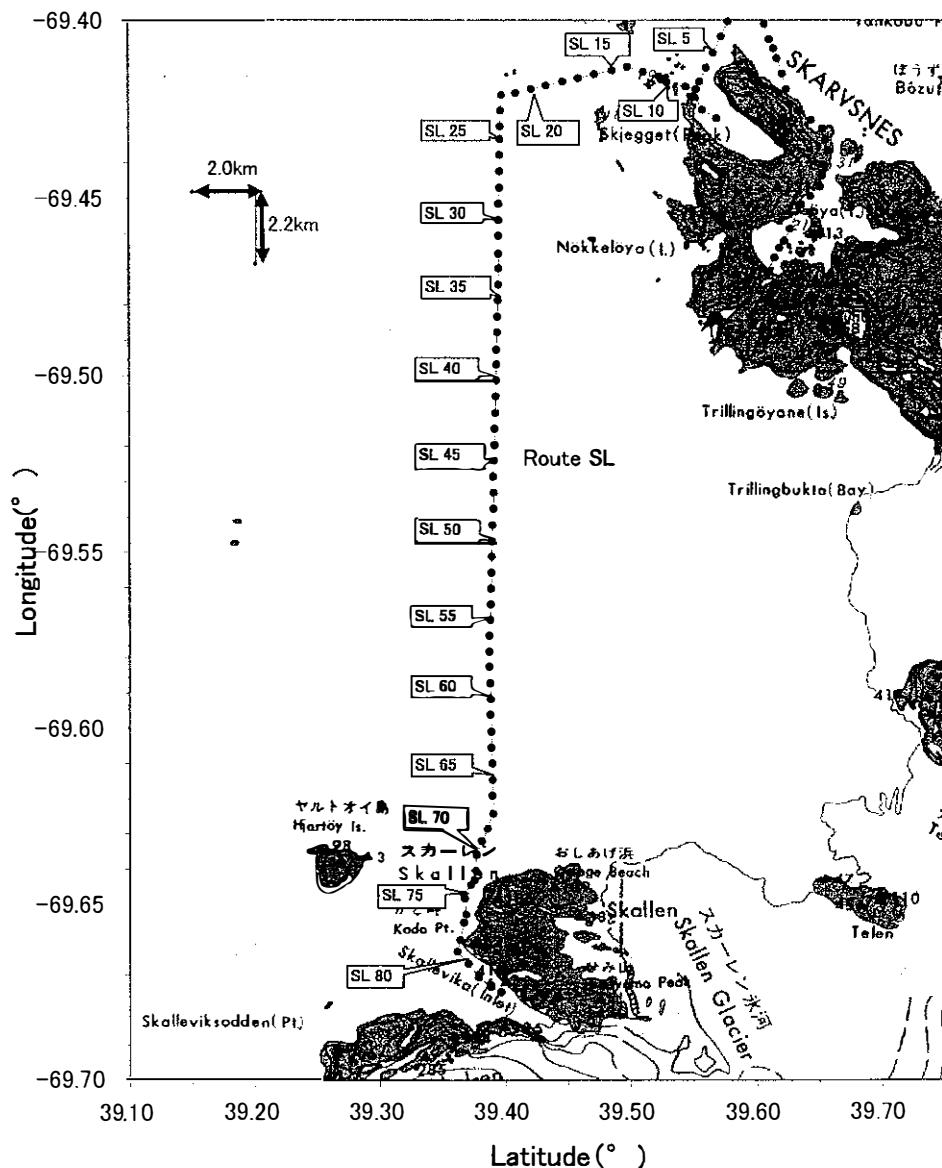


Fig. 5. Map of traverse route along the Sôya Coast (Part 4).

Table 1. Position of the traverse routes traced by JARE-43.

Route N(To Nishi-ongul Is.)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
N0	69 00.157	39 35.126	0.35
N1	69 00.073	39 35.364	0.56
N2	68 59.976	39 34.961	0.64
N3	68 59.917	39 34.673	0.76
N4	69 00.004	39 34.370	0.67
N5	69 00.055	39 34.195	0.67
N6	69 00.072	39 34.073	0.70
N7	69 00.083	39 33.599	0.95
N8	69 00.091	39 33.259	1.15
N9	69 00.103	39 32.782	1.15
N10	69 00.113	39 32.390	1.70
N11	69 00.121	39 32.038	1.92
N12/R0	69 00.192	39 31.589	2.20
N13	69 00.301	39 31.322	2.37
N14	69 00.435	39 31.031	2.57
N15	69 00.559	39 30.760	2.78
N16	69 00.689	39 30.459	3.02
N17	69 00.815	39 30.198	3.25

Route L(To Mukaiwa)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
N0	69 00.157	39 35.123	0.35
T1	69 00.148	39 35.264	0.45
T2	69 00.161	39 35.445	0.57
T3	69 00.175	39 35.624	0.69
L0/T4	69 00.144	39 35.822	0.84
L1	69 00.150	39 36.292	1.15
L2	69 00.158	39 36.755	4.46
L3	69 00.157	39 37.198	1.76
L4	69 00.172	39 37.672	2.07
L5	69 00.155	39 38.150	2.39
L6	69 00.278	39 38.418	2.68
L7	69 00.412	39 38.718	3.01
L8	69 00.544	39 39.027	3.33
L9	69 00.669	39 39.310	3.63
L10	69 00.794	39 39.621	3.93
L11	69 00.934	39 39.919	4.27
L12	69 01.075	39 39.867	4.52
L13	69 01.246	39 39.868	4.85
L14	69 01.417	39 39.844	5.16
L15	69 01.592	39 39.837	5.49
L16	69 01.739	39 39.851	5.92
L17	69 01.823	39 39.852	6.36
L18	69 01.985	39 39.862	6.66
L19	69 02.142	39 39.860	6.95
L20	69 02.303	39 39.838	7.25
L21	69 02.357	39 39.833	7.35

Route OK(To Ongulkalven Is.)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
R10/OK0	69 01.055	39 28.290	4.60
OK1	69 01.104	39 27.494	5.13
OK2	69 01.148	39 26.884	5.54

Route R(To Rumpa Is.)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
N12/R0	69 00.192	39 31.589	2.20
R1	69 00.197	39 31.123	2.51
R2	69 00.215	39 30.632	2.63
R3	69 00.225	39 30.315	3.04
R4	69 00.232	39 30.013	3.24
R5	69 00.337	39 29.598	3.52
R6	69 00.425	39 29.205	3.78
R7	69 00.579	39 28.973	3.96
R8	69 00.759	39 28.718	4.18
R9	69 00.907	39 28.495	4.39
R10/OK0	69 01.055	39 28.290	4.60
R11	69 01.294	39 27.904	4.99
R12	69 01.353	39 28.155	4.87
R13	69 01.496	39 28.071	5.03
R14	69 01.714	39 27.928	5.30
R15/BT0	69 02.067	39 27.684	5.79
R16	69 02.343	39 27.465	6.21
R17	69 02.623	39 27.246	6.65
R18	69 02.903	39 27.074	7.09
R19	69 03.192	39 26.888	7.54
R20	69 03.474	39 26.723	7.99
R21	69 03.760	39 26.553	8.47
R22	69 04.036	39 26.412	8.92
R23	69 04.323	39 26.266	9.40
R24	69 04.595	39 26.125	9.86
R25	69 04.877	39 25.973	10.34
R26	69 05.169	39 25.810	10.85
R27	69 05.457	39 25.664	11.35
R28	69 05.744	39 25.507	11.86
R29	69 06.035	39 25.360	12.37
R30	69 06.312	39 25.218	12.86
R31/RL0	69 06.604	39 25.070	13.36
R32	69 06.893	39 24.919	13.81
R33	69 07.174	39 24.769	14.41
R34	69 07.462	39 24.612	14.94
R35	69 07.743	39 24.500	15.44
R36	69 08.058	39 24.541	15.95
R37	69 08.218	39 24.514	16.23
R38	69 08.294	39 24.302	16.41
R39	69 08.419	39 23.955	16.72

Route RL(To Langhovde)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
RL1/RL0	69° 06.604'	39° 25.070'	13.36
RL1	69° 06.788'	39° 25.652'	13.51
RL2	69° 06.976'	39° 26.235'	13.65
RL3	69° 07.161'	39° 26.797'	13.81
RL4	69° 07.341'	39° 27.372'	13.98
RL5	69° 07.518'	39° 27.958'	14.16
RL6	69° 07.714'	39° 28.519'	14.39
RL7	69° 07.771'	39° 28.633'	14.47
RL8	69° 07.864'	39° 29.027'	14.56
RL9	69° 08.044'	39° 29.803'	14.79
RL10	69° 08.232'	39° 30.181'	15.04
RL11	69° 08.439'	39° 30.669'	15.36
RL12	69° 08.656'	39° 31.140'	15.70
RL13	69° 08.869'	39° 31.615'	16.05
RL14	69° 09.097'	39° 32.121'	16.43
RL15	69° 09.301'	39° 32.559'	16.78
RL16	69° 09.513'	39° 33.019'	17.15
RL17	69° 09.734'	39° 33.513'	17.54
RL18	69° 09.946'	39° 33.972'	17.92
RL19	69° 10.055'	39° 34.206'	18.12
RL20	69° 10.233'	39° 34.110'	18.45
RL21	69° 10.510'	39° 34.192'	18.96
RL22	69° 10.789'	39° 34.341'	19.48
RL23	69° 11.190'	39° 34.580'	20.22
RL24	69° 11.458'	39° 34.784'	20.72
RL25	69° 11.726'	39° 34.992'	21.22
RL26	69° 11.998'	39° 35.202'	21.73
RL27	69° 12.260'	39° 35.402'	22.21
RL28	69° 12.535'	39° 35.620'	22.73
RL29	69° 12.805'	39° 35.635'	23.23
RL30	69° 13.097'	39° 35.640'	23.77
RL31	69° 13.363'	39° 35.644'	24.27
RL32	69° 13.651'	39° 35.636'	24.82
RL33	69° 13.932'	39° 35.636'	25.33
RL34	69° 14.211'	39° 35.632'	25.85
RL35	69° 14.505'	39° 35.615'	26.39
RL36/YH0	69° 14.777'	39° 35.584'	26.90
RL37	69° 15.062'	39° 35.529'	27.43
RL38	69° 15.358'	39° 35.478'	27.98
RL39/SK0	69° 15.628'	39° 35.445'	28.48
RL40	69° 15.686'	39° 36.197'	28.60
RL41	69° 15.740'	39° 36.926'	28.72
RL42	69° 15.788'	39° 37.700'	28.83
RL43	69° 15.832'	39° 38.443'	28.95
RL44	69° 15.852'	39° 39.254'	29.04
RL45	69° 15.849'	39° 39.976'	29.08
RL46	69° 15.567'	39° 40.288'	28.59
RL47	69° 15.323'	39° 40.548'	28.16
RL48	69° 15.167'	39° 41.095'	27.92
RL49	69° 14.978'	39° 41.686'	27.64
RL50	69° 14.794'	39° 42.256'	27.37
RL51	69° 14.673'	39° 42.706'	27.20

Route YH(To Ytrehovdeholmen Is.)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
RL36/YH0	69° 14.777'	39° 35.584'	26.90
YH1	69° 14.671'	39° 34.715'	26.70
YH2	69° 14.587'	39° 33.981'	26.55
YH3	69° 14.481'	39° 33.240'	26.36
YH4	69° 14.373'	39° 32.519'	26.19
YH5	69° 14.265'	39° 31.793'	26.02
YH6	69° 14.162'	39° 31.067'	25.87
YH7	69° 14.059'	39° 30.335'	25.73
YH8	69° 13.955'	39° 29.599'	25.60
YH9	69° 13.852'	39° 28.880'	25.48
YH10	69° 13.749'	39° 28.142'	25.38
YH11	69° 13.649'	39° 27.420'	25.28
YH12	69° 13.554'	39° 26.700'	25.21
YH13	69° 13.452'	39° 25.959'	25.13
YH14	69° 13.355'	39° 25.225'	25.08

Route SK(To Skarvsnes)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
SK39/SK0	69° 15.628'	39° 35.445'	28.48
SK1	69° 15.901'	39° 35.418'	28.99
SK2	69° 16.165'	39° 35.149'	29.48
SK3	69° 16.335'	39° 34.978'	29.79
SK4	69° 16.572'	39° 34.948'	30.23
SK5	69° 16.849'	39° 34.913'	30.75
SK6	69° 17.106'	39° 34.869'	31.23
SK7	69° 17.366'	39° 34.833'	31.71
SK8	69° 17.644'	39° 34.803'	32.23
SK9	69° 17.907'	39° 34.784'	32.71
SK10	69° 18.178'	39° 34.756'	33.22
SK11	69° 18.454'	39° 34.727'	33.73
SK12	69° 18.727'	39° 34.702'	34.24
SK13	69° 18.998'	39° 34.674'	34.74
SK14	69° 19.266'	39° 34.639'	35.24
SK15	69° 19.538'	39° 34.609'	35.75
SK16	69° 19.811'	39° 34.579'	36.26
SK17	69° 20.084'	39° 34.558'	36.77
SK18	69° 20.361'	39° 34.513'	37.28
SK19	69° 20.630'	39° 34.470'	37.78
SK20/BNO	69° 20.903'	39° 34.418'	38.29
SK21/NKO	69° 21.175'	39° 34.386'	38.80
SK22	69° 21.457'	39° 34.336'	39.32
SK23	69° 21.733'	39° 34.295'	39.83
SK24	69° 21.989'	39° 34.265'	40.31
SK25	69° 22.253'	39° 34.556'	40.80
SK26	69° 22.512'	39° 34.851'	41.28
SK27	69° 22.772'	39° 35.106'	41.76
SK28	69° 23.033'	39° 35.376'	42.25
SK29/SLO	69° 23.298'	39° 35.640'	42.75
SK30	69° 23.547'	39° 35.874'	43.21
SK31	69° 23.804'	39° 36.127'	43.69
SK32	69° 24.066'	39° 36.382'	44.18
SK33	69° 24.324'	39° 36.623'	44.67
SK34	69° 24.477'	39° 36.828'	44.95
SK35	69° 24.642'	39° 36.984'	45.26
SK36	69° 24.902'	39° 37.241'	45.75
SK37	69° 25.165'	39° 37.434'	46.25
SK38	69° 25.417'	39° 37.623'	46.72
SK39	69° 25.529'	39° 38.028'	46.94
SK40	69° 25.685'	39° 38.627'	47.25
SK41	69° 25.828'	39° 39.176'	47.53
SK42	69° 26.017'	39° 39.318'	47.89
SK43	69° 26.199'	39° 39.451'	48.23
SK44	69° 26.442'	39° 39.295'	48.68
SK45	69° 26.617'	39° 39.174'	49.00
SK46	69° 26.810'	39° 39.049'	49.35
SK47	69° 26.967'	39° 38.591'	49.63
SK48	69° 27.115'	39° 38.151'	49.89
SK49	69° 27.525'	39° 37.600'	50.64
SK50	69° 27.725'	39° 37.326'	51.00
SK51	69° 27.837'	39° 37.101'	51.21
SK52	69° 28.010'	39° 36.865'	51.52
SK53	69° 28.245'	39° 36.535'	51.96

Route NK(To Nokkelholmane Is.)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
SK21/NKO	69° 21.175'	39° 34.386'	38.80
NK1	69° 21.338'	39° 33.573'	39.11
NK2	69° 21.488'	39° 33.011'	39.40
NK3	69° 21.633'	39° 32.374'	39.68
NK4	69° 21.746'	39° 31.627'	39.91
NK5	69° 21.938'	39° 31.036'	40.29
NK6	69° 22.110'	39° 30.334'	40.64
NK7	69° 22.265'	39° 29.660'	40.97
NK8	69° 22.404'	39° 28.994'	41.26
NK9	69° 22.557'	39° 28.337'	41.59
NK10	69° 22.699'	39° 27.670'	41.90

Route SL(To Skallen) Part1

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
SK29/SL0	69° 23.298'	39° 35.640'	42.75
SL1	69° 23.533'	39° 35.329'	43.18
SL2	69° 23.783'	39° 34.989'	43.64
SL3	69° 24.023'	39° 34.655'	44.09
SL4	69° 24.276'	39° 34.315'	44.56
SL5	69° 24.550'	39° 33.932'	45.08
SL6	69° 24.803'	39° 33.599'	45.55
SL7	69° 25.035'	39° 33.290'	45.99
SL8/SG0	69° 25.163'	39° 33.131'	46.23
SL9	69° 25.120'	39° 32.631'	46.16
SL10	69° 25.043'	39° 31.744'	46.04
SL11	69° 24.997'	39° 31.492'	45.96
SL12	69° 24.951'	39° 31.390'	45.88
SL13	69° 24.868'	39° 30.622'	45.75
SL14	69° 24.784'	39° 29.865'	45.63
SL15	69° 24.844'	39° 29.147'	45.78
SL16	69° 24.910'	39° 28.294'	45.95
SL17	69° 24.977'	39° 27.524'	46.12
SL18	69° 25.037'	39° 26.781'	46.29
SL19	69° 25.103'	39° 25.986'	46.47
SL20	69° 25.160'	39° 25.279'	46.64
SL21	69° 25.227'	39° 24.523'	46.83
SL22	69° 25.264'	39° 23.837'	46.97
SL23	69° 25.523'	39° 23.793'	47.45
SL24	69° 25.792'	39° 23.769'	47.95
SL25	69° 26.004'	39° 23.762'	48.34
SL26	69° 26.271'	39° 23.753'	48.83
SL27	69° 26.550'	39° 23.751'	49.34
SL28	69° 26.825'	39° 23.735'	49.85
SL29	69° 27.089'	39° 23.726'	50.33
SL30	69° 27.361'	39° 23.724'	50.83
SL31	69° 27.634'	39° 23.710'	51.34
SL32	69° 27.920'	39° 23.704'	51.87
SL33	69° 28.183'	39° 23.691'	52.35
SL34	69° 28.462'	39° 23.679'	52.87
SL35	69° 28.726'	39° 23.664'	53.35
SL36	69° 29.004'	39° 23.654'	53.87
SL37	69° 29.270'	39° 23.631'	54.36
SL38	69° 29.549'	39° 23.615'	54.88
SL39	69° 29.819'	39° 23.597'	55.37
SL40	69° 30.087'	39° 23.584'	55.87
SL41	69° 30.356'	39° 23.559'	56.37
SL42	69° 30.641'	39° 23.540'	56.89
SL43	69° 30.899'	39° 23.526'	57.37
SL44	69° 31.179'	39° 23.513'	57.89
SL45	69° 31.447'	39° 23.490'	58.39
SL46	69° 31.727'	39° 23.472'	58.90
SL47	69° 31.992'	39° 23.450'	59.39
SL48	69° 32.269'	39° 23.428'	59.91
SL49	69° 32.532'	39° 23.407'	60.39
SL50	69° 32.807'	39° 23.383'	60.90
SL51	69° 33.083'	39° 23.364'	61.41
SL52	69° 33.356'	39° 23.348'	61.92
SL53	69° 33.624'	39° 23.328'	62.42
SL54	69° 33.901'	39° 23.306'	62.93
SL55	69° 34.167'	39° 23.284'	63.42
SL56	69° 34.428'	39° 23.266'	63.90
SL57	69° 34.705'	39° 23.273'	64.42
SL58	69° 34.967'	39° 23.21'	64.90
SL59	69° 35.244'	39° 23.285'	65.41
SL60	69° 35.514'	39° 23.302'	65.91
SL61	69° 35.788'	39° 23.310'	66.41
SL62	69° 36.062'	39° 23.331'	66.92
SL63	69° 36.343'	39° 23.346'	67.44
SL64	69° 36.606'	39° 23.372'	67.92
SL65	69° 36.888'	39° 23.381'	68.44
SL66	69° 37.161'	39° 23.402'	68.94
SL67	69° 37.438'	39° 23.425'	69.45
SL68	69° 37.689'	39° 23.151'	69.94

continue

Route SL(To Skallen) Part2

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
SL69	69° 37.943'	39° 22.876'	70.43
SL70	69° 38.177'	39° 22.621'	70.88
SL71	69° 38.440'	39° 22.556'	71.37
SL72	69° 38.594'	39° 22.519'	71.66
SL73	69° 38.679'	39° 22.342'	71.83
SL74	69° 38.842'	39° 21.998'	72.15
SL75	69° 38.907'	39° 22.043'	72.27
SL76	69° 39.178'	39° 22.107'	72.77
SL77	69° 39.336'	39° 22.005'	73.07
SL78	69° 39.514'	39° 21.819'	73.59
SL79	69° 39.813'	39° 21.693'	73.97
SL80	69° 40.020'	39° 22.225'	74.31
SL81	69° 40.249'	39° 22.714'	74.70
SL82	69° 40.418'	39° 23.301'	74.97
SL83	69° 40.503'	39° 23.786'	75.10

Route SG(To Langpollen)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
SL8/SG0	69° 25.163'	39° 33.131'	46.23
SG1	69° 25.281'	39° 33.048'	46.45
SG2	69° 25.507'	39° 33.436'	46.87
SG3	69° 25.655'	39° 34.113'	47.13

Route BT(To Benten Is.)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
R15/BT0	69° 02.067'	39° 27.684'	5.79
BT1	69° 02.083'	39° 26.905'	6.26
BT2	69° 02.104'	39° 26.136'	6.70
BT3	69° 02.140'	39° 25.366'	7.18
BT4	69° 02.170'	39° 24.619'	7.65
BT5	69° 02.202'	39° 23.873'	8.12
BT6	69° 02.237'	39° 23.087'	8.63
BT7	69° 02.267'	39° 22.369'	9.09
BT8	69° 02.298'	39° 21.600'	9.58
BT9	69° 02.330'	39° 20.865'	10.06
BT10	69° 02.359'	39° 20.106'	10.55
BT11	69° 02.388'	39° 19.359'	11.03
BT12	69° 02.414'	39° 18.590'	11.53
BT13	69° 02.443'	39° 17.859'	12.01
BT14	69° 02.471'	39° 17.085'	12.51
BT15	69° 02.488'	39° 16.338'	12.99
BT16	69° 02.515'	39° 15.576'	13.49
BT17	69° 02.561'	39° 14.688'	14.08

Route BN(To Breidvognipa)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
SK20/BN0	69° 20.903'	39° 34.418'	38.29
BN1	69° 20.871'	39° 35.917'	38.23
BN2	69° 20.848'	39° 37.462'	38.22
BN3	69° 20.826'	39° 39.063'	38.25
BN4	69° 20.809'	39° 40.592'	38.30
BN5	69° 20.799'	39° 41.873'	38.38
BN6	69° 20.788'	39° 43.445'	38.49
BN7	69° 20.771'	39° 45.019'	38.63

Route T(To Tottuki Pt.)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
T0	69° 00.160'	39° 35.123'	0.34
T1	69° 00.148'	39° 35.264'	0.41
T2	69° 00.161'	39° 35.445'	0.48
T3	69° 00.175'	39° 35.624'	0.57
T4	69° 00.144'	39° 35.822'	0.71
T5	69° 00.125'	39° 35.915'	0.79
T6	69° 00.079'	39° 36.141'	0.96
T7	68° 00.037'	39° 36.349'	1.12
T8	68° 59.996'	39° 36.552'	1.27
T9	68° 59.970'	39° 36.685'	1.37
T10	68° 59.903'	39° 36.986'	1.62
T11	68° 59.857'	39° 37.160'	1.75
T12	68° 59.805'	39° 37.361'	1.92
T13	68° 59.760'	39° 37.535'	2.06
T14	68° 59.699'	39° 37.750'	2.24
T15	68° 59.621'	39° 38.035'	2.48
T16	68° 59.540'	39° 38.362'	2.74
T17	68° 59.466'	39° 38.649'	2.98
T18	68° 59.390'	39° 38.944'	3.22
T19	68° 59.304'	39° 39.271'	3.49
T20	68° 59.215'	39° 39.619'	3.78
T21	68° 59.143'	39° 39.928'	4.02
T22	68° 59.078'	39° 40.030'	4.15
T23	68° 58.922'	39° 40.276'	4.45
T24	68° 58.664'	39° 40.586'	4.90
T25	68° 58.408'	39° 40.906'	5.37
T26	68° 58.153'	39° 41.216'	5.85
T27	68° 57.905'	39° 41.525'	6.32
T28	68° 57.652'	39° 41.847'	6.81
T29	68° 57.413'	39° 42.148'	7.27
T30	68° 57.216'	39° 42.383'	7.65
T31	68° 57.098'	39° 42.547'	7.89
T32	68° 56.916'	39° 42.808'	8.26
T33	68° 56.749'	39° 43.059'	8.60
T34	68° 56.687'	39° 43.268'	8.78
T35	68° 56.585'	39° 43.643'	9.09
T36	68° 56.381'	39° 44.344'	9.68
T37	68° 56.356'	39° 44.447'	9.76
T38	68° 56.272'	39° 44.753'	10.01
T39	68° 56.216'	39° 45.052'	10.22
T40	68° 56.136'	39° 45.431'	10.50
T41	68° 55.955'	39° 45.941'	10.98
T42	68° 55.727'	39° 46.371'	11.49
T43	68° 55.641'	39° 46.540'	11.68
T44	68° 55.513'	39° 46.809'	11.98
T45	68° 55.352'	39° 47.390'	12.46
T46	68° 55.299'	39° 47.603'	12.63
T47	68° 55.220'	39° 47.905'	12.88
T48	68° 55.148'	39° 47.990'	13.02
T49	68° 55.017'	39° 48.291'	13.33
T50	68° 54.938'	39° 48.609'	13.58
T51	68° 54.870'	39° 49.088'	13.89
T52	68° 54.824'	39° 49.400'	14.10
T53	68° 54.771'	39° 49.610'	14.27

Route N.P(To S16)

Point	Latitude(S)	Longitude(E)	Distance from SYOWA St.(km)
N0	68° 54.814'	39° 49.872'	14.33
N1	68° 54.906'	39° 49.924'	14.23
N2	68° 55.008'	39° 49.874'	14.08
N3	68° 55.101'	39° 49.870'	13.95
N4	68° 55.194'	39° 50.208'	14.00
N5	68° 55.238'	39° 50.384'	14.03
N6	68° 55.335'	39° 50.746'	14.09
N7	68° 55.388'	39° 50.891'	14.10
N8	68° 55.587'	39° 51.482'	14.17
N9	68° 55.709'	39° 52.011'	14.31
N10	68° 55.720'	39° 52.570'	14.60
N11	68° 55.715'	39° 52.810'	14.73
N12	68° 55.709'	39° 53.171'	14.94
N13	68° 55.778'	39° 53.365'	14.97
N14	68° 55.846'	39° 53.674'	15.07
N15	68° 55.949'	39° 54.048'	15.17
N16	68° 56.040'	39° 54.320'	15.24
P14	68° 56.166'	39° 54.486'	15.21
P15	68° 56.382'	39° 54.749'	15.17
P16	68° 56.558'	39° 54.755'	15.01
P17	68° 56.810'	39° 54.784'	14.82
P18	68° 57.104'	39° 54.797'	14.59
P19	68° 57.244'	39° 54.784'	14.48
P20	68° 57.435'	39° 54.768'	14.33
P21	68° 57.595'	39° 54.753'	14.21
P22	68° 57.764'	39° 54.733'	14.09
P23	68° 57.990'	39° 54.744'	13.95
P24	68° 58.056'	39° 55.030'	14.10
P25	68° 58.151'	39° 55.422'	14.30
P26	68° 58.238'	39° 55.840'	14.52
P27	68° 58.315'	39° 56.250'	14.75
P28	68° 58.415'	39° 56.685'	14.99
P29	68° 58.496'	39° 57.114'	15.23
P30	68° 58.583'	39° 57.532'	15.47
P31	68° 58.673'	39° 57.940'	15.70
P32	68° 58.779'	39° 58.483'	16.02
P33	68° 58.869'	39° 58.930'	16.28
P34	68° 58.964'	39° 59.338'	16.52
P35	68° 59.116'	39° 59.512'	16.60
P36	68° 59.275'	39° 59.683'	16.67
P37	68° 59.451'	39° 59.734'	16.87
P38	68° 59.638'	39° 59.767'	16.66
P39	68° 59.782'	39° 59.819'	16.68
P40	68° 59.965'	39° 59.890'	16.70
P41	69° 00.189'	39° 59.73'	16.75
P42	69° 00.393'	40° 00.047'	16.79
P43	69° 00.541'	40° 00.356'	17.00
P44	69° 00.674'	40° 00.598'	17.17
P45	69° 00.798'	40° 00.738'	17.27
P46	69° 00.960'	40° 01.046'	17.50
P47	69° 01.141'	40° 01.413'	17.77
P48	69° 01.350'	40° 01.771'	18.04
P49	69° 01.488'	40° 02.105'	18.29
P50	69° 01.629'	40° 02.451'	18.55
S16	69° 01.770'	40° 03.110'	19.02

Table 2. Ice thickness.

SL75	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	136	-	-	-	142	-	-	-	SL75	
SL76-SL79	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	-	-	-	-	-	SL76-SL79	
SL80	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	211	-	-	-	205	-	-	-	SL80	
SL81-SL83	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	-	-	-	-	-	SL81-SL83	
SG1-SG2	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	-	-	-	-	-	SG1-SG2	
SG3	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	>120	-	-	-	-	-	-	-	SG3	
OK1-OK2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	OK1-OK2
BT1-BT2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	BT1-BT2
BT3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	124	-	-	-	-	-	-	-	BT3
BT4-BT5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	BT4-BT5
BT6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	231	-	-	-	-	-	-	-	BT6
BT7-BT8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	BT7-BT8
BT9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	255	-	-	-	-	-	-	-	BT9
BT10-BT11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	BT10-BT11
BT12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	-	-	-	-	-	-	-	BT12
BT13-BT14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	BT13-BT14
BT15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-	BT15
BT16-BT17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	BT16-BT17
YH1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	YH1
YH2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	142	-	-	-	-	-	-	-	YH2
YH3-YH4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	YH3-YH4
YH5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	-	-	-	-	-	-	-	YH5
YH6-YH7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	YH6-YH7
YH8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	154	-	-	-	-	-	-	-	YH8
YH9-YH10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	YH9-YH10
YH11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	229	-	-	-	-	-	-	-	YH11
YH12-YH13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	YH12-YH13
YH14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	187	-	-	-	-	-	-	-	YH14
BN1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214	-	-	-	-	-	-	-	BN1
BN2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	199	-	-	-	-	-	-	-	BN2
BN3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	150	-	-	-	-	-	-	-	BN3
BN4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152	-	-	-	-	-	-	-	BN4
BN5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	147	-	-	-	-	-	-	-	BN5
BN6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	143	-	-	-	-	-	-	-	BN6
BN7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	137	-	-	-	-	-	-	-	BN7
NK1-NK2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	NK1-NK2
NK3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243	-	-	-	-	-	-	-	NK3
NK4-NK5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	NK4-NK5
NK6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	188	-	-	-	-	-	-	-	NK6
NK7-NK8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	NK7-NK8
NK9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	177	-	-	-	-	-	-	-	NK9
NK10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	>120	-	-	-	-	-	-	-	NK10
L10	-	-	59	-	105	-	-	-	-	-	-	-	124	-	-	-	-	-	-	-	-	-	-	-	-	L10	
L11-L12	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L11-L12	
L13	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L13	
L14	-	-	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L14	
L15	-	-	56	-	104	-	-	-	-	-	-	-	126	-	-	-	-	133	-	-	-	-	-	-	-	L15	
L16	-	-	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L16	
L17	-	-	56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	-	-	-	-	-	-	-	L17
L18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	-	-	-	-	-	-	-	L18
L19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	109	-	-	-	-	-	-	-	L19
L20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	-	-	-	-	-	-	-	L20
L21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107	-	-	-	-	-	-	-	L21

unit:cm

Table 3. Stake height.

Route Point	August					September				October			November				Route Point
	17	18	19	20	21	4	5	6	10	6	7	8	5	6	7	24	
N5	-	-	-		-	215	-	-	-	217	202	-	-	197	-	-	204 N5
N10	-	-	-		-	204	206	-	-	-	207	-	-	208	-	-	210 N10
R5	208	-	-		-	-	208	-	-	-	209	-	-	188	-	-	170 R5
R10	201	-	-		-	-	212	-	-	-	212	-	-	213	-	-	215 R10
R15	212	-	-		-	-	223	-	-	-	226	-	-	224	-	-	202 R15
R20	182	-	-		-	-	191	-	-	-	168	-	-	176	-	-	190 R20
R25	174	-	-		-	-	165	-	-	-	129	-	-	129	-	-	131 R25
R30	190	-	-		-	-	194	-	-	-	179	-	-	172	-	-	178 R30
RL 5	190	-	-		-	-	188	-	-	-	140	-	-	145	-	-	148 RL 5
RL10	205	-	-		-	-	206	-	-	-	206	-	-	198	-	-	198 RL 10
RL15	201	-	-		-	-	189	-	-	-	184	-	-	190	-	-	193 RL 15
RL 20	195	-	-		-	-	195	-	-	-	176	-	-	183	-	-	187 RL 20
RL 25	-	195	-		-	-	197	-	-	-	184(NEW)	-	-	174	-	-	165 RL 25
RL30	-	196	-		-	-	192	-	-	-	191	-	-	181	-	-	156 RL30
RL 35	-	185	-		-	-	195	-	-	-	196	-	-	175	-	-	164 RL 35
RL39	-	190	-		-	-	192	-	-	-	197	-	-	199	-	-	191 RL 39
SK 5	-	-	191		-	-	194	-	-	-	-	-	-	195(New)	187	-	167 SK 5
SK6	-	-	190		-	-	-	-	-	-	184	-	-	-	-	-	SK6
SK10	-	-	-	191		-	197	-	-	-	201	-	-	194	-	-	184 SK10
SK15	-	-	-	207		-	210	-	-	-	-	213	-	215	-	-	178 SK15
SK20	-	-	-	195		-	198	-	-	-	-	179	-	182	-	-	183 SK20
SK 25	-	-	-	203		-	207	-	-	-	-	206	-	-	195	-	207 SK 25
SK 29	-	-	-	185		-	187	-	-	-	-	189	-	-	189	-	192 SK 29
SL5	-	-	-		-	201	202	-	-	-	-	199	-	-	-	194	192 SL5
SL10	-	-	-		-	199	-	-	-	-	-	200	-	-	-	184	191 SL10
SL15	-	-	-		-	-	200	-	-	-	-	202	-	-	-	194	194 SL15
SL20	-	-	-		-	-	193	-	-	-	-	196	-	-	-	185	194 SL20
SL25	-	-	-		-	-	196	-	-	-	-	197	-	-	-	185	191 SL25
SL30	-	-	-		-	-	198	-	-	-	-	201	-	-	-	198	193 SL30
SL35	-	-	-		-	-	190	-	-	-	-	190	-	-	-	191	188 SL35
SL40	-	-	-		-	-	188	-	-	-	-	192	-	-	-	184	189 SL40
SL45	-	-	-		-	-	191	-	-	-	-	215	-	-	-	187	189 SL45
SL50	-	-	-		-	-	193	-	-	-	-	195	-	-	-	197	195 SL50
SL55	-	-	-		-	-	191	-	-	-	-	191	-	-	-	192	191 SL55
SL60	-	-	-		-	-	194	-	-	-	-	192	-	-	-	191	192 SL60
SL65	-	-	-		-	-	190	-	-	-	-	191	-	-	-	193	192 SL65
SL70	-	-	-		-	-	198	-	-	-	-	198	-	-	-	198	158 SL70
SL75	-	-	-		-	-	191	-	-	-	-	192	-	-	-	193	- SL75
SL80	-	-	-		-	-	198	-	-	-	-	198	-	-	-	195	- SL80

unit : cm

NEW : Re-installation

Table 4. Snow depth.

Route Point	April		July					August					September			October			November						Route Point	
	22	18	2	3	17	18	19	20	21	22	5	6	26	6	7	8	1	5	6	7	10	20	24			
N5	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	3	-	-	-	-	-	-	13	IN5	
N10	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	12	-	-	-	-	-	-	14	IN10	
R5	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	0	-	-	-	-	-	-	1	R5	
R10	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	3	-	-	-	-	-	-	2	R10	
RL5	-	-	-	0	-	-	-	-	-	-	-	-	0	-	-	-	0	-	-	-	-	-	-	1	RL5	
RL20	-	-	-	0	-	-	-	-	-	-	-	-	25	-	-	-	20	-	-	-	-	-	-	5	RL20	
R25	-	-	-	0	-	-	-	-	-	-	-	-	59	-	-	-	51	-	-	-	-	-	-	53	R25	
R30	-	-	-	0	-	-	-	-	-	-	-	-	22	-	-	-	12	-	-	-	-	-	-	9	R30	
RL5	-	-	-	-	85	-	-	-	-	-	-	-	120	-	-	-	113	-	-	-	-	-	-	122	RL5	
RL10	-	-	-	-	0	-	-	-	-	-	-	-	11	-	-	-	1	-	-	-	-	-	-	1	RL10	
RL15	-	-	-	-	3	-	-	-	-	-	-	-	15	-	-	-	15	-	-	-	-	-	-	9	RL15	
RL20	-	-	-	-	2	-	-	-	-	-	-	-	22	-	-	-	15	-	-	-	-	-	-	10	RL20	
RL25	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	0	-	-	-	-	-	-	0.5	RL25	
RL30	-	-	-	-	-	1	-	-	-	-	-	-	0	-	-	-	0	-	-	-	-	-	-	0.5	RL30	
RL35	-	-	-	-	3	-	-	-	-	-	-	-	0	-	-	-	0	-	-	-	-	-	-	0.5	RL35	
RL39	-	-	-	-	-	1	-	-	-	-	-	-	8	-	-	-	7	-	-	-	-	-	-	1	RL39	
SK5	-	-	-	-	-	7	-	-	-	-	-	-	0	-	-	-	0	-	-	-	-	-	-	1	SK5	
SK6	-	-	-	-	-	7	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	1	SK6	
SK7-SK9	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK 7-SK9		
SK10	-	-	-	-	-	8	-	-	-	-	-	-	2	-	-	-	3	-	-	-	-	-	-	1	SK10	
SK11-SK14	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK11-SK14		
SK15	-	-	-	-	-	6	-	-	-	-	-	-	0	-	-	-	0	-	-	-	-	-	-	1	SK15	
SK16	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK16		
SK17	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK17		
SK18	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK18		
SK19	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK19		
SK20	-	-	-	-	-	4	-	-	-	-	-	-	11	-	-	-	18	-	-	-	-	-	-	24	SK20	
SK21	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK21		
SK22	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK22		
SK23-SK24	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK23-SK24		
SK25	-	-	-	-	-	3	-	-	-	-	-	-	0	-	-	-	6	-	-	-	-	-	-	1	SK25	
SK26	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK26		
SK27	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK27		
SK28	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK28		
SK29	-	-	-	-	-	31	-	-	-	-	-	-	40	-	-	-	27	-	-	-	-	-	-	37	SK29	
SK30	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK30		
SK31	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK31		
SK32	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK32		
SK33	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK33		
SK34	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK34		
SK35	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK35		
SK36	-	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK36		
SK37	-	-	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK37		
SK38	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK38		
SK39	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK39		
SK40	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK40		
SK41-SK42	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK41-SK42		
SK43	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK43		
SK44	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK44		
SK45	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK45		
SK46	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK46		
SK47	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK47		
SK48-SK51	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK48-SK51		
SK52	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK52		
SK53	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SK53		
SL1-SL2	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL1-SL2		
SL3	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL3		
SL4	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL4		
SL5	-	-	-	-	-	4	-	-	-	-	-	-	3	-	-	-	18	-	-	-	-	-	-	2	SL5	
SL6	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL6		
SL7-SL8	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL7-SL8		
SL9	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL9		
SL10	-	-	-	-	-	6	-	-	-	-	-	-	0	-	-	-	15	-	-	-	-	-	-	9	SL10	
SL11-SL12	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL11-SL12		
SL13	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL13		
SL14	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL14		
SL15	-	-	-	-	-	0	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-	10	SL15	
SL16	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL16		
SL17-SL18	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	SL17-SL18		

SL19	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	SL19
SL20	-	-	-	-	-	-	12	+	-	-	6	-	-	16	+	SL20
SL21	-	-	-	-	-	-	14	+	-	-	-	-	-	-	-	SL21
SL22	-	-	-	-	-	-	15	+	-	-	-	-	-	-	-	SL22
SL23-SL24	-	-	-	-	-	-	13	+	-	-	-	-	-	-	-	SL23-SL24
SL25	-	-	-	-	-	-	11	+	-	-	9	+	+	18	+	SL25
SL26	-	-	-	-	-	-	14	+	-	-	-	-	-	-	-	SL26
SL27	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	SL27
SL28	-	-	-	-	-	-	22	-	-	-	-	-	-	-	-	SL28
SL29	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	SL29
SL30	-	-	-	-	-	-	5	-	-	1	-	-	3	-	9	SL30
SL31	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	SL31
SL32	-	-	-	-	-	-	3	+	-	-	-	-	-	-	-	SL32
SL33-SL34	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	SL33-SL34
SL35	-	-	-	-	-	-	4	-	-	1	-	-	12	-	4	SL35
SL36	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	SL36
SL37	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	SL37
SL38	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	SL38
SL39	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	SL39
SL40	-	-	-	-	-	-	3	-	0	-	-	-	7	-	5	SL40
SL41	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	SL41
SL42	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-	SL42
SL43	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	SL43
SL44	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	SL44
SL45	-	-	-	-	-	-	13	-	-	13	-	-	13	-	12	SL45
SL46	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	SL46
SL47	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	SL47
SL48	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	SL48
SL49	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	SL49
SL50	-	-	-	-	-	-	12	-	-	13	-	-	18	-	11	SL50
SL51	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	SL51
SL52	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	SL52
SL53	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	SL53
SL54	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	SL54
SL55	-	-	-	-	-	-	10	-	-	8	-	-	10	-	12	SL55
SL56	-	-	-	-	-	-	17	-	-	-	-	-	-	-	-	SL56
SL57	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	SL57
SL58	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	SL58
SL59	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	SL59
SL60	-	-	-	-	-	-	7	-	8	-	-	11	-	9	SL60	
SL61	-	-	-	-	-	-	21	-	-	-	-	-	-	-	-	SL61
SL62	-	-	-	-	-	-	32	-	-	-	-	-	-	-	-	SL62
SL63	-	-	-	-	-	-	28	-	-	-	-	-	-	-	-	SL63
SL64	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	SL64
SL65	-	-	-	-	-	-	0	-	0	-	-	10	-	1	SL65	
SL66	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	SL66
SL67	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	SL67
SL68	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	SL68
SL69	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	SL69
SL70	-	-	-	-	-	-	0	-	0	-	0	-	0	-	1	SL70
SL71	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	SL71
SL72	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-	SL72
SL73	-	-	-	-	-	-	22	-	-	-	-	-	-	-	-	SL73
SL74	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	SL74
SL75	-	-	-	-	-	-	1	-	0	-	-	0	-	-	-	SL75
SL76-SL77	-	-	-	-	-	-	0	-	-	-	-	-	-	-	-	SL76-SL77
SL78	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	SL78
SL79	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	SL79
SL80	-	-	-	-	-	-	0	-	0	-	-	6	-	-	-	SL80
SL81	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	SL81
SL82	-	-	-	-	-	-	18	-	-	-	-	-	-	-	-	SL82
SL83	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	SL83
OK1	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	OK1
OK2	-	-	-	-	-	-	-	-	-	-	0	-	-	-	-	OK2
BT1	-	-	-	-	-	-	-	-	-	-	51	-	-	-	-	BT1
BT2-BT3	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	BT2-BT3
BT4	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	BT4
BT5	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	BT5
BT6	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	BT6
BT7	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	BT7
BT8	-	-	-	-	-	-	-	-	-	-	30	-	-	-	-	BT8
BT9	-	-	-	-	-	-	-	-	-	-	21	-	-	-	-	BT9
BT10	-	-	-	-	-	-	-	-	-	-	39	-	-	-	-	BT10

BT11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BT11	
BT12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BT12	
BT13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BT13	
BT14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	-	-	-	BT14	
BT15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49	-	-	-	BT15	
BT16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	BT16	
BT17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	BT17	
YH1-YH6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	YH1-YH6	
YH7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	YH7	
YH8-YH14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	YH8-YH14	
BN1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	BN1	
BN2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	BN2	
BN3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	-	-	BN3	
BN4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	BN4	
BN5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	BN5	
BN6-BN7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	BN6-BN7	
NK3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51	-	-	-	NK3	
NK6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-	-	NK6	
NK9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	NK9	
L10	5	0	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	13	-	L10	
L11	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L11	
L12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L12	
L13	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L13	
L14	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	L14	
L15	5	0	-	-	-	-	-	-	10	-	-	0	-	-	-	-	-	-	1	L15	
L16	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	L16	
L17	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	L17	
L18	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	18	-	L18
L19	-	-	-	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	6	-	L19
L20	-	-	-	-	-	-	-	-	-	-	-	51	-	-	-	-	-	-	3	-	L20
L21	-	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	12	-	L21

unit : cm

Table 5. Air temperature.

Route Point	October			November				Route Point
	6	7	8	5	6	7	10	
N5	-7.3	-	-	-11.3	-	-	-	N5
N10	-7.9	-	-	-12.9	-	-	-	N10
R5	-7.0	-	-	-11.7	-	-	-	R5
R10	-6.0	-	-	-13.2	-	-	-	R10
R15	-7.8	-	-	-11.0	-	-	-	R15
R20	-6.7	-	-	-12.6	-	-	-	R20
R25	-6.0	-	-	-9.2	-	-	-	R25
R30	-5.5	-	-	-10.2	-	-	-	R30
RL5	-7.3	-	-	-9.9	-	-	-	RL5
RL10	-7.2	-	-	-7.5	-	-	-	RL10
RL15	-6.2	-	-	-7.2	-	-	-	RL15
RL20	-7.4	-	-	-8.1	-	-	-	RL20
RL25	-6.1	-	-	-7.6	-	-	-	RL25
RL30	-6.8	-	-	-7.6	-	-	-	RL30
RL35	-7.5	-	-	-8.2	-	-	-	RL35
RL39	-7.4	-	-	-8.1	-	-	-	RL39
SK5	-	-	-8.3	-8.0	-	-	-	SK5
SK6	-7.6	-	-	-	-	-	-	SK6
SK10	-9.6	-	-	-8.4	-	-	-	SK10
SK15	-	-10.5	-	-8.3	-	-	-	SK15
SK20	-	-10.5	-	-9.5	-	-	-	SK20
SK25	-	-8.6	-	-	-8.6	-	-	SK25
SK29	-	-7.0	-	-	-8.4	-	-	SK29
SL5	-	-6.1	-	-	-	-12.3	-	SL5
SL10	-	-6.2	-	-	-	-13.2	-	SL10
SL15	-	-10.0	-	-	-	-11.7	-	SL15
SL20	-	-8.9	-	-	-	-11.9	-	SL20
SL25	-	-8.5	-	-	-	-9.6	-	SL25
SL30	-	-11.9	-	-	-	-9.0	-	SL30
SL35	-	-12.1	-	-	-	-8.1	-	SL35
SL40	-	-12.5	-	-	-	-7.8	-	SL40
SL45	-	-12.3	-	-	-	-7.2	-	SL45
SL50	-	-12.0	-	-	-	-6.7	-	SL50
SL55	-	-12.0	-	-	-	-6.4	-	SL55
SL60	-	-	-10.0	-	-	-5.0	-	SL60
SL65	-	-	-8.6	-	-	-5.8	-	SL65
SL70	-	-	-7.9	-	-	-4.2	-	SL70
SL75	-	-	-8.5	-	-	-4.6	-	SL75
SL80	-	-	-8.0	-	-	-4.0	-	SL80
YH2	-	-	-	-	-	-	-3.1	YH2
YH5	-	-	-	-	-	-	-2.7	YH5
YH8	-	-	-	-	-	-	-2.8	YH8
YH11	-	-	-	-	-	-	-3.4	YH11
YH14	-	-	-	-	-	-	-3.6	YH14
BN1	-	-	-	-	-10.8	-	-	BN1
BN2	-	-	-	-	-9.3	-	-	BN2
BN3	-	-	-	-	-8.7	-	-	BN3
BN4	-	-	-	-	-8.3	-	-	BN4
BN5	-	-	-	-	-7.2	-	-	BN5
BN6	-	-	-	-	-7.3	-	-	BN6
BN7	-	-	-	-	-7.6	-	-	BN7
NK3	-	-	-	-	-6.9	-	-	NK3
NK6	-	-	-	-	-7.9	-	-	NK6
NK9	-	-	-	-	-7.1	-	-	NK9

Table 6. Ice temperature (10 cm below ice surface).

Route Point	October			November			Route Point	
	6	7	8	5	6	7	10	
N5	-7.1	-	-	-5.2	-	-	-	N5
N10	-7.0	-	-	-9.0	-	-	-	N10
R5	-6.8	-	-	-3.2	-	-	-	R5
R10	-7.0	-	-	-10.4	-	-	-	R10
R15	-6.8	-	-	-4.7	-	-	-	R15
R20	-6.0	-	-	-8.0	-	-	-	R20
R25	-4.6	-	-	-6.7	-	-	-	R25
R30	-5.7	-	-	-10.8	-	-	-	R30
RL5	-8.0	-	-	-5.8	-	-	-	RL5
RL10	-7.3	-	-	-2.3	-	-	-	RL10
RL15	-7.2	-	-	-7.4	-	-	-	RL15
RL20	-6.3	-	-	-7.0	-	-	-	RL20
RL25	-5.8	-	-	-3.0	-	-	-	RL25
RL30	-6.1	-	-	-2.5	-	-	-	RL30
RL35	-7.5	-	-	-2.1	-	-	-	RL35
RL39	-8.6	-	-	-6.6	-	-	-	RL39
SK5	-	-	-7.5	-3.5	-	-	-	SK5
SK6	-7.0	-	-	-	-	-	-	SK6
SK10	-9.3	-	-	-6.0	-	-	-	SK10
SK15	-	-10.7	-	-3.4	-	-	-	SK15
SK20	-	-11.2	-	-6.3	-	-	-	SK20
SK25	-	-7.6	-	-	-6.8	-	-	SK25
SK29	-	-5.5	-	-	-7.3	-	-	SK29
SL5	-	-4.8	-	-	-	-	7.0	SL5
SL10	-	-4.1	-	-	7.0	0.8	-	SL10
SL15	-	-4.0	-	-	8.0	0.9	-	SL15
SL20	-	-5.5	-	-	-	-	7.0	SL20
SL25	-	-4.7	-	-	7.0	0.5	-	SL25
SL30	-	-5.9	-	-	8.0	0.7	-	SL30
SL35	-	-6.0	-	-	7.0	0.8	-	SL35
SL40	-	-8.9	-	-	7.0	0.8	-	SL40
SL45	-	-9.0	-	-	8.0	0.1	-	SL45
SL50	-	-8.3	-	-	8.0	0.3	-	SL50
SL55	-	-8.8	-	-	7.0	0.2	-	SL55
SL60	-	-	-9.1	-	-	-	7.0	SL60
SL65	-	-	-7.8	-	6.0	0.4	-	SL65
SL70	-	-	-6.1	-	0.0	0.4	-	SL70
SL75	-	-	-5.2	-	0.0	0.8	-	SL75
SL80	-	-	-6.7	-	5.0	0.3	-	SL80
YH2	-	-	-	-	-	-	-0.9	YH2
YH5	-	-	-	-	-	-	0.5	YH5
YH8	-	-	-	-	-	-	1.0	YH8
YH11	-	-	-	-	-	-	-1.0	YH11
YH14	-	-	-	-	-	-	0.9	YH14
BN1	-	-	-	-	-9.6	-	-	BN1
BN2	-	-	-	-	-7.8	-	-	BN2
BN3	-	-	-	-	-6.9	-	-	BN3
BN4	-	-	-	-	-5.2	-	-	BN4
BN5	-	-	-	-	-7.6	-	-	BN5
BN6	-	-	-	-	-5.5	-	-	BN6
BN7	-	-	-	-	-3.5	-	-	BN7
NK3	-	-	-	-	-6.2	-	-	NK3
NK6	-	-	-	-	-0.6	-	-	NK6
NK9	-	-	-	-	-6.9	-	-	NK9

Table 7. Ice temperature (50 cm below ice surface).

Route Point	October				November			Route Point
	6	7	8	5	6	7	10	
N5	-7.1	-	-	-4.7	-	-	-	N5
N10	-7.2	-	-	-6.5	-	-	-	N10
R5	-6.1	-	-	-2.1	-	-	-	R5
R10	-7.1	-	-	-6.8	-	-	-	R10
R15	-6.9	-	-	-2.1	-	-	-	R15
R20	-5.9	-	-	-5.3	-	-	-	R20
R25	-5.0	-	-	-6.0	-	-	-	R25
R30	-6.1	-	-	-8.0	-	-	-	R30
RL5	-8.0	-	-	-6.0	-	-	-	RL5
RL10	-8.6	-	-	-2.0	-	-	-	RL10
RL15	-8.0	-	-	-6.3	-	-	-	RL15
RL20	-5.2	-	-	-5.7	-	-	-	RL20
RL25	-7.6	-	-	-2.4	-	-	-	RL25
RL30	-7.2	-	-	-2.4	-	-	-	RL30
RL35	-7.7	-	-	-2.6	-	-	-	RL35
RL39	-9.0	-	-	-6.2	-	-	-	RL39
SK5	-	-	-	-6.3	-2.3	-	-	SK5
SK6	-8.0	-	-	-	-	-	-	SK6
SK10	-9.7	-	-	-5.5	-	-	-	SK10
SK15	-	-10.0	-	-2.4	-	-	-	SK15
SK20	-	-9.7	-	-8.0	-	-	-	SK20
SK25	-	-7.1	-	-	-5.4	-	-	SK25
SK29	-	-7.5	-	-	-6.2	-	-	SK29
SL5	-	-6.4	-	-	-	-5.9	-	SL5
SL10	-	-6.8	-	-	-	-5.9	-	SL10
SL15	-	-6.3	-	-	-	-7.2	-	SL15
SL20	-	-4.3	-	-	-	-6.3	-	SL20
SL25	-	-7.6	-	-	-	-5.7	-	SL25
SL30	-	-6.7	-	-	-	-7.1	-	SL30
SL35	-	-9.1	-	-	-	-6.9	-	SL35
SL40	-	-8.0	-	-	-	-7.1	-	SL40
SL45	-	-9.3	-	-	-	-7.5	-	SL45
SL50	-	-10.1	-	-	-	-8.1	-	SL50
SL55	-	-9.8	-	-	-	-8.2	-	SL55
SL60	-	-	-9.5	-	-	-7.5	-	SL60
SL65	-	-	-8.9	-	-	-5.5	-	SL65
SL70	-	-	-5.8	-	-	-0.4	-	SL70
SL75	-	-	-6.8	-	-	-3.3	-	SL75
SL80	-	-	-7.2	-	-	-5.9	-	SL80
YH2	-	-	-	-	-	-	-3.4	YH2
YH5	-	-	-	-	-	-	-2.7	YH5
YH8	-	-	-	-	-	-	-1.4	YH8
YH11	-	-	-	-	-	-	-4.0	YH11
YH14	-	-	-	-	-	-	-2.4	YH14
BN1	-	-	-	-	-8.2	-	-	BN1
BN2	-	-	-	-	-6.8	-	-	BN2
BN3	-	-	-	-	-5.7	-	-	BN3
BN4	-	-	-	-	-3.3	-	-	BN4
BN5	-	-	-	-	-6.3	-	-	BN5
BN6	-	-	-	-	-4.0	-	-	BN6
BN7	-	-	-	-	-1.8	-	-	BN7
NK3	-	-	-	-	-4.6	-	-	NK3
NK6	-	-	-	-	-1.0	-	-	NK6
NK9	-	-	-	-	-6.7	-	-	NK9

Table 8. Sea water temperature.

Route Point	November 24
RL39	-1.0
SK5	-1.4
SK10	-1.7
SK15	-1.6
SK20	-1.9
SK25	-1.7
SK29	-1.8
SL5	-1.7
SL10	-1.8
SL15	-1.7
SL20	-1.8
SL25	-1.7
SL30	-1.8
SL35	-1.9
SL40	-1.9
SL45	-1.8
SL50	-2.0
SL55	-1.9
SL60	-1.6
SL65	-1.7
SL70	-1.3

Unit : °C

Table 9. Daily summaries at SL55 on the sea ice.

Month	Day	Pstn hPa	Tm °C	Tx °C	Tn °C	H %	Vm m/s	Vx m/s	Gust m/s
9	6	986.6	-26.5	-19.2	-33.7	63	1.1	4.9	6
	7	989.1	-28.6	-22.4	-34.7	69	0.3	2.5	4.9
	8	994.7	-22.9	-19.2	-26.3	64	1.6	3.5	4.4
	9	1004.9	-31	-23.3	-35	63	0.8	2.9	3.5
	10	1000.1	-24.9	-19.9	-34.1	57	1.4	5.2	7.9
	11	991.2	-14.4	-8	-22.5	82	3.7	14.6	19.8
	12	988.7	-7.9	-5.8	-9.6	71	8.7	14	18.5
	13	985.5	-13.9	-7.3	-19.3	74	3.6	7.5	11.1
	14	992.5	-16.7	-14.7	-19.4	77	2.1	6.6	8.5
	15	970.2	-10.5	-7.6	-16.9	79	18.8	29.7	41.6
	16	978.1	-10.8	-8.1	-12.6	64	11.9	21.8	30.5
	17	980.5	-19.2	-12	-27.7	75	1	3.9	5.6
	18	981.3	-25.4	-19.1	-29.1	70	0.1	1.9	3.2
	19	985.1	-18.1	-13.4	-24	76	0.4	2.6	12.5
	20	980.7	-18.3	-13	-24.2	75	1.1	2.9	3.8
	21	980.1	-22.9	-19	-27.1	66	1.1	4.4	5.8
	22	979.8	-19.1	-13.7	-24.9	67	1.7	3.9	5.2
	23	990.4	-11.7	-6	-19.2	51	4.8	11.4	17.8
	24	994.1	-17.4	-12.7	-22.5	63	2	5	7.5
	25	994.5	-24.4	-17.8	-29.5	70	0.3	2.2	3
	26	998.8	-23.8	-18.1	-28.4	75	0.5	2.5	3.5
	27	998.2	-25.1	-20	-30.6	76	0	2	2.6
	28	983.9	-12.8	-6	-22.6	69	2.6	10.5	16
	29	983.7	-9.9	-5.5	-14.3	81	3.3	8.4	11.9
	30	989.4	-18.4	-11.7	-27	70	1.7	5	6.4
10	1	995	-27.1	-20.8	-34.1	69	0.2	2.1	2.7
	2	1005.1	-29.5	-19.3	-35.6	68	0.1	2.3	3
	3	998.8	-24.1	-13.8	-35.5	63	1.4	3.7	5.9
	4	997.9	-17	-8.1	-25.7	54	2.2	6	10
	5	996.9	-14.8	-9.8	-23.7	58	9.8	19.4	30
	6	994.5	-10.3	-7.8	-12.1	50	16.5	19.1	29
	7	1005.5	-11.7	-11	-12.2	75	4.9	16.2	23.5
	8	1004.5	-10.9	-8.1	-15.5	76	1.3	2.4	4.2
	9	994.5	-14.5	-9.3	-17.7	75	1.5	2.9	3.6
	10	993.5	-14.6	-10.6	-19.7	72	1.6	3.1	4
	11	1006.7	-17.6	-10.3	-24.4	72	0.8	3	3.7
	12	999.7	-15.1	-10.5	-20.2	72	1.8	4	5.1
	13	999.5	-7	-4.1	-11	73	2.4	5.9	8.9
	14	996	-7	-3	-12.1	75	2.1	6.7	9.8
	15	990.2	-8.2	-5.5	-11.1	85	2.4	4.9	6.7
	16	992.3	-12.8	-8.1	-23.9	86	1.9	5.2	6.7
	17	995.1	-15	-8.5	-20.7	82	0.6	2.5	3
	18	992.7	-9	-2.6	-18.5	73	2.2	4.4	7.7
	19	987.1	-8.7	-3.4	-13.4	65	2.8	6.3	9.1
	20	984.3	-8.3	-5.7	-12.7	58	7	13.1	20.6
	21	982.5	-13.4	-7.2	-20.3	61	2.6	11.7	18.2
	22	983.7	-16.3	-7.8	-21.7	65	1.4	2.8	3.9
	23	997.2	-17	-10.2	-24	70	1.1	2.2	2.6
	24	996.6	-17.1	-5	-26.6	69	1	4.3	5.2
	25	990.7	-10	-6.7	-13	67	2.5	6.2	9.7
	26	988.8	-10.9	-7.4	-15.9	67	2.5	6.3	9.9
	27	987.9	-9.9	0.2	-14.6	67	1.7	4.4	6.4
	28	992.3	-12.8	-8	-22.3	66	1.7	4.1	6
	29	997.7	-14.8	-8.3	-21.9	70	1	2	2.6
	30	996.4	-10.5	-2.5	-20.1	70	1.6	4.9	6.1
	31	997.7	-9.7	-5.1	-17.2	69	2	5.2	6.9
11	1	994.2	-15.1	-4.8	-22.7	73	1.5	4.2	5.2
	2	999.1	-15.9	-8.6	-25.2	72	1	3.1	4
	3	999.7	-14.5	-3.6	-24.3	71	0.9	3.3	4.1
	4	998.5	-15.5	-6.9	-22.4	76	0.8	2.5	3.2
	5	1000.1	-13.8	0.8	-22.8	75	0.6	2.9	4

Table 10. Hourly surface synoptic data at SL55 on the sea ice.

MN	DY	LT	Pstn hPa	T deg C	Td deg C	H %	D	V m/s	Vx m/s	Gust m/s
9	5	23	983.8	-25.7	-30.3	66	S	1.9	1.9	2.4
9	6	00	984.4	-29.7	-31.1	66	W	1.2	1.6	2.5
9	6	01	984.8	-25.6	-30.4	64	-	0.1	2.6	3.0
9	6	02	985.2	-19.8	-26.9	54	E	1.2	2.2	2.6
9	6	03	985.6	-22.2	-29.1	54	ENE	2.9	2.9	3.7
9	6	04	985.8	-21.8	-29.3	51	ENE	2.8	2.8	3.6
9	6	05	986.1	-20.3	-28.2	50	ENE	3.3	3.3	5.1
9	6	06	986.5	-26.2	-31.7	60	NW	2.4	4.9	6.0
9	6	07	986.6	-25.0	-30.1	63	SSW	1.1	2.8	3.8
9	6	08	987.1	-23.3	-28.8	61	WSW	1.3	1.7	2.7
9	6	09	987.3	-25.6	-30.1	66	SSW	1.8	2.0	2.5
9	6	10	987.1	-27.5	-33.0	60	NW	1.3	1.6	2.3
9	6	11	987.0	-24.8	-29.5	65	ENE	1.5	1.5	1.8
9	6	12	986.8	-25.4	-30.4	63	NW	0.3	0.9	1.8
9	6	13	986.6	-23.4	-27.9	67	S	0.8	1.8	2.2
9	6	14	986.4	-25.6	-30.8	62	W	1.1	1.1	2.0
9	6	15	986.3	-25.8	-30.5	65	-	0.0	0.6	1.7
9	6	16	986.3	-26.5	-30.9	66	-	0.0	0.0	0.0
9	6	17	986.5	-29.6	-33.8	67	N	2.7	2.7	3.6
9	6	18	986.7	-30.6	-34.4	69	NNE	2.8	3.0	4.0
9	6	19	986.8	-29.9	-33.6	70	-	0.1	1.8	3.2
9	6	20	987.0	-31.2	-31.9	69	-	0.1	0.1	1.5
9	6	21	987.3	-32.4	-36.2	69	-	0.0	0.0	0.0
9	6	22	987.9	-32.8	-36.5	69	-	0.0	0.0	0.0
9	6	23	988.2	-33.7	-37.8	67	-	0.0	0.0	0.0
9	7	00	988.6	-33.5	-37.4	68	-	0.0	0.0	0.0
9	7	01	989.1	-31.6	-35.2	71	-	0.0	0.0	0.0
9	7	02	989.5	-32.2	-35.8	70	SSW	1.5	1.5	2.2
9	7	03	990.0	-31.9	-35.3	72	-	0.0	2.5	4.9
9	7	04	990.4	-34.5	-38.3	69	-	0.0	0.9	2.3
9	7	05	990.5	-31.4	-34.6	74	-	0.0	0.0	0.0
9	7	06	990.3	-31.2	-34.5	73	-	0.0	1.6	2.3
9	7	07	990.1	-33.7	-37.4	69	-	0.0	0.3	1.9
9	7	08	989.9	-32.4	-35.9	71	SW	1.2	1.4	1.8
9	7	09	989.8	-30.0	-33.6	70	SSW	0.9	1.5	2.2
9	7	10	989.5	-30.3	-34.2	69	-	0.0	0.8	2.2
9	7	11	989.3	-28.8	-32.6	69	WSW	1.4	1.4	2.3
9	7	12	989.3	-27.9	-32.2	67	-	0.1	1.2	2.2
9	7	13	989.2	-26.2	-31.1	63	-	0.0	0.2	1.5
9	7	14	989.0	-25.5	-30.5	63	-	0.0	0.0	0.0
9	7	15	988.8	-25.5	-30.0	66	-	0.0	0.0	0.0
9	7	16	988.6	-25.4	-29.4	69	-	0.0	0.0	0.0
9	7	17	988.3	-26.6	-30.1	72	-	0.0	0.0	0.0
9	7	18	988.2	-27.3	-30.8	72	SW	0.8	1.6	2.4
9	7	19	988.1	-25.3	-29.1	70	W	1.1	1.6	2.5
9	7	20	988.2	-26.3	-30.4	68	-	0.0	0.8	2.1
9	7	21	988.1	-25.9	-30.2	67	-	0.0	0.2	1.4
9	7	22	988.1	-24.5	-29.2	65	-	0.0	0.8	2.1
9	7	23	988.4	-23.6	-28.0	67	-	0.0	1.6	1.9
9	8	00	988.6	-22.4	-27.4	64	SE	2.1	2.1	2.6
9	8	01	988.6	-22.7	-28.0	62	S	1.2	1.9	2.7
9	8	02	988.8	-21.7	-27.2	61	S	2.2	2.2	3.2
9	8	03	989.3	-22.9	-27.7	65	SW	1.6	1.8	2.8
9	8	04	989.7	-22.3	-27.5	63	-	0.0	1.6	2.0
9	8	05	990.0	-22.4	-27.5	63	S	1.7	1.7	2.9
9	8	06	990.3	-24.2	-28.5	67	-	0.0	0.9	2.5
9	8	07	990.7	-23.5	-27.9	67	SSW	1.0	1.9	2.3
9	8	08	991.3	-23.3	-27.6	68	S	2.4	2.4	3.0
9	8	09	992.1	-21.3	-27.6	57	E	0.8	2.8	3.3
9	8	10	992.8	-21.4	-27.0	61	SE	1.9	2.8	3.6
9	8	11	993.5	-21.1	-26.6	61	-	0.0	2.6	4.1
9	8	12	994.6	-20.3	-25.4	64	SSE	0.9	2.6	3.3
9	8	13	995.0	-20.4	-25.2	65	SSE	1.5	1.7	2.0
9	8	14	995.6	-20.2	-24.9	66	SSE	1.1	1.7	2.0
9	8	15	996.2	-20.3	-25.2	65	E	1.6	1.6	2.2
9	8	16	997.1	-20.1	-25.8	61	-	0.0	1.2	2.9
9	8	17	998.0	-21.9	-26.5	67	S	0.5	1.0	3.3
9	8	18	998.6	-24.5	-29.2	65	S	1.3	1.8	2.2
9	8	19	999.6	-25.0	-29.3	68	SSE	2.1	2.1	2.6

9	8	20	1000.3	-24.5	-29.5	63	SSE	3.0	3.2	4.4
9	8	21	1001.0	-24.9	-29.8	64	SSE	2.9	3.2	4.0
9	8	22	1001.7	-25.4	-30.3	64	S	3.2	3.2	3.9
9	8	23	1002.1	-25.8	-30.6	64	S	2.9	3.5	4.3
9	9	00	1002.6	-26.1	-31.0	63	S	2.6	3.2	3.9
9	9	01	1003.1	-26.3	-31.4	62	S	2.4	2.9	3.5
9	9	02	1003.8	-32.2	-37.0	63	WNW	1.5	2.1	2.7
9	9	03	1004.2	-32.1	-36.6	65	W	1.6	1.6	2.6
9	9	04	1004.4	-33.2	-37.6	64	-	0.0	0.4	1.6
9	9	05	1004.5	-28.1	-32.3	68	SSE	2.2	2.2	2.7
9	9	06	1004.5	-33.7	-38.1	64	-	0.1	1.8	2.3
9	9	07	1004.8	-33.5	-37.8	65	-	0.0	1.6	2.3
9	9	08	1004.9	-33.1	-37.7	64	WSW	0.3	1.8	2.4
9	9	09	1005.2	-32.2	-36.9	63	WSW	1.8	1.8	2.4
9	9	10	1005.4	-31.7	-37.1	59	-	0.0	1.4	1.8
9	9	11	1005.4	-30.0	-35.4	59	-	0.0	0.0	0.0
9	9	12	1005.5	-29.1	-34.3	61	WNW	0.9	1.6	2.5
9	9	13	1005.7	-28.0	-33.0	62	WNW	1.3	1.8	2.3
9	9	14	1006.0	-25.4	-32.7	51	-	0.0	0.3	1.2
9	9	15	1005.9	-26.2	-32.2	57	-	0.0	0.0	0.0
9	9	16	1005.7	-29.1	-34.1	62	NW	1.3	1.3	2.2
9	9	17	1005.5	-30.1	-35.1	62	-	0.0	1.3	3.2
9	9	18	1005.3	-33.1	-37.5	65	-	0.0	0.8	2.6
9	9	19	1005.4	-33.9	-38.1	66	W	0.6	1.8	2.7
9	9	20	1005.1	-32.4	-36.4	68	-	0.0	0.0	0.0
9	9	21	1004.7	-33.8	-37.9	67	W	0.6	0.6	2.8
9	9	22	1004.6	-33.9	-37.8	68	W	2.4	2.4	3.4
9	9	23	1004.5	-33.6	-37.8	66	WNW	1.5	1.5	2.7
9	10	00	1004.0	-33.6	-38.2	63	WSW	1.8	2.4	3.0
9	10	01	1003.8	-32.3	-37.0	63	-	0.0	1.0	2.9
9	10	02	1004.0	-26.3	-34.5	46	SE	3.6	3.6	5.0
9	10	03	1004.0	-27.3	-33.8	54	E	2.1	3.6	5.9
9	10	04	1004.0	-24.1	-34.1	39	SSW	2.0	2.3	4.5
9	10	05	1003.9	-26.6	-34.6	47	S	2.3	3.2	4.2
9	10	06	1003.4	-26.6	-33.9	50	S	3.1	3.8	6.0
9	10	07	1002.6	-27.1	-35.3	46	SW	2.1	4.9	7.9
9	10	08	1002.4	-23.3	-31.9	45	SSW	3.7	5.2	7.8
9	10	09	1002.1	-22.3	-32.1	40	S	2.0	2.2	3.8
9	10	10	1001.5	-22.3	-31.0	45	SE	0.8	1.5	2.4
9	10	11	1001.7	-23.5	-31.1	50	SSW	1.7	3.0	4.0
9	10	12	1001.0	-21.9	-29.8	49	S	1.8	1.8	3.4
9	10	13	999.7	-21.2	-27.2	59	SSE	0.9	2.1	2.6
9	10	14	999.0	-24.4	-29.9	60	WNW	2.2	2.2	3.5
9	10	15	998.7	-24.9	-30.6	59	W	1.5	2.5	3.2
9	10	16	998.2	-23.6	-28.4	65	-	0.1	1.6	2.4
9	10	17	997.6	-24.6	-29.2	66	NNE	1.3	1.5	3.1
9	10	18	996.9	-25.9	-30.5	66	-	0.2	1.4	2.3
9	10	19	996.6	-26.8	-31.2	67	W	1.1	1.3	2.6
9	10	20	996.4	-25.4	-30.0	65	-	0.0	0.8	2.2
9	10	21	996.1	-24.7	-28.9	68	-	0.0	0.0	0.0
9	10	22	995.7	-24.2	-28.3	69	-	0.0	0.0	0.0
9	10	23	994.7	-23.9	-27.8	70	WNW	1.3	1.4	2.1
9	11	00	994.7	-22.3	-26.3	70	NW	0.9	1.8	2.4
9	11	01	994.6	-21.7	-25.7	70	-	0.2	1.1	1.7
9	11	02	993.9	-21.4	-24.9	73	-	0.0	0.8	2.4
9	11	03	993.3	-19.7	-23.6	71	WSW	1.3	2.2	3.6
9	11	04	993.1	-19.6	-22.3	79	NNE	0.6	1.7	2.6
9	11	05	992.9	-19.6	-22.0	81	-	0.0	0.3	1.7
9	11	06	992.8	-19.2	-21.5	82	-	0.0	0.0	0.0
9	11	07	992.4	-19.1	-21.4	82	-	0.0	0.0	0.0
9	11	08	992.4	-18.3	-20.5	82	NNW	0.9	1.5	4.2
9	11	09	992.4	-18.3	-20.7	82	ESE	0.9	0.9	2.7
9	11	10	992.3	-17.6	-19.8	83	S	2.1	2.1	3.0
9	11	11	992.1	-15.6	-17.4	86	SW	1.1	2.7	3.6
9	11	12	992.0	-13.7	-15.5	86	-	0.1	1.1	1.9
9	11	13	991.6	-13.1	-14.7	87	-	0.2	1.1	1.5
9	11	14	991.1	-11.6	-13.3	88	S	2.1	2.1	2.8
9	11	15	990.2	-11.0	-12.8	87	SSE	2.7	2.7	3.5
9	11	16	989.0	-8.6	-11.6	79	ENE	6.8	6.8	9.6
9	11	17	988.3	-9.0	-11.7	80	NE	2.3	5.2	7.2
9	11	18	987.0	-9.0	-11.0	85	ENE	6.8	7.1	11.0
9	11	19	986.9	-8.4	-10.0	89	ENE	12.5	12.5	18.2
9	11	20	987.3	-8.3	-9.8	89	NE	13.2	13.2	17.4

9	11	21	988.5	-8.7	-9.9	91	NE	140	14.0	19.4
9	11	22	990.0	-9.5	-11.0	88	NNE	10.0	14.6	19.8
9	11	23	990.8	-9.5	-11.7	84	NE	5.4	9.5	12.2
9	12	00	990.9	-9.2	-12.0	80	ENE	7.2	8.0	11.4
9	12	01	991.3	-9.4	-12.3	79	ENE	7.9	9.9	14.1
9	12	02	991.1	-8.8	-12.3	76	ENE	7.4	9.1	11.8
9	12	03	990.9	-9.4	-11.5	85	E	9.1	9.1	12.7
9	12	04	990.6	-7.9	-12.0	72	E	5.8	8.1	10.5
9	12	05	990.0	-7.8	-11.3	76	ENE	8.0	8.0	10.7
9	12	06	989.7	-7.8	-11.5	75	ENE	8.3	9.5	12.8
9	12	07	989.7	-7.5	-13.0	64	ENE	10.8	11.8	14.7
9	12	08	989.9	-8.4	-12.6	71	ENE	4.4	9.5	12.4
9	12	09	989.8	-6.9	-12.6	64	E	6.6	6.6	8.4
9	12	10	989.7	-6.1	-11.9	64	ENE	10.2	10.2	13.5
9	12	11	989.8	-5.9	-13.1	57	ENE	9.2	9.5	12.9
9	12	12	989.5	-6.7	-12.3	65	E	6.9	9.1	15.4
9	12	13	988.8	-7.1	-11.6	71	E	8.6	9.0	12.1
9	12	14	988.3	-7.5	-11.4	74	E	10.5	10.8	14.3
9	12	15	987.8	-7.5	-11.4	73	E	10.0	10.7	14.5
9	12	16	987.6	-7.7	-11.8	73	E	11.2	11.5	16.7
9	12	17	987.2	-7.9	-12.0	73	E	10.5	11.5	15.5
9	12	18	986.6	-8.3	-11.6	77	E	12.3	12.3	17.0
9	12	19	986.0	-8.4	-11.3	80	E	13.7	14.0	18.5
9	12	20	985.7	-8.8	-11.9	78	E	12.8	13.6	17.3
9	12	21	985.6	-8.7	-12.8	72	E	11.4	13.1	17.2
9	12	22	986.2	-8.7	-13.8	66	ENE	7.6	11.4	15.6
9	12	23	986.8	-8.5	-15.4	57	SE	1.4	6.6	10.2
9	13	00	986.8	-7.8	-15.7	53	SE	4.8	4.8	7.9
9	13	01	986.7	-7.8	-16.6	49	E	3.5	7.3	11.1
9	13	02	986.6	-8.5	-16.5	53	SE	3.3	3.8	9.3
9	13	03	986.3	-8.2	-16.7	50	E	6.4	6.4	9.0
9	13	04	986.3	-9.3	-13.1	74	NE	3.1	4.5	8.3
9	13	05	986.1	-10.1	-13.0	80	SSE	2.4	4.4	6.9
9	13	06	985.7	-9.6	-13.8	72	ESE	3.1	3.1	4.3
9	13	07	985.6	-11.1	-13.0	86	S	3.9	3.9	5.1
9	13	08	985.4	-11.4	-13.0	88	S	3.4	4.4	6.1
9	13	09	985.2	-12.4	-14.4	85	S	2.3	3.3	4.1
9	13	10	984.8	-12.5	-15.4	79	SSW	3.5	3.5	4.3
9	13	11	984.9	-12.6	-16.3	74	SSW	2.7	4.2	5.2
9	13	12	984.9	-12.8	-16.8	72	WSW	2.7	2.7	3.8
9	13	13	984.7	-14.8	-18.4	74	WSW	3.4	3.4	4.1
9	13	14	984.9	-14.5	-18.1	75	WSW	5.0	5.0	6.4
9	13	15	985.0	-15.9	-18.9	77	WSW	6.3	6.3	8.3
9	13	16	984.9	-17.8	-20.5	80	WSW	7.0	7.5	9.6
9	13	17	985.0	-18.1	-20.7	80	WSW	5.0	7.1	9.1
9	13	18	985.2	-18.7	-21.4	79	WSW	5.9	5.9	7.6
9	13	19	985.3	-18.9	-21.9	77	WSW	3.8	5.6	6.9
9	13	20	985.5	-19.1	-22.0	77	WSW	3.2	3.9	5.0
9	13	21	985.7	-18.9	-21.6	79	WSW	2.5	4.0	4.9
9	13	22	985.7	-18.5	-21.3	79	WSW	1.6	2.7	3.4
9	13	23	986.2	-19.1	-21.8	79	W	3.1	3.1	3.9
9	14	00	986.4	-19.2	-22.0	79	W	2.5	2.5	3.4
9	14	01	987.1	-19.2	-22.0	78	WNW	1.4	2.2	3.1
9	14	02	987.8	-19.2	-22.3	77	NW	1.7	2.5	3.3
9	14	03	988.4	-18.6	-21.8	76	-	0.0	0.1	0.7
9	14	04	988.8	-19.0	-22.1	77	NNW	1.6	2.5	3.3
9	14	05	989.1	-18.8	-22.0	76	-	0.0	1.6	1.9
9	14	06	989.6	-18.1	-21.1	77	E	1.5	1.5	2.0
9	14	07	990.3	-17.7	-20.7	78	NE	1.2	1.6	2.1
9	14	08	990.8	-17.4	-20.4	77	NNE	0.6	0.9	1.5
9	14	09	991.3	-16.9	-20.1	77	-	0.0	0.0	0.0
9	14	10	992.1	-16.5	-19.7	76	-	0.0	0.0	0.5
9	14	11	992.7	-16.3	-19.4	77	SSE	2.2	2.2	2.9
9	14	12	993.2	-15.8	-19.0	77	SSE	2.3	2.5	3.6
9	14	13	993.8	-15.2	-18.6	75	SE	1.4	1.9	2.7
9	14	14	994.4	-15.2	-17.5	83	NNE	5.1	5.1	7.0
9	14	15	995.2	-15.5	-17.7	83	NNE	5.2	6.6	8.5
9	14	16	995.6	-15.4	-17.6	83	NE	4.3	5.2	6.5
9	14	17	995.5	-15.4	-17.9	81	NE	2.9	5.1	6.4
9	14	18	995.9	-15.5	-17.7	83	SE	1.4	2.0	2.9
9	14	19	996.2	-15.1	-17.9	79	SSE	3.1	3.1	4.9
9	14	20	996.3	-15.1	-18.1	78	SE	2.1	3.0	4.1
9	14	21	996.0	-15.1	-18.5	75	SSE	2.4	3.4	4.5

9	14	22	995.5	-15.5	-19.4	72	SE	2.9	3.0	4.5
9	14	23	994.7	-17.6	-21.5	72	S	3.1	3.7	4.8
9	15	00	994.0	-16.1	-20.3	70	E	5.6	6.3	8.0
9	15	01	992.6	-15.7	-20.7	65	ENE	4.3	5.4	7.5
9	15	02	990.5	-15.7	-21.1	63	S	3.7	4.0	6.9
9	15	03	988.3	-16.2	-20.6	69	S	2.6	3.8	4.7
9	15	04	988.0	-15.3	-20.6	64	SSW	1.4	2.1	3.2
9	15	05	983.4	-15.7	-19.8	71	WSW	2.7	3.2	5.3
9	15	06	980.5	-13.6	-18.6	66	W	2.6	3.1	4.1
9	15	07	978.5	-10.4	-13.3	80	ENE	9.4	11.1	15.5
9	15	08	973.8	-8.9	-10.7	87	E	21.6	21.6	29.1
9	15	09	972.5	-9.5	-11.8	84	E	19.5	24.3	32.9
9	15	10	969.3	-8.9	-10.4	89	E	23.5	23.5	32.4
9	15	11	966.3	-8.6	-10.7	65	E	28.1	28.1	39.1
9	15	12	965.5	-8.6	-11.2	82	E	25.4	27.7	38.7
9	15	13	963.4	-8.7	-11.6	80	E	29.5	29.5	41.0
9	15	14	962.9	-9.1	-10.4	90	E	23.8	26.0	35.1
9	15	15	960.5	-8.3	-11.0	81	ENE	23.8	27.7	41.6
9	15	16	960.3	-8.4	-10.4	85	ENE	24.6	26.9	37.6
9	15	17	959.3	-8.3	-10.3	86	ENE	27.5	27.8	39.6
9	15	18	956.9	-8.6	-10.0	89	ENE	27.6	28.0	39.0
9	15	19	957.4	-8.8	-10.0	91	ENE	27.0	29.1	40.7
9	15	20	957.3	-8.5	-10.1	88	ENE	29.4	29.4	41.0
9	15	21	959.1	-8.2	-10.8	81	ENE	28.4	29.7	40.9
9	15	22	960.2	-8.0	-12.1	72	ENE	25.2	28.4	38.9
9	15	23	962.6	-8.1	-12.4	71	NE	22.6	26.8	36.2
9	16	00	964.9	-8.1	-12.8	69	NE	20.8	23.0	32.7
9	16	01	966.8	-9.9	-11.7	87	NE	17.8	19.8	29.6
9	16	02	968.6	-9.9	-13.5	75	NE	18.7	19.7	28.5
9	16	03	969.5	-9.5	-15.4	62	NE	18.9	21.7	30.5
9	16	04	970.8	-9.8	-15.8	61	NE	16.2	21.8	29.2
9	16	05	971.4	-10.0	-15.7	63	ENE	14.6	18.1	24.9
9	16	06	971.8	-10.1	-16.1	61	ENE	16.5	17.0	22.2
9	16	07	972.9	-11.0	-16.6	63	ENE	13.6	17.5	23.2
9	16	08	974.1	-10.7	-17.0	60	ENE	15.5	15.5	21.0
9	16	09	975.3	-11.0	-16.5	64	ENE	15.6	16.0	22.6
9	16	10	977.0	-10.2	-16.5	60	ENE	11.2	14.1	18.7
9	16	11	978.6	-10.1	-16.5	59	ENE	11.6	11.9	16.1
9	16	12	979.6	-10.4	-16.7	60	NE	12.3	12.3	17.5
9	16	13	980.6	-10.5	-16.1	64	NE	10.9	12.3	16.7
9	16	14	981.4	-10.4	-16.4	62	NE	12.1	12.1	16.8
9	16	15	982.2	-10.7	-16.8	61	NE	8.8	12.9	19.2
9	16	16	983.1	-11.1	-17.0	62	NE	10.2	10.2	14.0
9	16	17	983.6	-11.3	-17.2	62	NE	9.3	9.7	13.5
9	16	18	984.3	-11.7	-17.3	63	NE	8.6	9.9	14.0
9	16	19	984.9	-12.3	-17.1	68	NNE	4.7	7.7	11.5
9	16	20	985.1	-12.2	-17.4	65	NE	6.5	6.5	9.2
9	16	21	985.4	-11.9	-17.8	62	NE	8.3	8.3	11.8
9	16	22	985.9	-12.1	-17.8	63	NE	4.4	7.5	11.9
9	16	23	986.1	-12.0	-17.8	62	NE	4.2	4.9	7.7
9	17	00	986.2	-12.0	-17.5	64	ENE	3.7	4.7	7.2
9	17	01	986.1	-12.3	-17.3	66	E	1.2	3.9	5.6
9	17	02	986.1	-13.4	-16.3	79	SW	1.0	2.3	4.8
9	17	03	985.8	-13.4	-15.6	83	E	1.8	1.9	3.2
9	17	04	985.6	-14.3	-16.5	84	ESE	1.0	1.8	2.5
9	17	05	985.1	-14.4	-16.6	83	-	0.0	0.8	2.0
9	17	06	984.3	-16.6	-18.9	82	SSE	2.3	2.3	3.0
9	17	07	983.6	-17.2	-19.8	80	S	1.8	2.1	2.9
9	17	08	982.9	-17.7	-20.7	77	SSW	1.7	1.8	2.6
9	17	09	982.1	-17.2	-20.7	74	S	1.8	2.3	2.8
9	17	10	981.4	-17.4	-21.6	70	WSW	0.7	1.6	2.0
9	17	11	980.6	-18.8	-22.3	74	W	1.3	2.5	2.9
9	17	12	979.8	-19.8	-23.1	75	WNW	2.2	2.2	3.1
9	17	13	979.0	-19.4	-22.8	74	W	1.5	2.3	2.9
9	17	14	978.2	-19.4	-22.9	74	-	0.2	1.3	1.8
9	17	15	977.7	-19.8	-23.7	71	W	0.7	1.1	2.0
9	17	16	977.2	-20.7	-25.1	68	-	0.0	0.0	0.0
9	17	17	977.1	-22.7	-26.9	69	-	0.0	0.0	0.0
9	17	18	976.8	-23.4	-26.7	75	-	0.0	0.0	0.0
9	17	19	976.5	-21.4	-24.2	78	-	0.0	0.0	0.0
9	17	20	976.4	-22.8	-26.4	73	SSW	1.8	1.8	2.7
9	17	21	976.1	-22.3	-26.3	70	SSW	2.2	2.4	3.2
9	17	22	976.0	-25.9	-285	72	-	0.0	1.0	2.2

9	17	23	975.8	-26.9	-30.6	71	-	0.0	0.3	1.7
9	18	00	975.7	-27.7	-31.3	72	W	0.6	0.6	2.1
9	18	01	975.9	-27.6	-31.1	72	W	1.1	1.9	3.2
9	18	02	976.2	-28.1	-31.7	72	-	0.0	1.6	2.6
9	18	03	976.6	-28.4	-31.8	73	-	0.0	0.0	0.0
9	18	04	977.1	-28.4	-31.7	74	-	0.0	0.0	0.0
9	18	05	977.5	-27.4	-30.3	76	-	0.0	0.0	0.0
9	18	06	978.2	-23.9	-26.9	77	-	0.0	0.0	0.0
9	18	07	978.6	-27.9	-31.4	72	-	0.0	0.0	0.0
9	18	08	979.3	-26.5	-31.6	62	-	0.0	0.0	0.0
9	18	09	979.7	-24.3	-30.0	59	-	0.0	0.0	0.0
9	18	10	980.2	-27.8	-31.8	69	-	0.0	0.0	0.0
9	18	11	980.8	-23.4	-28.6	62	-	0.0	0.0	0.0
9	18	12	981.5	-24.8	-28.8	69	-	0.0	1.1	2.2
9	18	13	982.1	-23.3	-27.5	69	-	0.0	0.4	2.0
9	18	14	982.4	-20.7	-25.9	63	-	0.0	0.0	0.0
9	18	15	982.9	-22.1	-26.5	67	-	0.0	0.1	1.5
9	18	16	983.7	-20.5	-26.6	58	-	0.0	0.0	0.0
9	18	17	984.3	-23.6	-27.8	69	-	0.0	0.0	0.0
9	18	18	984.6	-26.9	-30.3	73	-	0.0	0.0	0.0
9	18	19	984.7	-27.4	-30.4	76	-	0.0	0.0	0.0
9	18	20	985.3	-26.1	-29.3	74	-	0.0	0.4	2.1
9	18	21	985.6	-25.2	-28.6	73	-	0.0	1.1	2.5
9	18	22	986.2	-24.4	-27.6	75	-	0.0	0.3	2.6
9	18	23	986.5	-23.5	-26.6	75	-	0.0	0.0	0.0
9	19	00	986.6	-23.8	-26.8	76	-	0.0	0.0	0.0
9	19	01	986.7	-22.6	-25.8	75	-	0.0	0.0	0.0
9	19	02	986.9	-21.8	-24.9	76	-	0.0	0.1	1.2
9	19	03	986.8	-21.0	-24.2	76	WNW	0.7	0.7	2.0
9	19	04	986.6	-19.8	-23.1	75	-	0.2	0.2	3.0
9	19	05	986.4	-19.4	-22.3	78	-	0.0	0.0	0.0
9	19	06	986.5	-19.3	-22.1	79	-	0.0	0.0	0.0
9	19	07	986.6	-18.8	-21.4	79	-	0.0	0.0	0.0
9	19	08	986.7	-18.8	-21.7	78	-	0.0	0.0	0.0
9	19	09	986.9	-17.7	-20.9	77	-	0.0	0.0	0.0
9	19	10	986.7	-17.3	-20.9	74	SE	0.8	0.8	2.0
9	19	11	986.4	-17.4	-21.3	72	-	0.0	0.9	1.7
9	19	12	986.2	-16.8	-20.4	74	SW	1.3	1.3	2.2
9	19	13	985.7	-14.9	-18.8	72	S	1.0	2.1	2.7
9	19	14	985.3	-14.7	-18.6	72	-	0.0	0.4	2.0
9	19	15	984.9	-15.2	-17.9	79	W	1.0	1.3	2.0
9	19	16	984.5	-15.3	-18.1	79	SW	1.6	1.6	2.2
9	19	17	983.8	-14.4	-17.5	77	SSW	2.3	2.6	3.5
9	19	18	983.6	-14.2	-18.3	71	SSW	1.2	1.6	4.1
9	19	19	983.3	-15.9	-19.1	76	-	0.3	1.0	1.9
9	19	20	983.0	-17.5	-20.0	81	-	0.3	1.4	2.2
9	19	21	982.7	-18.7	-21.7	77	SSW	0.5	0.8	12.5
9	19	22	982.0	-20.1	-23.1	78	SW	0.7	0.7	2.6
9	19	23	981.3	-19.5	-22.6	77	-	0.1	1.1	2.4
9	20	00	980.7	-20.3	-23.2	77	SW	0.9	1.0	2.1
9	20	01	980.0	-22.2	-25.1	77	WSW	1.9	1.9	2.6
9	20	02	980.1	-22.5	-25.7	75	-	0.1	1.6	2.5
9	20	03	979.9	-21.8	-24.8	76	SE	1.7	2.3	2.9
9	20	04	979.9	-18.2	-21.8	73	-	0.2	1.8	2.5
9	20	05	980.0	-19.4	-23.1	73	-	0.0	0.7	1.5
9	20	06	980.6	-19.0	-22.4	75	SW	1.0	1.3	2.3
9	20	07	980.7	-17.9	-21.0	76	W	1.5	1.9	2.3
9	20	08	980.9	-17.5	-20.7	76	-	0.0	1.6	2.4
9	20	09	980.9	-16.6	-20.3	73	S	2.1	2.2	3.1
9	20	10	981.0	-17.1	-20.3	76	-	0.1	1.4	1.9
9	20	11	981.0	-14.9	-18.0	77	SSW	0.9	1.1	1.6
9	20	12	980.9	-13.8	-16.8	78	WSW	1.1	1.2	1.5
9	20	13	980.8	-14.5	-17.6	77	WSW	1.7	1.8	2.4
9	20	14	980.7	-14.2	-17.7	74	SSW	2.4	2.9	3.7
9	20	15	980.5	-14.4	-18.5	71	WSW	1.5	2.4	3.0
9	20	16	980.6	-14.3	-18.6	70	SSE	0.3	1.6	2.2
9	20	17	980.7	-16.2	-20.2	71	-	0.0	1.0	1.8
9	20	18	980.8	-19.9	-22.5	80	SW	0.4	1.0	2.3
9	20	19	981.0	-20.0	-22.3	82	-	0.0	0.1	1.6
9	20	20	981.0	-21.6	-24.9	75	SSE	2.5	2.5	3.2
9	20	21	981.0	-21.9	-25.6	72	SSE	2.5	2.9	3.6
9	20	22	981.1	-22.0	-25.9	71	S	2.0	2.4	3.3
9	20	23	981.1	-23.3	-28.9	72	S	1.4	2.4	3.8

9	21	00	980.9	-22.8	-26.5	72	SSE	2.0	2.3	2.9
9	21	01	980.9	-24.6	-28.0	73	-	0.0	1.9	2.8
9	21	02	981.0	-24.1	-27.8	72	-	0.0	1.4	2.7
9	21	03	980.9	-25.9	-29.8	70	-	0.0	0.1	1.8
9	21	04	980.9	-22.5	-27.5	64	SSE	1.3	2.3	3.4
9	21	05	980.6	-24.6	-28.6	69	SE	2.1	2.4	3.6
9	21	06	980.7	-25.8	-29.6	71	-	0.0	1.6	2.4
9	21	07	980.4	-26.0	-30.0	69	-	0.0	0.0	0.0
9	21	08	980.7	-22.6	-28.4	60	SSE	0.9	2.0	2.8
9	21	09	980.7	-20.8	-27.9	53	-	0.0	0.0	0.0
9	21	10	980.8	-24.2	-28.1	71	-	0.2	0.2	1.9
9	21	11	980.8	-23.5	-28.3	65	W	1.4	1.4	2.1
9	21	12	980.6	-23.4	-27.8	67	-	0.1	0.5	1.9
9	21	13	980.7	-22.6	-26.8	69	-	0.0	1.3	1.7
9	21	14	980.3	-20.4	-25.8	62	WSW	2.2	2.3	3.3
9	21	15	980.0	-20.4	-25.9	61	SW	1.9	2.2	2.7
9	21	16	979.8	-20.9	-26.3	62	SSW	0.8	2.2	2.6
9	21	17	979.3	-22.5	-27.4	65	SW	1.2	1.8	2.4
9	21	18	979.1	-21.0	-25.8	66	-	0.1	0.6	1.9
9	21	19	979.0	-23.2	-27.6	68	SSW	1.7	2.5	3.1
9	21	20	978.8	-21.9	-26.6	66	SE	2.4	2.4	3.3
9	21	21	978.9	-21.3	-26.3	64	S	2.9	3.3	4.2
9	21	22	978.8	-21.4	-26.2	65	SSE	2.9	4.4	5.8
9	21	23	978.9	-20.2	-25.2	64	-	0.0	3.6	4.4
9	22	00	978.7	-19.0	-23.8	66	S	1.2	2.6	3.4
9	22	01	978.6	-22.0	-26.2	69	SSW	2.3	2.3	3.3
9	22	02	978.8	-22.3	-26.0	72	SW	1.7	2.9	3.5
9	22	03	978.6	-24.0	-28.0	70	S	0.7	1.6	2.3
9	22	04	978.6	-24.0	-28.5	66	SSW	1.8	2.4	3.5
9	22	05	978.4	-23.2	-27.1	71	-	0.0	2.8	4.2
9	22	06	978.5	-23.1	-28.0	64	S	1.9	1.9	2.9
9	22	07	978.5	-22.8	-27.4	66	-	0.0	2.3	2.8
9	22	08	978.6	-20.8	-24.9	70	-	0.0	0.5	2.0
9	22	09	978.9	-19.3	-23.3	70	SSW	1.3	2.0	2.5
9	22	10	978.8	-17.8	-22.0	70	SSW	1.6	1.9	2.5
9	22	11	978.8	-16.5	-20.7	70	S	1.7	2.4	3.0
9	22	12	979.1	-13.8	-20.0	59	SSE	2.3	2.3	3.1
9	22	13	979.2	-14.8	-19.8	66	S	1.6	2.2	3.1
9	22	14	979.6	-16.8	-20.8	71	WSW	1.4	1.4	2.1
9	22	15	979.9	-16.1	-20.1	71	SSW	1.7	1.7	2.0
9	22	16	980.1	-16.7	-20.6	72	SSW	1.8	2.1	2.3
9	22	17	980.4	-17.5	-21.1	73	S	2.4	2.6	3.3
9	22	18	980.8	-18.0	-22.2	70	ESE	2.4	2.6	3.2
9	22	19	981.2	-18.1	-21.9	72	SSW	2.6	2.7	3.8
9	22	20	981.6	-18.5	-23.5	65	S	2.4	3.0	3.8
9	22	21	982.1	-18.8	-24.8	59	SSE	1.6	2.9	4.1
9	22	22	982.8	-17.7	-24.1	58	SE	2.3	3.4	4.4
9	22	23	983.3	-18.7	-24.3	61	ESE	2.8	3.2	4.3
9	23	00	983.9	-17.3	-23.8	57	ESE	3.6	3.9	5.2
9	23	01	984.6	-17.5	-24.8	53	ESE	3.1	3.4	4.9
9	23	02	985.0	-14.8	-24.3	44	SSE	2.4	2.9	5.1
9	23	03	985.7	-15.3	-24.2	47	SSE	3.3	3.3	4.9
9	23	04	985.9	-13.3	-23.0	44	ESE	7.3	7.3	12.5
9	23	05	986.1	-13.0	-23.3	42	SE	5.9	7.1	11.6
9	23	06	985.9	-14.4	-21.1	57	E	7.1	7.1	13.4
9	23	07	986.6	-13.4	-20.9	53	ENE	5.5	6.5	9.9
9	23	08	987.2	-12.6	-19.2	58	E	6.3	9.1	14.8
9	23	09	987.6	-11.6	-17.8	60	E	8.8	8.8	13.2
9	23	10	988.5	-11.2	-16.6	65	E	9.5	11.4	16.2
9	23	11	989.4	-10.2	-16.0	62	E	8.8	9.9	13.9
9	23	12	989.7	-9.4	-15.7	60	E	9.1	9.7	16.1
9	23	13	991.2	-8.9	-17.4	50	SW	2.9	10.9	16.0
9	23	14	991.7	-8.1	-18.6	43	SW	3.4	4.4	11.3
9	23	15	993.0	-6.9	-20.1	34	SW	3.2	3.6	17.8
9	23	16	993.1	-6.0	-21.5	28	W	1.4	5.2	13.2
9	23	17	993.9	-7.9	-17.9	44	E	5.6	5.6	10.3
9	23	18	994.7	-8.7	-18.3	46	SE	3.3	7.4	11.1
9	23	19	995.4	-9.9	-18.2	50	S	2.6	2.9	5.4
9	23	20	995.7	-10.7	-18.1	54	ESE	5.6	8.4	13.3
9	23	21	996.0	-11.9	-18.6	58	S	2.6	6.2	9.3
9	23	22	996.0	-12.9	-19.1	59	ESE	1.6	4.9	7.5
9	23	23	996.5	-14.5	-20.8	59	ESE	3.2	3.9	5.1
9	24	00	996.6	-15.5	-21.3	61	SSE	3.2	3.2	4.1

9	24	01	996.7	-16.5	-23.5	55	SSW	1.5	4.4	5.9
9	24	02	996.4	-14.8	-22.1	54	ESE	3.0	3.0	4.6
9	24	03	996.0	-16.0	-23.6	52	SE	4.0	4.5	7.1
9	24	04	995.7	-15.8	-23.3	53	SE	3.5	4.2	5.8
9	24	05	995.4	-15.9	-24.8	46	SE	1.5	3.7	5.1
9	24	06	995.3	-16.0	-24.3	49	SE	5.0	5.0	7.5
9	24	07	995.1	-16.2	-23.8	52	SE	3.8	3.9	6.2
9	24	08	995.1	-17.1	-25.5	48	WSW	1.1	2.8	4.0
9	24	09	994.8	-16.9	-23.0	59	SSW	1.6	2.7	4.7
9	24	10	994.9	-16.5	-22.9	58	SW	1.3	1.4	2.5
9	24	11	994.6	-15.5	-20.7	64	SSE	0.9	1.7	2.9
9	24	12	994.3	-15.4	-19.8	69	SSE	1.6	2.1	2.7
9	24	13	994.0	-14.4	-19.2	67	S	1.3	2.4	2.9
9	24	14	993.7	-14.3	-20.4	60	WSW	1.2	1.4	2.7
9	24	15	993.5	-16.4	-20.7	69	W	2.0	2.8	3.4
9	24	16	993.1	-17.2	-21.4	70	W	0.7	1.9	2.2
9	24	17	992.8	-17.8	-21.7	71	S	1.7	1.7	2.1
9	24	18	992.6	-19.2	-23.0	72	-	0.0	1.3	2.2
9	24	19	992.4	-21.1	-24.1	77	S	2.2	2.2	2.8
9	24	20	992.1	-21.2	-24.1	78	S	1.9	1.9	2.7
9	24	21	992.0	-20.9	-24.3	75	S	2.8	3.0	3.5
9	24	22	991.8	-21.4	-24.8	74	SSE	2.3	2.8	3.4
9	24	23	991.6	-21.6	-25.3	72	SSE	2.5	2.5	3.0
9	25	00	991.5	-21.9	-25.5	72	SSE	1.9	2.4	3.2
9	25	01	991.5	-26.4	-29.9	72	-	0.0	2.2	3.0
9	25	02	991.4	-27.3	-30.8	72	-	0.0	0.0	0.0
9	25	03	991.5	-27.7	-31.3	71	-	0.0	0.0	0.0
9	25	04	991.4	-28.4	-31.9	72	-	0.0	1.0	2.2
9	25	05	991.7	-28.7	-32.1	73	-	0.0	0.0	0.0
9	25	06	991.9	-29.1	-32.5	72	-	0.0	0.0	0.0
9	25	07	992.4	-27.1	-32.7	59	-	0.0	0.0	0.0
9	25	08	992.9	-26.1	-31.3	61	W	0.4	0.4	2.2
9	25	09	993.2	-22.0	-29.0	53	-	0.0	0.0	0.0
9	25	10	993.8	-24.1	-27.9	71	-	0.0	1.1	1.9
9	25	11	994.2	-21.8	-26.1	68	-	0.0	0.0	0.0
9	25	12	993.0	-21.2	-24.8	73	W	1.8	1.8	2.5
9	25	13	995.0	-19.6	-23.4	71	W	1.0	2.0	2.4
9	25	14	995.6	-19.6	-24.2	67	WNW	1.5	1.6	2.1
9	25	15	995.9	-19.0	-23.9	65	WNW	1.0	1.4	1.7
9	25	16	996.2	-19.5	-24.4	65	-	0.0	0.9	1.4
9	25	17	996.5	-19.6	-25.0	62	-	0.0	0.0	0.0
9	25	18	996.9	-19.8	-24.7	65	-	0.0	0.0	0.0
9	25	19	997.1	-24.9	-28.4	73	-	0.0	0.0	0.0
9	25	20	997.3	-27.8	-30.9	75	W	0.7	0.7	1.9
9	25	21	997.4	-27.6	-30.4	77	-	0.0	0.7	1.9
9	25	22	997.5	-28.6	-31.5	76	-	0.0	0.0	0.0
9	25	23	997.6	-28.1	-30.9	77	-	0.0	0.7	1.9
9	26	00	997.8	-28.4	-31.4	75	-	0.0	0.5	2.1
9	26	01	998.0	-27.0	-29.8	77	-	0.0	0.0	0.0
9	26	02	998.2	-27.4	-30.5	75	-	0.0	0.0	0.0
9	26	03	998.3	-27.1	-30.4	74	-	0.0	0.0	0.0
9	26	04	998.4	-25.9	-29.1	75	-	0.0	0.8	2.1
9	26	05	998.4	-24.8	-27.9	76	-	0.0	0.0	0.0
9	26	06	998.3	-25.4	-28.7	74	-	0.0	0.0	0.0
9	26	07	998.4	-25.1	-28.9	70	-	0.0	0.0	0.0
9	26	08	998.6	-23.2	-28.4	63	-	0.0	0.0	0.0
9	26	09	998.6	-21.6	-26.4	65	-	0.0	0.0	0.0
9	26	10	998.6	-20.2	-24.0	71	-	0.0	0.0	0.0
9	26	11	998.7	-19.5	-23.1	73	NNE	1.3	1.3	2.2
9	26	12	998.9	-18.7	-21.9	76	-	0.3	1.8	2.5
9	26	13	998.9	-19.1	-21.6	80	N	1.9	2.2	2.8
9	26	14	999.0	-19.2	-21.9	79	N	2.3	2.4	3.2
9	26	15	998.8	-20.3	-22.4	84	NNW	1.9	2.2	3.0
9	26	16	998.7	-21.6	-23.9	81	N	2.4	2.4	3.1
9	26	17	998.8	-22.8	-25.3	80	NNW	0.9	2.5	3.5
9	26	18	999.0	-24.3	-27.0	79	-	0.0	1.8	2.5
9	26	19	999.3	-25.1	-28.0	77	-	0.0	1.7	2.5
9	26	20	999.3	-25.3	-28.2	77	-	0.0	0.0	0.0
9	26	21	999.3	-25.7	-28.6	76	-	0.0	0.0	0.0
9	26	22	999.2	-26.4	-29.4	76	-	0.0	0.0	0.0
9	26	23	999.5	-27.2	-30.3	75	-	0.0	0.0	0.0
9	27	00	999.5	-27.2	-30.3	75	-	0.0	0.0	0.0
9	27	01	999.5	-28.7	-32.0	73	-	0.0	0.0	0.0

9	27	02	999.7	-29.7	-33.2	72	-	0.0	0.0	0.0
9	27	03	999.5	-29.5	-32.8	73	-	0.0	0.0	0.0
9	27	04	999.3	-30.0	-33.5	72	-	0.0	0.0	0.0
9	27	05	998.9	-30.1	-33.6	72	-	0.0	0.2	1.3
9	27	06	999.0	-29.9	-33.4	72	-	0.0	0.0	0.0
9	27	07	998.9	-26.3	-29.4	75	-	0.0	0.0	0.0
9	27	08	998.9	-25.3	-28.5	75	-	0.0	0.0	0.0
9	27	09	998.9	-26.1	-29.1	76	-	0.0	0.0	0.0
9	27	10	998.8	-23.8	-26.6	78	-	0.0	0.0	0.0
9	27	11	998.7	-24.0	-26.8	78	-	0.0	0.0	0.0
9	27	12	998.7	-22.1	-24.9	78	-	0.0	0.0	0.0
9	27	13	998.6	-20.5	-23.0	81	-	0.0	0.0	0.0
9	27	14	998.8	-21.4	-24.0	80	-	0.0	0.0	0.0
9	27	15	998.5	-21.3	-23.9	79	-	0.0	0.0	0.0
9	27	16	998.0	-20.4	-22.7	82	-	0.0	0.0	0.0
9	27	17	997.5	-22.9	-25.6	78	-	0.0	0.0	0.0
9	27	18	997.2	-23.1	-25.8	78	W	0.5	0.5	2.1
9	27	19	997.0	-24.4	-27.3	77	-	0.0	2.0	2.6
9	27	20	996.7	-26.0	-29.0	76	-	0.0	0.0	0.0
9	27	21	996.3	-25.0	-27.8	77	-	0.0	0.0	0.0
9	27	22	995.9	-23.3	-26.0	78	-	0.0	0.0	0.0
9	27	23	995.5	-23.1	-25.8	79	-	0.0	0.0	0.0
9	28	00	995.1	-22.6	-25.2	79	-	0.0	0.0	0.0
9	28	01	994.4	-21.9	-24.5	80	-	0.0	0.0	0.0
9	28	02	993.6	-21.1	-23.6	80	-	0.0	0.0	0.0
9	28	03	992.7	-20.9	-23.4	80	-	0.0	0.0	0.0
9	28	04	991.4	-20.7	-23.4	79	-	0.0	0.0	0.0
9	28	05	990.2	-20.4	-23.0	79	-	0.0	0.0	0.0
9	28	06	988.9	-19.6	-22.1	80	-	0.0	0.0	0.0
9	28	07	988.1	-18.8	-21.2	81	-	0.0	0.0	0.0
9	28	08	987.1	-18.6	-21.2	81	NNW	1.0	1.3	3.0
9	28	09	985.5	-15.0	-17.7	80	SW	2.6	2.6	3.3
9	28	10	984.3	-12.6	-15.8	77	SSE	1.7	2.3	3.0
9	28	11	983.5	-11.0	-14.3	77	S	1.7	2.4	4.0
9	28	12	982.6	-10.0	-13.3	77	W	1.2	1.8	3.3
9	28	13	981.5	-9.0	-13.6	69	SSW	2.6	2.6	4.2
9	28	14	980.3	-7.6	-14.2	59	N	3.1	4.1	6.7
9	28	15	979.4	-7.8	-13.7	63	WNW	3.2	3.2	6.8
9	28	16	978.7	-6.7	-15.9	48	SW	1.2	1.8	5.5
9	28	17	977.9	-7.3	-15.4	52	NE	1.9	3.6	7.2
9	28	18	977.7	-7.7	-13.9	61	SE	4.4	4.4	9.6
9	28	19	977.8	-7.2	-14.2	57	SE	5.2	7.9	12.2
9	28	20	977.5	-7.3	-14.1	58	E	9.5	9.5	16.0
9	28	21	977.2	-7.4	-14.8	56	E	10.5	10.5	16.0
9	28	22	978.2	-7.2	-14.9	54	NE	4.1	9.2	15.3
9	28	23	978.4	-7.5	-15.0	55	E	4.4	4.4	7.1
9	29	00	978.3	-7.5	-14.5	58	E	6.4	6.4	10.0
9	29	01	978.4	-7.3	-14.7	56	ENE	8.0	8.4	11.9
9	29	02	978.4	-7.3	-14.7	56	E	7.4	7.4	11.0
9	29	03	979.0	-7.5	-14.3	58	E	6.2	8.1	11.5
9	29	04	979.3	-7.7	-15.1	55	W	2.6	3.7	7.2
9	29	05	979.5	-8.8	-11.3	82	SW	4.2	4.2	5.3
9	29	06	980.1	-9.1	-10.5	90	SW	4.0	4.0	6.4
9	29	07	980.7	-9.0	-10.3	91	SW	3.1	3.7	4.5
9	29	08	981.3	-8.8	-10.0	91	S	4.0	4.1	5.8
9	29	09	982.1	-8.1	-9.6	89	SSE	2.2	4.3	6.5
9	29	10	983.0	-8.5	-10.2	87	ESE	2.7	3.2	4.5
9	29	11	983.8	-7.4	-8.5	92	ESE	0.5	2.0	2.8
9	29	12	984.3	-8.1	-9.4	90	SSW	2.2	2.2	2.7
9	29	13	984.9	-7.8	-9.4	88	W	1.3	2.3	4.0
9	29	14	985.2	-9.3	-10.7	90	W	4.4	4.4	5.9
9	29	15	985.6	-10.3	-11.8	89	WSW	4.0	4.6	5.6
9	29	16	985.9	-12.3	-13.8	88	WSW	4.1	4.1	6.0
9	29	17	986.3	-12.2	-13.8	88	SW	3.1	4.6	5.9
9	29	18	986.7	-12.9	-14.6	88	SW	2.3	3.3	4.8
9	29	19	987.4	-13.8	-15.6	86	W	3.1	3.1	3.9
9	29	20	988.0	-13.2	-14.8	88	SW	2.6	2.7	3.7
9	29	21	988.2	-12.8	-14.7	85	SSW	2.3	3.1	3.8
9	29	22	988.3	-11.8	-14.8	78	SE	2.0	2.3	2.9
9	29	23	988.7	-12.6	-15.5	79	SSE	2.3	2.7	3.3
9	30	00	989.1	-12.3	-16.0	74	SSE	2.3	2.5	3.2
9	30	01	989.4	-14.3	-17.2	79	NE	1.7	3.2	3.8
9	30	02	989.6	-15.3	-17.4	83	NE	1.9	1.9	3.7

9	30	03	989.5	-12.9	-16.8	72	NE	3.5	3.5	5.4
9	30	04	989.6	-12.0	-17.2	65	ENE	5.0	5.0	6.4
9	30	05	989.9	-11.9	-19.2	55	ESE	0.4	3.9	5.4
9	30	06	989.8	-12.6	-19.7	55	E	0.8	1.3	3.8
9	30	07	989.9	-16.0	-24.3	49	W	0.3	1.7	3.0
9	30	08	989.9	-18.9	-24.4	62	SSE	2.6	2.7	3.7
9	30	09	989.9	-15.4	-21.9	58	SE	2.8	4.1	5.8
9	30	10	989.7	-18.1	-22.6	68	S	2.1	2.4	3.3
9	30	11	989.8	-17.6	-22.2	67	SW	1.9	2.2	2.9
9	30	12	989.6	-16.6	-21.2	68	SSW	2.1	2.1	2.7
9	30	13	989.5	-17.7	-21.8	71	W	1.4	2.2	2.6
9	30	14	989.3	-17.4	-21.4	71	W	2.4	2.8	3.4
9	30	15	988.9	-18.6	-23.1	68	W	1.3	2.4	2.8
9	30	16	988.7	-20.0	-24.4	68	WSW	1.5	1.9	2.3
9	30	17	988.7	-19.9	-24.5	66	-	0.0	1.4	1.9
9	30	18	988.7	-23.9	-27.5	72	WSW	1.7	1.7	2.3
9	30	19	988.8	-24.8	-27.2	81	S	1.7	2.1	3.2
9	30	20	988.9	-24.8	-27.1	81	-	0.2	2.0	2.6
9	30	21	989.1	-24.4	-27.4	76	-	0.0	1.5	2.1
9	30	22	989.4	-23.6	-25.9	81	-	0.0	1.3	2.7
9	30	23	989.6	-25.6	-28.7	76	S	0.6	1.9	2.4
10	1	00	989.8	-25.2	-28.8	72	SSE	1.8	2.0	3.1
10	1	01	990.3	-26.1	-29.4	74	-	0.0	1.6	2.2
10	1	02	990.7	-29.7	-33.5	70	-	0.0	0.0	0.8
10	1	03	991.1	-29.9	-33.2	73	-	0.0	0.0	0.0
10	1	04	991.4	-30.6	-34.7	67	-	0.0	0.0	0.0
10	1	05	991.6	-30.8	-34.4	71	-	0.1	2.0	2.7
10	1	06	991.8	-30.7	-34.7	68	-	0.0	1.9	2.5
10	1	07	992.4	-28.1	-33.4	61	WNW	0.7	0.9	2.4
10	1	08	992.8	-26.3	-32.7	55	-	0.0	1.1	2.3
10	1	09	993.5	-25.0	-30.9	58	-	0.0	0.1	1.5
10	1	10	993.9	-25.3	-29.9	65	-	0.0	0.0	0.0
10	1	11	994.5	-21.2	-27.9	55	-	0.0	0.0	0.0
10	1	12	994.9	-21.8	-26.8	64	NNE	0.4	0.4	1.9
10	1	13	995.5	-22.9	-27.3	67	N	1.6	1.6	2.4
10	1	14	996.1	-22.5	-27.1	67	NNE	2.1	2.1	2.7
10	1	15	996.5	-22.1	-26.5	68	-	0.0	1.7	2.4
10	1	16	996.9	-23.1	-27.3	68	NNW	0.5	0.5	2.2
10	1	17	997.2	-24.9	-29.1	68	-	0.0	1.9	2.5
10	1	18	997.6	-25.2	-28.0	78	-	0.0	0.0	0.0
10	1	19	997.9	-30.0	-33.1	75	-	0.0	0.0	0.0
10	1	20	998.5	-29.1	-31.8	78	-	0.0	0.0	0.0
10	1	21	999.0	-30.2	-33.0	77	-	0.0	0.0	0.0
10	1	22	999.7	-31.9	-35.2	73	-	0.0	0.0	0.0
10	1	23	999.9	-33.6	-37.2	70	-	0.0	0.1	2.1
10	2	00	1000.5	-33.2	-36.8	70	W	1.1	1.6	2.0
10	2	01	1001.1	-33.4	-37.1	69	-	0.0	1.0	2.0
10	2	02	1001.5	-32.3	-35.9	70	-	0.0	0.0	0.0
10	2	03	1002.1	-33.1	-36.6	70	-	0.0	0.0	0.6
10	2	04	1002.5	-33.7	-37.5	69	WSW	0.4	1.4	2.6
10	2	05	1002.8	-35.5	-39.6	66	-	0.0	0.0	0.0
10	2	06	1003.1	-32.9	-36.8	68	-	0.0	0.0	0.0
10	2	07	1003.5	-31.1	-35.2	68	-	0.0	0.2	1.1
10	2	08	1003.9	-28.6	-33.0	66	-	0.0	0.0	0.0
10	2	09	1004.7	-28.0	-32.0	69	-	0.0	0.0	0.0
10	2	10	1005.4	-27.3	-30.9	71	-	0.0	0.1	0.9
10	2	11	1005.8	-25.0	-29.0	69	-	0.0	1.1	1.9
10	2	12	1006.6	-22.9	-27.2	68	-	0.0	0.0	0.9
10	2	13	1006.8	-20.2	-26.4	58	-	0.0	0.1	1.2
10	2	14	1006.8	-21.8	-27.0	62	-	0.0	0.0	0.0
10	2	15	1007.5	-22.3	-27.5	63	-	0.0	0.0	0.0
10	2	16	1007.4	-23.1	-27.6	66	-	0.0	0.0	0.0
10	2	17	1007.0	-27.0	-31.6	65	-	0.0	0.0	0.0
10	2	18	1007.0	-28.5	-32.2	70	-	0.0	0.5	2.0
10	2	19	1006.7	-29.7	-32.6	76	-	0.2	1.5	2.9
10	2	20	1006.7	-33.1	-36.5	72	-	0.0	0.1	2.0
10	2	21	1007.1	-34.2	-37.9	70	-	0.0	0.0	0.0
10	2	22	1007.1	-34.8	-38.5	69	-	0.0	0.0	0.0
10	2	23	1006.8	-33.5	-37.1	70	WSW	1.1	1.1	2.4
10	3	00	1006.5	-32.0	-35.7	70	WNW	2.1	2.3	3.0
10	3	01	1006.5	-31.7	-35.4	70	W	0.6	2.8	3.6
10	3	02	1005.6	-35.0	-39.0	66	ESE	0.8	0.8	2.6
10	3	03	1005.2	-34.4	-38.5	66	-	0.0	0.0	1.0

10	3	04	1004.7	-31.9	-35.6	69	-	0.0	0.8	2.0
10	3	05	1004.0	-34.2	-38.2	67	-	0.0	0.5	2.2
10	3	06	1002.5	-33.1	-37.2	67	-	0.3	2.0	2.8
10	3	07	1001.8	-29.5	-34.6	61	W	2.0	2.8	3.5
10	3	08	1001.3	-27.5	-35.4	47	-	0.0	2.0	2.7
10	3	09	1000.7	-25.4	-30.8	61	W	1.0	1.0	2.8
10	3	10	999.5	-24.1	-28.9	65	W	1.9	2.6	3.2
10	3	11	998.7	-20.7	-25.8	64	WSW	1.8	2.4	3.7
10	3	12	998.1	-19.0	-23.7	66	WNW	1.7	2.5	3.2
10	3	13	997.3	-17.1	-21.9	67	WSW	2.2	2.7	3.2
10	3	14	996.5	-16.4	-21.8	63	-	0.0	2.0	2.5
10	3	15	995.4	-18.2	-22.5	69	W	2.0	2.0	2.8
10	3	16	994.6	-17.5	-22.1	67	S	2.4	2.4	3.0
10	3	17	994.3	-17.0	-22.7	61	SSE	2.5	2.7	3.4
10	3	18	994.1	-18.9	-23.9	65	SSE	2.8	3.7	4.4
10	3	19	993.9	-18.5	-25.2	56	SE	3.6	3.6	4.3
10	3	20	994.1	-16.0	-25.1	46	E	1.2	3.4	5.9
10	3	21	994.3	-15.1	-26.0	39	-	0.0	1.3	2.4
10	3	22	994.3	-22.1	-29.9	49	SE	1.2	2.9	3.6
10	3	23	994.3	-22.9	-28.8	59	S	2.3	3.2	4.1
10	4	00	994.4	-18.8	-26.9	49	-	0.0	2.5	4.2
10	4	01	994.5	-18.0	-26.8	46	SE	3.3	3.3	7.1
10	4	02	994.1	-19.9	-28.0	48	-	0.3	4.2	6.1
10	4	03	994.0	-20.8	-28.2	52	SE	4.0	4.0	6.9
10	4	04	994.3	-16.3	-24.1	51	SE	5.9	5.9	10.0
10	4	05	994.3	-19.1	-27.1	49	SSE	2.7	4.8	8.6
10	4	06	995.1	-13.7	-24.9	38	SE	4.0	4.8	8.6
10	4	07	995.4	-18.2	-27.0	46	SSW	2.2	4.7	9.5
10	4	08	996.0	-15.2	-23.0	52	SSE	2.5	3.5	4.5
10	4	09	996.6	-14.5	-22.7	50	S	1.7	3.5	4.6
10	4	10	997.1	-16.9	-22.8	60	SSW	1.2	2.3	3.6
10	4	11	997.5	-13.1	-21.7	49	SW	2.3	2.9	5.6
10	4	12	997.9	-14.7	-21.0	59	SSW	1.3	1.8	3.2
10	4	13	998.1	-11.7	-20.0	50	ESE	1.2	2.8	4.6
10	4	14	998.5	-10.5	-20.6	43	W	0.5	1.5	2.2
10	4	15	998.5	-11.3	-19.5	51	E	2.6	2.6	4.4
10	4	16	998.8	-14.7	-21.5	57	W	1.4	1.9	3.8
10	4	17	999.5	-14.6	-27.7	55	SW	0.8	1.6	2.1
10	4	18	1000.0	-21.1	-25.6	67	SSW	1.9	1.9	2.8
10	4	19	1000.8	-18.3	-23.4	64	SE	2.4	3.1	3.9
10	4	20	1001.7	-17.6	-24.1	57	SE	3.5	3.5	5.0
10	4	21	1002.2	-18.1	-23.1	65	ESE	3.9	3.9	7.8
10	4	22	1002.4	-18.2	-25.3	54	SE	4.1	6.0	8.7
10	4	23	1002.6	-20.8	-27.2	57	SSE	2.1	3.1	4.8
10	5	00	1003.0	-21.2	-27.4	58	SW	1.6	3.1	4.4
10	5	01	1003.2	-21.3	-27.9	55	SSE	2.4	3.3	4.2
10	5	02	1003.0	-21.4	-27.8	57	SE	3.7	3.8	5.9
10	5	03	1002.9	-19.3	-26.4	54	SE	5.2	5.2	8.4
10	5	04	1002.3	-17.5	-25.1	52	ESE	8.4	8.4	14.0
10	5	05	1001.6	-15.8	-29.8	29	ESE	2.9	5.6	8.7
10	5	06	1001.1	-20.3	-29.9	42	S	2.8	3.3	4.6
10	5	07	1000.6	-21.1	-30.5	43	SSW	3.0	3.0	4.5
10	5	08	999.7	-14.9	-28.9	29	E	2.7	3.1	6.4
10	5	09	999.1	-13.3	-27.1	30	SSW	1.4	5.3	9.5
10	5	10	997.7	-13.3	-18.5	65	ESE	15.6	15.6	23.9
10	5	11	997.3	-11.4	-20.8	46	E	11.4	16.5	26.2
10	5	12	996.3	-11.4	-21.6	43	S	3.6	12.8	23.1
10	5	13	995.6	-11.4	-18.8	54	NW	4.8	7.5	16.9
10	5	14	993.1	-12.1	-14.6	82	ESE	13.3	13.3	23.7
10	5	15	993.4	-11.7	-14.8	77	ESE	15.9	18.7	27.0
10	5	16	992.6	-11.5	-14.8	76	ESE	17.5	17.5	28.2
10	5	17	992.6	-11.3	-16.0	68	SE	15.5	17.5	25.0
10	5	18	991.8	-12.5	-16.4	73	SE	16.3	16.3	23.5
10	5	19	991.6	-13.5	-16.4	79	SE	18.6	18.6	26.5
10	5	20	991.8	-13.4	-17.2	73	SE	16.0	19.4	25.5
10	5	21	992.7	-12.9	-17.7	67	SE	15.2	16.4	26.4
10	5	22	992.4	-10.3	-16.2	62	ESE	14.5	17.5	26.2
10	5	23	992.6	-12.3	-16.2	72	ESE	18.0	18.0	30.0
10	6	00	993.7	-11.5	-17.3	62	ESE	14.6	18.1	28.0
10	6	01	993.7	-11.7	-16.7	66	ESE	16.7	16.7	23.8
10	6	02	994.3	-12.1	-18.0	61	ESE	13.5	17.6	26.9
10	6	03	994.1	-11.5	-19.5	51	ESE	17.5	18.9	26.3
10	6	04	994.3	-11.6	-19.4	52	ESE	18.0	18.4	25.6

10	6	05	994.9	-11.6	-20.0	50	ESE	17.7	18.6	25.2
10	6	06	994.6	-11.5	-20.3	48	ESE	18.8	18.8	25.0
10	6	07	994.9	-11.5	-19.1	53	ESE	17.4	18.9	27.3
10	6	08	994.8	-11.5	-19.6	51	ESE	18.3	18.3	29.0
10	6	09	994.4	-11.0	-18.8	52	ESE	18.8	19.1	26.3
10	6	10	994.6	-10.4	-18.4	52	ESE	17.3	19.0	26.2
10	6	11	994.2	-10.0	-17.6	53	ESE	17.6	18.2	24.9
10	6	12	994.0	-9.2	-17.1	53	ESE	17.0	18.3	24.8
10	6	13	994.1	-8.6	-16.5	53	ESE	17.3	17.3	24.6
10	6	14	994.0	-8.2	-16.3	52	ESE	16.1	16.9	23.8
10	8	15	994.6	-8.4	-15.2	58	ESE	14.8	16.9	22.8
10	6	16	994.4	-8.0	-17.6	46	ESE	14.0	16.0	23.5
10	6	17	994.0	-8.6	-17.2	50	ESE	14.1	14.4	21.7
10	6	18	994.4	-9.3	-18.6	47	ESE	13.7	14.5	25.7
10	6	19	994.4	-9.5	-19.5	44	ESE	14.8	15.5	24.3
10	6	20	994.5	-9.7	-19.3	45	ESE	15.7	15.7	21.6
10	6	21	995.0	-10.2	-19.8	45	E	15.2	17.1	24.4
10	6	22	995.6	-10.8	-20.1	46	ESE	16.9	16.9	22.4
10	8	23	996.1	-11.2	-20.5	46	E	16.2	17.8	23.5
10	7	00	996.1	-11.2	-21.2	43	E	16.1	17.6	23.9
10	7	01	996.6	-11.0	-21.0	44	E	14.3	16.2	23.5
10	7	02	996.9	-11.2	-21.7	42	E	13.0	14.2	22.1
10	7	03	997.2	-11.7	-21.8	43	E	14.1	14.1	20.9
10	7	04	997.2	-11.8	-22.1	42	E	13.4	13.4	19.4
10	7	05	997.3	-12.5	-21.4	47	E	14.0	14.0	20.2
10	7	06	998.1	-11.4	-22.7	39	E	10.3	13.1	18.4
10	7	07	999.2	-10.0	-21.8	37	N	1.8	9.8	15.3
10	7	08	999.8	-9.6	-22.6	34	ENE	4.8	4.8	9.0
10	7	09	999.9	-10.6	-20.4	44	E	3.4	5.1	10.7
10	7	10	1000.4	-10.3	-22.0	38	S	3.4	3.4	7.3
10	7	11	1000.5	-8.9	-22.5	32	NNW	3.8	3.6	10.2
10	7	12	1001.0	-1.9	-16.7	67	WNW	2.3	2.6	6.1
10	7	13	1001.3	-1.0	-15.9	82	W	2.7	2.9	4.1
10	7	14	1001.8	-1°0'	-16.0	62	SW	3.3	3.6	4.9
10	7	15	1002.0	-10.1	-15.1	67	WSW	1.9	2.8	4.2
10	7	16	1002.5	-11.5	-15.8	70	W	1.9	2.5	3.2
10	7	17	1003.0	-12.5	-16.8	71	W	1.9	2.5	3.1
10	7	18	1003.2	-11.7	-17.1	64	WSW	1.9	2.6	3.4
10	7	19	1003.4	-13.9	-16.8	79	W	2.4	2.4	3.1
10	7	20	1004.0	-13.7	-16.4	80	W	0.3	2.4	3.2
10	7	21	1004.6	-11.1	-15.1	72	SSE	1.4	1.4	1.6
10	7	22	1005.0	-10.8	-14.7	73	SE	2.0	2.0	2.9
10	7	23	1005.4	-11.2	-15.6	70	SSE	1.8	1.8	2.6
10	8	00	1005.5	-11.6	-15.5	73	SSE	1.8	1.8	3.0
10	8	01	1005.9	-11.3	-16.0	68	SE	2.0	2.1	2.4
10	8	02	1006.2	-11.8	-15.2	76	S	1.9	2.1	2.5
10	8	03	1006.1	-11.8	-15.0	77	SSE	1.8	2.4	3.2
10	8	04	1006.0	-11.7	-15.1	76	SSE	1.7	1.9	4.2
10	8	05	1005.9	-11.9	-15.0	78	S	1.7	1.8	2.1
10	8	06	1005.8	-12.0	-14.9	79	SSE	1.6	1.7	2.1
10	8	07	1005.8	-11.3	-14.8	76	SSE	2.0	2.3	2.8
10	8	08	1006.0	-10.9	-14.9	72	SSE	1.8	2.0	2.7
10	8	09	1005.8	-10.4	-14.7	71	SSE	1.8	2.1	2.8
10	8	10	1005.8	-9.9	-14.6	68	SE	2.0	2.0	2.6
10	8	11	1005.7	-10.1	-14.0	73	S	1.3	1.6	1.8
10	8	12	1005.6	-9.8	-13.9	72	S	1.3	1.5	2.0
10	8	13	1005.5	-9.0	-13.9	88	WSW	1.0	1.6	2.0
10	8	14	1005.2	-9.0	-13.3	71	S	1.8	1.9	2.3
10	8	15	1004.7	-8.2	-13.1	68	WSW	0.8	1.7	2.1
10	8	16	1004.2	-8.9	-12.9	73	W	1.2	1.3	1.6
10	8	17	1003.7	-10.3	-13.2	79	W	1.8	1.8	2.3
10	8	18	1003.2	-10.7	-13.9	78	WSW	1.4	1.6	2.0
10	8	19	1002.6	-10.6	-14.2	75	SW	0.3	1.1	1.4
10	8	20	1002.0	-11.8	-14.0	83	S	0.9	1.2	1.8
10	8	21	1001.6	-11.7	-13.9	83	—	0.0	1.0	1.3
10	8	22	1001.1	-12.5	-14.7	83	—	0.0	0.0	0.0
10	8	23	1000.4	-12.9	-14.5	88	—	0.0	0.0	0.0
10	9	00	1000.0	-15.5	-17.3	86	N	0.5	1.4	1.9
10	9	01	999.5	-16.4	-18.0	87	—	0.0	1.1	1.9
10	9	02	999.3	-16.4	-19.2	79	S	1.7	1.7	2.2
10	9	03	999.1	-17.0	-20.0	78	SSE	0.8	1.3	2.3
10	9	04	998.4	-16.9	-19.7	79	SSE	1.9	1.9	2.3
10	9	05	997.7	-16.7	-20.0	75	S	2.6	2.6	3.5

10	9	06	997.1	-16.4	-20.1	73	S	2.7	2.8	3.3
10	9	07	996.7	-16.0	-19.9	72	S	1.9	2.6	3.2
10	9	08	996.4	-15.1	-19.1	72	S	2.4	2.4	2.9
10	9	09	996.0	-13.5	-17.6	71	SSW	1.3	2.0	2.5
10	9	10	995.3	-13.6	-17.8	70	SW	1.8	2.3	2.9
10	9	11	994.8	-11.9	-16.2	70	SW	1.6	1.9	2.3
10	9	12	994.1	-11.7	-16.0	70	SW	2.1	2.6	3.3
10	9	13	993.5	-11.1	-15.6	69	SW	2.1	2.4	3.5
10	9	14	992.9	-10.5	-15.5	67	SSW	1.7	2.2	3.0
10	9	15	992.4	-11.6	-15.0	76	W	2.4	2.4	3.3
10	9	16	992.0	-12.1	-16.0	73	W	2.0	2.9	3.6
10	9	17	991.5	-13.0	-16.8	73	W	1.2	1.6	2.4
10	9	18	991.1	-14.0	-17.6	74	WSW	0.7	1.1	1.8
10	9	19	990.9	-16.2	-19.1	78	-	0.0	1.0	1.3
10	9	20	990.8	-16.9	-19.4	81	-	0.0	1.4	2.0
10	9	21	991.0	-15.7	-18.5	80	NNW	0.4	1.6	2.2
10	9	22	991.1	-16.0	-18.6	81	-	0.1	1.9	2.8
10	9	23	990.9	-15.5	-18.6	77	WNW	1.6	2.2	2.8
10	10	00	990.8	-15.0	-18.3	76	SW	1.2	1.9	2.6
10	10	01	990.8	-14.3	-17.4	77	SSW	1.2	1.3	2.1
10	10	02	991.0	-14.0	-16.6	81	E	1.0	2.4	3.0
10	10	03	991.2	-14.0	-16.6	81	-	0.0	1.1	2.1
10	10	04	991.3	-14.1	-17.2	77	S	1.4	1.4	2.5
10	10	05	991.2	-14.6	-18.1	75	S	2.1	2.3	3.1
10	10	06	991.2	-14.7	-18.3	74	S	2.6	3.1	4.0
10	10	07	991.3	-14.4	-18.3	72	S	2.1	2.6	3.4
10	10	08	991.7	-13.9	-18.2	70	SSE	1.7	2.3	3.2
10	10	09	992.0	-10.7	-17.6	57	-	0.0	1.7	2.8
10	10	10	992.5	-12.8	-17.9	66	NW	1.6	1.6	2.5
10	10	11	993.2	-12.7	-17.1	70	W	2.4	2.4	3.5
10	10	12	993.3	-11.5	-17.3	62	W	1.4	2.4	2.9
10	10	13	993.7	-12.1	-17.5	64	WNW	2.2	2.2	2.9
10	10	14	994.1	-12.4	-17.6	65	WSW	2.2	2.4	3.1
10	10	15	994.3	-12.1	-17.1	66	SW	2.1	2.3	2.9
10	10	16	994.3	-12.8	-16.3	75	SW	1.5	2.1	2.7
10	10	17	994.4	-15.0	-18.2	77	WSW	1.3	1.3	1.6
10	10	18	994.5	-15.7	-18.9	77	SW	1.7	1.7	2.1
10	10	19	995.1	-16.6	-20.1	75	SW	1.9	2.0	2.4
10	10	20	995.9	-17.1	-20.5	75	S	1.0	1.9	2.2
10	10	21	996.8	-19.1	-21.8	80	WSW	0.7	1.2	1.5
10	10	22	997.5	-18.6	-21.5	78	S	1.9	2.0	2.4
10	10	23	998.1	-18.9	-22.4	74	SSW	1.5	2.2	2.9
10	11	00	998.8	-18.9	-22.9	71	SSW	1.7	2.1	3.0
10	11	01	999.3	-17.9	-21.9	71	SSE	2.9	3.0	3.7
10	11	02	1000.2	-21.7	-26.5	65	WSW	1.6	2.4	3.0
10	11	03	1001.0	-23.5	-26.8	74	-	0.2	0.9	1.8
10	11	04	1001.9	-23.9	-27.3	73	-	0.0	1.6	2.5
10	11	05	1002.9	-24.3	-27.8	73	-	0.0	1.4	2.1
10	11	06	1004.0	-23.4	-27.2	71	-	0.0	0.0	0.0
10	11	07	1005.0	-21.3	-256	68	-	0.0	0.6	1.9
10	11	08	1005.9	-20.4	-24.5	69	-	0.0	0.4	1.7
10	11	09	1006.9	-18.8	-22.9	70	W	0.7	0.7	2.1
10	11	10	1007.9	-16.6	-20.7	70	W	1.3	1.4	1.8
10	11	11	1008.5	-14.4	-18.8	69	W	1.1	1.4	1.8
10	11	12	1009.2	-14.1	-18.3	71	WSW	2.0	2.2	2.7
10	11	13	1009.4	-11.7	-17.0	65	-	0.0	1.9	2.4
10	11	14	1009.7	-11.6	-16.6	67	W	1.3	1.3	1.8
10	11	15	1009.9	-10.4	-15.5	66	WSW	0.4	1.4	1.7
10	11	16	1010.0	-12.2	-16.7	69	WSW	1.3	1.9	2.3
10	11	17	1009.8	-13.2	-17.2	72	WSW	1.1	1.2	1.5
10	11	18	1009.8	-14.2	-18.4	70	W	0.5	1.2	1.5
10	11	19	1009.7	-16.5	-19.8	76	-	0.0	0.3	0.6
10	11	20	1009.6	-18.8	-21.8	77	-	0.0	0.0	0.0
10	11	21	1009.3	-19.2	-21.6	81	-	0.3	0.3	1.8
10	11	22	1008.8	-17.3	-20.0	79	S	2.7	2.7	3.3
10	11	23	1008.6	-17.9	-20.9	78	SSE	1.9	2.5	3.2
10	12	00	1008.2	-18.3	-21.2	78	-	0.0	2.2	2.7
10	12	01	1007.8	-18.3	-21.4	77	SSE	2.0	2.0	2.6
10	12	02	1007.1	-18.5	-22.0	74	S	2.1	2.1	2.6
10	12	03	1006.6	-19.2	-22.8	73	S	2.4	2.6	3.0
10	12	04	1005.9	-17.0	-21.7	67	SSE	4.0	4.0	5.1
10	12	05	1004.7	-18.1	-22.5	68	SSW	2.8	3.9	4.7
10	12	06	1003.5	-17.4	-22.6	64	SSW	2.7	3.4	4.7

10	12	07	1002.6	-20.1	-24.2	69	W	2.3	2.8	3.6
10	12	08	1001.1	-19.7	-23.5	72	WSW	1.5	2.0	3.0
10	12	09	1000.0	-17.8	-21.9	70	WSW	2.0	2.0	2.6
10	12	10	999.8	-16.9	-21.2	70	W	2.1	2.2	2.8
10	12	11	999.3	-14.2	-19.3	65	SSW	1.5	2.6	3.5
10	12	12	998.5	-13.2	-18.7	64	W	1.1	1.5	2.5
10	12	13	997.4	-12.2	-17.5	65	W	1.3	1.7	2.3
10	12	14	996.5	-12.7	-16.7	72	NE	2.2	2.2	3.6
10	12	15	995.7	-11.6	-16.6	67	NNE	1.4	2.0	3.2
10	12	16	995.3	-13.0	-16.8	73	N	3.2	3.2	4.3
10	12	17	995.3	-13.2	-16.9	74	N	1.7	3.2	4.1
10	12	18	995.1	-13.1	-16.5	75	-	0.2	1.7	2.5
10	12	19	995.1	-13.1	-16.9	73	SSE	1.7	1.7	2.3
10	12	20	995.4	-12.5	-16.3	73	SSE	2.0	2.1	3.3
10	12	21	995.7	-12.2	-15.5	76	S	1.3	1.7	3.5
10	12	22	996.1	-12.1	-14.0	86	S	2.0	2.0	2.6
10	12	23	996.2	-11.4	-12.8	89	S	2.0	2.0	2.8
10	13	00	996.6	-11.0	-12.4	90	-	0.0	2.0	3.1
10	13	01	997.3	-10.3	-11.5	91	SSW	0.4	1.0	1.8
10	13	02	997.7	-8.8	-10.0	91	S	2.4	2.4	3.1
10	13	03	998.1	-8.0	-9.3	91	S	2.8	3.2	4.5
10	13	04	998.4	-6.7	-11.0	71	E	4.1	4.5	6.0
10	13	05	998.9	-7.0	-11.7	69	E	2.6	4.9	6.7
10	13	06	999.2	-7.1	-11.6	70	E	2.4	2.9	3.9
10	13	07	999.7	-7.8	-11.9	72	SW	1.6	2.9	3.9
10	13	08	1000.1	-6.5	-12.5	62	SE	1.5	1.7	2.7
10	13	09	1000.4	-6.5	-12.2	64	E	3.1	3.1	4.7
10	13	10	1000.7	-6.4	-11.9	65	E	2.9	4.6	6.3
10	13	11	1001.0	-6.5	-106	73	WSW	3.0	3.0	3.9
10	13	12	1000.9	-7.1	-10.4	77	SW	2.9	3.3	4.2
10	13	13	1000.7	-7.4	-10.4	79	WSW	3.6	3.6	5.1
10	13	14	1000.9	-7.3	-10.5	77	WSW	2.2	4.1	5.0
10	13	15	1000.7	-7.9	-10.6	81	WSW	2.5	2.7	3.8
10	13	16	1000.2	-7.4	-106	78	WSW	2.5	3.2	3.9
10	13	17	1000.1	-8.3	-10.9	82	WSW	1.5	2.4	3.3
10	13	18	999.6	-7.7	-11.5	74	W	1.0	2.0	3.6
10	13	19	999.3	-4.9	-12.5	55	ENE	3.3	3.7	8.9
10	13	20	999.1	-5.2	-12.5	57	S	1.0	2.5	4.8
10	13	21	999.0	-5.4	-11.3	63	ENE	3.7	3.9	6.5
10	13	22	998.8	-5.7	-10.5	69	ENE	5.2	5.9	7.9
10	13	23	998.6	-5.6	-11.0	66	NE	4.1	4.1	7.4
10	14	00	998.3	-5.9	-10.2	71	ENE	3.7	3.7	5.3
10	14	01	998.0	-5.8	-10.9	67	WSW	2.3	4.9	7.5
10	14	02	997.7	-5.2	-10.5	66	ENE	6.0	6.7	9.8
10	14	03	997.4	-5.8	-10.4	69	E	6.4	6.4	9.5
10	14	04	997.2	-5.3	-12.2	58	SSW	2.7	5.0	8.5
10	14	05	997.2	-5.6	-12.7	57	WSW	0.5	3.3	6.7
10	14	06	996.9	-5.8	-12.6	59	SSW	1.3	1.5	2.9
10	14	07	997.0	-7.4	-11.2	74	SSW	2.0	2.0	2.9
10	14	08	996.8	-6.8	-10.6	74	S	1.6	1.8	2.3
10	14	09	996.7	-6.0	-10.0	73	SSW	0.9	2.1	3.4
10	14	10	996.5	-5.3	-9.3	73	SW	1.6	1.8	2.4
10	14	11	996.3	-5.1	-8.7	75	SSW	2.2	3.0	3.7
10	14	12	996.2	-3.7	-8.1	72	S	1.1	2.2	2.9
10	14	13	996.0	-4.6	-8.3	75	W	1.4	2.0	2.6
10	14	14	995.8	-5.4	-8.6	78	SSW	1.3	1.5	1.8
10	14	15	995.5	-5.9	-9.2	77	NNW	1.8	1.8	3.4
10	14	16	995.2	-6.8	-9.6	81	NW	2.4	2.5	3.4
10	14	17	995.0	-8.2	-10.7	82	W	1.0	3.0	3.9
10	14	18	994.8	-9.9	-11.9	86	SSW	1.6	1.6	2.0
10	14	19	994.6	-10.8	-12.6	87	SSW	2.1	2.1	2.4
10	14	20	994.6	-11.4	-12.9	89	SW	1.8	1.9	2.4
10	14	21	994.3	-11.9	-13.8	85	SSW	1.9	2.3	2.7
10	14	22	994.0	-10.7	-13.1	83	W	2.0	2.1	3.0
10	14	23	993.6	-8.9	-11.4	82	SW	2.3	3.7	4.6
10	15	00	993.5	-10.3	-12.3	85	SSW	1.1	2.7	3.4
10	15	01	993.2	-11.0	-12.9	86	NNW	1.0	1.2	2.1
10	15	02	992.9	-9.4	-12.0	82	W	1.2	1.6	2.3
10	15	03	992.3	-9.0	-11.5	82	S	1.2	2.0	3.2
10	15	04	991.7	-6.2	-10.5	71	SSE	1.0	1.9	4.0
10	15	05	991.2	-7.6	-11.1	76	SSW	1.5	2.1	2.4
10	15	06	990.8	-6.7	-11.3	70	ENE	1.3	1.7	2.5
10	15	07	990.7	-7.0	-11.3	72	NE	1.7	2.6	3.6

10	15	08	990.8	-8.2	-10.6	83	WV	2.2	2.3	3.6
10	15	09	990.6	-7.0	-10.1	79	SW	0.5	1.7	2.2
10	15	10	990.5	-6.6	-8.6	86	NNW	2.8	2.8	3.7
10	15	11	990.4	-7.1	-8.9	87	W,,	3.7	3.8	5.0
10	15	12	990.0	-7.7	-9.2	89	NNW	4.0	4.0	4.9
10	15	13	989.6	-7.8	-9.4	88	W	3.1	4.0	5.2
10	15	14	989.0	-8.9	-8.8	88	SW	2.7	3.3	4.0
10	15	15	988.8	-7.7	-9.2	89	NNW	4.6	4.6	6.6
10	15	16	988.8	-8.0	-9.4	90	NW	4.0	4.9	6.6
10	15	17	988.8	-8.8	-10.1	91	NNW	3.8	4.5	6.7
10	15	18	988.9	-8.9	-10.1	91	N	2.2	3.6	4.9
10	15	19	988.8	-9.1	-10.3	91	NNE	0.5	2.5	3.5
10	15	20	989.0	-9.5	-10.7	91	WSW	1.7	1.7	2.2
10	15	21	989.2	-9.5	-10.8	91	WSW	1.8	2.1	4.6
10	15	22	989.2	-9.6	-10.8	91	WSW	3.1	3.1	3.9
10	15	23	989.3	-9.5	-10.7	91	SW	4.7	4.7	5.9
10	16	00	989.4	-9.8	-11.0	90	W	4.4	4.6	6.0
10	16	01	989.5	-9.8	-11.1	90	WSW	5.1	5.2	8.7
10	16	02	989.8	-10.0	-11.3	91	W	4.1	5.0	8.5
10	16	03	989.6	-10.0	-11.4	90	SW	4.3	5.2	6.5
10	16	04	989.9	-10.1	-11.4	90	SW	4.2	4.8	6.2
10	16	05	990.1	-10.0	-11.5	89	SW	4.2	4.8	6.3
10	16	06	990.2	-10.0	-11.4	89	SW	3.9	4.4	5.4
10	16	07	990.4	-9.5	-10.9	90	SSW	2.4	4.2	5.4
10	16	08	990.6	-9.5	-11.0	89	S	2.1	2.1	2.5
10	16	09	991.3	-9.0	-10.6	88	NNW	2.0	2.2	2.9
10	16	10	991.8	-9.9	-11.8	85	NW	2.6	3.1	4.0
10	16	11	992.1	-10.2	-12.4	84	NNW	2.4	2.8	3.7
10	16	12	992.4	-10.7	-13.0	83	NNW	1.7	2.5	3.6
10	16	13	992.7	-11.5	-13.8	83	WSW	1.0	1.4	1.7
10	16	14	993.1	-11.7	-14.1	83	SSE	1.3	1.3	1.7
10	16	15	993.3	-11.0	-13.5	82	SSW	0.7	1.6	2.1
10	16	16	993.5	-14.3	-15.4	91	NW	0.7	0.8	0.9
10	16	17	993.7	-13.8	-16.1	90	-	0.0	0.4	0.7
10	16	18	994.0	-14.7	-16.0	89	-	0.0	0.0	0.0
10	16	19	994.3	-16.3	-18.0	87	-	0.0	0.0	0.0
10	16	20	994.9	-17.8	-19.5	86	-	0.0	0.0	0.0
10	16	21	995.1	-23.0	-25.4	81	-	0.0	0.0	0.0
10	16	22	995.4	-22.9	-25.4	81	-	0.0	0.0	0.0
10	16	23	998.0	-19.4	-21.5	83	-	0.0	0.0	0.0
10	17	00	996.1	-17.2	-19.2	84	-	0.0	0.0	0.0
10	17	01	996.2	-16.9	-18.7	86	WSW	1.3	1.3	1.6
10	17	02	996.4	-16.2	-18.1	86	-	0.2	1.3	1.6
10	17	03	996.6	-15.6	-17.3	86	ENE	0.7	1.3	1.9
10	17	04	996.6	-18.7	-18.6	85	N	0.5	0.8	1.0
10	17	05	996.6	-16.5	-18.4	85	NNW	0.9	1.0	1.3
10	17	06	998.5	-15.7	-17.5	88	W	0.4	0.9	1.1
10	17	07	996.5	-14.8	-16.5	87	-	0.0	0.0	0.5
10	17	08	996.2	-13.8	-15.5	87	-	0.0	0.0	0.0
10	17	09	996.2	-12.6	-14.3	88	-	0.0	0.0	0.0
10	17	10	996.1	-12.2	-14.0	88	SW	1.8	1.6	2.3
10	17	11	996.0	-11.0	-13.9	79	WSW	2.0	2.5	3.0
10	17	12	995.7	-9.8	-13.3	75	WSW	1.1	2.0	2.5
10	17	13	995.5	-8.7	-13.6	68	W	0.9	1.8	2.5
10	17	14	995.2	-9.8	-13.8	73	WSW	1.7	1.9	2.5
10	17	15	994.8	-10.1	-14.7	69	SSW	1.1	1.4	1.9
10	17	16	994.2	-13.8	-17.5	74	E	1.0	1.8	2.1
10	17	17	993.5	-14.7	-17.8	79	WSW	0.8	0.8	1.2
10	17	18	993.0	-16.7	-19.1	82	-	0.3	1.3	1.9
10	17	19	992.9	-18.6	-19.6	92	-	0.0	0.1	1.2
10	17	20	993.1	-19.9	-21.8	84	-	0.0	0.0	0.0
10	17	21	993.1	-20.7	-22.9	83	-	0.0	0.0	0.0
10	17	22	993.2	-19.4	-21.6	83	-	0.0	0.0	0.0
10	17	23	993.3	-18.6	-20.8	83	-	0.0	0.0	0.0
10	18	00	992.8	-18.5	-20.6	84	SSW	1.2	1.2	1.5
10	18	01	992.5	-15.8	-17.8	85	SSW	1.6	1.7	2.2
10	18	02	992.4	-13.8	-16.2	82	S	1.8	1.9	2.7
10	18	03	992.2	-14.2	-16.7	82	SSW	1.5	1.8	2.2
10	18	04	991.9	-12.7	-15.3	81	SSW	1.9	2.5	3.1
10	18	05	991.8	-8.8	-14.6	63	E	4.4	4.4	7.0
10	18	06	991.8	-8.5	-14.4	63	WSW	0.8	4.1	6.8
10	18	07	991.9	-7.9	-14.0	61	S	1.6	1.7	2.7
10	18	08	992.2	-6.9	-12.6	64	E	2.0	4.0	7.7

10	18	09	992.3	-7.0	-11.3	71	WNW	1.9	2.5	4.9
10	18	10	992.4	-6.7	-9.9	78	WSW	1.7	2.6	3.8
10	18	11	992.2	-7.1	-9.8	81	SW	3.7	3.7	5.3
10	18	12	992.3	-6.1	-11.7	64	ESE	2.9	4.4	7.7
10	18	13	992.3	-5.9	-11.8	63	ENE	3.8	4.4	7.7
10	18	14	992.3	-6.2	-10.3	73	SW	2.8	3.1	4.4
10	18	15	992.3	-5.0	-11.4	61	SW	1.7	1.7	3.7
10	18	16	992.6	-5.6	-10.9	66	SSW	2.3	2.5	4.0
10	18	17	992.8	-8.2	-12.2	73	SW	2.7	2.7	5.1
10	18	18	993.0	-8.4	-11.2	80	W	2.5	3.3	4.1
10	18	19	993.1	-7.8	-12.0	72	SSW	1.4	2.8	5.0
10	18	20	993.4	-9.4	-12.4	79	W	2.3	2.3	2.7
10	18	21	993.9	-9.4	-11.8	82	WNW	3.0	3.7	5.2
10	18	22	994.3	-9.7	-12.0	83	NNE	0.5	2.7	4.2
10	18	23	994.4	-11.9	-13.7	86	NNW	1.9	3.8	5.6
10	19	00	994.3	-12.1	-14.1	84	WSW	0.7	1.2	1.9
10	19	01	994.2	-13.1	-15.1	85	WNW	0.9	1.7	2.4
10	19	02	993.8	-13.3	-15.2	86	SW	1.3	1.8	2.7
10	19	03	993.2	-12.0	-14.3	83	SSW	3.0	3.0	3.6
10	19	04	992.4	-11.9	-14.3	83	S	2.3	3.5	4.5
10	19	05	991.8	-10.0	-14.5	69	S	2.7	2.7	4.0
10	19	06	991.4	-9.6	-14.1	70	S	3.3	3.6	4.7
10	19	07	991.0	-8.6	-14.8	61	ESE	3.7	3.8	7.2
10	19	08	990.6	-7.9	-14.5	59	ESE	2.5	5.0	7.1
10	19	09	989.8	-7.8	-12.8	67	S	2.9	3.3	5.4
10	19	10	988.9	-6.8	-12.5	64	S	3.2	4.3	5.3
10	19	11	988.4	-6.6	-11.7	67	ESE	1.3	3.1	3.7
10	19	12	987.3	-6.4	-12.2	64	SSW	2.0	2.0	3.1
10	19	13	986.2	-5.9	-12.2	61	SW	2.2	2.8	3.9
10	19	14	984.9	-5.1	-10.8	64	WSW	1.7	2.9	3.5
10	19	15	984.1	-3.9	-10.3	61	SSW	1.6	2.7	3.7
10	19	16	983.1	-8.3	-13.3	67	SSW	2.4	2.4	3.0
10	19	17	982.3	-8.5	-13.7	66	SE	1.9	2.5	3.2
10	19	18	981.8	-9.0	-15.7	58	SSE	2.6	2.6	4.7
10	19	19	981.6	-6.9	-15.2	52	ESE	5.0	5.4	8.5
10	19	20	981.6	-9.1	-16.5	55	ESE	4.7	6.3	9.1
10	19	21	981.6	-9.5	-17.4	53	S	3.4	4.2	6.0
10	19	22	981.7	-9.3	-17.8	50	ESE	3.0	3.5	5.3
10	19	23	981.6	-9.1	-17.0	53	E	4.1	5.0	8.0
10	20	00	981.6	-10.0	-17.4	55	ESE	2.5	5.1	8.2
10	20	01	982.1	-9.9	-17.5	54	NE	2.0	2.3	3.7
10	20	02	982.4	-8.2	-16.4	52	ESE	3.7	5.9	8.7
10	20	03	982.8	-8.3	-17.1	49	ENE	2.4	3.5	9.1
10	20	04	983.3	-10.4	-18.4	52	SE	1.3	3.3	7.7
10	20	05	983.8	-10.0	-17.7	53	SSE	2.4	2.4	9.8
10	20	06	983.8	-9.3	-17.6	51	ENE	2.8	7.5	15.4
10	20	07	984.0	-8.6	-17.7	48	ESE	3.9	6.6	12.6
10	20	08	983.8	-8.3	-15.5	56	NE	5.9	6.8	10.7
10	20	09	983.7	-7.7	-15.1	56	ENE	4.0	8.0	13.2
10	20	10	984.0	-6.3	-14.7	52	NE	5.6	11.3	16.0
10	20	11	984.4	-6.9	-13.3	60	E	7.3	8.5	13.5
10	20	12	984.1	-6.6	-12.6	62	E	8.1	9.6	15.3
10	20	13	984.2	-6.3	-12.9	60	ENE	8.0	9.6	14.3
10	20	14	983.9	-6.5	-11.8	66	ENE	9.6	11.0	15.4
10	20	15	984.4	-6.2	-12.5	61	ENE	7.4	9.7	13.7
10	20	16	984.3	-6.6	-12.5	63	E	8.9	9.0	13.6
10	20	17	984.7	-7.2	-13.1	63	NE	5.7	9.9	13.7
10	20	18	985.3	-7.6	-14.4	59	NE	6.1	6.2	10.3
10	20	19	985.1	-8.9	-14.8	62	E	8.1	8.5	15.8
10	20	20	985.7	-10.0	-15.0	67	E	11.9	11.9	17.6
10	20	21	986.3	-10.7	-15.9	65	E	10.0	12.7	17.5
10	20	22	986.6	-11.0	-16.6	63	E	9.0	11.0	16.0
10	20	23	986.4	-12.0	-16.3	71	E	11.8	12.4	20.6
10	21	00	986.4	-12.6	-17.1	69	E	11.1	13.1	18.8
10	21	01	986.0	-13.0	-17.3	70	E	11.1	11.7	17.3
10	21	02	986.2	-13.2	-18.3	66	E	8.3	11.0	18.2
10	21	03	986.4	-12.8	-20.9	51	ENE	3.8	7.6	12.0
10	21	04	986.0	-13.6	-22.1	49	SE	3.6	3.8	7.3
10	21	05	985.7	-13.3	-22.4	46	SE	1.3	2.0	4.0
10	21	06	985.5	-15.8	-21.6	61	S	1.7	2.4	3.2
10	21	07	985.1	-13.6	-21.6	51	SE	3.6	4.5	6.5
10	21	08	984.7	-13.5	-22.8	46	N	1.2	3.7	5.8
10	21	09	984.0	-11.7	-21.0	46	SE	5.1	6.1	10.0

10	21	10	983.9	-11.3	-18.8	54	NNW	1.3	3.1	5.2
10	21	11	983.5	-9.8	-17.8	52	WSW	1.0	1.3	2.4
10	21	12	982.9	-9.7	-18.2	50	W	1.3	1.3	1.7
10	21	13	982.4	-9.6	-18.8	47	SW	1.5	1.5	2.1
10	21	14	981.9	-9.9	-17.3	55	SW	2.7	2.7	3.4
10	21	15	981.1	-9.5	-15.8	60	SW	1.5	2.3	3.5
10	21	16	980.2	-10.4	-15.3	67	WNW	1.6	1.6	2.2
10	21	17	979.7	-11.4	-16.7	65	WNW	1.7	2.2	2.6
10	21	18	979.1	-13.8	-17.7	72	WNW	1.6	2.1	2.9
10	21	19	978.7	-14.8	-19.4	68	SSW	0.6	2.0	2.6
10	21	20	978.5	-18.7	-22.1	74	W	1.6	1.9	2.4
10	21	21	978.4	-18.3	-20.8	81	-	0.0	1.7	2.0
10	21	22	978.4	-18.1	-20.6	81	S	1.6	2.2	2.7
10	21	23	978.4	-18.1	-21.8	73	SSE	1.7	1.7	2.3
10	22	00	978.2	-17.6	-22.2	67	SSE	3.0	3.0	3.7
10	22	01	978.4	-18.5	-23.0	68	SE	1.9	2.8	3.9
10	22	02	978.6	-19.5	-23.5	71	SSW	1.8	2.2	2.9
10	22	03	978.8	-20.2	-24.1	71	S	2.0	2.2	2.9
10	22	04	979.1	-20.3	-23.8	74	S	1.0	2.4	2.9
10	22	05	979.4	-20.0	-24.7	67	S	1.5	2.1	2.5
10	22	06	979.7	-19.0	-23.5	67	SSW	1.1	1.7	2.5
10	22	07	980.1	-18.7	-24.3	61	SSW	1.2	1.2	1.8
10	22	08	980.4	-17.2	-22.7	62	SSW	1.4	1.6	2.1
10	22	09	980.8	-16.2	-21.9	61	W	0.7	1.2	1.8
10	22	10	981.5	-14.8	-20.2	64	WNW	0.9	1.4	2.5
10	22	11	982.3	-13.1	-18.7	63	W	0.7	1.4	3.5
10	22	12	983.1	-13.2	-18.8	63	W	1.6	1.8	2.8
10	22	13	983.7	-11.3	-18.6	55	SSW	1.6	1.7	2.2
10	22	14	984.4	-10.6	-18.3	54	S	1.3	1.7	2.0
10	22	15	985.1	-9.6	-16.8	56	SW	0.9	1.1	1.5
10	22	16	985.8	-10.8	-17.6	57	WSW	1.0	1.0	1.2
10	22	17	986.4	-12.0	-18.4	59	W	1.1	1.3	1.4
10	22	18	987.2	-13.7	-19.8	60	W	1.1	1.4	1.8
10	22	19	988.2	-16.7	-21.7	65	W	1.2	1.5	1.7
10	22	20	988.9	-18.6	-22.8	69	SSW	1.8	1.8	2.2
10	22	21	989.8	-19.2	-22.2	77	S	2.0	2.1	2.4
10	22	22	990.4	-19.1	-22.7	73	SSE	1.4	2.5	3.9
10	22	23	991.1	-19.9	-22.7	79	S	1.3	1.6	2.2
10	23	00	991.7	-20.3	-23.2	78	S	1.4	1.7	2.0
10	23	01	992.1	-18.6	-23.2	67	SE	0.8	1.6	2.1
10	23	02	992.9	-20.2	-25.3	64	W	0.4	0.9	1.8
10	23	03	993.5	-20.8	-24.1	75	-	0.0	0.4	1.0
10	23	04	994.0	-20.8	-24.6	71	-	0.0	0.0	0.0
10	23	05	994.7	-20.8	-24.7	71	-	0.0	0.0	0.0
10	23	06	995.1	-22.1	-26.1	70	SW	1.2	1.7	2.1
10	23	07	995.6	-17.0	-20.9	72	S	1.7	1.7	2.0
10	23	08	998.2	-15.4	-20.1	67	S	1.2	1.9	2.4
10	23	09	996.7	-17.2	-21.3	70	W	1.4	1.4	1.8
10	23	10	997.2	-14.7	-19.1	69	W	2.0	2.2	2.6
10	23	11	997.7	-13.0	-18.4	64	WSW	1.6	2.0	2.6
10	23	12	998.1	-11.2	-17.4	60	WSW	1.0	1.7	2.0
10	23	13	998.2	-11.3	-17.5	61	WSW	1.8	1.8	2.1
10	23	14	998.6	-10.4	-17.8	65	WSW	1.1	1.9	2.3
10	23	15	998.9	-10.4	-16.9	59	W	1.2	1.4	1.7
10	23	16	999.1	-11.4	-16.2	68	WNW	1.3	1.4	1.7
10	23	17	999.2	-14.0	-17.7	73	W	1.6	1.7	2.1
10	23	18	999.3	-14.0	-18.2	70	W	1.1	1.8	2.2
10	23	19	999.5	-17.0	-20.6	74	W	1.5	1.5	1.7
10	23	20	1000.0	-18.0	-21.4	75	WSW	0.6	1.3	1.5
10	23	21	1000.0	-20.4	-23.4	77	W	1.0	1.0	1.3
10	23	22	1000.3	-22.2	-25.1	77	WNW	1.1	1.5	1.7
10	23	23	1000.6	-22.6	-25.2	79	-	0.0	1.2	1.6
10	24	00	1000.8	-24.0	-26.7	78	-	0.0	1.0	1.6
10	24	01	1000.9	-24.2	-26.9	78	-	0.0	0.0	0.0
10	24	02	1001.0	-25.9	-28.6	78	-	0.0	0.0	0.0
10	24	03	1001.3	-26.0	-28.6	79	-	0.0	0.0	0.0
10	24	04	1001.2	-22.6	-24.7	83	SSE	0.6	0.6	1.8
10	24	05	1000.7	-22.8	-25.7	77	S	1.7	1.7	2.0
10	24	06	1000.3	-20.3	-23.8	74	SW	1.2	1.5	1.8
10	24	07	999.9	-21.4	-25.0	73	SW	1.6	1.6	2.1
10	24	08	999.3	-19.9	-24.2	68	WNW	0.9	1.6	2.0
10	24	09	998.9	-18.0	-22.6	67	WSW	1.1	1.1	1.7
10	24	10	998.6	-12.9	-19.2	59	SW	0.6	0.9	1.3

10	24	11	998.0	-11.9	-18.4	58	WSW	0.4	0.9	1.5
10	24	12	997.3	-12.6	-18.6	61	WSW	1.5	2.0	2.5
10	24	13	996.4	-12.8	-18.7	61	W	2.0	2.0	2.6
10	24	14	995.8	-11.5	-17.7	60	W	1.2	2.2	2.7
10	24	15	995.0	-5.4	-18.6	35	-	0.0	0.8	1.5
10	24	16	994.1	-8.8	-16.0	56	-	0.0	0.0	0.0
10	24	17	993.3	-12.1	-16.7	68	WNW	1.0	1.1	1.4
10	24	18	992.5	-14.3	-18.3	72	WNW	1.2	1.2	1.7
10	24	19	991.8	-16.0	-20.1	71	W	0.8	1.5	2.1
10	24	20	991.5	-17.7	-21.1	74	SW	0.4	0.8	1.1
10	24	21	991.3	-20.7	-23.2	60	WSW	0.	1.0	1.3
10	24	22	991.3	-16.5	-20.9	69	ESE	2.1	2.2	2.9
10	24	23	991.4	-14.2	-19.4	65	E	4.0	4.0	5.0
10	25	00	991.4	-12.5	-17.8	65	SE	3.2	4.3	5.2
10	25	01	991.4	-11.7	-17.9	60	ESE	2.4	3.1	4.2
10	25	02	991.1	-12.3	-17.2	67	SSE	3.0	3.7	4.9
10	25	03	991.0	-11.6	-16.6	66	SE	2.7	2.9	4.6
10	25	04	990.8	-11.9	-16.7	67	S	2.9	3.1	4.3
10	25	05	990.8	-11.5	-16.8	65	ESE	1.9	3.6	5.5
10	25	06	990.8	-10.7	-16.9	61	SE	2.6	2.7	4.7
10	25	07	990.9	-10.4	-17.4	57	ESE	6.2	6.2	8.3
10	25	08	991.1	-9.7	-17.6	53	E	4.7	5.3	7.9
10	25	09	991.1	-9.9	-16.3	59	SE	2.2	5.7	9.7
10	25	10	991.0	-9.5	-15.8	60	E	3.8	3.8	6.6
10	25	11	991.1	-8.5	-16.3	53	S	2.1	3.6	5.6
10	25	12	991.2	-7.6	-17.1	46	SSW	3.0	3.3	6.6
10	25	13	991.1	-7.4	-15.3	53	S	1.2	2.6	4.9
10	25	14	991.0	-9.0	-11.8	80	SSW	3.2	3.2	5.5
10	25	15	990.8	-8.6	-12.8	72	S	2.0	2.7	3.9
10	25	16	990.7	-9.0	-12.6	75	SSW	1.3	1.6	2.2
10	25	17	990.5	-8.7	-13.4	69	S	2.6	2.6	3.8
10	25	18	990.2	-9.2	-13.0	74	S	2.0	2.6	3.4
10	25	19	990.0	-9.6	-13.3	75	S	2.3	2.8	3.6
10	25	20	989.9	-10.2	-13.3	76	S	2.2	2.4	2.9
10	25	21	989.7	-10.1	-13.5	76	SSW	2.0	2.2	2.8
10	25	22	989.7	-10.6	-13.7	78	SSW	1.0	2.0	2.5
10	25	23	989.8	-10.3	-13.6	77	SSE	2.0	2.0	2.6
10	26	00	990.0	-10.0	-15.0	67	E	4.3	4.3	6.3
10	26	01	990.0	-10.1	-15.2	67	SE	3.2	4.0	5.2
10	26	02	990.1	-10.1	-16.3	61	E	5.1	5.1	7.2
10	26	03	989.9	-10.9	-16.9	62	ESE	6.0	6.3	9.9
10	26	04	989.8	-11.3	-17.3	61	E	5.1	6.0	8.2
10	26	05	989.9	-10.8	-18.7	52	ENE	3.1	5.0	7.9
10	26	06	989.8	-12.9	-18.7	62	NE	2.3	3.5	5.3
10	26	07	989.7	-11.7	-17.9	60	ENE	2.1	2.7	3.9
10	26	08	989.6	-12.0	-17.5	63	ENE	1.9	3.3	4.6
10	26	09	989.4	-10.1	-16.2	61	WSW	1.4	1.7	2.5
10	26	10	989.5	-10.7	-15.1	70	W	1.8	1.8	2.4
10	26	11	989.4	-8.8	-14.5	63	SW	1.9	1.9	2.4
10	26	12	989.1	-6.5	-14.3	63	WSW	2.2	2.4	3.0
10	26	13	988.8	-8.3	-14.7	60	WSW	2.5	2.9	3.7
10	26	14	988.5	-7.8	-14.3	60	SW	2.1	2.4	3.0
10	26	15	988.0	-7.6	-13.5	63	WSW	2.5	2.6	3.3
10	26	16	987.6	-8.3	-13.2	68	WSW	1.9	2.3	2.9
10	26	17	987.5	-10.1	-13.8	74	WSW	1.3	2.3	3.0
10	26	18	987.5	-11.2	-15.0	74	WSW	1.5	1.5	2.2
10	26	19	987.3	-13.2	-16.3	78	WSW	1.2	1.2	1.7
10	26	20	987.3	-14.0	-16.8	79	SSW	2.0	2.0	2.3
10	26	21	987.6	-14.0	-16.5	82	SE	1.9	2.0	2.4
10	26	22	987.9	-15.6	-17.9	82	ENE	1.8	2.6	2.9
10	26	23	988.0	-14.1	-17.0	79	E	2.3	2.3	2.6
10	27	00	988.1	-12.1	-16.8	68	E	2.3	2.3	3.0
10	27	01	988.2	-11.3	-17.0	62	SE	1.0	2.2	3.3
10	27	02	988.3	-12.3	-17.5	65	E	1.8	1.8	2.6
10	27	03	988.6	-11.8	-18.0	60	SSE	2.1	2.1	4.1
10	27	04	988.7	-14.1	-18.4	70	S	2.7	2.9	3.9
10	27	05	988.7	-13.9	-18.0	71	S	2.6	3.1	4.0
10	27	06	988.7	-13.7	-17.6	72	S	2.6	2.8	3.5
10	27	07	988.6	-12.8	-16.9	71	SSE	2.2	2.5	3.3
10	27	06	988.6	-11.5	-16.3	68	S	2.2	2.5	3.1
10	27	09	988.3	-10.4	-15.0	69	S	1.6	2.0	2.6
10	27	10	986.3	-7.4	-14.6	56	SSW	0.6	1.1	1.7
10	27	11	988.2	-6.8	-12.2	66	W	1.2	1.2	1.7

10	27	12	988.1	-6.7	-12.2	65	W	1.5	1.5	2.1
10	27	13	987.9	-6.1	-11.3	66	W	1.7	1.7	2.0
10	27	14	987.6	-5.9	-11.3	66	W	1.6	1.9	2.6
10	27	15	987.3	-4.2	-11.0	59	SW	0.9	1.6	1.9
10	27	16	987.1	-4.7	-11.0	61	SW	0.9	1.3	1.7
10	27	17	987.0	-4.0	-9.9	64	WNW	0.4	0.9	1.2
10	27	18	986.8	-8.0	-11.1	78	WSW	0.7	1.2	1.4
10	27	19	986.8	-9.3	-11.7	83	SW	0.8	1.1	1.3
10	27	20	987.2	-13.2	-15.3	84	W	1.1	1.1	1.4
10	27	21	987.4	-13.2	-15.1	86	E	0.7	1.5	1.9
10	27	22	987.5	-12.1	-18.1	61	ENE	3.8	3.8	5.1
10	27	23	988.1	-12.8	-18.4	63	ENE	3.5	4.3	5.4
10	28	00	988.7	-12.2	-18.7	59	ENE	4.4	4.4	6.4
10	28	01	989.2	-12.0	-19.5	54	ESE	1.3	3.6	4.7
10	28	02	989.7	-11.8	-20.2	50	SE	2.4	2.9	5.2
10	28	03	990.1	-12.6	-20.3	53	SSE	1.7	3.5	6.0
10	28	04	990.6	-17.1	-20.7	74	S	2.0	2.2	3.3
10	28	05	991.0	-13.7	-20.9	54	ESE	3.3	3.3	4.6
10	28	06	991.4	-13.1	-19.9	57	SE	2.0	4.1	5.4
10	28	07	991.5	-12.8	-17.8	66	S	2.4	2.4	3.5
10	28	08	991.9	-9.0	-15.4	60	SSW	0.8	2.2	3.0
10	28	09	992.0	-9.2	-15.5	60	S	1.8	2.1	2.7
10	28	10	992.3	-9.8	-14.6	68	W	1.3	1.6	1.9
10	28	11	992.5	-9.9	-14.9	67	WSW	2.9	2.9	3.4
10	28	12	992.6	-9.1	-15.1	61	WSW	2.8	3.3	4.0
10	28	13	992.5	-8.7	-15.4	68	WSW	2.5	3.0	3.6
10	28	14	992.7	-8.7	-14.1	65	WSW	2.6	2.6	3.1
10	28	15	993.0	-8.7	-14.0	86	WNW	2.0	2.7	3.4
10	28	16	993.2	-9.8	-13.7	73	NNW	1.9	2.2	2.7
10	28	17	993.3	-10.1	-15.1	67	NNW	1.1	1.6	2.1
10	28	18	993.5	-12.0	-16.0	72	W	1.1	1.2	1.5
10	28	19	993.6	-14.6	-17.9	76	W	1.7	1.7	2.0
10	28	20	993.8	-15.5	-18.7	77	-	0.0	1.7	2.1
10	28	21	994.1	-19.0	-21.9	78	W	1.4	1.4	1.7
10	28	22	994.5	-20.6	-23.1	80	-	0.0	0.1	1.1
10	28	23	994.8	-21.9	-24.4	80	-	0.0	0.0	0.0
10	29	00	995.3	-21.8	-24.5	79	-	0.0	0.0	0.0
10	29	01	995.9	-18.6	-21.4	78	-	0.0	0.0	0.0
10	29	02	996.4	-19.3	-23.1	72	-	0.0	0.0	0.0
10	29	03	996.9	-20.0	-21.9	84	-	0.0	0.0	0.0
10	29	04	997.3	-19.3	-22.2	77	-	0.0	1.3	1.9
10	29	05	997.6	-20.6	-23.7	76	-	0.0	1.8	2.0
10	29	06	998.0	-21.3	-25.0	72	WNW	1.3	1.3	1.6
10	29	07	998.2	-17.9	-22.7	66	WSW	1.0	1.5	2.1
10	29	08	998.4	-15.6	-20.7	65	WSW	1.2	1.4	1.9
10	29	09	998.6	-14.5	-19.1	68	WSW	1.1	1.5	1.7
10	29	10	998.7	-11.9	-17.1	65	SW	1.1	1.2	1.5
10	29	11	998.7	-10.4	-16.3	62	WSW	1.6	1.6	2.1
10	29	12	998.6	-9.0	-15.1	61	SW	1.4	1.7	2.2
10	29	13	998.5	-9.2	-15.5	60	SW	2.0	2.0	2.6
10	29	14	998.4	-8.7	-15.1	60	WSW	2.0	2.0	2.6
10	29	15	998.2	-8.8	-15.3	59	SW	1.8	2.0	2.5
10	29	16	998.0	-9.3	-15.0	63	WSW	1.8	1.9	2.4
10	29	17	997.8	-10.2	-14.6	71	WSW	1.4	1.7	2.2
10	29	18	997.7	-11.6	-16.2	69	WSW	1.5	1.5	1.8
10	29	19	997.5	-13.7	-17.6	73	WSW	1.1	1.7	2.0
10	29	20	997.4	-16.5	-20.2	73	W	1.4	1.7	2.0
10	29	21	997.4	-16.6	-19.6	78	SSW	1.2	1.2	1.8
10	29	22	997.5	-19.3	-22.2	77	WSW	1.4	1.9	2.1
10	29	23	997.4	-20.2	-22.8	79	WNW	0.5	1.5	1.7
10	30	00	997.4	-20.0	-22.8	79	-	0.0	0.0	0.0
10	30	01	997.4	-15.6	-18.8	76	-	0.2	0.2	2.7
10	30	02	997.7	-14.9	-19.6	67	S	0.7	2.4	2.8
10	30	03	997.7	-14.3	-19.4	66	E	0.3	1.4	2.3
10	30	04	997.9	-16.8	-20.4	74	SSW	1.8	1.8	2.3
10	30	05	997.8	-15.7	-19.5	73	SSW	1.7	1.9	2.3
10	30	06	997.5	-14.9	-18.9	72	SSW	1.8	1.8	2.4
10	30	07	997.3	-12.3	-17.4	66	S	1.6	2.1	3.1
10	30	08	997.1	-10.2	-16.6	59	SW	0.7	1.5	2.0
10	30	09	997.0	-11.1	-16.0	67	W	1.0	1.3	1.8
10	30	10	996.7	-9.3	-14.0	69	W	1.3	1.3	1.8
10	30	11	996.6	-8.6	-13.2	70	W	1.6	1.7	2.4
10	30	12	996.6	-6.5	-12.4	63	WSW	1.2	2.2	2.7

10	30	13	996.2	-7.2	-12.8	65	SW	2.1	2.2	3.0
10	30	14	995.9	-6.6	-11.6	67	SW	2.0	2.9	3.9
10	30	15	995.6	-4.9	-11.0	62	SW	1.6	2.4	3.1
10	30	16	995.2	-5.3	-10.6	66	WSW	1.7	1.7	2.5
10	30	17	994.9	-6.6	-10.1	76	W	2.3	2.4	3.1
10	30	18	994.8	-7.1	-11.0	74	WSW	1.3	2.7	3.2
10	30	19	994.8	-8.4	-11.5	79	SW	1.0	1.0	1.5
10	30	20	994.9	-9.1	-12.1	79	S	0.7	0.7	1.0
10	30	21	995.4	-10.5	-12.6	85	S	1.8	1.8	2.0
10	30	22	995.9	-8.0	-13.3	66	E	2.5	2.5	4.0
10	30	23	996.6	-10.1	-14.9	68	ESE	3.4	3.6	4.6
10	31	00	996.9	-10.8	-15.6	68	ENE	2.9	4.9	8.1
10	31	01	997.2	-8.8	-14.3	65	E	4.1	4.1	6.6
10	31	02	997.6	-9.2	-14.5	66	ENE	4.5	5.2	6.9
10	31	03	998.0	-9.6	-15.4	63	E	3.7	3.8	5.6
10	31	04	998.3	-9.8	-15.3	64	WSW	0.4	3.1	4.8
10	31	05	998.7	-9.8	-16.3	59	SE	1.9	2.4	4.0
10	31	06	998.5	-11.4	-15.8	70	SSE	2.0	2.4	3.9
10	31	07	998.4	-11.6	-15.7	72	S	1.8	2.7	3.5
10	31	08	998.3	-10.2	-14.7	70	S	1.9	2.3	2.8
10	31	09	998.4	-8.9	-14.2	66	W	1.4	1.4	1.9
10	31	10	998.4	-9.3	-13.2	73	W	1.9	2.3	2.9
10	31	11	998.5	-6.0	-11.6	64	WSW	0.9	2.5	3.1
10	31	12	998.4	-5.9	-11.7	63	WSW	1.4	1.8	2.2
10	31	13	998.2	-5.8	-12.2	60	SW	1.9	1.9	2.4
10	31	14	998.1	-5.9	-10.5	70	WSW	2.3	2.3	3.1
10	31	15	998.0	-5.7	-10.6	69	SW	1.9	2.5	3.2
10	31	16	997.9	-5.5	-11.3	63	WSW	1.1	1.8	2.5
10	31	17	997.5	-7.0	-11.4	71	SW	1.6	1.9	2.4
10	31	18	997.2	-8.0	-11.9	73	SW	1.3	1.7	2.9
10	31	19	996.8	-11.0	-14.4	76	W	1.9	1.9	2.1
10	31	20	996.6	-13.8	-16.7	79	WSW	1.8	2.1	2.5
10	31	21	996.5	-15.1	-17.3	79	WSW	1.6	1.9	2.3
10	31	22	996.1	-16.8	-19.0	83	WSW	1.5	2.2	2.4
10	31	23	996.0	-14.5	-17.4	78	S	2.8	2.8	3.5
11	1	00	996.0	-14.2	-17.6	76	S	3.0	3.0	3.7
11	1	01	995.7	-15.5	-18.7	77	SSE	2.6	3.1	3.8
11	1	02	995.5	-15.5	-19.1	74	S	2.5	2.9	3.6
11	1	03	995.1	-20.4	-24.2	72	W	1.9	2.7	3.3
11	1	04	995.0	-21.8	-25.0	75	W	0.7	2.1	2.8
11	1	05	994.7	-20.5	-24.3	72	-	0.0	0.6	2.1
11	1	06	994.5	-19.3	-23.0	73	-	0.0	0.0	0.3
11	1	07	994.0	-18.4	-22.2	72	WSW	1.4	1.6	2.1
11	1	08	993.7	-18.3	-20.3	71	W	1.8	1.8	2.3
11	1	09	993.3	-13.0	-17.5	69	W	1.2	2.1	2.7
11	1	10	993.4	-12.5	-16.6	71	W	1.8	2.0	2.5
11	1	11	993.3	-7.3	-15.4	52	N	0.5	1.2	1.7
11	1	12	993.1	-10.6	-15.9	65	N	3.1	3.1	4.2
11	1	13	993.2	-11.5	-15.9	70	N	3.5	3.5	4.5
11	1	14	993.2	-11.2	-15.6	70	NNW	3.8	4.2	5.2
11	1	15	993.5	-10.9	-14.8	73	N	3.0	3.6	4.8
11	1	16	993.5	-10.3	-14.3	72	NNW	2.0	2.9	3.7
11	1	17	993.7	-10.7	-15.3	69	NNW	1.2	2.6	3.4
11	1	18	993.7	-5.0	-14.9	46	-	0.00	0.9	1.1
11	1	19	993.9	-12.2	-16.5	70	NNW	0.5	0.7	1.0
11	1	20	994.2	-16.9	-19.3	82	NNW	1.2	1.5	1.8
11	1	21	994.3	-18.7	-20.6	85	W	1.2	1.2	1.4
11	1	22	994.7	-20.1	-22.1	84	-	0.0	0.1	1.1
11	1	23	995.2	-22.0	-24.0	84	-	0.0	0.0	0.0
11	2	00	995.6	-22.5	-24.9	81	-	0.0	0.0	0.0
11	2	01	995.9	-23.7	-26.3	79	-	0.0	0.0	0.0
11	2	02	^994.4	-24.5	-27.2	78	-	0.0	0.0	0.0
11	2	03	996.9	-25.1	-27.9	77	-	0.0	0.0	0.0
11	2	04	997.4	-24.5	-27.2	78	-	0.0	0.0	0.0
11	2	05	997.9	-22.8	-25.4	79	-	0.0	0.0	0.0
11	2	06	998.3	-21.3	-23.8	80	-	0.0	0.0	0.0
11	2	07	998.8	-18.5	-20.7	83	-	0.0	0.0	0.0
11	2	08	999.4	-14.1	-16.2	84	-	0.0	0.0	0.0
11	2	09	999.7	-12.8	-16.2	75	-	0.0	0.0	0.0
11	2	10	1000.2	-9.9	-14.5	69	SW	1.1	1.1	1.5
11	2	11	1000.4	-9.9	-15.7	63	W	1.9	1.9	2.3
11	2	12	1000.5	-9.4	-16.1	59	WSW	2.4	2.4	3.1
11	2	13	1000.6	-9.3	-17.4	52	WSW	2.8	3.1	4.0

11	2	14	1000.5	-8.9	16.4	55	WSW	2.4	2.8	3.5
11	2	15	1000.5	-8.9	15.8	57	WSW	2.3	2.3	2.9
11	2	18	1000.2	-9.2	-14.3	87	WSW	2.4	2.6	3.3
11	2	17	1000.1	-9.8	-14.6	68	W	1.5	2.1	2.6
11	2	18	999.8	-12.0	-15.9	73	W	1.7	1.8	2.2
11	2	19	999.8	-13.9	-17.8	73	W	1.8	1.8	2.2
11	2	20	999.5	-15.9	-19.3	75	W	1.3	1.4	1.8
11	2	21	999.6	-17.4	-20.6	76	W	2.6	2.6	2.9
11	2	22	999.7	-18.9	-21.6	79	WSW	1.4	2.5	3.0
11	2	23	999.7	-20.0	-22.8	78	-	0.0	1.2	1.9
11	3	00	999.7	-19.7	-22.0	82	-	0.0	0.0	0.0
11	3	01	999.5	-22.9	-25.7	78	-	0.0	0.0	0.0
11	3	02	999.7	-20.4	-22.8	81	-	0.0	0.0	0.0
11	3	03	999.8	-24.2	-27.1	77	-	0.0	0.0	0.0
11	3	04	1000.0	-23.0	-26.4	74	-	0.0	0.0	0.0
11	3	05	1000.0	-18.2	-22.5	69	-	0.0	1.6	2.5
11	3	06	1000.1	-21.1	-25.0	71	W	1.5	1.8	2.5
11	3	07	1000.3	-18.6	-22.9	69	W	1.3	1.6	2.1
11	3	08	1000.4	-15.4	-20.3	66	WSW	0.9	1.9	2.7
11	3	09	1000.8	-13.0	-17.8	68	WSW	1.5	1.5	2.0
11	3	10	1000.8	-5.0	-15.4	44	-	0.0	1.4	2.0
11	3	11	1000.9	-8.1	-14.7	59	WNW	0.4	0.8	1.2
11	3	12	1000.9	-5.7	-14.1	52	-	0.0	1.0	1.4
11	3	13	1000.6	-6.8	-13.8	58	WSW	0.7	0.7	1.2
11	3	14	1000.4	-3.7	-14.8	42	-	0.0	1.1	1.6
11	3	15	1000.1	-6.3	-13.4	57	-	0.0	0.0	0.0
11	3	16	999.6	-8.9	-12.4	75	W	3.1	3.3	3.9
11	3	17	999.3	-9.7	-12.9	77	W	2.9	3.2	4.1
11	3	18	998.9	-11.0	-14.0	78	W	2.5	2.7	3.2
11	3	19	998.7	-12.8	-15.8	78	W	1.8	2.5	2.9
11	3	20	998.6	-14.8	-17.8	78	W	1.5	2.0	2.3
11	3	21	998.6	-16.5	-19.3	79	-	0.0	0.9	1.7
11	3	22	998.7	-18.7	-21.3	80	NW	1.3	1.5	2.0
11	3	23	998.5	-19.7	-22.0	82	W	1.2	1.2	2.1
11	4	00	998.4	-20.3	-22.2	85	W	0.4	2.1	2.4
11	4	01	998.2	-21.4	-23.4	84	-	0.0	0.0	0.0
11	4	02	998.3	-22.0	-24.1	83	-	0.3	2.0	2.6
11	4	03	998.2	-22.3	-24.5	82	-	0.0	0.2	1.7
11	4	04	998.3	-21.2	-23.5	81	-	0.0	1.1	1.8
11	4	05	998.3	-20.8	-22.9	83	N	0.8	0.8	2.7
11	4	06	998.5	-18.4	-21.0	80	NNE	1.0	1.4	2.3
11	4	07	998.6	-15.2	-19.5	70	-	0.2	0.4	1.2
11	4	08	998.7	-15.7	-19.4	73	N	0.8	0.9	1.3
11	4	09	998.9	-14.4	-19.2	67	NNE	0.8	1.3	1.9
11	4	10	998.8	-11.9	-16.1	70	N	1.3	1.4	1.9
11	4	11	999.0	-12.2	-15.8	75	N	2.1	2.1	2.5
11	4	12	998.9	-12.3	-15.3	78	N	2.4	2.5	3.2
11	4	13	998.8	-11.7	-15.5	74	NNW	1.6	2.5	3.1
11	4	14	998.6	-11.5	-15.6	72	NW	1.8	2.5	3.1
11	4	15	998.5	-10.9	-15.6	69	NNW	1.2	1.5	2.3
11	4	16	998.3	-9.7	-15.4	63	NNW	0.8	1.3	1.9
11	4	17	9982	-7.7	-15.2	55	-	0.0	0.6	1.4
11	4	18	998.1	-10.5	-15.0	69	NNW	0.5	0.9	1.2
11	4	19	998.1	-12.8	-16.5	74	NNE	0.6	1.0	1.2
11	4	20	998.3	-14.5	-16.9	82	NE	0.6	1.2	1.5
11	4	21	998.5	-15.6	-18.1	82	-	0.0	0.8	0.8
11	4	22	998.7	-18.7	-20.5	86	-	0.0	0.6	0.0
11	4	23	999.0	-19.9	-21.8	84	--	0.0	0.0	0.0
11	5	00	999.1	-20.7	-22.9	83	-	0.0	0.0	0.0
11	5	01	999.3	-20.0	-22.1	83	-	0.0	0.0	0.0
11	5	02	999.3	-22.3	-24.7	81	-	0.0	0.0	0.0
11	5	03	999.8	-22.7	-25.2	80	-	0.0	0.0	0.0
11	5	04	999.7	-20.8	-22.9	83	-	0.0	0.0	0.0
11	5	05	1000.0	-22.3	-24.8	80	-	0.0	0.0	0.0
11	5	06	1000.3	-16.9	-18.6	87	-	0.0	0.0	0.0
11	5	07	1000.4	-17.2	-19.6	82	-	0.0	0.0	0.0
11	5	08	1000.4	-14.1	-16.4	82	-	0.0	0.1	1.2
11	5	09	1000.6	-10.1	-13.9	74	-	0.0	0.0	0.0
11	5	10	1000.7	-4.3	-12.7	52	-	0.0	0.0	0.0
11	5	11	1000.9	-7.5	-14.3	58	-	0.0	0.0	0.0
11	5	12	1000.9	-1.5	-15.8	33	-	0.2	0.2	0.9
11	5	13	1000.7	-9.3	-13.6	71	NNW	1.4	2.0	2.7
11	5	14	1000.5	-8.7	-14.0	65	N	1.4	1.5	2.0

11	5	15	1000.3	-8.3	-13.8	65	NNW	1.7	1.7	2.4
11	5	16	1000.2	-9.6	-13.6	73	NNW	2.5	2.5	3.2
11	5	17	1000.0	-10.9	-14.5	75	NNW	2.9	2.9	4.0
11	5	18	999.9	-11.4	-14.3	79	NW	2.0	2.6	3.5
11	5	19	999.8	-12.0	-14.7	81	NNW	0.9	1.7	2.3
11	5	20	999.8	-12.4	-14.8	82	-	0.0	0.5	1.0
11	5	21	999.6	-15.1	-17.1	84	-	0.0	0.7	1.3
11	5	22	999.5	-16.6	-18.7	84	-	0.0	1.4	2.1
11	5	23	999.4	-17.3	-19.2	85	-	0.0	0.1	0.6
11	6	00	999.4	-18.7	-20.4	86	-	0.0	2.0	2.7
11	6	01	999.3	-18.5	-20.2	87	-	0.0	0.0	0.0
11	6	02	999.0	-17.9	-19.8	85	-	0.0	0.0	0.0
11	6	03	998.7	-17.6	-19.3	86	-	0.0	1.0	1.9
11	6	04	998.4	-18.1	-18.0	85	-	0.0	0.0	0.0
11	6	05	998.1	-15.9	-18.2	82	-	0.0	0.0	0.0
11	6	08	997.8	-15.3	-17.7	82	-	0.0	0.0	0.0
11	6	07	997.2	-12.7	-15.3	81	S	1.8	1.8	2.3
11	6	08	996.9	-12.2	-15.5	76	W	1.7	2.0	2.6
11	6	09	996.8	-10.8	-14.6	74	WSW	1.8	2.6	3.1
11	6	10	996.6	-10.2	-14.3	72	SW	1.8	1.8	2.0
11	6	11	996.4	-10.3	-14.0	74	WSW	3.3	3.3	4.0
11	6	12	996.1	-9.2	-13.6	70	WSW	2.7	3.3	3.9
11	6	13	995.8	-8.9	-13.3	70	SW	3.0	3.1	3.9
11	6	14	995.4	-7.7	-13.1	65	SW	1.6	3.3	4.1
11	6	15	995.0	-6.0	-13.8	54	WNW	0.5	1.0	1.5
11	6	16	994.6	-7.9	-14.1	61	NNW	1.4	1.4	2.1
11	6	17	994.3	-8.7	-13.8	66	NNW	2.0	2.0	2.7
11	6	18	994.0	-9.7	-12.3	81	NNW	3.3	3.5	4.3
11	6	19	993.8	-10.8	-13.6	80	NNW	3.3	4.1	5.3
11	6	20	993.7	-11.2	-13.9	80	NNW	1.9	2.9	3.7
11	6	21	993.7	-11.3	-14.3	78	-	0.2	1.1	1.8
11	6	22	993.7	-11.7	-14.6	79	-	0.0	0.0	0.0
11	6	23	993.4	-12.5	-14.8	83	-	0.0	0.0	0.0
11	7	00	993.3	-15.1	-17.1	85	W	1.4	1.4	1.7
11	7	01	992.9	-16.2	-18.4	83	-	0.1	1.3	2.0
11	7	02	992.3	-18.9	-19.0	84	W	2.1	2.1	2.4
11	7	03	991.8	-17.1	-19.5	81	-	0.0	1.4	2.2
11	7	04	991.3	-19.3	-21.8	81	-	0.0	0.0	0.0
11	7	05	990.8	-18.4	-21.5	76	WSW	0.7	1.8	2.8
11	7	08	990.5	-16.2	-20.7	69	SW	1.1	1.9	2.2
11	7	07	990.1	-15.9	-20.2	70	W	1.2	1.5	2.1
11	7	08	990.1	-14.8	-18.5	73	W	2.1	2.1	2.6
11	7	09	990.0	-11.6	-15.9	70	WSW	1.7	2.5	3.1
11	7	10	990.1	-10.6	-14.8	71	W	1.6	1.6	2.1
11	7	11	990.2	-8.1	-13.7	64	-	0.0	1.0	1.6
11	7	12	990.1	-7.3	-12.9	64	SSE	1.2	1.5	2.2
11	7	13	990.1	-5.3	-12.6	57	S	1.1	1.3	1.7
11	7	14	989.9	-5.6	-14.6	49	WSW	1.8	1.8	2.4

Table 11. Surface synoptic data observed on traverse.

	Month	Day	LST Hour	LST Min	Point	Pa hPa	Ta °C	WD	WS m/s	V km	N	W	CL	AP
Travers 1	8	17	9	00	Syowa	968	-14	ENE	14	>30	10-	CD	7Ac,10-Ci	-
To Skarvsnes	8	17	12	00	R31	967	-13	E	9	>30	10-	HC	3Ac,10-Ci	-
	8	17	19	00	RL20	969	-20	SW	4	>30	10	CD	10Ac	-
	8	18	7	00	RL19	965	-13	SW	3	15	10	SN	10Sc	SN
	8	18	13	00	RL26	971	-12	-	Calm	15	10	CD	8Sc,10Ac	-
	8	18	19	00	Yukidorizawa Cabin	966	-8	N	8	5	10	CD	10Sc	SN
	8	19	7	50	Yukidorizawa Cabin	970	-11	SW	4	5	10	SN	10St	SN
	8	19	13	00	RL52	978	-12	SW	4	10	10	SN	10Sc	SN
	8	19	18	00	SK6	977	-13	-	Calm	10	10	CD	10Sc	-
	8	20	6	00	SK6	977	-29	-	Calm	>30	4	FN	1Sc,4Ac	-
	8	20	12	00	SK31	985	-21	-	Calm	>30	10-	CD	10-Sc	-
	8	20	18	00	SK53	987	-18	-	Calm	15	10	SN	10Sc	SN
	8	21	6	00	SK53	981	-17	-	Calm	10	7	SN	4Sc,3Ac	SN
	8	21	12	00	SK53	986	-18	-	Calm	15	10-	SN	10-Sc	SN
	8	21	18	30	SK53	985	-20	-	Calm	10	10	SN	10Sc	SN
	8	22	6	00	SK53	984	-20	-	Calm	10	10	SN	10Sc	SN
	8	22	12	00	Hamna Icefall	984	-20	-	Calm	10	10	SN	10Sc	SN
Travers 2	9	4	6	00	Syowa	981	-17	SSE	4	>30	8	FN	5Sc,4Ac	-
To Skallen	9	4	18	00	SL5	985	-17	E	3	>30	8	FN	2Ac,8Ci	-
	9	5	6	00	SL5	981	-19	ENE	6	>30	0+	CL	0+AC	-
	9	5	12	00	SL21	984	-21	-	Calm	>30	0+	CL	0+Ac	-
	9	5	18	00	SL55	985	-24	-	Calm	>30	0+	CL	0+Ac	-
	9	6	6	00	SL55	984	-27	-	Calm	>50	7	FN	2Sc,6Ac,1Ci	-
	9	6	12	00	SL74	987	-20	-	Calm	>30	1	CL	1Ci	-
	9	6	18	00	SL83	987	-27	-	Calm	>30	0+	CL	0Ci	-
	9	7	6	00	SL83	988	-26	-	Calm	>30	10-	HD	0+Ac,0+Ci	-
	9	7	12	00	SL83	986	-27	-	Calm	>30	10-	HD	0+Sc,0+Ac,8Cs,10-Ci	-
	9	7	18	00	SL83	988	-23	-	Calm	>30	10-	CD	2Sc,5Ac,10-Ci	-
	9	8	6	00	SL83	988	-20	SE	4	>30	10-	CD	1Sc,7Ac,10-Ci	-
	9	8	18	00	SL83	994	-20	SE	4	>30	0+	CL	0+Ac	-
	9	9	6	00	SL83	1000	-24	SE	4	>30	0	CL	-	-
	9	9	12	00	SL74	1002	-23	-	Calm	>30	0	CL	-	-
	9	9	18	00	SK35	1001	-29	NW	3	>30	0	CL	-	-
	9	10	6	00	Yukidorizawa Cabin	995	-26	-	Calm	>30	1	CL	0+Ac,1Ci	-
	9	10	12	00	Hamna Icefall	999	-22	-	Calm	>30	10-	HD	10-Ci	-
Travers 3	10	6	9	00	Syowa	990	-10	E	18	3	0	CL	-	BS
To Skallen	10	6	12	30	R30	992	-7.3	E	8	8	0	CL	-	-
	10	6	18	00	SK1	988	-8	E	15	20	1	CL	1Ci	BS
	10	7	6	00	SL5	993	-11	ENE	10	>30	1	CL	1Ci	-
	10	7	12	00	NK5	999	-6.6	-	Calm	>30	1	CL	1Sc	-
	10	7	18	00	SL30	1000	-13	-	Calm	>30	10-	CD	10-Sc	-
	10	8	6	00	SL55	1005	-11	-	Calm	20	10	SN	10Sc	SN
	10	8	12	00	Skallen Icefall	1005	-7	-	Calm	>30	10	CD	10Sc	-
	10	8	18	30	Osiage beach	1003	-7.5	-	Calm	>30	10	CD	10Sc	-
	10	9	6	00	SL55	995	-16	-	Calm	>30	1	CL	1Ac	-
	10	9	12	00	SL39	994	-9.8	-	Calm	>30	4	FN	4Sc,0+Ac	-

	Month	Day	LST Hour	LST Min	Point	Pa hPa	Ta °C	WD	WS m/s	V km	N	W	CL	AP
Travers 4	11	5	9	00	Syowa	998	-13	NNW	1	30	7	FN	7Ac	-
To Skalien	11	5	12	00	RL4	996	-11	-	Calm	>30	4	HD	4Cs,10-Ci	-
	11	5	18	00	SK15	997	-11	WNW	Calm	>30	10	-	0+Sc,8Cs,10-Ci	-
	11	6	6	00	BN1	994	-11	ENE	3	>30	10	-	10-Cs,6Ci	-
	11	6	12	50	BN7	994	-7.7	-	Calm	>30	10	-	10-Sc	-
	11	6	18	00	SK34	994	-9.7	NW	-	>30	10	-	10-Sc	-
	11	7	6	00	SK36	988	-13	-	Calm	>30	8	FN	3Sc,6Ac	-
	11	7	12	00	SL45	989	-7.2	-	Calm	>30	9	CD	9Sc	-
	11	7	19	10	SL83	986	-5.4	SE	4	>30	0+	CL	0+Ci	-
	11	8	6	00	SL83	991	-9	SE	3	>30	0	CL	-	-
	11	8	13	00	SL83	991	-3	-	Calm	>30	0	CL	-	-
	11	8	20	20	SL83	987	-6.3	SE	4	>30	0	CL	-	-
	11	9	6	00	SL83	991	-6	SE	4	>30	10	-	10-Sc	-
	11	9	12	20	SL16	991	-2.3	-	Calm	>30	9	CD	1Sc,9Ac	-
	11	9	18	00	Yukidorizawa Cabin	989	-2.2	WSW	4	>30	7	FN	0+Sc,7Ac	-
	11	10	6	00	Yukidorizawa Cabin	987	-4.5	E	6	>30	8	FN	1Ac,8Ci	-
	11	10	12	00	YH14	986	-4.4	SE	4	>30	9	HD	9Ci	-
	11	10	21	20	Foot in Mt. Hannek	985	-3.2	NE	4	>30	1	CL	1Ac	-
	11	11	6	10	Yukidorizawa Cabin	985	-6.5	-	Calm	>30	7	FN	4Ac,3Ci	-
	11	11	12	00	Yukidorizawa Cabin	983	-4.2	-	Calm	>30	0+	CL	0+Ac	-
Travers 5	11	24	9	00	Syowa	975	-11	NNE	4	30	9	SN	9Sc	SN
To Skallen	11	24	12	00	RL39	978	-6.7	NNE	5	>30	7	FN	6Sc,2Ac	-
	11	24	18	00	SL70	982	-7.6	-	Calm	>30	9	CD	2Sc,9Ac	-
	11	25	6	00	SL28	982	-16	-	Calm	>30	0	CL	-	-
	11	25	12	00	Funazoko Pond	982	-8.1	-	Calm	>30	0+	CL	0+Ci	-
	11	25	18	00	Foot in Mt.Futago	979	-9.4	-	Calm	>30	0	CL	-	-
	11	26	6	00	Yukidorizawa Cabin	981	-10	-	Calm	>30	1	CL	1Ci	-
	11	26	12	00	Yatitude stream	-	-	-	-	>30	10	-	0+Sc,10-Ci	-
	11	26	19	00	Yukidorizawa Cabin	984	-4.2	-	Calm	20	9	HD	9Ci	-
	11	27	6	00	Yukidorizawa Cabin	986	-5.6	-	Calm	>30	10	-	10-Ci	-