

Oceanographic Data of the 37th Japanese Antarctic Research Expedition from November 1995 to March 1996

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The results of oceanographic observations on board the icebreaker “Shirase” and tidal observations at Syowa Station, Antarctica, are presented in this report. The oceanographic observations were carried out by the summer party of the 37th Japanese Antarctic Research Expedition (JARE-37) during the austral summer of 1995/1996. The tidal observations were carried out by the winter party of JARE-36 from February 1995 to January 1996.

1. Oceanographic Observations

The track of the icebreaker “Shirase” and the sites of oceanographic stations are shown in Fig. 1. Surface water was sampled during the cruise using a plastic bucket (10L). XBT (expendable bathythermograph) and serial observations were taken in the Southern Ocean. Two surface drifting buoys were deployed and four XCP (expendable current profiler) observations were taken in the Antarctic Circumpolar Current.

(1) Surface water sampling

Surface water was sampled twice or three times a day at 61 stations for chemical analysis. The results are given in Table 1.

(2) Monitoring of marine pollution

Surface water was sampled at 25 stations in the Southern Ocean and the Indonesian Archipelago for monitoring of marine pollution. Items and methods of analyses are given in the following section of (5).

(3) XBT observations

XBT observations were carried out at 88 stations in the Southern Ocean from Fremantle to Antarctica and back to Sydney. The results are listed in Table 2. Vertical profiles of water temperature are shown in Figs. 2 and 3.

(4) Serial observations

Serial observations with Rosette sampler, equipped with twenty three Niskin bottles of 2.5L capacity, and CTD (Conductivity, Temperature and Depth profiling system: Falmouth Scientific FSI TRITON ICTD) were carried out at 17 stations. The results including interpolated and calculated values of temperature, practical salinity, σ_t and

dynamic depth anomaly at each standard depth together with meteorological data are given in Table 3.

(5) Chemical analysis of sampled water

Chemical analysis of seawater collected with a bucket (10L) for surface observation or Niskin bottle (2.5L) for serial observation was done with the following methods. Chemical analyses for the item (a) was calculated from conductivity using the 1978 practical salinity scale (UNESCO, 1981). Items (b), (d) and (h) were carried out with the method described by Strickland and Parsons (1972). Item (c) was analyzed by the Winkler method as modified by Carpenter (1965) for more precision. Item (e) was analyzed with the method in Motomizu and Korechika (1988). Items (f) and (g) were analyzed with the method in Bergamin *et al.* (1978), Andersson (1979) and Gine *et al.* (1980). Items (i), (j) and (k) were analyzed with the method in Hydrographic Department (1995).

- | | |
|------------------------|---|
| (a) Practical salinity | : Conductive salinometer (Guildline Autosol salinometer model 8400B). |
| (b) pH | : Glass electrode method (Horiba digital pH meter F-16). |
| (c) Dissolved oxygen | : Carpenter method (Metrohom model E41520S titrator). |
| (d) Phosphate-P | : Molybdenum blue method (Shimadzu model UV-120A spectrophotometer). |
| (e) Silicate-Si | : Molybdenum yellow method (Shimadzu model UV-120A spectrophotometer). |
| (f) Nitrite-N | : Naphthylethylenediamine method (Shimadzu model UV-120A spectrophotometer). |
| (g) Nitrate-N | : Cadmium (Cd) – copper (Cu) reduction column, Naphthylethylenediamine method (Shimadzu model UV-120A spectrophotometer). |
| (h) Ammonium-N | : Indophenol blue method (Shimadzu model UV-120A spectrophotometer). |
| (i) Petroleum oil | : n-hexane extraction – fluorophotometric analysis. |
| (j) Cadmium (Cd) | : Solvent extraction – atomic absorption spectrophotometry. |
| (k) Mercury (Hg) | : Cold vapor atomic absorption spectrophotometry. |

The results of analytical items (a) to (h) are given in Tables 1 and 3. The results of monitoring of marine pollution items (i) to (k) are given in Table 4.

(6) Current observations with two surface drifting buoys

The first surface drifting buoy was deployed at 57°34'S, 94°33'E on December 9, 1995. It was operated until December 7, 1996. The second was deployed at 62°02'S, 142°01'E on March 14, 1996. It was operated until March 11, 1997. The trajectories are shown in Fig. 4.

(7) Current profile observations with XCP

XCP (Sippican Inc. U.S.A.) observations were completed at the following 4 stations.

| | |
|------------------------------|--------------------------------|
| December 5, 1995 08:00 (UT) | 42°03.2' S, 108°51.4' E (St.1) |
| December 8, 1995 10:45 (UT) | 55°24.0' S, 99°38.8' E (St.2) |
| February 28, 1996 11:33 (UT) | 62°54.3' S, 62°19.5' E (St.4) |
| March 1, 1996 09:32 (UT) | 63°03.2' S, 80°38.5' E (St.5) |

The results are given in Fig. 5.

2. Tidal Observations at Syowa Station

Tidal observations at Syowa Station have been carried out since 1965. The tide gauge (QWP-8-303D, Meisei Denki Co.) was set on the sea bottom of about 15 m below the sea surface at Nisi-no-ura Cove, East Ongul Island by JARE-36 members on February 2, 1995. Results obtained from February 1995 to January 1996 are described in this report. The methodology of tidal observations is described by Odamaki *et al.* (1991). In this system, the relative water pressure compensated for atmospheric pressure is measured with a quartz oscillator. The range of the sensor is 0–50 m and its accuracy is 0.01% to full scale, *i.e.* 0.005 m. The data sampled 5 times per second are averaged over one minute and recorded on solid IC memory every 10 min. The gauge was maintained by Mr. T. Tanaka, a member of the JARE-36 winter party, through the year. Hourly sea level was recorded. Daily and monthly mean sea levels were calculated from the hourly data. The results are given in Table 5.

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The authors also express their thanks to Captain T. Kato, the officers and crew of the icebreaker “Shirase”.

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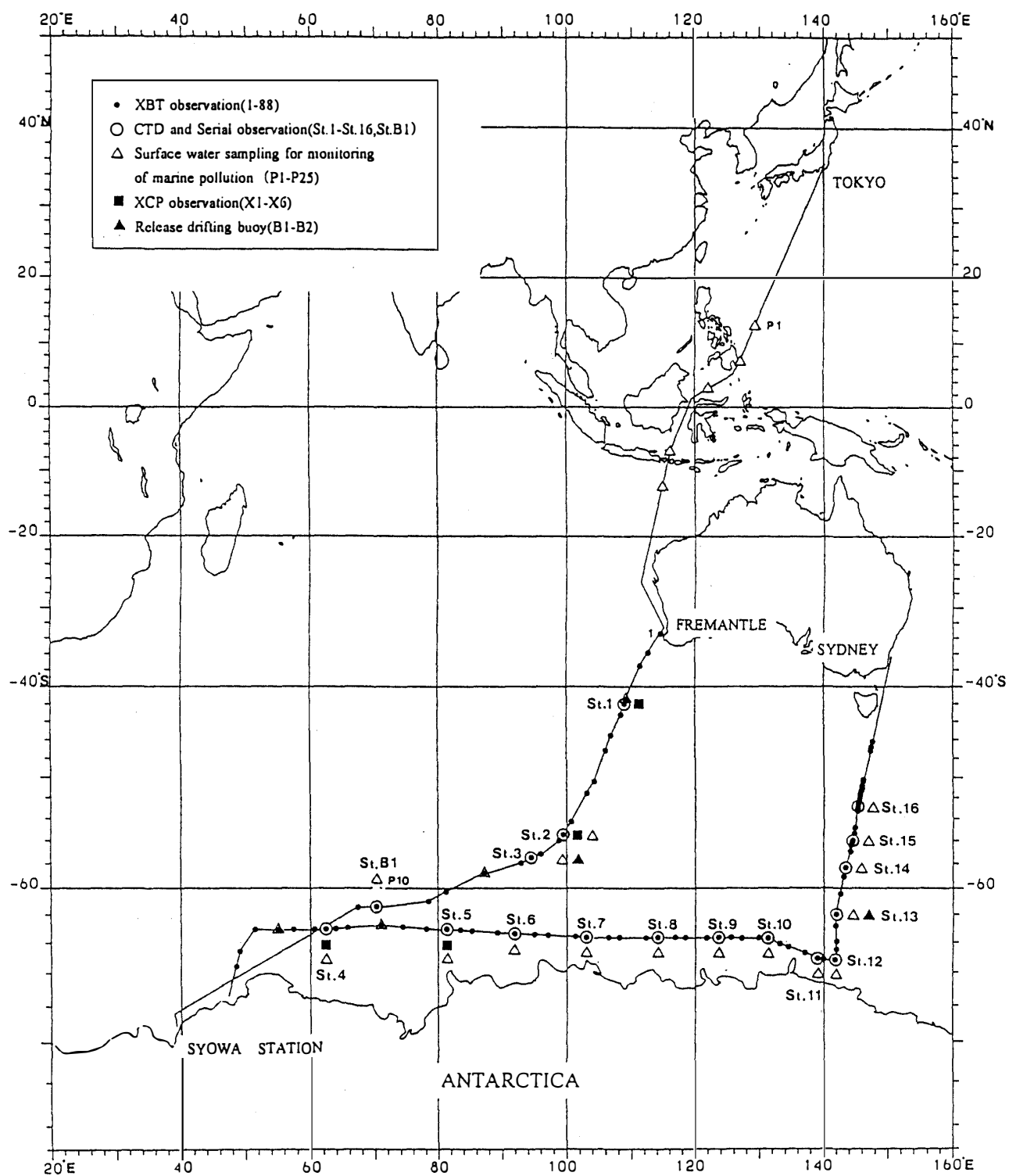


Fig. 1. The track of the icebreaker "Shirase" and the sites of oceanographic stations.

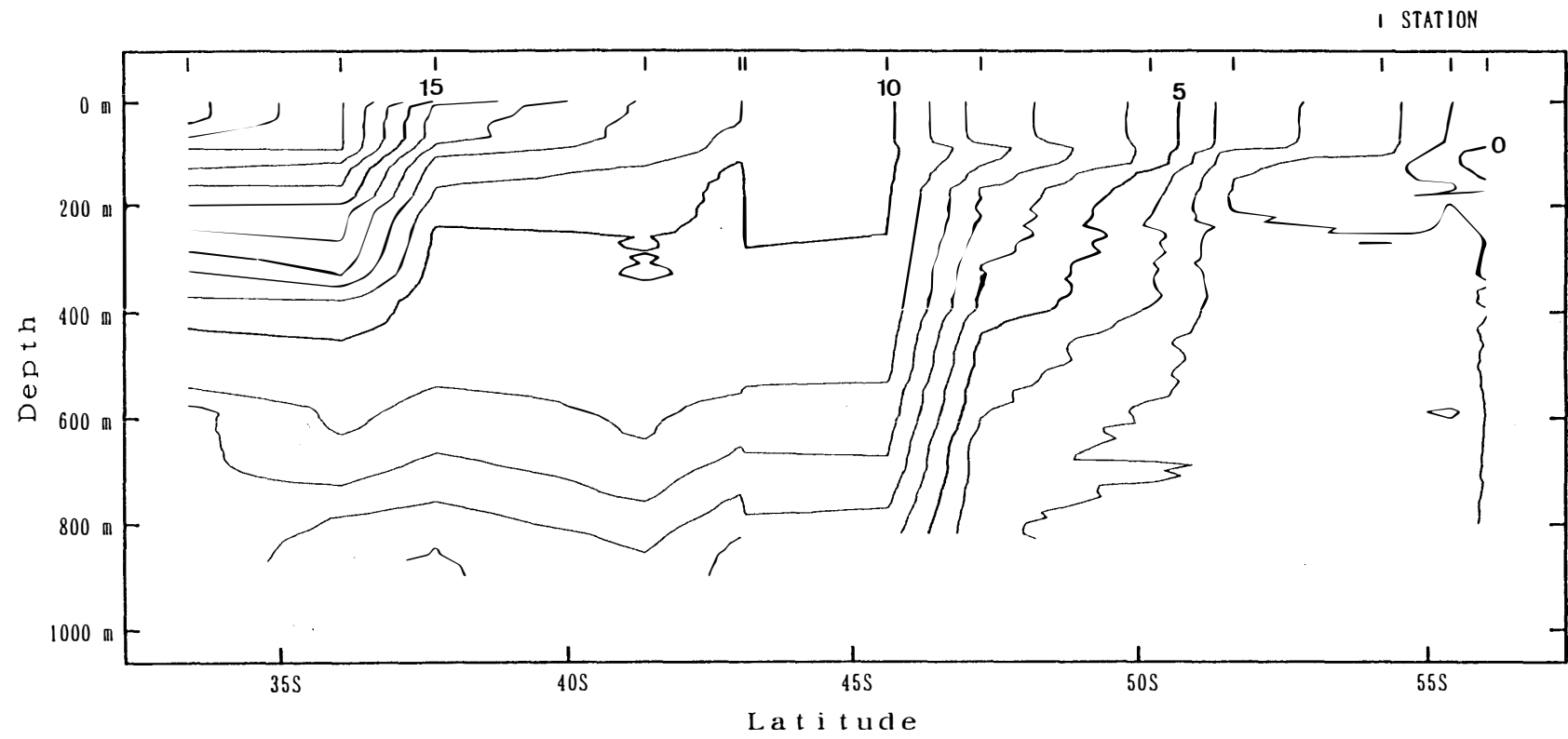


Fig. 2. The vertical profile of water temperature ($^{\circ}\text{C}$) observed along 110°E . Vertical bars on the top of the profile indicate sites of XBT observations.

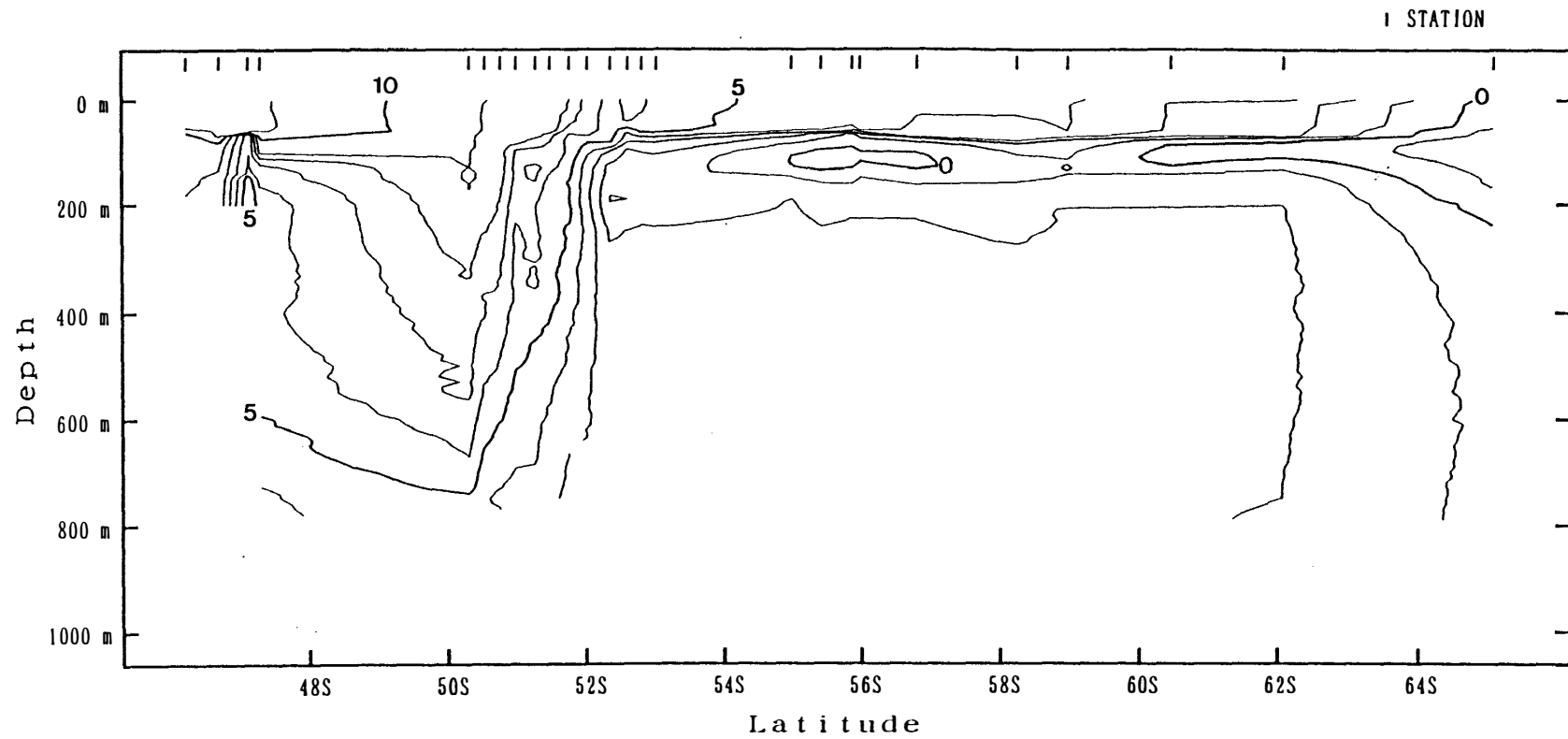


Fig. 3. The vertical profile of water temperature ($^{\circ}\text{C}$) observed along 145°S . Vertical bars on the top of the profile indicate sites of XBT observations.

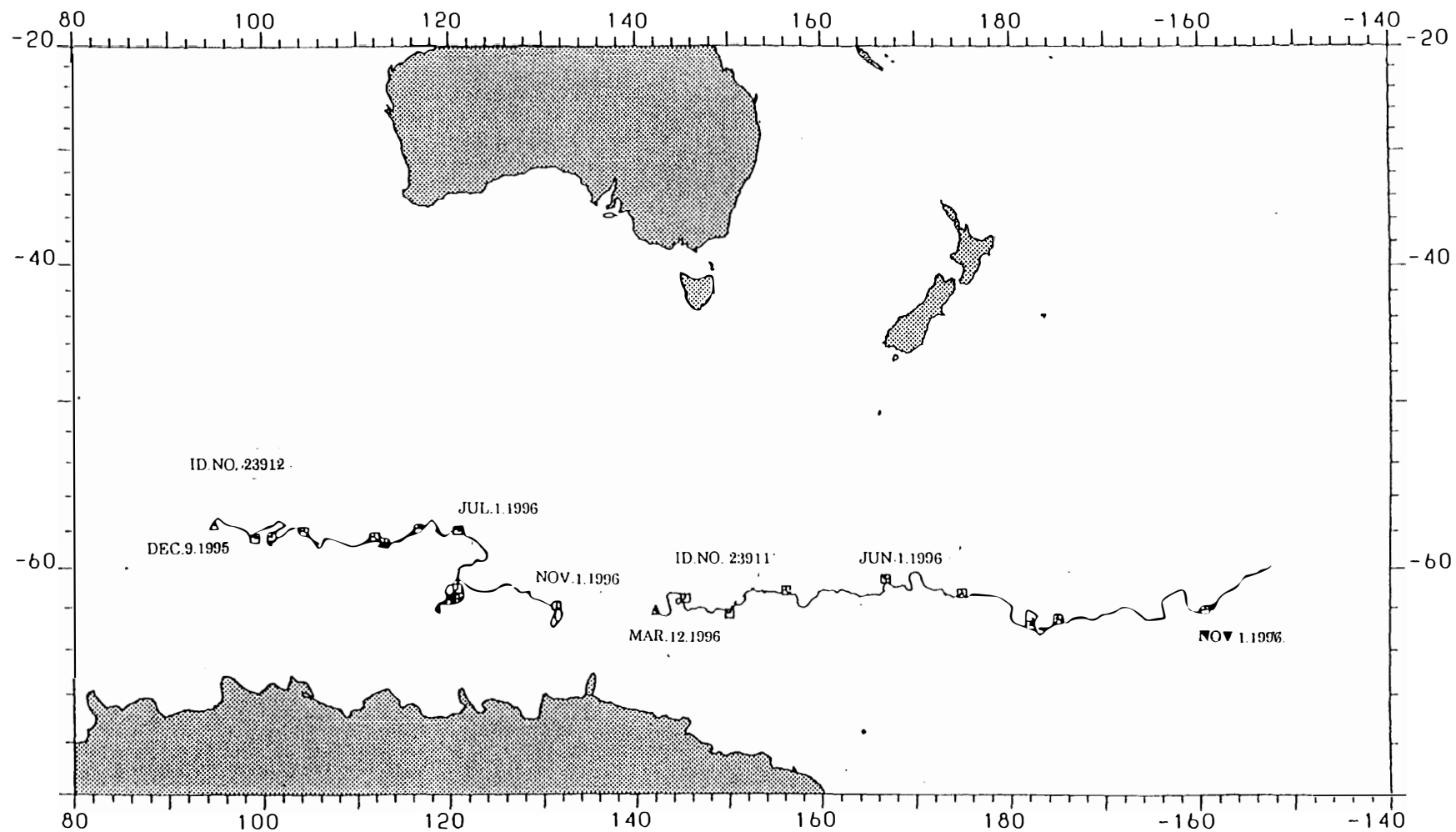


Fig. 4. Trajectories of surface drifting buoy. Triangles mark the deployment location. Squares mark the location on the first day of every month for the first buoy (ID. No. 23912) and for the second buoy (ID. No. 23911).

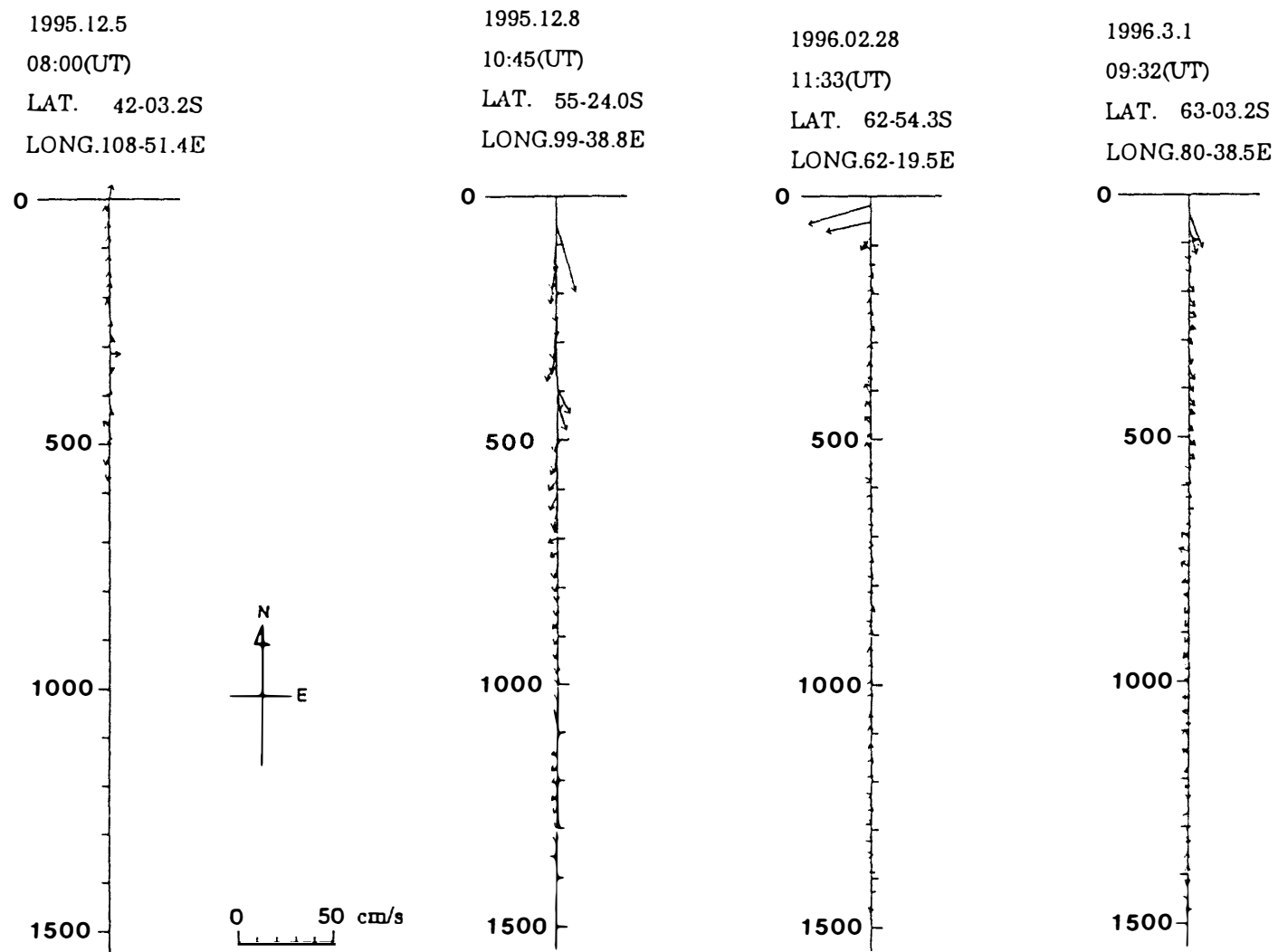


Fig. 5. Vertical profiles of current relative to the deepest layer measured with XCP. Length of arrows indicates current speed and direction of arrows indicates horizontal direction (see legends).

Table 1. Data of surface water observations on board the icebreaker “Shirase” in 1995-96.

| Date | Time | | Position | | Air Temp | Water Temp | S | pH | DO2 | P04-P | SI03-Si | N02-N | N03-N | NH4-N |
|--------|------|-------|------------|-----------|----------|------------|--------|------|-----|-------|---------|-------|-------|-------|
| | UT | LMT | lat. | long. | °C | μmol/l | | | | | | | | |
| 1995 | | | | | | | | | | | | | | |
| Nov 14 | | | left | Tokyo | | | | | | | | | | |
| 15 | 2300 | *0800 | 31-18 N | 137-29 E | 21.1 | 23.7 | 34.877 | 8.22 | 219 | 0.04 | 3 | 0.05 | 0 | 0.2 |
| 15 | 0700 | 1600 | 29-33 | 137-00 | 22.5 | 24.2 | 34.698 | 8.22 | 218 | 0.04 | 3 | 0.01 | 0 | 0.2 |
| 16 | 2300 | *0800 | 25-50 | 135-15 | 23.8 | 25.8 | 34.844 | 7.87 | 212 | 0.00 | 5 | 0.03 | 0 | 0.5 |
| 16 | 0700 | 1600 | 23-56 | 134-24 | 26.1 | 26.1 | 34.760 | 7.89 | 212 | 0.00 | 4 | 0.01 | 0 | 0.4 |
| 17 | 2300 | *0800 | 20-04 | 132-36 | 28.5 | 28.3 | 34.559 | 7.93 | 208 | 0.00 | 3 | 0.01 | 0 | 0.3 |
| 17 | 0700 | 1600 | 18-12 | 131-51 | 29.0 | 29.3 | 34.395 | 7.93 | 204 | 0.00 | 3 | 0.00 | 0 | 0.6 |
| 18 | 2300 | *0800 | 14-21 | 130-13 | 29.5 | 29.2 | 34.111 | 7.59 | 205 | 0.00 | 3 | 0.00 | 0 | 0.3 |
| 18 | 0700 | 1600 | 12-41 | 129-25 | 29.5 | 29.4 | 34.098 | 7.60 | 201 | 0.00 | 3 | 0.00 | 0 | 0.2 |
| 19 | 2300 | *0800 | 8-51 | 127-48 | 30.1 | 29.4 | 33.551 | 7.74 | 201 | 0.00 | 3 | 0.00 | 0 | 0.1 |
| 19 | 0700 | 1600 | 7-00 | 127-01 | 27.6 | 29.5 | 33.866 | 7.77 | 201 | 0.00 | 3 | 0.01 | 0 | 0.2 |
| 20 | 2300 | *0800 | 3-54 | 123-52 | 29.8 | 29.5 | 33.778 | 7.74 | 208 | 0.00 | 3 | 0.00 | 0 | 0.1 |
| 20 | 0700 | 1600 | 2-45 | 122-07 | 27.2 | 29.2 | 33.388 | 7.80 | 205 | 0.00 | 4 | 0.01 | 0 | 0.3 |
| 21 | 2300 | *0800 | 0-02 S | 119-15 | 27.1 | 30.1 | 33.366 | 7.77 | 206 | 0.00 | 4 | 0.01 | 0 | 0.1 |
| 21 | 0700 | 1600 | 1-47 | 118-50 | 25.9 | 29.6 | 32.895 | 7.80 | 210 | 0.00 | 7 | 0.00 | 0 | 0.6 |
| 22 | 2300 | *0800 | 5-23 | 117-09 | 28.7 | 29.9 | 33.910 | 7.77 | 203 | 0.00 | 5 | 0.00 | 0 | 0.2 |
| 22 | 0700 | 1600 | 7-15 | 116-19 | 30.3 | 30.1 | 33.580 | 7.78 | 203 | 0.00 | 4 | 0.01 | 0 | 0.2 |
| 23 | 2300 | *0800 | 10-46 | 115-20 | 28.2 | 29.1 | 33.831 | 7.77 | 202 | 0.01 | 4 | 0.01 | 0 | 0.2 |
| 23 | 0700 | 1600 | 12-29 | 115-01 | 29.2 | 29.6 | 34.447 | 7.75 | 202 | 0.00 | 4 | 0.01 | 0 | 0.3 |
| 24 | 2300 | *0800 | 16-22 | 114-21 | 27.1 | 27.6 | 34.671 | 7.76 | 214 | 0.03 | 4 | 0.00 | 0 | 0.2 |
| 24 | 0700 | 1600 | 18-02 | 114-03 | 27.7 | 27.2 | 34.933 | 7.78 | 209 | 0.03 | 5 | 0.00 | 0 | 0.2 |
| 25 | 2300 | *0800 | 21-34 | 113-22 | 23.8 | 25.3 | 35.109 | 7.82 | 215 | 0.04 | 4 | 0.00 | 0 | 0.4 |
| 25 | 0700 | 1600 | 23-20 | 113-00 | 23.5 | 24.3 | 35.226 | 7.84 | 219 | 0.09 | 4 | 0.00 | 0 | 0.4 |
| Nov 28 | | | Arrived in | Fremantle | | | | | | | | | | |
| Dec 3 | | | Left | Fremantle | | | | | | | | | | |
| 4 | 0000 | 0800 | 36-04 | 112-42 | 14.3 | 18.0 | 35.930 | 7.88 | 243 | 0.01 | 4 | 0.00 | 0 | 0.7 |
| 4 | 0800 | 1600 | 37-43 | 111-35 | 14.6 | 14.6 | 35.273 | 7.87 | 269 | 0.28 | 3 | 0.08 | 2 | 0.5 |
| 5 | 0100 | 0800 | 41-22 | 109-15 | 11.7 | 12.0 | 34.963 | 7.92 | 279 | 0.31 | 0 | 0.06 | 4 | 0.3 |
| 5 | 0500 | 1200 | 42-03 | 108-51 | 11.3 | 11.3 | 34.797 | 7.93 | 284 | 0.74 | 3 | 0.18 | 11 | 0.2 |

* The time of the date of the preceding day.

| Date | Time | | Position | | Air Temp | Water Temp | S | pH | DO2 | P04-P | SI03-Si | N02-N | N03-N | NH4-N | |
|---|-------------------------------------|--------|----------|---------|----------|------------|--------|--------|------|--------|---------|-------|-------|-------|-----|
| | UT | LMT | lat. | long. | °C | | | | | μmol/l | | | | | |
| Dec | 7 | 0300 | 0800 | 50-15 S | 104-12 E | 4.4 | 5.9 | 34.124 | 7.80 | 312 | 1.43 | 11 | 0.22 | 21 | 0.3 |
| | 7 | 0900 | 1600 | 51-39 | 103-12 | 3.4 | 3.7 | 33.957 | 7.83 | 334 | 1.62 | 7 | 0.21 | 22 | 0.3 |
| | 8 | 0100 | 0800 | 54-13 | 100-48 | 1.5 | 2.6 | 33.968 | 7.67 | 342 | 1.53 | 13 | 0.19 | 25 | 0.4 |
| | 8 | 0800 | 1500 | 55-24 | 99-39 | 1.9 | 0.9 | 34.015 | 7.73 | --- | 1.75 | 32 | 0.26 | 23 | 0.4 |
| | 9 | 0100 | 0800 | 57-21 | 96-07 | 1.2 | 1.0 | 34.003 | 7.88 | 354 | 1.54 | 23 | 0.29 | 25 | 0.8 |
| | 9 | 0500 | 1200 | 57-34 | 94-34 | 2.0 | 0.2 | 33.897 | 7.90 | 362 | 1.66 | 32 | 0.25 | 25 | 0.3 |
| | 10 | 0200 | 0800 | 58-49 | 87-20 | 0.1 | 1.5 | 33.974 | 7.69 | 348 | 1.57 | 20 | 0.16 | 25 | 0.2 |
| | 10 | 1000 | 1600 | 59-18 | 84-47 | -0.8 | -0.9 | 33.908 | 7.68 | 341 | 1.93 | 62 | 0.20 | 27 | 0.2 |
| | 12 | 0730 | 1230 | 61-29 | 70-13 | 0.0 | -1.0 | 33.794 | 7.86 | 365 | 1.82 | 48 | 0.23 | 23 | 0.8 |
| Arrived at the ice edge off SYOWA station | | | | | | | | | | | | | | | |
| 1996 | Left at the ice edge off SYOWA stat | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Feb | 27 | 0500 | 0800 | 62-59 | 51-26 | 0.8 | 1.3 | 33.879 | 7.89 | 347 | 1.21 | 27 | 0.33 | 19 | 1.5 |
| | 27 | 1300 | 1600 | 63-00 | 55-01 | 0.4 | 1.2 | 33.814 | 7.90 | 347 | 1.45 | 22 | 0.27 | 21 | 0.6 |
| | 28 | 0400 | 0800 | 62-58 | 60-32 | 0.3 | 0.7 | 33.785 | 7.86 | 347 | 1.71 | 28 | 0.30 | 24 | 1.2 |
| | 28 | 0830 | 1230 | 62-54 | 62-20 | 1.5 | 0.5 | 33.747 | 7.85 | 347 | 1.77 | 33 | 0.30 | 32 | 1.5 |
| | 29 | 1200 | 1600 | 62-27 | 70-53 | -0.4 | 0.3 | 33.719 | 7.79 | 344 | 1.80 | 41 | 0.26 | 26 | 0.1 |
| Mar | 1 | 0300 | 0800 | 63-06 | 78-21 | 0.7 | 0.2 | 33.796 | 7.79 | 341 | 1.85 | 47 | 0.23 | 26 | 0.4 |
| | 1 | 0700 | 1200 | 63-03 | 80-39 | 1.0 | 0.4 | 33.816 | 7.80 | 342 | 1.88 | 55 | 0.27 | 27 | 0.5 |
| | 2 | 0200 | 0800 | 63-30 | 89-43 | -0.1 | 0.7 | 33.924 | 7.82 | 345 | 1.59 | 34 | 0.20 | 25 | 0.8 |
| | 2 | 0630 | 1230 | 63-27 | 92-06 | 1.8 | 0.6 | 33.822 | 7.86 | 359 | 1.40 | 36 | 0.18 | 23 | 0.2 |
| | 3 | 0200 | 0800 | 63-30 | 101-25 | 0.5 | -0.1 | 33.943 | 7.89 | 362 | 1.45 | 47 | 0.22 | 23 | 0.9 |
| | 3 | 0600 | 1200 | 63-27 | 103-22 | 1.1 | 0.9 | 33.939 | 7.87 | 345 | 1.56 | 39 | 0.23 | 23 | 0.9 |
| | 4 | 0100 | 0800 | 63-30 | 112-21 | 1.3 | 1.0 | 33.971 | 7.72 | 346 | 1.78 | 47 | 0.28 | 25 | 0.4 |
| | 4 | 0500 | 1200 | 63-35 | 114-10 | 1.8 | 0.7 | 33.976 | 7.74 | 346 | 1.84 | 48 | 0.26 | 26 | 0.5 |
| | 5 | 0000 | 0800 | 63-30 | 121-52 | 1.6 | 2.0 | 33.816 | 7.67 | 349 | 1.55 | 28 | 0.36 | 23 | 0.3 |
| | 5 | 0400 | 1200 | 63-28 | 123-42 | 3.1 | 1.9 | 33.912 | 7.87 | 351 | 1.59 | 31 | 0.37 | 24 | 0.4 |
| | 6 | 0000 | 0800 | 63-31 | 130-06 | 1.0 | 1.7 | 33.912 | 7.89 | 340 | 1.71 | 25 | 0.31 | 24 | 0.5 |
| | 6 | 0400 | 1200 | 63-44 | 131-25 | 2.2 | 1.7 | 33.923 | 7.90 | 348 | 1.62 | 32 | 0.33 | 23 | 0.5 |
| | 7 | 2300 * | 0800 | 64-41 | 137-20 | 0.3 | 0.6 | 33.794 | 7.87 | 349 | 1.53 | 33 | 0.25 | 22 | 0.4 |
| 7 | 0330 | 1230 | 64-55 | 138-54 | 0.0 | 0.3 | 33.970 | 7.89 | 351 | 1.62 | 38 | 0.25 | 23 | 0.3 | |

* The time of the date of the preceding day.

| Date | Time | | Position | | Air Temp | Water Temp | S | pH | DO2 | PO4-P | SI03-Si | NO2-N | NO3-N | NH4-N | | |
|-----------|-----------|-------|----------|----------|----------|------------|--------|------|------|-------|---------|-------|-------|-------|--|--|
| | UT | LMT | lat. | long. | °C | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| Mar 11 | 0500 | 1400 | 65-06 S | 141-50 E | -2.0 | 0.2 | 33.992 | 7.97 | 347 | 1.69 | 38 | 0.23 | 22 | 0.4 | | |
| | 12 2300 * | 0800 | 62-39 | 141-46 | 1.4 | 1.6 | 33.846 | 8.02 | 339 | 1.64 | 31 | 0.33 | 22 | 0.2 | | |
| | 12 0300 | 1200 | 62-03 | 142-01 | 3.1 | 2.8 | 33.872 | 8.02 | 332 | 1.74 | 14 | 0.33 | 22 | 0.4 | | |
| | 13 2200 * | 0800 | 58-57 | 143-23 | 3.9 | 4.1 | 33.812 | 7.97 | 320 | 1.61 | 3 | 0.32 | 20 | 0.1 | | |
| | 13 0200 | 1200 | 58-14 | 143-36 | 3.9 | 4.3 | 33.826 | 7.98 | 321 | 1.65 | 3 | 0.31 | 21 | 0.3 | | |
| | 14 0300 | 1300 | 55-55 | 144-27 | 3.8 | 4.4 | 34.425 | 7.89 | 326 | 1.47 | 1 | 0.24 | 20 | 0.2 | | |
| 15 2300 * | 0900 | 52-47 | 145-32 | 7.5 | 6.0 | 33.785 | 7.96 | 313 | 1.47 | 3 | 0.31 | 19 | 0.2 | | | |

* The time of the date of the preceding day.

Table 2. XBT observation data. "S.L." indicates surface layer depth in meters.

| NUMBER | DATE TIME | | POSITION | | TEMPERATURE (° C) | | | | | | | | | | | | | | | | S. L. AIR TEMP. (M) (° C) | |
|---------|-----------|------|----------|---------|-------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|-----|---------------------------------|--|
| | | | | | DEPTH (M) | | | | | | | | | | | | | | | | | |
| | UT | LAT. | LONG. | 0 | 10 | 20 | 30 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | |
| | | | | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1100 | 1200 | 1300 | 1400 | | | | |
| 1500 | | | | 1600 | 1700 | 1800 | | | | | | | | | | | | | | | | |
| SP95001 | 95-12-03 | 11.0 | 33-24S | 114-30E | 20.3 | 20.4 | 20.4 | 20.3 | 19.7 | 18.8 | 17.8 | 17.1 | 16.6 | 15.0 | 13.9 | 12.5 | 11.3 | 10.4 | 9.7 | 97 | 16.2 | |
| | | | | | 9.4 | 8.9 | 7.7 | 7.8 | 7.8 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | - | - | - | - | - | | | |
| SP95002 | 95-12-04 | 00.0 | 36-04S | 112-42E | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 18.1 | 17.9 | 16.6 | 16.2 | 14.9 | 14.2 | 13.6 | 12.1 | 10.8 | 10.0 | 0 | 14.4 | |
| | | | | | 9.7 | 9.4 | 9.2 | 8.9 | 8.4 | 7.5 | 6.8 | 6.3 | - | - | - | - | - | - | - | | | |
| SP95003 | 95-12-04 | 08.0 | 37-43S | 111-35E | 13.9 | 13.9 | 13.8 | 13.7 | 13.4 | 13.4 | 12.3 | 11.6 | 11.2 | 10.5 | 9.9 | 9.6 | 9.5 | 9.4 | 9.3 | 65 | 14.6 | |
| | | | | | 9.2 | 8.9 | 8.6 | 8.1 | 7.6 | 7.1 | 6.6 | 6.0 | 5.9 | - | - | - | - | - | - | | | |
| SP95004 | 95-12-05 | 01.0 | 41-22S | 109-15E | 11.9 | 11.8 | 11.8 | 11.8 | 11.7 | 11.6 | 11.5 | 11.0 | 10.7 | 10.3 | 10.1 | 10.0 | 10.0 | 9.8 | 9.6 | 0 | 11.7 | |
| | | | | | 9.4 | 9.2 | 9.1 | 8.9 | 8.5 | 8.1 | 7.5 | 7.1 | 6.9 | - | - | - | - | - | - | | | |
| SP95005 | 95-12-05 | 07.5 | 42-03S | 108-51E | 11.2 | 11.2 | 11.1 | 11.1 | 11.0 | 10.7 | 10.6 | 9.9 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.8 | 9.6 | 111 | 11.4 | |
| | | | | | 9.4 | 9.0 | 8.7 | 8.1 | 7.5 | 7.0 | 6.3 | 5.8 | 5.6 | - | - | - | - | - | - | | | |
| SP95006 | 95-12-05 | 13.0 | 43-08S | 108-19E | 10.5 | 10.5 | 10.5 | 10.5 | 10.4 | 10.4 | 10.3 | 10.2 | 10.2 | 10.1 | 10.1 | 10.0 | 10.0 | 9.8 | 9.8 | 0 | 9.7 | |
| | | | | | 9.4 | 8.9 | 8.7 | 8.2 | 8.0 | 7.4 | 6.7 | - | - | - | - | - | - | - | - | | | |
| SP95007 | 95-12-06 | 01.0 | 45-37S | 106-56E | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.1 | 10.0 | 9.9 | 9.9 | 9.7 | 9.4 | 0 | 8.5 | |
| | | | | | 9.3 | 8.8 | 8.5 | 8.2 | 7.8 | 7.3 | 6.7 | - | - | - | - | - | - | - | - | | | |
| SP95008 | 95-12-06 | 10.0 | 47-15S | 106-00E | 7.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.7 | 8.4 | 7.9 | 7.5 | 6.8 | 6.7 | 6.2 | 6.0 | 5.7 | 4.9 | 63 | 6.8 | |
| | | | | | 4.7 | 4.2 | 4.0 | 3.4 | 3.4 | 3.3 | 3.1 | - | - | - | - | - | - | - | - | | | |
| SP95009 | 95-12-07 | 01.0 | 50-14S | 104-12E | 5.8 | 5.8 | 5.7 | 5.7 | 5.7 | 5.8 | 5.8 | 5.6 | 4.6 | 4.1 | 4.3 | 4.2 | 4.1 | 3.9 | 3.3 | 125 | 4.4 | |
| | | | | | 3.3 | 3.2 | 2.9 | 2.8 | 3.1 | 2.9 | 2.6 | - | - | - | - | - | - | - | - | | | |
| SP95010 | 95-12-07 | 09.0 | 51-39S | 103-12E | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 | 2.4 | 2.2 | 2.0 | 1.9 | 2.3 | 2.3 | 2.5 | 2.4 | 2.4 | 93 | 3.3 | |
| | | | | | 2.4 | 2.5 | 2.4 | 2.4 | 2.4 | 2.3 | 2.3 | - | - | - | - | - | - | - | - | | | |
| SP95011 | 95-12-08 | 01.0 | 54-13S | 100-48E | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 1.4 | 1.3 | 1.4 | 1.8 | 2.3 | 2.3 | 2.4 | 2.2 | 108 | 1.7 | |
| | | | | | 2.4 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | - | - | - | - | - | - | - | - | | | |
| SP95012 | 95-12-08 | 10.7 | 55-24S | 99-39E | 1.0 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.2 | 0.2 | 0.7 | 2.1 | 2.1 | 2.3 | 2.4 | 2.3 | 2.7 | 0 | 1.7 | |
| | | | | | 2.5 | 2.4 | 3.1 | 2.8 | 2.5 | 2.8 | 2.6 | - | - | - | - | - | - | - | - | | | |
| SP95013 | 95-12-08 | 14.0 | 56-00S | 99-08E | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | -0.3 | -0.4 | -0.1 | 1.7 | 2.0 | 1.9 | 2.1 | 2.0 | 1.9 | 80 | 1.7 | |
| | | | | | 1.9 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | 0.0 | 50.0 | 100.0 | 150.0 | 250.0 | 350.0 | 450.0 | - | | | |
| SP95014 | 95-12-09 | 01.0 | 57-21S | 96-07E | 0.8 | 0.8 | 0.8 | 0.7 | 0.6 | 0.6 | -0.3 | -0.4 | -0.1 | 1.7 | 2.0 | 1.9 | 2.1 | 2.0 | 1.9 | 84 | 1.0 | |
| | | | | | 1.9 | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.8 | - | - | - | - | - | - | - | - | | | |
| SP95015 | 95-12-09 | 07.7 | 57-34S | 94-34E | 0.3 | 0.3 | 0.3 | 0.1 | 1.4 | 1.1 | 1.7 | 2.1 | 2.6 | 3.7 | 3.2 | 2.7 | 2.7 | 2.9 | 2.8 | 40 | 2.1 | |
| | | | | | 3.0 | 2.9 | 2.7 | 2.6 | 2.7 | 2.8 | 2.8 | - | - | - | - | - | - | - | - | | | |

| NUMBER | DATE TIME | | POSITION | | TEMPERATURE (° C) | | | | | | | | | | | | | | | | | S. L. (M) | AIR TEMP. (° C) |
|---------|-----------|------|----------|--------|-------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|-----------|-----------------|
| | | | | | DEPTH (M) | | | | | | | | | | | | | | | | | | |
| | UT | LAT. | LONG. | 0 | 10 | 20 | 30 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | | |
| | | | | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1100 | 1200 | 1300 | 1400 | | | | | |
| | | | | | 1500 | 1600 | 1700 | 1800 | | | | | | | | | | | | | | | |
| SP95016 | 95-12-09 | 13.0 | 57-55S | 92-41E | 0.7 | 0.7 | 0.7 | 0.7 | 0.6 | -0.4 | -0.5 | -0.3 | -0.1 | 0.7 | 1.6 | 2.0 | 1.9 | 2.0 | 2.0 | 66 | 1.6 | | |
| | | | | | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | - | - | - | - | - | - | - | - | | | | |
| SP95017 | 95-12-10 | 02.0 | 58-49S | 87-20E | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.2 | 0.1 | 0.1 | 1.0 | 1.6 | 1.9 | 2.0 | 2.1 | 2.2 | 84 | 0.1 | | |
| | | | | | 2.3 | 2.2 | 2.1 | 2.2 | 2.1 | 2.1 | 2.1 | - | - | - | - | - | - | - | - | | | | |
| SP95018 | 95-12-11 | 02.0 | 60-20S | 81-25E | -0.8 | -0.8 | -0.8 | -0.8 | -0.8 | -0.8 | -0.7 | -0.3 | 0.6 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 100 | 1.0 | | |
| | | | | | 1.9 | 1.8 | 1.7 | 1.7 | 1.7 | 1.6 | 1.6 | 1.5 | 1.5 | - | - | - | - | - | - | | | | |
| SP95019 | 95-12-11 | 10.0 | 60-56S | 78-33E | -0.9 | -1.0 | -1.0 | -1.0 | -1.0 | -1.0 | -1.1 | 0.5 | 1.5 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 99 | 0.4 | | |
| | | | | | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | - | - | - | - | - | - | | | | |
| SP95020 | 95-12-12 | 09.0 | 61-28S | 70-13E | -1.1 | -1.2 | -1.2 | -1.2 | -1.3 | -1.5 | -1.0 | 0.3 | 1.1 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 95 | 0.2 | | |
| | | | | | 2.0 | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.8 | 1.7 | - | - | - | - | - | - | | | | |
| SP95021 | 95-12-12 | 15.0 | 61-30S | 67-31E | -0.9 | -1.0 | -1.0 | -1.0 | -1.1 | -1.4 | -0.7 | 1.2 | 1.6 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 84 | -0.3 | | |
| | | | | | 2.0 | 2.0 | 2.0 | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | - | - | - | - | - | - | | | | |
| SP95022 | 96-02-26 | 12.7 | 65-38S | 48-44E | 0.1 | 0.0 | 0.0 | -0.0 | -0.8 | -1.6 | -1.8 | -1.7 | -1.7 | -1.7 | -1.6 | -1.5 | -1.0 | -0.5 | -0.2 | 46 | 0.4 | | |
| | | | | | -0.1 | 0.1 | -0.0 | 0.1 | 0.3 | 0.3 | 0.2 | 0.3 | 0.2 | 0.2 | - | - | - | - | - | | | | |
| SP95023 | 96-02-26 | 18.8 | 64-28S | 49-20E | 1.2 | 1.2 | 1.2 | 1.2 | 0.9 | -1.6 | -1.6 | -1.0 | -0.7 | -0.4 | -0.1 | 0.3 | 0.7 | 0.0 | 0.0 | 50 | -0.5 | | |
| | | | | | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | - | - | - | - | - | - | - | - | | | | |
| SP95024 | 96-02-27 | 05.0 | 63-00S | 51-26E | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | -1.2 | -1.5 | -0.4 | 0.7 | 1.4 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 58 | 0.8 | | |
| | | | | | 1.6 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 | - | - | - | - | - | - | - | - | | | | |
| SP95025 | 96-02-27 | 13.0 | 63-00S | 55-09E | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | -1.7 | -1.0 | 0.9 | 1.3 | 1.7 | 1.8 | 1.8 | 2.0 | 1.9 | 1.9 | 58 | 0.4 | | |
| | | | | | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.7 | 1.6 | 1.6 | - | - | - | - | - | - | - | | | | |
| SP95026 | 96-02-27 | 20.0 | 63-00S | 57-34E | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | -1.0 | 0.6 | 1.2 | 1.5 | 1.7 | 1.7 | 1.7 | 1.8 | 1.8 | 1.7 | 58 | -0.4 | | |
| | | | | | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | - | - | - | - | - | - | - | - | | | | |
| SP95027 | 96-02-28 | 04.0 | 62-58S | 60-32E | 0.5 | 0.6 | 0.5 | 0.5 | 0.5 | -1.1 | -0.6 | 0.9 | 1.5 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 66 | 0.3 | | |
| | | | | | 1.8 | 1.9 | 1.8 | 1.8 | 1.9 | 1.8 | 1.8 | 1.8 | - | - | - | - | - | - | - | | | | |
| SP95028 | 96-02-28 | 11.7 | 62-54S | 62-20E | 0.5 | 0.4 | 0.4 | 0.4 | 0.3 | -1.1 | -0.2 | 0.8 | 1.5 | 1.7 | 1.8 | 1.9 | 1.9 | 1.9 | 1.9 | 52 | 1.1 | | |
| | | | | | 2.2 | 2.4 | 2.3 | 2.3 | 2.2 | 2.0 | 1.9 | - | - | - | - | - | - | - | - | | | | |
| SP95029 | 96-02-28 | 16.0 | 62-49S | 63-51E | 0.4 | 0.4 | 0.4 | 0.4 | 0.3 | -1.1 | -0.5 | 0.7 | 1.3 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 49 | 0.6 | | |
| | | | | | 2.0 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 1.7 | - | - | - | - | - | - | - | - | | | | |
| SP95030 | 96-02-28 | 20.0 | 62-40S | 65-51E | 0.3 | 0.3 | 0.3 | 0.3 | 0.2 | -0.7 | 0.0 | 1.2 | 1.5 | 1.8 | 1.8 | 1.9 | 2.0 | 2.0 | 2.0 | 48 | 0.1 | | |
| | | | | | 2.1 | 2.1 | 2.1 | 2.0 | 1.9 | 1.8 | 1.8 | 1.8 | - | - | - | - | - | - | - | | | | |
| SP95031 | 96-02-29 | 12.0 | 62-27S | 70-53E | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | -1.1 | 0.3 | 1.1 | 1.5 | 1.9 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 57 | -0.6 | | |
| | | | | | 1.9 | 1.9 | 1.9 | 1.9 | 1.8 | 1.8 | 2.1 | - | - | - | - | - | - | - | - | | | | |

| NUMBER | DATE TIME | | POSITION | | TEMPERATURE (° C) | | | | | | | | | | | | | | | | | S. L. AIR (M) (° C) | |
|---------|-----------|------|----------|---------|-------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------|-----------|-----------|----------|----------|----------|----------|----|------|------------------------|--|
| | | | | | DEPTH (M) | | | | | | | | | | | | | | | | | | |
| | UT | LAT. | LONG. | 0 | 10 | 20 | 30 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | | |
| | | | | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1100 | 1200 | 1300 | 1400 | | | | | |
| | | | | 1500 | 1600 | 1700 | 1800 | | | | | | | | | | | | | | | | |
| SP95032 | 96-02-29 | 19.0 | 62-39S | 74-16E | 0.4 5.1 | 0.4 5.1 | 0.4 4.7 | 0.4 4.5 | 3.1 4.4 | 6.1 4.1 | 5.9 4.7 | 6.8 - | 7.3 - | 7.2 - | 7.3 - | 7.3 - | 7.4 - | 5.5 - | 5.2 - | 0 | 1.4 | | |
| SP95034 | 96-03-01 | 11.0 | 63-03S | 80-39E | 0.1 1.8 | 0.1 1.8 | 0.1 1.7 | 0.1 1.7 | 0.1 1.7 | 0.0 1.7 | 1.4 1.6 | 1.6 - | 1.7 - | 1.8 - | 1.9 - | 1.9 - | 1.9 - | 1.9 - | 1.8 - | 50 | 0.6 | | |
| SP95036 | 96-03-01 | 18.0 | 63-17S | 85-29E | 0.1 1.8 | 0.2 1.7 | 0.2 1.7 | 0.2 1.7 | 0.1 1.6 | 0.2 1.6 | 1.1 1.5 | 1.4 - | 1.3 - | 1.6 - | 2.0 - | 2.0 - | 2.0 - | 1.9 - | 1.8 - | 48 | 0.6 | | |
| SP95037 | 96-03-02 | 02.0 | 63-30S | 89-43E | 0.6 1.4 | 0.6 1.4 | 0.6 1.3 | 0.6 1.2 | 0.5 1.2 | -1.0 1.2 | -0.7 1.1 | -0.4 - | 0.1 - | 0.9 - | 1.0 - | 1.2 - | 1.3 - | 1.3 - | 1.3 - | 50 | -0.1 | | |
| SP95038 | 96-03-02 | 08.8 | 63-27S | 92-06E | 0.4 1.2 | 0.4 1.2 | 0.3 1.2 | 0.3 1.1 | -0.8 1.0 | -0.6 1.0 | -0.2 1.0 | 0.0 - | 0.5 - | 1.1 - | 1.3 - | 1.3 - | 1.3 - | 1.3 - | 1.2 - | 38 | 1.3 | | |
| SP95039 | 96-03-02 | 14.0 | 63-29S | 94-58E | 0.4 1.2 | 0.4 1.1 | 0.4 1.1 | 0.3 1.0 | -0.7 1.0 | -0.9 0.9 | -0.8 0.9 | -0.4 - | -0.4 - | 1.1 - | 0.9 - | 1.1 - | 1.2 - | 1.2 - | 1.2 - | 40 | 0.9 | | |
| SP95041 | 96-03-02 | 18.0 | 63-30S | 101-25E | -0.2 0.4 | -0.2 0.5 | -0.3 0.3 | -0.3 0.3 | -0.9 0.2 | -1.5 0.2 | -1.6 0.1 | -1.5 0.1 | -1.4 - | -0.7 - | -0.2 - | 0.1 - | 0.4 - | 0.5 - | 0.4 - | 46 | 0.7 | | |
| SP95042 | 96-03-03 | 08.3 | 63-27S | 103-22E | 0.9 1.5 | 0.8 1.5 | 0.7 1.4 | 0.6 1.2 | -0.4 1.1 | -0.6 1.1 | 0.5 0.9 | 0.9 - | 1.0 - | 1.3 - | 1.4 - | 1.3 - | 1.5 - | 1.5 - | 1.5 - | 38 | 1.4 | | |
| SP95043 | 96-03-03 | 14.0 | 63-30S | 106-22E | -0.1 1.2 | -0.2 1.2 | -0.6 1.2 | -0.9 1.1 | -1.4 1.1 | -1.7 1.0 | -1.6 - | -1.4 - | -0.9 - | 0.1 - | 0.8 - | 1.2 - | 1.3 - | 1.3 - | 1.3 - | 0 | -0.2 | | |
| SP95044 | 96-03-03 | 17.0 | 63-27S | 108-02E | -0.2 1.1 | -0.2 1.1 | -0.2 1.0 | -0.3 1.0 | -1.3 1.0 | -1.4 0.9 | -1.1 - | -0.3 - | 0.3 - | 1.0 - | 1.2 - | 1.2 - | 1.2 - | 1.2 - | 1.2 - | 31 | -0.2 | | |
| SP95045 | 96-03-04 | 01.0 | 63-30S | 112-21E | 0.7 1.4 | 0.7 1.4 | 0.7 1.4 | 0.7 1.3 | -0.1 1.3 | 0.9 1.2 | 1.2 - | 1.2 - | 1.3 - | 1.5 - | 1.5 - | 1.5 - | 1.5 - | 1.5 - | 1.4 - | 39 | 0.9 | | |
| SP95046 | 96-03-04 | 07.3 | 63-35S | 114-10E | 0.2 1.1 | 0.1 1.1 | 0.1 1.0 | 0.1 1.0 | -0.5 0.9 | 0.3 0.9 | 0.9 - | 1.1 - | 1.2 - | 1.3 - | 1.3 - | 1.3 - | 1.3 - | 1.2 - | 1.2 - | 34 | 2.4 | | |
| SP95047 | 96-03-04 | 13.0 | 63-29S | 116-50E | 0.8 1.2 | 0.8 1.2 | 0.5 1.1 | -0.6 1.1 | -0.9 1.0 | -0.3 1.0 | 0.4 - | 1.0 - | 1.3 - | 1.4 - | 1.4 - | 1.4 - | 1.3 - | 1.3 - | 1.2 - | 20 | 1.2 | | |
| SP95048 | 96-03-04 | 16.0 | 63-29S | 118-13E | 1.0 1.2 | 1.1 1.2 | 1.1 1.1 | 0.2 1.1 | -1.1 1.0 | -0.6 1.0 | 0.3 - | 1.3 - | 1.3 - | 1.4 - | 1.4 - | 1.3 - | 1.3 - | 1.3 - | 1.3 - | 28 | 0.7 | | |
| SP95049 | 96-03-05 | 00.0 | 63-30S | 121-52E | 1.8 1.7 | 1.8 1.6 | 1.8 1.6 | 1.6 1.6 | -0.2 1.5 | 0.4 1.5 | 1.1 - | 1.4 - | 1.5 - | 1.5 - | 1.6 - | 1.7 - | 1.7 - | 1.7 - | 1.8 - | 29 | 1.6 | | |
| SP95050 | 96-03-05 | 06.9 | 63-27S | 123-42E | 1.9 1.5 | 1.9 1.5 | 1.8 1.4 | 1.8 1.4 | -0.0 1.3 | -0.2 1.3 | 0.9 - | 1.3 - | 1.4 - | 1.5 - | 1.5 - | 1.5 - | 1.5 - | 1.5 - | 1.5 - | 35 | 2.1 | | |

| NUMBER | DATE TIME | | | POSITION | | TEMPERATURE (° C) | | | | | | | | | | | | | | | | | S. L. AIR TEMP. (M) (° C) | |
|---------|-----------|------|--------|----------|------|-------------------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|-----|--|---------------------------------|--|
| | | | | | | DEPTH (M) | | | | | | | | | | | | | | | | | | |
| | UT | LAT. | LONG. | | | 0 | 10 | 20 | 30 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | |
| | | | | | | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1100 | 1200 | 1300 | 1400 | | | | |
| | | | | | 1500 | 1600 | 1700 | 1800 | | | | | | | | | | | | | | | | |
| SP95051 | 96-03-05 | 12.0 | 63-30S | 125-42E | 1.8 | 1.8 | 1.8 | 1.5 | -0.2 | -0.0 | 0.8 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 3.5 | 3.5 | 2.2 | 21 | 1.5 | | | |
| | | | | | 1.9 | 2.1 | 2.2 | 2.3 | 2.5 | 2.4 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95052 | 96-03-05 | 16.0 | 63-31S | 127-15E | 1.9 | 1.9 | 1.9 | 1.8 | 0.2 | -0.3 | 0.7 | 1.2 | 1.3 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 42 | 1.7 | | | |
| | | | | | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95053 | 96-03-06 | 00.0 | 63-31S | 130-06E | 1.6 | 1.5 | 1.5 | 1.5 | 0.3 | -0.4 | 1.0 | 1.6 | 1.8 | 1.9 | 2.0 | 1.8 | 1.9 | 1.7 | 2.0 | 45 | 1.0 | | | |
| | | | | | 2.0 | 2.0 | 1.9 | 1.9 | 1.8 | 1.7 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95054 | 96-03-06 | 06.5 | 63-44S | 131-25E | 1.5 | 1.5 | 1.4 | 1.4 | -0.4 | 0.8 | 1.3 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.6 | 1.7 | 1.7 | 34 | 1.9 | | | |
| | | | | | 1.6 | 1.6 | 1.5 | 1.5 | 1.4 | 1.4 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95060 | 96-03-11 | 01.5 | 65-03S | 141-45E | -0.4 | -0.4 | -0.4 | -0.5 | -0.6 | -1.5 | -1.6 | -1.5 | -1.2 | -0.4 | 0.2 | 0.4 | 0.6 | 0.7 | 0.7 | 51 | 0.7 | | | |
| | | | | | 0.8 | 0.7 | 0.8 | 0.8 | 0.8 | 0.7 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95064 | 96-03-12 | 06.0 | 62-04S | 142-08E | 2.6 | 2.5 | 2.5 | 2.5 | 2.5 | 1.8 | -0.4 | 0.7 | 1.5 | 2.0 | 2.1 | 2.1 | 2.2 | 2.1 | 2.1 | 72 | 3.3 | | | |
| | | | | | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95065 | 96-03-12 | 14.0 | 60-27S | 142-47E | 3.0 | 2.9 | 2.9 | 3.0 | 2.9 | 0.9 | -0.3 | -0.1 | 1.3 | 2.0 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 67 | 3.2 | | | |
| | | | | | 2.3 | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95066 | 96-03-12 | 22.0 | 58-57S | 143-23E | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 1.9 | 1.1 | 1.0 | 1.0 | 1.9 | 2.1 | 2.3 | 2.3 | 2.5 | 2.7 | 94 | 3.9 | | | |
| | | | | | 2.8 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95067 | 96-03-13 | 04.4 | 58-14S | 143-36E | 4.1 | 4.1 | 4.0 | 4.0 | 3.9 | 3.8 | 1.2 | 0.8 | 0.9 | 1.8 | 1.9 | 2.2 | 2.2 | 2.2 | 2.2 | 71 | 5.9 | | | |
| | | | | | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.2 | 2.2 | - | - | - | - | - | - | - | - | | | | | |
| SP95068 | 96-03-13 | 10.0 | 56-47S | 144-10E | 4.2 | 4.2 | 4.0 | 4.0 | 3.9 | 3.4 | 0.1 | -0.2 | 0.4 | 1.7 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 72 | 4.8 | | | |
| | | | | | 2.4 | 2.4 | 2.3 | 2.3 | 2.3 | 2.2 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95069 | 96-03-13 | 14.0 | 55-59S | 144-29E | 4.6 | 4.6 | 4.5 | 4.5 | 4.3 | 1.0 | 0.0 | 0.1 | 1.0 | 1.8 | 2.1 | 2.2 | 2.2 | 2.2 | 2.3 | 61 | 4.5 | | | |
| | | | | | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95070 | 96-03-14 | 05.0 | 55-52S | 144-29E | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 0.7 | -0.1 | -0.2 | 0.4 | 1.8 | 2.1 | 2.2 | 2.2 | 2.3 | 2.3 | 59 | 3.6 | | | |
| | | | | | 2.3 | 2.2 | 2.2 | 2.2 | 2.2 | 2.1 | - | - | - | - | - | - | - | - | - | | | | | |
| SP95071 | 96-03-14 | 10.0 | 55-25S | 144-44E | 4.2 | 4.2 | 4.2 | 4.2 | 4.2 | 1.0 | -0.1 | -0.3 | 0.3 | 1.7 | 2.0 | 2.4 | 2.4 | 2.4 | 2.3 | 60 | 3.7 | | | |
| | | | | | 2.4 | 2.3 | 2.3 | 2.2 | 2.2 | 2.3 | 2.3 | - | - | - | - | - | - | - | - | | | | | |
| SP95072 | 96-03-14 | 14.0 | 55-00S | 144-44E | 4.6 | 4.6 | 4.6 | 4.6 | 4.6 | 1.7 | 0.2 | 0.0 | 1.0 | 2.1 | 2.2 | 2.2 | 2.3 | 2.4 | 2.5 | 59 | 4.0 | | | |
| | | | | | 2.4 | 2.3 | 2.2 | 2.2 | 2.2 | 2.1 | 2.1 | - | - | - | - | - | - | - | - | | | | | |
| SP95073 | 96-03-14 | 22.0 | 53-01S | 145-24E | 5.6 | 5.6 | 5.5 | 5.3 | 5.3 | 3.7 | 2.3 | 1.6 | 1.3 | 1.3 | 2.1 | 2.2 | 2.4 | 2.4 | 2.5 | 67 | 6.7 | | | |
| | | | | | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.7 | 2.6 | 2.6 | - | - | - | - | - | - | - | | | | | |
| SP95074 | 96-03-15 | 01.0 | 52-48S | 145-32E | 6.1 | 6.1 | 6.1 | 6.0 | 5.5 | 3.8 | 2.1 | 1.3 | 1.2 | 1.4 | 2.1 | 2.2 | 2.3 | 2.3 | 2.4 | 32 | 7.3 | | | |
| | | | | | 2.4 | 2.5 | 2.5 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | - | - | - | - | - | - | - | | | | | |

| NUMBER | DATE TIME | | POSITION | | TEMPERATURE (° C) | | | | | | | | | | | | | | | | S. L. (M) | AIR TEMP. (° C) |
|---------|-----------|------|----------|---------|-------------------|------|------|------|------|------|-----|-----|-----|------|------|------|------|------|-----|----|--------------|-----------------------|
| | | | | | DEPTH (M) | | | | | | | | | | | | | | | | | |
| | UT | LAT. | LONG. | 0 | 10 | 20 | 30 | 50 | 75 | 100 | 125 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | | | | |
| | | | | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 | 1100 | 1200 | 1300 | 1400 | | | | |
| | | | | | 1500 | 1600 | 1700 | 1800 | | | | | | | | | | | | | | |
| SP95075 | 96-03-15 | 02.0 | 52-36S | 145-36E | 6.2 | 6.2 | 6.2 | 6.2 | 5.6 | 3.5 | 1.8 | 1.5 | 1.3 | 1.1 | 2.0 | 2.3 | 2.3 | 2.4 | 2.4 | 46 | 7.7 | |
| | | | | | 2.5 | 2.3 | 2.4 | 2.4 | 2.5 | 2.5 | - | - | - | - | - | - | - | - | - | | | |
| SP95076 | 96-03-15 | 03.0 | 52-21S | 145-40E | 5.7 | 5.7 | 5.6 | 5.5 | 5.4 | 5.4 | 3.0 | 2.0 | 1.4 | 1.1 | 1.8 | 2.1 | 2.3 | 2.4 | 2.4 | 80 | 8.1 | |
| | | | | | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | - | - | - | - | - | - | - | - | | | |
| SP95077 | 96-03-15 | 04.0 | 52-01S | 145-45E | 6.5 | 6.5 | 6.6 | 6.5 | 6.6 | 5.5 | 4.4 | 3.7 | 3.5 | 3.4 | 3.8 | 3.6 | 3.5 | 3.3 | 3.4 | 67 | 8.3 | |
| | | | | | 3.2 | 3.1 | 3.1 | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| SP95078 | 96-03-15 | 05.0 | 51-46S | 145-50E | 7.9 | 7.9 | 7.9 | 7.3 | 7.0 | 5.7 | 5.8 | 5.4 | 5.1 | 5.1 | 4.9 | 4.6 | 4.5 | 4.2 | 3.9 | 24 | 8.5 | |
| | | | | | 3.9 | 3.4 | 3.3 | 3.1 | 2.9 | 2.8 | - | - | - | - | - | - | - | - | - | | | |
| SP95079 | 96-03-15 | 06.0 | 51-29S | 145-53E | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 7.2 | 6.9 | 6.5 | 5.8 | 5.2 | 5.1 | 5.4 | 5.4 | 5.1 | 4.5 | 62 | 8.6 | |
| | | | | | 4.4 | 4.1 | 3.9 | 3.6 | 3.4 | 3.2 | - | - | - | - | - | - | - | - | - | | | |
| SP95080 | 96-03-15 | 07.0 | 51-16S | 146-04E | 8.9 | 8.6 | 8.6 | 8.6 | 8.6 | 9.0 | 6.8 | 6.7 | 7.1 | 6.1 | 6.3 | 6.3 | 6.2 | 5.4 | 5.1 | 71 | 8.2 | |
| | | | | | 4.8 | 4.4 | 4.2 | 4.1 | 4.0 | 3.7 | - | - | - | - | - | - | - | - | - | | | |
| SP95081 | 96-03-15 | 08.0 | 50-59S | 146-08E | 8.9 | 8.9 | 8.9 | 8.9 | 9.0 | 9.0 | 6.9 | 6.7 | 6.8 | 6.4 | 5.9 | 5.8 | 5.7 | 5.7 | 5.4 | 81 | 8.3 | |
| | | | | | 5.1 | 4.8 | 4.6 | 4.2 | 4.0 | 3.8 | - | - | - | - | - | - | - | - | - | | | |
| SP95082 | 96-03-15 | 09.0 | 50-45S | 146-11E | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 | 8.7 | 8.5 | 8.7 | 8.5 | 7.9 | 7.8 | 7.3 | 7.0 | 6.5 | 6.3 | 57 | 8.8 | |
| | | | | | 6.0 | 5.5 | 5.1 | 4.6 | 4.3 | 3.8 | - | - | - | - | - | - | - | - | - | | | |
| SP95083 | 96-03-15 | 10.0 | 50-32S | 146-14E | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 8.7 | 8.6 | 8.6 | 8.9 | 8.5 | 8.0 | 7.5 | 7.2 | 7.1 | 6.5 | 60 | 9.0 | |
| | | | | | 6.4 | 5.9 | 5.4 | 5.1 | 4.6 | 4.1 | - | - | - | - | - | - | - | - | - | | | |
| SP95084 | 96-03-15 | 11.0 | 50-19S | 146-18E | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 9.1 | 9.0 | 9.0 | 9.1 | 8.8 | 8.5 | 8.2 | 7.9 | 7.6 | 7.4 | 60 | 9.4 | |
| | | | | | 7.1 | 7.2 | 6.6 | 6.1 | 5.6 | 4.8 | - | - | - | - | - | - | - | - | - | | | |
| SP95085 | 96-03-16 | 08.0 | 47-19S | 147-08E | 11.1 | 11.1 | 11.1 | 11.1 | 11.2 | 10.0 | 9.4 | 7.0 | 6.5 | 5.5 | 5.6 | 5.6 | 5.6 | 5.8 | 5.7 | 62 | 12.7 | |
| | | | | | 5.4 | 5.3 | 4.9 | 4.7 | 4.3 | 3.9 | 3.7 | - | - | - | - | - | - | - | - | | | |
| SP95086 | 96-03-16 | 09.0 | 47-09S | 147-12E | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 6.2 | 6.0 | 5.9 | 4.4 | 4.1 | - | - | - | - | - | 69 | 12.6 | |
| SP95087 | 96-03-16 | 11.0 | 46-44S | 147-23E | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.0 | 9.5 | 9.1 | 8.9 | 8.7 | 8.5 | 8.7 | 8.6 | 8.0 | 7.7 | 76 | 12.4 | |
| | | | | | 7.6 | 7.1 | 6.8 | 6.6 | 6.2 | 5.7 | 5.1 | - | - | - | - | - | - | - | - | | | |
| SP95088 | 96-03-16 | 13.0 | 46-15S | 147-31E | 11.6 | 11.6 | 11.6 | 11.6 | 11.5 | 9.3 | 9.3 | 9.3 | 9.1 | 9.0 | 8.9 | 8.8 | 8.8 | 8.6 | 8.4 | 53 | 12.0 | |
| | | | | | 7.7 | 7.7 | 7.4 | 6.7 | 6.4 | 6.1 | 5.7 | - | - | - | - | - | - | - | - | | | |

Table 3. Serial observation data.

Station 1

Meteorological observation

| | | | | | | |
|-----------|--------------------|-----------------------|-----------|-------------|----------------|---------|
| Date | : December 5, 1995 | Weather | Time (UT) | : 05:00 | Wind Direction | : SW |
| Time (UT) | : 05:00 | Weather | | : b | Velocity | : 10m/s |
| Latitude | : 42-03.2S | Air Temperature (dry) | | : 11.2°C | Humidity | : 62 % |
| Longitude | : 108-51.4E | Air Temperature (wet) | | : 4.3°C | Wave | : SW /3 |
| Depth | : 4300m | Atmospheric Pressure | | : 1013.1hPa | Swell | : SW /3 |
| | | | | | Visibility | : 30km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | DO2 | PO4-P | SI03-Si (μmol/l) | NO2-N | NO3-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 11.30 | 34.797 | 7.93 | 284 | 0.74 | 3 | 0.18 | 11 | 0.2 | 0 | 11.30 | 34.796 | 26.580 | 0.000 |
| 19 | 11.13 | 34.787 | 7.92 | 284 | 0.79 | 5 | 0.19 | 10 | -- | 10 | 11.21 | 34.792 | 26.590 | 0.015 |
| 29 | 11.04 | 34.782 | 7.91 | 291 | 0.78 | 5 | 0.18 | 10 | 0.3 | 20 | 11.12 | 34.786 | 26.610 | 0.029 |
| 48 | 10.98 | 34.784 | 7.90 | 309 | 0.76 | 5 | 0.18 | 11 | -- | 30 | 11.03 | 34.781 | 26.620 | 0.043 |
| 75 | 10.79 | 34.791 | 7.89 | 304 | 0.78 | 5 | 0.20 | 10 | 0.4 | 50 | 10.96 | 34.783 | 26.630 | 0.072 |
| 100 | 10.66 | 34.807 | 7.86 | 289 | 0.79 | 5 | 0.22 | 11 | 0.4 | 75 | 10.79 | 34.790 | 26.670 | 0.107 |
| 124 | 10.22 | 34.779 | 7.88 | 288 | 0.88 | 5 | 0.32 | 11 | 0.4 | 100 | 10.66 | 34.807 | 26.710 | 0.142 |
| 152 | 9.79 | 34.758 | 7.85 | 285 | 0.87 | 5 | 0.04 | 14 | 0.3 | 125 | 10.18 | 34.776 | 26.770 | 0.176 |
| 197 | 9.78 | 34.761 | 7.83 | -- | 0.93 | 7 | 0.01 | 14 | 0.3 | 150 | 9.80 | 34.758 | 26.820 | 0.208 |
| 250 | 9.75 | 34.751 | 7.82 | 286 | 0.94 | 7 | 0.01 | 13 | 0.4 | 200 | 9.77 | 34.760 | 26.820 | 0.272 |
| 303 | 9.77 | 34.755 | 7.83 | 285 | 0.91 | 5 | 0.01 | 12 | -- | 250 | 9.75 | 34.751 | 26.820 | 0.336 |
| 400 | 9.78 | 34.763 | 7.82 | 282 | 1.00 | 5 | 0.00 | 14 | -- | 300 | 9.77 | 34.754 | 26.820 | 0.401 |
| 499 | 9.46 | 34.714 | 7.82 | 279 | 1.04 | 5 | 0.00 | 15 | 0.2 | 400 | 9.78 | 34.762 | 26.820 | 0.532 |
| 602 | 8.86 | 34.623 | 7.78 | 258 | 1.28 | 8 | 0.00 | 18 | 0.3 | 500 | 9.44 | 34.711 | 26.840 | 0.664 |
| 703 | 7.91 | 34.526 | 7.71 | 233 | 1.54 | 13 | 0.01 | 23 | 0.3 | 600 | 8.84 | 34.621 | 26.870 | 0.795 |
| 801 | 6.83 | 34.449 | 7.72 | 230 | 1.78 | 19 | 0.01 | 24 | -- | 700 | 7.90 | 34.525 | 26.940 | 0.923 |
| 904 | 5.71 | 34.391 | 7.68 | 226 | 2.00 | 25 | 0.00 | 28 | -- | 800 | 6.79 | 34.445 | 27.030 | 1.043 |
| 1002 | 4.75 | 34.344 | 7.68 | -- | -- | -- | -- | -- | 0.2 | 1000 | 4.72 | 34.345 | 27.210 | 1.255 |
| 1253 | 3.41 | 34.382 | 7.66 | 217 | 2.29 | 50 | 0.00 | 33 | -- | 1200 | 3.55 | 34.374 | 27.360 | 1.435 |
| 1503 | 2.90 | 34.489 | 7.63 | -- | -- | -- | -- | -- | -- | 1500 | 2.89 | 34.490 | 27.510 | 1.660 |
| 2999 | 1.62 | 34.749 | 7.56 | 215 | 2.22 | 107 | 0.00 | 31 | -- | 2000 | 2.32 | 34.619 | 27.660 | 1.964 |

Station 2

Meteorological observation

Date : December 8, 1995
 Time (UT) : 08:00
 Latitude : 55-24.0S
 Longitude : 99-38.8E
 Depth : 3700m

Weather Time (UT) : 08:00
 Weather : c
 Air Temperature (dry) : 1.8°C
 Air Temperature (wet) : -1.3°C
 Atmospheric Pressure : 1004.0hPa

Wind Direction : W
 Velocity : 8m/s
 Humidity : 82 %
 Wave : W / 4
 Swell : WSW/6
 Visibility : 30km

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si (μmol/l) | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 0.90 | 34.015 | 7.73 | --- | 1.76 | -- | 0.25 | 24 | 0.4 | 0 | 0.90 | 34.014 | 27.280 | 0.000 |
| 20 | 1.02 | 33.987 | 7.79 | --- | 1.71 | 25 | 0.25 | 26 | 0.3 | 10 | 0.99 | 33.994 | 27.260 | 0.008 |
| 32 | 0.98 | 33.990 | 7.78 | --- | 1.72 | 26 | 0.25 | 27 | 0.4 | 20 | 1.02 | 33.986 | 27.250 | 0.016 |
| 53 | 0.92 | 33.991 | 7.78 | 359 | 1.72 | 26 | 0.24 | 25 | 0.4 | 30 | 0.99 | 33.989 | 27.260 | 0.025 |
| 78 | 0.87 | 33.994 | 7.78 | 358 | 1.75 | 28 | 0.24 | 20 | 0.3 | 50 | 0.93 | 33.990 | 27.260 | 0.041 |
| 104 | -0.19 | 34.018 | 7.75 | 347 | 2.07 | 41 | 0.22 | 28 | -- | 75 | 0.88 | 33.992 | 27.260 | 0.062 |
| 127 | -0.05 | 34.045 | 7.74 | 339 | 2.13 | 42 | 0.22 | 22 | -- | 100 | 0.12 | 34.015 | 27.340 | 0.081 |
| 153 | -0.39 | 34.068 | 7.73 | 348 | 2.15 | 46 | 0.22 | 22 | -- | 125 | 0.06 | 34.043 | 27.360 | 0.099 |
| 205 | 1.05 | 34.271 | 7.66 | 267 | 2.35 | 61 | 0.05 | 31 | 0.4 | 150 | 0.36 | 34.065 | 27.390 | 0.117 |
| 252 | 2.09 | 34.426 | 7.62 | 208 | 2.50 | 70 | 0.01 | 29 | 0.4 | 200 | 0.95 | 34.256 | 27.470 | 0.150 |
| 305 | 2.15 | 34.492 | 7.61 | 199 | 2.47 | 75 | 0.01 | 32 | 0.2 | 250 | 2.08 | 34.424 | 27.530 | 0.180 |
| 406 | 2.16 | 34.579 | 7.62 | 193 | 2.45 | 81 | 0.01 | 33 | 0.3 | 300 | 2.15 | 34.489 | 27.570 | 0.208 |
| 506 | 2.11 | 34.635 | 7.62 | 191 | 2.40 | 83 | 0.00 | 31 | 0.3 | 400 | 2.16 | 34.575 | 27.640 | 0.259 |
| 605 | 1.86 | 34.671 | 7.62 | 200 | 2.34 | -- | 0.00 | 30 | -- | 500 | 2.11 | 34.633 | 27.690 | 0.305 |
| 703 | 1.96 | 34.696 | 7.62 | 197 | 2.31 | 90 | 0.01 | -- | -- | 600 | 1.87 | 34.670 | 27.740 | 0.346 |
| 805 | 1.85 | 34.711 | 7.63 | 200 | 2.29 | 93 | 0.00 | -- | 0.4 | 700 | 1.95 | 34.696 | 27.750 | 0.385 |
| 904 | 1.78 | 34.726 | 7.62 | 207 | 2.26 | 94 | 0.00 | 31 | 0.4 | 800 | 1.85 | 34.710 | 27.770 | 0.423 |
| 1006 | 1.70 | 34.735 | 7.62 | 211 | 2.25 | 96 | 0.00 | 31 | 0.3 | 1000 | 1.70 | 34.734 | 27.800 | 0.494 |
| 1255 | 1.60 | 34.751 | 7.61 | 212 | 2.21 | 100 | 0.00 | -- | -- | 1200 | 1.63 | 34.749 | 27.820 | 0.562 |
| 1504 | 1.34 | 34.741 | 7.61 | 218 | 2.23 | 108 | 0.00 | 31 | 0.3 | 1500 | 1.33 | 34.741 | 27.500 | 0.660 |
| 2003 | 0.94 | 34.722 | 7.59 | 218 | 2.26 | 120 | 0.01 | 32 | 0.3 | 2000 | 0.93 | 34.720 | 26.500 | 0.815 |
| 2997 | 0.27 | 34.691 | 7.57 | 231 | 2.34 | -- | 0.00 | 28 | -- | 2500 | 0.57 | 34.703 | 25.700 | 0.961 |
| 3261 | 0.15 | 34.687 | 7.57 | 239 | 2.34 | 136 | 0.00 | -- | -- | 3000 | 0.24 | 34.689 | 25.000 | 1.094 |

Station 3

Meteorological observation

| | | | | | | |
|-----------|--------------------|-----------------------|-----------|------------|----------------|---------|
| Date | : December 9, 1995 | Weather | Time (UT) | : 03:00 | Wind Direction | : NW |
| Time (UT) | : 05:00 | Weather | | : r | Velocity | : 10m/s |
| Latitude | : 57-34.0S | Air Temperature (dry) | | : 1.9°C | Humidity | : 95 % |
| Longitude | : 94-33.5E | Air Temperature (wet) | | : 1.2°C | Wave | : NW /3 |
| Depth | : 4200m | Atmospheric Pressure | | : 986.4hPa | Swell | : W /4 |
| | | | | | Visibility | : 15km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si (μmol/l) | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 0.20 | 33.897 | 7.90 | 363 | 1.66 | 32 | 0.24 | 25 | 0.3 | 0 | 0.20 | 33.896 | 27.230 | 0.000 |
| 20 | 0.21 | 33.899 | 7.88 | 363 | 1.65 | 28 | 0.23 | 26 | 0.5 | 10 | 0.21 | 33.897 | 27.230 | 0.009 |
| 32 | 0.19 | 33.901 | 7.88 | 362 | 1.65 | 28 | 0.24 | 26 | 0.3 | 20 | 0.21 | 33.899 | 27.230 | 0.017 |
| 52 | -0.02 | 33.931 | 7.88 | 365 | 1.62 | 26 | 0.27 | 24 | 0.4 | 30 | 0.20 | 33.901 | 27.230 | 0.026 |
| 77 | -0.19 | 33.932 | 7.87 | 360 | 1.78 | 32 | 0.26 | -- | 0.4 | 50 | 0.01 | 33.930 | 27.260 | 0.042 |
| 102 | -0.93 | 33.985 | 7.83 | 344 | 2.15 | 46 | 0.21 | 28 | -- | 75 | 0.18 | 33.931 | 27.270 | 0.062 |
| 128 | -0.52 | 34.070 | 7.79 | 321 | 2.22 | 52 | 0.17 | 28 | -- | 100 | 0.92 | 33.979 | 27.340 | 0.082 |
| 153 | 0.15 | 34.186 | 7.75 | 286 | 2.32 | 58 | 0.09 | 32 | 0.4 | 125 | 0.60 | 34.058 | 27.390 | 0.100 |
| 206 | 1.39 | 34.404 | 7.71 | 221 | 2.45 | 70 | 0.01 | 34 | 0.4 | 150 | 0.10 | 34.177 | 27.460 | 0.116 |
| 254 | 1.70 | 34.490 | 7.70 | 205 | 2.45 | 78 | 0.00 | 34 | -- | 200 | 1.31 | 34.389 | 27.560 | 0.145 |
| 305 | 1.71 | 34.561 | 7.69 | 194 | 2.44 | 81 | 0.00 | 34 | 0.3 | 250 | 1.70 | 34.484 | 27.600 | 0.172 |
| 407 | 1.77 | 34.617 | 7.70 | 196 | 2.38 | 85 | 0.00 | 34 | 0.3 | 300 | 1.70 | 34.558 | 27.660 | 0.196 |
| 504 | 1.83 | 34.672 | 7.70 | 194 | 2.34 | 86 | 0.00 | 31 | 0.3 | 400 | 1.77 | 34.613 | 27.700 | 0.239 |
| 605 | 1.80 | 34.690 | 7.71 | 196 | 2.29 | -- | 0.00 | -- | 0.2 | 500 | 1.83 | 34.672 | 27.740 | 0.279 |
| 704 | 1.78 | 34.713 | 7.70 | 197 | 2.25 | -- | 0.00 | -- | -- | 600 | 1.80 | 34.689 | 27.760 | 0.317 |
| 804 | 1.73 | 34.727 | 7.70 | 202 | 2.23 | 90 | 0.00 | 30 | -- | 700 | 1.78 | 34.712 | 27.780 | 0.353 |
| 905 | 1.70 | 34.734 | 7.72 | 205 | 2.22 | 93 | 0.00 | 31 | 0.3 | 800 | 1.73 | 34.726 | 27.790 | 0.388 |
| 1004 | 1.66 | 34.744 | 7.71 | 207 | 2.19 | 95 | 0.00 | 31 | -- | 1000 | 1.66 | 34.744 | 27.810 | 0.456 |
| 1259 | 1.45 | 34.742 | 7.71 | 213 | 2.18 | 100 | 0.00 | 31 | 0.4 | 1200 | 1.50 | 34.742 | 27.820 | 0.522 |
| 1508 | 1.19 | 34.729 | 7.69 | 215 | 2.23 | 110 | 0.00 | 31 | -- | 1500 | 1.18 | 34.728 | 27.840 | 0.618 |
| 2003 | 0.79 | 34.708 | 7.67 | 217 | 2.29 | 120 | 0.00 | 32 | 0.4 | 2000 | 0.78 | 34.707 | 27.850 | 0.770 |
| 2501 | 0.48 | 34.693 | 7.66 | 229 | 2.31 | 128 | 0.00 | 32 | 0.4 | 2500 | 0.47 | 34.692 | 27.850 | 0.913 |
| 3000 | 0.21 | 34.687 | 7.65 | 231 | 2.32 | 132 | 0.00 | 28 | -- | 3000 | 0.20 | 34.685 | 27.860 | 1.045 |
| 3271 | 0.13 | 34.681 | 7.64 | 233 | 2.34 | 133 | 0.00 | 32 | -- | | | | | |

Station B1

Meteorological observation

| | | | | | |
|-----------|---------------------|-----------------------|------------|----------------|---------|
| Date | : December 12, 1995 | Weather Time(UT) | : 04:00 | Wind Direction | : W |
| Time(UT) | : 07:00 | Weather | : c | Velocity | : 12m/s |
| Latitude | : 61-28.5S | Air Temperature (dry) | : 0.0°C | Humidity | : 93 % |
| Longitude | : 70-13.1E | Air Temperature (wet) | : -1.0°C | Wave | : W /4 |
| Depth | : 4223m | Atmospheric Pressure | : 993.3hPa | Swell | : NW /3 |
| | | | | Visibility | : 15km |

| O b s e r v e d | | | | | | | | | | I n t e r p o l a t e d | | | | |
|-----------------|------------|--------|------|-----------|-------|---------|-------|-------|-------|-------------------------|------------|--------|--------|-------|
| Depth (m) | T (° C) | S | pH | DO2 | P04-P | SI03-Si | N02-N | N03-N | NH4-N | Depth (m) | T (° C) | S | σ t | ΔD |
| | | | | (μ mol/l) | | | | | | | | | | |
| 0 | -1.00 | 33.793 | 7.86 | 365 | 1.82 | 44 | 0.23 | 23 | -- | 0 | -1.00 | 33.793 | 27.200 | 0.000 |
| 9 | -1.13 | 33.794 | 7.86 | 360 | 1.88 | 43 | 0.22 | 21 | -- | 10 | -1.13 | 33.792 | 27.200 | 0.009 |
| 21 | -1.14 | 33.785 | 7.86 | 367 | 1.88 | 44 | 0.22 | -- | -- | 20 | -1.13 | 33.786 | 27.190 | 0.018 |
| 30 | -1.15 | 33.793 | 7.85 | 360 | 1.91 | 44 | 0.21 | 20 | -- | 30 | -1.15 | 33.793 | 27.200 | 0.026 |
| 51 | -1.21 | 33.812 | 7.84 | 361 | 1.93 | 43 | 0.21 | 20 | -- | 50 | -1.21 | 33.811 | 27.220 | 0.044 |
| 75 | -1.38 | 33.998 | 7.81 | 333 | 2.07 | 52 | 0.17 | -- | -- | 75 | -1.36 | 34.004 | 27.380 | 0.063 |
| 101 | -0.72 | 34.148 | 7.76 | 287 | 2.32 | 60 | 0.14 | 25 | -- | 100 | 0.72 | 34.147 | 27.470 | 0.080 |
| 129 | 0.57 | 34.336 | 7.70 | 231 | 2.41 | 72 | 0.07 | 30 | -- | 125 | 0.45 | 34.316 | 27.550 | 0.094 |
| 150 | 1.17 | 34.436 | 7.68 | 209 | 2.47 | 77 | 0.03 | 34 | -- | 150 | 1.19 | 34.438 | 27.600 | 0.107 |
| 202 | 1.79 | 34.526 | 7.66 | 184 | 2.48 | 83 | 0.01 | -- | -- | 200 | 1.79 | 34.525 | 27.630 | 0.132 |
| 255 | 1.91 | 34.572 | 7.67 | 183 | 2.45 | 86 | 0.01 | -- | -- | 250 | 1.90 | 34.569 | 27.660 | 0.155 |
| 301 | 1.96 | 34.603 | 7.66 | 179 | 2.43 | 87 | 0.01 | 30 | -- | 300 | 1.96 | 34.603 | 27.680 | 0.177 |
| 402 | 2.00 | 34.659 | 7.66 | 182 | 2.37 | 88 | 0.00 | 31 | -- | 400 | 2.00 | 34.659 | 27.720 | 0.219 |
| 502 | 1.99 | 34.692 | 7.66 | 185 | 2.29 | 90 | 0.00 | -- | -- | 500 | 1.99 | 34.692 | 27.750 | 0.259 |
| 603 | 1.96 | 34.712 | 7.67 | 191 | 2.23 | 90 | 0.00 | 30 | -- | 600 | 1.96 | 34.712 | 27.770 | 0.296 |
| 700 | 1.91 | 34.727 | 7.67 | 190 | 2.22 | 91 | 0.00 | 30 | -- | 700 | 1.91 | 34.728 | 27.780 | 0.333 |
| 802 | 1.84 | 34.737 | 7.67 | -- | 2.19 | 93 | 0.00 | 31 | -- | 800 | 1.84 | 34.737 | 27.800 | 0.368 |
| 902 | 1.77 | 34.745 | 7.66 | 198 | 2.15 | 94 | 0.00 | 31 | -- | 1000 | 1.69 | 34.739 | 27.810 | 0.436 |
| 999 | 1.69 | 34.740 | 7.66 | -- | 2.15 | 96 | 0.00 | -- | -- | 1200 | 1.50 | 34.743 | 27.830 | 0.503 |
| 1250 | 1.47 | 34.745 | 7.65 | 207 | 2.15 | 102 | 0.00 | -- | -- | | | | | |
| 1291 | 1.43 | 34.745 | 7.64 | 208 | 2.16 | 104 | 0.00 | -- | -- | | | | | |

Station 4

Meteorological observation

| | | | | | |
|-----------|---------------------|-----------------------|------------|----------------|---------|
| Date | : February 28, 1996 | Weather Time(UT) | : 09:00 | Wind Direction | : E |
| Time(UT) | : 08:00 | Weather | : s | Velocity | : 8m/s |
| Latitude | : 62-54.3S | Air Temperature (dry) | : 1.5°C | Humidity | : 91 % |
| Longitude | : 62-19.5E | Air Temperature (wet) | : 0.1°C | Wave | : E /3 |
| Depth | : 4450m | Atmospheric Pressure | : 967.5hPa | Swell | : ESE/3 |
| | | | | Visibility | : 20km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|----------|-------|---------|-------|-------|-------|--------------|-----------|-------|------------|------------|
| Depth (m) | T (°C) | S | pH | DO2 | P04-P | SI03-Si | NO2-N | NO3-N | NH4-N | Depth (m) | T (°C) | S | σ_t | ΔD |
| | | | | (μmol/l) | | | | | | | | | | |
| 0 | 0.50 | 33.746 | 7.85 | 348 | 1.77 | 31 | 0.28 | 26 | -- | 0 | 0.5 | 33.75 | 27.090 | 0.000 |
| 31 | 0.43 | 33.734 | 7.86 | 358 | 1.77 | 31 | 0.32 | 26 | -- | 10 | 0.477 | 33.74 | 27.090 | 0.010 |
| 52 | 0.40 | 33.798 | 7.85 | 346 | 1.85 | 34 | 0.25 | 27 | -- | 20 | 0.455 | 33.74 | 27.090 | 0.020 |
| 76 | -0.03 | 34.148 | 7.78 | 305 | 2.31 | 60 | 0.24 | 32 | -- | 30 | 0.434 | 33.73 | 27.080 | 0.030 |
| 103 | -0.63 | 34.324 | 7.75 | 244 | 2.44 | 70 | 0.10 | 34 | 0.3 | 50 | 0.404 | 33.79 | 27.130 | 0.049 |
| 125 | 0.44 | 34.456 | 7.72 | 219 | 2.47 | 78 | 0.00 | 35 | 0.4 | 75 | 0.027 | 34.15 | 27.440 | 0.069 |
| 152 | 1.16 | 34.547 | 7.70 | 204 | 2.51 | 83 | 0.03 | 36 | 0.4 | 100 | 0.584 | 34.31 | 27.590 | 0.083 |
| 204 | 1.67 | ---- | 7.68 | 197 | 2.48 | 83 | 0.01 | 35 | 0.4 | 125 | 0.439 | 34.46 | 27.660 | 0.095 |
| 254 | 1.82 | 34.624 | 7.68 | 195 | 2.44 | 85 | 0.00 | -- | 0.3 | 150 | 1.146 | 34.55 | 27.690 | 0.106 |
| 405 | 1.95 | 34.701 | 7.71 | 200 | 2.31 | -- | 0.00 | 33 | -- | 200 | 1.658 | 34.55 | 27.660 | 0.127 |
| 506 | 1.91 | 34.722 | 7.72 | 206 | 2.26 | -- | 0.00 | 33 | 0.3 | 250 | 1.812 | 34.62 | 27.710 | 0.149 |
| 705 | 1.81 | 34.737 | 7.72 | 214 | 2.20 | 90 | 0.00 | 31 | 0.3 | 300 | 1.857 | 34.65 | 27.730 | 0.169 |
| 804 | 1.70 | 34.743 | 7.73 | 214 | 2.19 | 93 | 0.00 | 32 | 0.3 | 400 | 1.945 | 34.70 | 27.760 | 0.207 |
| 905 | 1.63 | 34.742 | 7.72 | 219 | 2.18 | 94 | 0.01 | 32 | -- | 500 | 1.911 | 34.72 | 27.780 | 0.243 |
| 1254 | 1.37 | 34.727 | 7.72 | 227 | 2.20 | 107 | 0.01 | 32 | 0.3 | 600 | 1.863 | 34.73 | 27.790 | 0.278 |
| 1503 | 1.14 | 34.704 | 7.71 | 226 | 2.28 | -- | 0.00 | 33 | -- | 700 | 1.805 | 34.74 | 27.800 | 0.312 |
| 2501 | 0.45 | 34.689 | 7.68 | 229 | 2.32 | 126 | 0.00 | 33 | -- | 800 | 1.703 | 34.74 | 27.810 | 0.346 |
| 3001 | 0.22 | 34.681 | 7.68 | 232 | 2.32 | 127 | 0.00 | 32 | 0.3 | 1000 | 1.559 | 34.74 | 27.820 | 0.411 |
| 3497 | 0.04 | 34.670 | 7.66 | 242 | 2.32 | 132 | 0.00 | 33 | -- | 1200 | 1.404 | 34.73 | 27.820 | 0.477 |
| 3832 | -0.06 | 34.671 | 7.66 | 248 | 2.32 | 134 | 0.00 | 32 | 0.4 | 1500 | 1.127 | 34.70 | 27.820 | 0.575 |

Station 5

Meteorological observation

| | | | | | |
|-----------|-----------------|-----------------------|------------|----------------|---------|
| Date | : March 1, 1996 | Weather Time(UT) | : 07:00 | Wind Direction | : NW |
| Time(UT) | : 07:00 | Weather | : c | Velocity | : 13m/s |
| Latitude | : 63-03.2S | Air Temperature (dry) | : 0.3°C | Humidity | : 80 % |
| Longitude | : 80-38.5E | Air Temperature (wet) | : -2.8°C | Wave | : NW /4 |
| Depth | : 3420m | Atmospheric Pressure | : 965.1hPa | Swell | : NW /3 |
| | | | | Visibility | : 25km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si (μmol/l) | NO2-N | NO3-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 0.40 | 33.816 | 7.80 | 342 | 1.88 | 46 | 0.27 | 27 | 0.5 | 0 | 0.40 | 33.815 | 27.150 | 0.000 |
| 11 | 0.22 | 33.802 | 7.81 | 346 | 1.88 | 47 | 0.25 | 28 | 0.4 | 10 | 0.23 | 33.802 | 27.150 | 0.009 |
| 22 | 0.22 | 33.805 | 7.83 | 346 | 1.88 | 46 | 0.26 | 27 | 0.5 | 20 | 0.22 | 33.804 | 27.150 | 0.018 |
| 35 | 0.22 | 33.801 | 7.82 | 349 | 1.88 | 46 | 0.25 | 28 | 0.5 | 30 | 0.22 | 33.802 | 27.150 | 0.028 |
| 53 | 0.22 | 33.996 | 7.79 | 311 | 2.09 | 57 | 0.23 | 29 | 0.5 | 50 | 0.22 | 33.958 | 27.280 | 0.045 |
| 80 | -0.10 | 34.324 | 7.74 | 248 | 2.37 | 74 | 0.17 | 33 | 0.3 | 75 | 0.08 | 34.268 | 27.540 | 0.062 |
| 103 | 0.22 | 34.450 | 7.72 | 218 | 2.44 | 81 | 0.12 | 34 | 0.3 | 100 | 0.18 | 34.445 | 27.670 | 0.074 |
| 133 | 0.87 | 34.507 | 7.71 | 206 | 2.45 | 84 | 0.05 | 34 | 0.4 | 125 | 0.70 | 34.490 | 27.680 | 0.085 |
| 155 | 1.25 | 34.578 | 7.70 | 194 | 2.44 | 87 | 0.02 | 34 | 0.3 | 150 | 1.20 | 34.566 | 27.700 | 0.095 |
| 205 | 1.63 | --- | --- | --- | --- | --- | --- | --- | --- | 200 | 1.61 | 34.508 | 27.630 | 0.117 |
| 255 | 1.93 | 34.643 | 7.70 | 193 | 2.37 | 89 | 0.01 | 33 | 0.3 | 250 | 1.91 | 34.636 | 27.710 | 0.140 |
| 304 | 1.80 | 34.684 | 7.72 | 194 | 2.31 | 90 | 0.01 | 32 | 0.3 | 300 | 1.80 | 34.682 | 27.750 | 0.159 |
| 404 | 1.79 | 34.715 | 7.72 | 199 | 2.25 | 90 | 0.01 | 32 | 0.3 | 400 | 1.79 | 34.715 | 27.780 | 0.194 |
| 504 | 1.84 | 34.727 | 7.73 | 203 | 2.20 | 93 | 0.00 | 31 | 0.3 | 500 | 1.84 | 34.727 | 27.790 | 0.229 |
| 603 | 1.75 | 34.730 | 7.73 | 207 | 2.20 | 94 | 0.01 | 31 | 0.3 | 600 | 1.75 | 34.729 | 27.800 | 0.263 |
| 704 | 1.64 | 34.745 | 7.73 | 208 | 2.16 | 95 | 0.01 | 31 | 0.4 | 700 | 1.64 | 34.745 | 27.820 | 0.295 |
| 806 | 1.63 | 34.744 | 7.73 | 211 | 2.15 | 97 | 0.01 | 31 | --- | 800 | 1.63 | 34.744 | 27.820 | 0.328 |
| 907 | 1.58 | 34.740 | 7.71 | 212 | 2.18 | 99 | 0.01 | 31 | 0.3 | 1000 | 1.46 | 34.733 | 27.820 | 0.392 |
| 1005 | 1.46 | 34.733 | 7.72 | 216 | 2.18 | 106 | 0.00 | 31 | 0.4 | 1200 | 1.27 | 34.726 | 27.830 | 0.456 |
| 1254 | 1.23 | 34.725 | 7.69 | 222 | 2.28 | 123 | 0.00 | 32 | --- | | | | | |

Station 6

Meteorological observation

| | | | | | |
|-----------|-----------------|-----------------------|------------|----------------|---------|
| Date | : March 2, 1996 | Weather Time(UT) | : 07:00 | Wind Direction | : WNW |
| Time(UT) | : 06:00 | Weather | : c | Velocity | : 6m/s |
| Latitude | : 63-26.9S | Air Temperature (dry) | : 1.5°C | Humidity | : 91 % |
| Longitude | : 92-06.0E | Air Temperature (wet) | : 0.1°C | Wave | : WNW/2 |
| Depth | : 3460m | Atmospheric Pressure | : 973.6hPa | Swell | : N /1 |
| | | | | Visibility | : 25km |

| O b s e r v e d | | | | | | | | | | I n t e r p o l a t e d | | | | |
|-----------------|-----------|--------|------|----------|-------|---------|-------|-------|-------|-------------------------|-----------|--------|------------|------------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ_t | ΔD |
| | | | | (μmol/l) | | | | | | | | | | |
| 0 | 0.60 | 33.821 | 7.86 | 352 | 1.40 | 33 | 0.18 | 23 | 0.2 | 0 | 0.60 | 33.821 | 27.140 | 0.000 |
| 20 | 0.38 | 33.820 | 7.88 | 353 | 1.40 | 37 | 0.17 | 23 | 0.2 | 10 | 0.47 | 33.821 | 27.150 | 0.009 |
| 30 | 0.38 | 33.826 | 7.87 | 356 | 1.43 | 38 | 0.18 | 23 | 0.1 | 20 | 0.38 | 33.820 | 27.160 | 0.018 |
| 55 | -0.52 | 33.991 | 7.85 | 337 | 1.78 | 51 | 0.16 | 26 | 0.1 | 30 | 0.38 | 33.825 | 27.160 | 0.028 |
| 78 | -0.74 | 34.407 | 7.75 | 279 | 2.28 | 75 | 0.18 | 31 | 0.3 | 50 | 0.36 | 33.942 | 27.290 | 0.045 |
| 105 | -0.02 | 34.493 | 7.74 | 256 | 2.29 | 79 | 0.10 | 32 | 0.2 | 75 | 0.71 | 34.383 | 27.660 | 0.060 |
| 128 | 0.49 | 34.572 | 7.73 | 235 | 2.31 | 84 | 0.05 | 32 | 0.1 | 100 | 0.12 | 34.480 | 27.710 | 0.070 |
| 152 | 0.80 | 34.609 | 7.72 | 221 | 2.31 | 85 | 0.03 | 32 | 0.2 | 125 | 0.46 | 34.564 | 27.750 | 0.080 |
| 204 | 0.94 | --- | --- | --- | --- | --- | --- | --- | --- | 150 | 0.79 | 34.608 | 27.770 | 0.088 |
| 253 | 1.24 | 34.679 | 7.72 | 210 | 2.28 | 89 | 0.02 | 32 | 0.3 | 200 | 0.93 | 34.628 | 27.770 | 0.106 |
| 301 | 1.28 | 34.695 | 7.73 | 211 | 2.23 | 90 | 0.01 | 31 | 0.3 | 250 | 1.24 | 34.678 | 27.790 | 0.122 |
| 403 | 1.30 | 34.719 | 7.73 | 212 | 2.22 | 94 | 0.01 | 31 | 0.4 | 300 | 1.28 | 34.695 | 27.800 | 0.138 |
| 506 | 1.20 | 34.720 | 7.73 | 214 | 2.22 | 98 | 0.01 | 31 | 0.3 | 400 | 1.30 | 34.718 | 27.820 | 0.169 |
| 604 | 1.17 | 34.726 | 7.73 | 212 | 2.22 | 102 | 0.00 | 31 | 0.3 | 500 | 1.20 | 34.720 | 27.830 | 0.199 |
| 704 | 1.06 | 34.721 | 7.73 | 214 | 2.23 | 104 | 0.01 | 31 | 0.3 | 600 | 1.17 | 34.726 | 27.840 | 0.228 |
| 803 | 0.98 | 34.722 | 7.73 | 215 | 2.25 | 108 | 0.01 | 31 | 0.3 | 700 | 1.06 | 34.721 | 27.840 | 0.257 |
| 901 | 0.91 | 34.719 | 7.73 | 216 | 2.26 | 111 | 0.01 | 31 | 0.3 | 800 | 0.98 | 34.722 | 27.840 | 0.286 |
| 1004 | 0.81 | 34.715 | 7.73 | 220 | 2.28 | 115 | 0.00 | 31 | 0.3 | 1000 | 0.81 | 34.715 | 27.850 | 0.342 |
| 1252 | 0.61 | 34.703 | 7.72 | 219 | 2.31 | 120 | 0.00 | 32 | --- | 1200 | 0.64 | 34.704 | 27.850 | 0.397 |
| 1499 | 0.44 | 34.696 | 7.71 | 222 | 2.32 | 123 | 0.02 | 32 | 0.4 | 1500 | 0.44 | 34.696 | 27.860 | 0.478 |
| 2003 | 0.16 | 34.683 | 7.70 | 230 | 2.32 | 127 | 0.00 | 32 | 0.4 | 2000 | 0.15 | 34.683 | 27.860 | 0.606 |
| 2501 | -0.03 | 34.681 | 7.69 | 241 | 2.31 | --- | 0.01 | 32 | 0.3 | 2500 | 0.03 | 34.680 | 27.870 | 0.724 |
| 3002 | -0.12 | 34.677 | 7.68 | 242 | 2.31 | 125 | 0.00 | 32 | 0.4 | 3000 | 0.13 | 34.678 | 27.870 | 0.835 |
| 3043 | -0.13 | 34.680 | 7.68 | 243 | 2.31 | 125 | 0.03 | 31 | 0.4 | | | | | |

Station 7

Meteorological observation

Date : March 3, 1996
 Time (UT) : 06:00
 Latitude : 63-27.3S
 Longitude : 103-21.9E
 Depth : 3533m

Weather Time (UT) : 06:00
 Weather : s
 Air Temperature (dry) : 0.6°C
 Air Temperature (wet) : -1.0°C
 Atmospheric Pressure : 972.4hPa

Wind Direction : W
 Velocity : 2m/s
 Humidity : 89 %
 Wave : W /2
 Swell : ESE/3
 Visibility : 25km

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si (μmol/l) | NO2-N | NO3-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 0.90 | 33.938 | 7.87 | 346 | 1.56 | 37 | 0.23 | 23 | -- | 0 | 0.90 | 33.938 | 27.220 | 0.000 |
| 20 | 0.44 | 33.925 | 7.89 | 350 | 1.52 | 37 | 0.21 | 23 | -- | 10 | 0.61 | 33.926 | 27.230 | 0.009 |
| 32 | 0.44 | 33.936 | 7.89 | 351 | 1.55 | 38 | 0.20 | 23 | -- | 20 | 0.44 | 33.925 | 27.240 | 0.017 |
| 52 | 0.08 | 33.965 | 7.89 | 354 | 1.55 | 41 | 0.20 | 23 | -- | 30 | 0.44 | 33.935 | 27.250 | 0.025 |
| 76 | -0.79 | 34.209 | 7.81 | 309 | 2.19 | 65 | 0.17 | 29 | -- | 50 | 0.12 | 33.961 | 27.280 | 0.042 |
| 105 | -0.26 | 34.405 | 7.76 | 270 | 2.28 | 75 | 0.18 | 31 | 0.3 | 75 | 0.75 | 34.200 | 27.520 | 0.059 |
| 126 | 0.18 | 34.498 | 7.76 | 248 | 2.29 | 79 | 0.02 | 23 | 0.3 | 100 | 0.36 | 34.374 | 27.640 | 0.072 |
| 151 | 0.54 | 34.547 | 7.74 | 232 | 2.29 | 81 | 0.01 | 23 | 0.4 | 125 | 0.18 | 34.498 | 27.710 | 0.082 |
| 204 | 1.08 | 34.625 | 7.73 | 216 | 2.28 | 87 | 0.01 | 23 | 0.3 | 150 | 0.53 | 34.544 | 27.730 | 0.092 |
| 253 | 1.24 | ----- | 7.74 | 212 | 2.26 | 88 | 0.01 | 23 | 0.4 | 200 | 1.05 | 34.620 | 27.760 | 0.110 |
| 301 | 1.21 | 34.674 | 7.74 | 213 | 2.23 | 90 | 0.01 | 23 | 0.3 | 250 | 1.24 | 34.679 | 82.780 | 1.103 |
| 403 | 1.47 | 34.726 | 7.75 | 208 | 2.19 | 95 | 0.00 | 23 | 0.3 | 300 | 1.22 | 34.674 | 27.790 | 2.317 |
| 504 | 1.21 | 34.725 | ---- | -- | -- | -- | -- | -- | -- | 400 | 1.47 | 34.725 | 27.810 | 2.285 |
| 601 | 1.09 | 34.710 | 7.75 | 215 | 2.20 | 101 | 0.00 | 23 | 0.4 | 500 | 1.21 | 34.724 | 27.830 | 2.255 |
| 700 | 0.80 | 34.691 | 7.76 | 222 | 2.22 | 103 | 0.00 | 23 | 0.4 | 600 | 1.09 | 34.709 | 27.830 | 2.225 |
| 801 | 0.87 | 34.708 | 7.76 | 217 | 2.23 | 108 | 0.00 | 23 | 0.3 | 700 | 0.80 | 34.691 | 27.830 | 2.196 |
| 901 | 0.70 | 34.693 | 7.76 | 224 | 2.25 | -- | 0.00 | 23 | 0.4 | 800 | 0.86 | 34.707 | 27.840 | 2.167 |
| 1000 | 0.75 | 34.708 | 7.76 | 221 | 2.25 | 116 | 0.00 | 23 | 0.4 | 1000 | 0.75 | 34.707 | 27.850 | 2.110 |
| 1252 | 0.56 | 34.697 | 7.75 | 224 | 2.28 | 121 | 0.00 | 23 | 0.5 | 1200 | 0.59 | 34.698 | 27.850 | 2.055 |
| 1501 | 0.38 | 34.687 | 7.75 | 226 | 2.26 | 123 | 0.00 | 23 | 0.3 | 1500 | 0.37 | 34.686 | 27.850 | 1.974 |
| 2003 | 0.11 | 34.683 | 7.74 | 233 | 2.28 | 129 | 0.00 | 23 | 0.4 | 2000 | 0.10 | 34.682 | 27.860 | 1.847 |
| 3476 | -0.26 | 34.658 | 7.70 | 251 | 2.25 | 121 | 0.00 | 23 | 0.4 | 2500 | 0.08 | 34.674 | 27.870 | 1.730 |

Station 8

Meteorological observation

| | | | | | |
|-----------|-----------------|-----------------------|------------|----------------|---------|
| Date | : March 4, 1996 | Weather Time(UT) | : 05:00 | Wind Direction | : WNW |
| Time(UT) | : 05:00 | Weather | : s | Velocity | : 8m/s |
| Latitude | : 63-35.4S | Air Temperature (dry) | : 1.3°C | Humidity | : 76 % |
| Longitude | : 114-09.7E | Air Temperature (wet) | : -2.5°C | Wave | : WNW/2 |
| Depth | : 3140m | Atmospheric Pressure | : 985.2hPa | Swell | : NW /1 |
| | | | | Visibility | : 25km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| (μmol/l) | | | | | | | | | | | | | | |
| 0 | 0.70 | 33.976 | 7.74 | 346 | 1.84 | 47 | 0.26 | 26 | 0.5 | 0 | 0.70 | 33.975 | 27.260 | 0.000 |
| 20 | 0.27 | 33.983 | 7.75 | 346 | 1.84 | 47 | 0.24 | 25 | 0.6 | 10 | 0.45 | 33.981 | 27.280 | 0.008 |
| 30 | 0.26 | 33.969 | 7.76 | 350 | 1.81 | 47 | 0.24 | 25 | 0.5 | 20 | 0.27 | 33.982 | 27.290 | 0.016 |
| 51 | -0.60 | 34.248 | 7.73 | 311 | 2.07 | 65 | 0.17 | 28 | 0.6 | 30 | 0.26 | 33.969 | 27.280 | 0.024 |
| 77 | -0.05 | 34.503 | 7.69 | 255 | 2.25 | 81 | 0.29 | 30 | 0.3 | 50 | 0.60 | 34.236 | 27.540 | 0.038 |
| 99 | 0.75 | 34.627 | 7.67 | 224 | 2.28 | 90 | 0.05 | 31 | 0.3 | 75 | 0.11 | 34.487 | 27.720 | 0.049 |
| 126 | 1.09 | 34.675 | 7.66 | 216 | 2.28 | 93 | 0.01 | 31 | 0.2 | 100 | 0.77 | 34.630 | 27.780 | 0.058 |
| 150 | 1.21 | 34.688 | 7.66 | 209 | 2.26 | 94 | 0.01 | 30 | 0.2 | 125 | 1.09 | 34.675 | 27.800 | 0.066 |
| 203 | 1.33 | 34.712 | 7.73 | 209 | 2.25 | 97 | 0.00 | 30 | 0.2 | 150 | 1.21 | 34.687 | 27.800 | 0.074 |
| 252 | 1.35 | 34.719 | 7.73 | 205 | 2.23 | 99 | 0.00 | 30 | 0.2 | 200 | 1.33 | 34.710 | 27.810 | 0.089 |
| 302 | 1.35 | 34.725 | 7.74 | 207 | 2.23 | 99 | 0.00 | 30 | 0.2 | 250 | 1.35 | 34.719 | 27.820 | 0.104 |
| 404 | 1.27 | 34.727 | 7.74 | 208 | 2.22 | 103 | 0.00 | 30 | 0.2 | 300 | 1.35 | 34.725 | 27.820 | 0.119 |
| 504 | 1.19 | 34.727 | 7.74 | 210 | 2.23 | 106 | 0.01 | 30 | 0.2 | 400 | 1.27 | 34.727 | 27.830 | 0.149 |
| 604 | 1.10 | 34.722 | 7.74 | 211 | 2.23 | 108 | 0.01 | 30 | 0.2 | 500 | 1.19 | 34.727 | 27.830 | 0.178 |
| 703 | 1.02 | 34.718 | 7.74 | 216 | 2.23 | 111 | 0.00 | 30 | 0.2 | 600 | 1.10 | 34.722 | 27.840 | 0.207 |
| 804 | 0.94 | 34.712 | 7.74 | 214 | 2.25 | 113 | 0.00 | 30 | 0.2 | 700 | 1.01 | 34.718 | 27.840 | 0.236 |
| 904 | 0.85 | 34.715 | 7.74 | 216 | 2.26 | 116 | 0.01 | 30 | 0.2 | 800 | 0.94 | 34.712 | 27.840 | 0.265 |
| 1003 | 0.77 | 34.706 | 7.74 | --- | 2.26 | 117 | 0.00 | 31 | 0.3 | 1000 | 0.76 | 34.705 | 27.850 | 0.321 |
| 1253 | 0.54 | 34.696 | 7.74 | 219 | 2.28 | 122 | 0.00 | 31 | 0.2 | 1200 | 0.58 | 34.697 | 27.850 | 0.377 |
| 1502 | 0.36 | 34.685 | 7.73 | 226 | 2.29 | 125 | 0.00 | 31 | 0.3 | 1500 | 0.35 | 34.684 | 27.850 | 0.458 |
| 2004 | 0.08 | 34.678 | 7.72 | 233 | 2.29 | 127 | 0.00 | 31 | 0.2 | 2000 | 0.07 | 34.677 | 27.860 | 0.585 |
| 2499 | -0.12 | 34.671 | 7.72 | --- | 2.26 | 122 | 0.01 | 31 | 0.3 | 2500 | 0.13 | 34.671 | 27.870 | 0.702 |
| 3002 | -0.21 | 34.672 | 7.71 | 246 | 2.26 | 120 | 0.00 | 30 | 0.3 | 3000 | 0.22 | 34.671 | 27.870 | 0.810 |
| 3104 | -0.25 | 34.668 | 7.71 | 248 | 2.28 | 122 | 0.02 | 30 | 0.3 | | | | | |

Station 9

Meteorological observation

Date : March 5, 1996
 Time (UT) : 04:00
 Latitude : 63-27.5S
 Longitude : 123-41.6E
 Depth : 3875m

Weather Time (UT) : 04:00
 Weather : bc
 Air Temperature (dry) : 3.1°C
 Air Temperature (wet) : -1.0°C
 Atmospheric Pressure : 991.0hPa

Wind Direction : NW
 Velocity : 8m/s
 Humidity : 74 %
 Wave : NW /3
 Swell : NW /1
 Visibility : 30km

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------|-------|-------|-------|--------------|-----------|--------|------------|------------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ_t | ΔD |
| (μmol/l) | | | | | | | | | | | | | | |
| 0 | 1.90 | 33.911 | 7.87 | 352 | 1.59 | 28 | 0.37 | 24 | 0.4 | 0 | 1.90 | 33.911 | 27.130 | 0.000 |
| 31 | 1.74 | 33.866 | 7.85 | 354 | 1.59 | 31 | 0.31 | 23 | 0.4 | 10 | 1.85 | 33.896 | 27.120 | 0.009 |
| 53 | -0.24 | 34.177 | 7.81 | 337 | 2.03 | 50 | 0.18 | 27 | -- | 20 | 1.80 | 33.882 | 27.110 | 0.019 |
| 77 | -0.02 | 34.343 | 7.75 | 278 | 2.29 | 66 | 0.20 | 30 | -- | 30 | 1.75 | 33.867 | 27.110 | 0.029 |
| 102 | 0.79 | 34.532 | 7.71 | 220 | 2.39 | 79 | 0.20 | 32 | 0.1 | 50 | 0.18 | 34.159 | 27.460 | 0.045 |
| 129 | 1.28 | 34.621 | 7.69 | 205 | 2.35 | 85 | 0.01 | 32 | 0.2 | 75 | 0.08 | 34.329 | 27.590 | 0.059 |
| 153 | 1.38 | 34.646 | 7.70 | 203 | 2.34 | 87 | 0.00 | 31 | 0.2 | 100 | 0.76 | 34.525 | 27.700 | 0.070 |
| 204 | 1.44 | 34.669 | 7.70 | 201 | 2.31 | 88 | 0.02 | 31 | 0.2 | 125 | 1.26 | 34.616 | 27.740 | 0.080 |
| 253 | 1.48 | 34.687 | 7.70 | 204 | 2.28 | 89 | 0.01 | 31 | 0.3 | 150 | 1.38 | 34.644 | 27.750 | 0.089 |
| 304 | 1.52 | 34.702 | 7.70 | 203 | 2.26 | 90 | 0.00 | 30 | 0.2 | 200 | 1.44 | 34.667 | 27.770 | 0.107 |
| 404 | 1.58 | 34.725 | 7.71 | 203 | 2.22 | 92 | 0.01 | 30 | 0.2 | 250 | 1.48 | 34.685 | 27.780 | 0.124 |
| 503 | 1.54 | 34.733 | 7.71 | 205 | 2.20 | 94 | 0.00 | 30 | -- | 300 | 1.51 | 34.700 | 27.790 | 0.140 |
| 603 | 1.43 | 34.732 | 7.71 | 210 | 2.20 | 97 | 0.01 | 30 | 0.4 | 400 | 1.58 | 34.724 | 27.800 | 0.173 |
| 702 | 1.36 | 34.733 | 7.71 | 209 | 2.20 | 99 | 0.00 | 30 | 0.3 | 500 | 1.54 | 34.732 | 27.810 | 0.204 |
| 803 | 1.28 | 34.729 | 7.72 | 210 | 2.22 | 103 | 0.02 | 30 | 0.3 | 600 | 1.43 | 34.731 | 27.820 | 0.235 |
| 903 | 1.19 | 34.729 | 7.71 | 211 | 2.22 | 106 | 0.00 | 30 | 0.4 | 700 | 1.36 | 34.732 | 27.830 | 0.266 |
| 1004 | 1.11 | 34.725 | 7.71 | 213 | 2.23 | 107 | 0.01 | 30 | 0.3 | 800 | 1.28 | 34.728 | 27.830 | 0.297 |
| 1252 | 0.91 | 34.717 | 7.72 | 218 | 2.26 | 113 | 0.00 | 30 | 0.2 | 1000 | 1.11 | 34.724 | 27.840 | 0.357 |
| 1502 | 0.75 | 34.708 | 7.71 | 217 | 2.28 | 118 | 0.01 | 31 | 0.3 | 1200 | 0.95 | 34.718 | 27.840 | 0.416 |
| 2003 | 0.39 | 34.692 | 7.69 | 226 | 2.31 | 126 | 0.00 | 31 | -- | 1500 | 0.74 | 34.708 | 27.850 | 0.502 |
| 2502 | 0.15 | 34.684 | 7.68 | 230 | 2.32 | 130 | 0.00 | 31 | 0.4 | 2000 | 0.38 | 34.692 | 27.860 | 0.639 |
| 3002 | -0.02 | 34.676 | 7.67 | 242 | 2.31 | 129 | 0.00 | 31 | 0.3 | 2500 | 0.14 | 34.684 | 27.860 | 0.766 |
| 3501 | -0.16 | 34.673 | 7.65 | 247 | 2.29 | 122 | 0.01 | 31 | 0.3 | 3000 | 0.03 | 34.675 | 27.870 | 0.885 |
| 3874 | -0.28 | 34.676 | 7.65 | 252 | 2.28 | 117 | 0.01 | 30 | 0.3 | 3500 | 0.17 | 34.672 | 27.870 | 0.994 |

Station 10

Meteorological observation

| | | | | | |
|-----------|-----------------|-----------------------|------------|----------------|---------|
| Date | : March 6, 1996 | Weather Time(UT) | : 04:00 | Wind Direction | : N |
| Time(UT) | : 04:00 | Weather | : c | Velocity | : 10m/s |
| Latitude | : 63-44.1S | Air Temperature (dry) | : 2.1°C | Humidity | : 75 % |
| Longitude | : 131-25.2E | Air Temperature (wet) | : -1.9°C | Wave | : N /3 |
| Depth | : 3660m | Atmospheric Pressure | : 985.3hPa | Swell | : NW /3 |
| | | | | Visibility | : 30km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| (μmol/l) | | | | | | | | | | | | | | |
| 0 | 1.70 | 33.922 | 7.89 | 348 | 1.62 | 29 | 0.33 | 23 | 0.5 | 0 | 1.70 | 33.921 | 27.150 | 0.000 |
| 10 | 1.26 | ----- | 7.90 | 349 | 1.65 | 29 | 0.31 | 23 | 0.4 | 10 | 1.31 | 90.782 | 74.710 | 0.206 |
| 20 | 1.24 | ----- | 7.90 | 350 | 1.64 | 31 | 0.31 | 23 | 0.5 | 20 | 1.25 | 99.999 | 83.070 | 0.664 |
| 33 | 1.33 | 33.923 | 7.91 | 351 | 1.69 | 32 | 0.29 | 23 | -- | 30 | 1.24 | 99.999 | 83.070 | 1.157 |
| 52 | -0.29 | 34.125 | 7.86 | 324 | 2.16 | 52 | 0.22 | 27 | -- | 50 | 0.96 | 33.965 | 27.240 | 1.641 |
| 76 | 0.97 | 34.459 | 7.75 | 218 | 2.47 | 74 | 0.12 | 32 | 0.3 | 75 | 0.28 | 34.302 | 27.550 | 1.624 |
| 103 | 1.67 | 34.580 | 7.73 | 190 | 2.45 | 81 | 0.01 | 32 | 0.3 | 100 | 1.39 | 34.538 | 27.670 | 1.612 |
| 127 | 1.76 | 34.620 | 7.73 | 189 | 2.41 | 84 | 0.01 | 31 | 0.2 | 125 | 1.73 | 34.601 | 27.690 | 1.601 |
| 154 | 1.76 | 34.643 | 7.73 | 191 | 2.37 | 84 | 0.01 | 31 | 0.2 | 150 | 1.76 | 34.631 | 27.720 | 1.591 |
| 204 | 1.63 | 34.668 | 7.74 | 195 | 2.31 | 87 | 0.00 | 30 | 0.3 | 200 | 1.66 | 34.660 | 27.750 | 1.572 |
| 255 | 1.75 | 34.692 | 7.74 | 195 | 2.29 | 88 | 0.00 | 30 | 0.2 | 250 | 1.73 | 34.685 | 27.760 | 1.554 |
| 305 | 1.61 | ---- | ---- | -- | -- | -- | -- | -- | -- | 300 | 1.64 | 34.693 | 27.770 | 1.537 |
| 405 | 1.71 | 34.724 | 7.75 | 200 | 2.22 | 90 | 0.01 | 29 | 0.3 | 400 | 1.69 | 34.720 | 27.790 | 1.503 |
| 503 | 1.64 | 34.732 | 7.76 | 203 | 2.20 | 95 | 0.01 | 28 | -- | 600 | 1.57 | 34.735 | 27.810 | 1.438 |
| 605 | 1.56 | 34.736 | 7.77 | 204 | 2.19 | 95 | 0.00 | 29 | 0.2 | 700 | 1.44 | 34.735 | 27.820 | 1.407 |
| 703 | 1.43 | 34.736 | 7.75 | 208 | 2.20 | 98 | 0.00 | 29 | 0.3 | 800 | 1.36 | 34.733 | 27.830 | 1.376 |
| 803 | 1.36 | 34.734 | 7.77 | 211 | 2.19 | 101 | 0.00 | 28 | 0.3 | 1000 | 1.17 | 34.726 | 27.830 | 1.315 |
| 904 | 1.26 | 34.733 | 7.76 | 214 | 2.20 | 103 | 0.01 | 29 | 0.2 | 1200 | 1.00 | 34.722 | 27.840 | 1.255 |
| 1004 | 1.17 | 34.727 | 7.76 | 213 | 2.20 | 106 | 0.00 | 29 | -- | 1500 | 0.75 | 34.708 | 27.850 | 1.169 |
| 1255 | 0.95 | 34.720 | 7.76 | 215 | 2.23 | 113 | 0.01 | 29 | 0.3 | 2000 | 0.38 | 34.690 | 27.860 | 1.031 |
| 1503 | 0.75 | 34.708 | 7.76 | 216 | 2.26 | 118 | 0.00 | 29 | 0.3 | 2500 | 0.12 | 34.681 | 27.860 | 0.904 |
| 2001 | 0.38 | 34.691 | 7.74 | 227 | 2.29 | 126 | 0.00 | 30 | 0.3 | | | | | |
| 2500 | 0.13 | 34.682 | 7.74 | 234 | 2.31 | 130 | 0.00 | 29 | -- | | | | | |
| 2801 | 0.02 | 34.678 | 7.73 | 238 | 2.29 | 129 | 0.01 | 29 | 0.2 | | | | | |

Station 11

Meteorological observation

Date : March 7, 1996
 Time(UT) : 03:00
 Latitude : 64-54.8S
 Longitude : 138-53.7E
 Depth : 2570m

Weather Time(UT) : 04:00
 Weather : c
 Air Temperature (dry) : 0.0°C
 Air Temperature (wet) : -4.0°C
 Atmospheric Pressure : 991.4hPa

Wind Direction : N
 Velocity : 3m/s
 Humidity : 74 %
 Wave : N /2
 Swell : WNW/1
 Visibility : 30km

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|----------|-------|---------|-------|-------|-------|--------------|-----------|--------|------------|------------|
| Depth (m) | T (°C) | S | pH | DO2 | P04-P | SI03-Si | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ_t | ΔD |
| | | | | (μmol/l) | | | | | | | | | | |
| 0 | 0.30 | 33.969 | 7.89 | 351 | 1.62 | 37 | 0.25 | 23 | 0.3 | 0 | 0.30 | 33.969 | 27.280 | 0.000 |
| 10 | -0.20 | 33.959 | 7.89 | 352 | 1.61 | 36 | 0.22 | 23 | -- | 10 | 0.20 | 33.958 | 27.300 | 0.008 |
| 20 | -0.22 | 33.960 | 7.90 | 351 | 1.62 | 36 | 0.22 | 23 | -- | 20 | 0.22 | 33.960 | 27.300 | 0.016 |
| 33 | -0.22 | 34.008 | 7.91 | 356 | 1.61 | 37 | 0.22 | 24 | 0.3 | 30 | 0.22 | 33.997 | 27.330 | 0.023 |
| 51 | -0.53 | 34.057 | 7.91 | 356 | 1.65 | 39 | 0.20 | 24 | 0.3 | 50 | 0.50 | 34.053 | 27.390 | 0.038 |
| 76 | -1.69 | 34.339 | 7.84 | 327 | 2.13 | 66 | 0.17 | 28 | 0.2 | 75 | 1.67 | 34.337 | 27.660 | 0.052 |
| 101 | -1.79 | 34.346 | 7.84 | 328 | 2.13 | 66 | 0.06 | 28 | 0.2 | 100 | 1.79 | 34.346 | 27.670 | 0.063 |
| 128 | -1.76 | 34.355 | 7.83 | 321 | 2.13 | 69 | 0.03 | 28 | 0.2 | 125 | 1.76 | 34.354 | 27.670 | 0.074 |
| 152 | -1.69 | 34.385 | 7.84 | 316 | 2.15 | 73 | 0.01 | 28 | 0.2 | 150 | 1.69 | 34.383 | 27.700 | 0.084 |
| 201 | -1.48 | 34.429 | 7.84 | 303 | 2.19 | 76 | 0.01 | 28 | 0.2 | 250 | 1.21 | 34.467 | 27.750 | 0.121 |
| 252 | -1.20 | 34.469 | 7.83 | 290 | 2.19 | 79 | 0.02 | 28 | 0.3 | 300 | 0.41 | 34.554 | 27.790 | 0.138 |
| 303 | -0.40 | 34.555 | 7.81 | 262 | 2.22 | 85 | 0.00 | 29 | 0.3 | 400 | 0.61 | 34.665 | 27.820 | 0.168 |
| 402 | 0.61 | 34.664 | 7.80 | 226 | 2.20 | 98 | 0.01 | 29 | 0.2 | 500 | 0.87 | 34.702 | 27.840 | 0.197 |
| 503 | 0.87 | 34.702 | 7.80 | 217 | 2.22 | 103 | 0.01 | 29 | 0.2 | 600 | 0.88 | 34.709 | 27.840 | 0.225 |
| 602 | 0.88 | 34.709 | 7.80 | 214 | 2.22 | 108 | 0.01 | 29 | 0.2 | 700 | 0.74 | 34.702 | 27.840 | 0.253 |
| 701 | 0.74 | 34.702 | 7.78 | 217 | 2.23 | 112 | 0.01 | 29 | 0.2 | 800 | 0.64 | 34.703 | 27.850 | 0.280 |
| 802 | 0.64 | 34.704 | 7.79 | 218 | 2.25 | 115 | 0.02 | 29 | 0.2 | 1000 | 0.49 | 34.697 | 27.850 | 0.334 |
| 903 | 0.61 | 34.700 | 7.79 | 219 | 2.26 | 117 | 0.01 | 29 | 0.3 | 1200 | 0.34 | 34.691 | 27.860 | 0.386 |
| 1001 | 0.50 | 34.698 | 7.80 | 222 | 2.26 | 120 | 0.01 | 29 | 0.3 | 1500 | 0.09 | 34.682 | 27.870 | 0.461 |
| 1250 | 0.30 | 34.691 | 7.79 | 223 | 2.26 | 122 | 0.00 | 29 | 0.3 | 2000 | 0.16 | 34.672 | 27.870 | 0.578 |
| 1504 | 0.09 | 34.682 | 7.78 | 231 | 2.26 | 118 | 0.00 | 29 | 0.3 | 2500 | 0.40 | 34.652 | 27.870 | 0.686 |
| 2002 | -0.15 | 34.673 | 7.77 | 245 | 2.23 | 112 | 0.01 | 29 | 0.3 | | | | | |
| 2503 | -0.39 | 34.654 | 7.78 | 253 | 2.23 | 106 | 0.03 | 29 | -- | | | | | |
| 2573 | -0.40 | 34.646 | 7.77 | 255 | 2.23 | 106 | 0.03 | 29 | 0.3 | | | | | |

Station 12

Meteorological observation

| | | | | | |
|-----------|------------------|-----------------------|------------|----------------|---------|
| Date | : March 11, 1996 | Weather Time(UT) | : 05:00 | Wind Direction | : SW |
| Time(UT) | : 05:00 | Weather | : c | Velocity | : 11m/s |
| Latitude | : 65-05.9S | Air Temperature (dry) | : -2.0°C | Humidity | : 85 % |
| Longitude | : 141-49.8E | Air Temperature (wet) | : -4.2°C | Wave | : SW /4 |
| Depth | : 2790m | Atmospheric Pressure | : 970.4hPa | Swell | : WNW/3 |
| | | | | Visibility | : 20km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | DO2 | P04-P | SI03-Si (μmol/l) | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 0.20 | 33.992 | 7.97 | 348 | 1.69 | 37 | 0.23 | 22 | 0.4 | 0 | 0.20 | 33.991 | 27.300 | 0.000 |
| 10 | -0.03 | 33.984 | 7.99 | 347 | 1.69 | 37 | 0.22 | 22 | 0.2 | 10 | 0.03 | 33.984 | 27.310 | 0.008 |
| 20 | -0.01 | 33.981 | 7.99 | 350 | 1.71 | 37 | 0.22 | 22 | 0.4 | 20 | 0.01 | 33.981 | 27.310 | 0.016 |
| 34 | -0.05 | 33.987 | 8.00 | 350 | 1.71 | 37 | 0.22 | 22 | -- | 30 | 0.03 | 33.982 | 27.310 | 0.023 |
| 58 | -1.07 | 34.242 | 7.97 | 334 | 2.04 | 53 | 0.14 | 25 | 0.4 | 50 | 0.79 | 34.162 | 27.490 | 0.037 |
| 80 | -1.33 | 34.374 | 7.93 | 308 | 2.26 | 66 | 0.22 | 27 | 0.2 | 75 | 1.33 | 34.360 | 27.670 | 0.050 |
| 104 | -1.19 | 34.412 | 7.92 | 295 | 2.29 | 71 | 0.15 | 27 | 0.2 | 100 | 1.23 | 34.405 | 27.700 | 0.060 |
| 129 | -0.74 | 34.468 | 7.90 | 277 | 2.31 | 73 | 0.02 | 27 | 0.3 | 125 | 0.78 | 34.461 | 27.730 | 0.070 |
| 154 | -0.57 | 34.499 | 7.89 | 267 | 2.31 | 80 | 0.01 | 27 | 0.1 | 150 | 0.60 | 34.494 | 27.750 | 0.079 |
| 204 | 0.19 | 34.595 | 7.88 | 236 | 2.32 | 85 | 0.01 | 27 | 0.3 | 200 | 0.16 | 34.591 | 27.790 | 0.096 |
| 257 | 0.47 | 34.613 | 7.86 | 232 | 2.29 | 88 | 0.01 | 27 | 0.4 | 250 | 0.43 | 34.609 | 27.790 | 0.112 |
| 304 | 0.90 | 34.664 | 7.87 | 220 | 2.28 | 92 | 0.01 | 27 | 0.2 | 300 | 0.90 | 34.663 | 27.800 | 0.128 |
| 405 | 0.94 | 34.685 | 7.87 | 219 | 2.26 | 95 | 0.03 | 27 | 0.3 | 400 | 0.94 | 34.684 | 27.820 | 0.159 |
| 504 | 0.96 | 34.706 | 7.86 | 219 | 2.25 | 101 | 0.01 | 27 | 0.3 | 500 | 0.96 | 34.706 | 27.830 | 0.188 |
| 605 | 0.85 | 34.695 | 7.87 | 218 | 2.28 | 103 | 0.01 | 27 | 0.4 | 600 | 0.85 | 34.695 | 27.830 | 0.217 |
| 701 | 0.86 | 34.708 | 7.87 | 218 | 2.28 | 107 | 0.03 | 27 | 0.4 | 700 | 0.86 | 34.707 | 27.840 | 0.246 |
| 803 | 0.80 | 34.704 | 7.86 | 222 | 2.28 | -- | 0.01 | 27 | -- | 800 | 0.80 | 34.704 | 27.840 | 0.274 |
| 903 | 0.70 | 34.701 | 7.86 | 223 | 2.29 | 113 | 0.00 | 27 | -- | 1000 | 0.62 | 34.699 | 27.850 | 0.329 |
| 1002 | 0.62 | 34.699 | 7.86 | -- | 2.29 | 116 | 0.01 | 27 | 0.2 | 1200 | 0.48 | 34.696 | 27.850 | 0.383 |
| 1253 | 0.45 | 34.695 | 7.86 | 223 | 2.29 | 122 | 0.01 | 27 | 0.2 | 1500 | 0.25 | 34.685 | 27.860 | 0.461 |
| 1501 | 0.25 | 34.686 | 7.85 | 226 | 2.31 | 122 | 0.00 | 27 | 0.3 | 2000 | 0.01 | 34.680 | 27.870 | 0.584 |
| 1999 | 0.02 | 34.681 | 7.85 | 241 | 2.31 | 120 | 0.00 | 27 | 0.3 | 2500 | 0.20 | 34.679 | 27.880 | 0.695 |
| 2505 | -0.19 | 34.680 | 7.84 | 245 | 2.28 | 111 | 0.00 | 27 | -- | | | | | |
| 2749 | -0.20 | 34.689 | 7.83 | 246 | 2.29 | 104 | 0.01 | 27 | 0.4 | | | | | |

Station 13

Meteorological observation

Date : March 12, 1996
 Time (UT) : 03:00
 Latitude : 62-02.9S
 Longitude : 142-01.1E
 Depth : 4250m

Weather Time (UT) : 03:00
 Weather : s
 Air Temperature (dry) : 3.1°C
 Air Temperature (wet) : 1.0°C
 Atmospheric Pressure : 990.3hPa

Wind Direction : ENE
 Velocity : 2m/s
 Humidity : 86 %
 Wave : ENE/2
 Swell : W /3
 Visibility : 25km

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si (μmol/l) | N02-N | N03-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 2.80 | 33.871 | 8.02 | 332 | 1.74 | 13 | 0.34 | 22 | 0.4 | 0 | 2.80 | 33.870 | 27.020 | 0.000 |
| 49 | 2.49 | 33.854 | 8.03 | 333 | 1.74 | 13 | 0.32 | 22 | -- | 10 | 2.74 | 33.867 | 27.030 | 0.010 |
| 73 | 1.60 | 33.890 | 8.03 | 343 | 1.85 | 17 | 0.29 | 23 | -- | 20 | 2.67 | 33.863 | 27.030 | 0.021 |
| 101 | -0.38 | 33.994 | 8.00 | 334 | 2.18 | 36 | 0.23 | 26 | -- | 30 | 2.61 | 33.860 | 27.030 | 0.031 |
| 119 | 0.69 | 34.175 | 7.94 | 266 | 2.35 | 48 | 0.13 | 29 | 0.1 | 50 | 2.46 | 33.854 | 27.040 | 0.052 |
| 150 | 1.61 | 34.349 | 7.90 | 203 | 2.50 | 62 | 0.04 | 31 | 0.1 | 75 | 1.43 | 33.896 | 27.150 | 0.076 |
| 192 | 1.95 | 34.441 | 7.87 | 181 | 2.54 | 71 | 0.02 | 31 | 0.1 | 100 | 0.38 | 33.993 | 27.330 | 0.097 |
| 249 | 2.03 | 34.503 | 7.86 | 182 | 2.53 | 75 | 0.01 | 31 | 0.1 | 125 | 0.94 | 34.224 | 27.450 | 0.115 |
| 298 | 2.09 | 34.550 | 7.86 | 183 | 2.48 | 79 | 0.03 | 31 | 0.1 | 150 | 1.62 | 34.351 | 27.500 | 0.130 |
| 400 | 2.08 | 34.605 | 7.87 | -- | 2.44 | 81 | 0.00 | 30 | 0.1 | 200 | 1.96 | 34.451 | 27.560 | 0.159 |
| 500 | 2.08 | 34.649 | 7.86 | 176 | 2.38 | 84 | 0.01 | 29 | 0.1 | 250 | 2.03 | 34.505 | 27.590 | 0.185 |
| 598 | 2.07 | 34.683 | 7.88 | -- | 2.29 | 85 | 0.01 | 28 | 0.2 | 300 | 2.09 | 34.551 | 27.630 | 0.210 |
| 698 | 2.01 | 34.710 | 7.89 | 191 | 2.28 | 87 | 0.01 | 28 | 0.1 | 400 | 2.08 | 34.606 | 27.670 | 0.257 |
| 797 | 1.95 | 34.719 | 7.89 | 191 | 2.23 | -- | 0.01 | 28 | 0.2 | 500 | 2.08 | 34.650 | 27.710 | 0.301 |
| 900 | 1.89 | 34.729 | 7.90 | 195 | 2.20 | -- | 0.00 | 27 | 0.1 | 600 | 2.07 | 34.685 | 27.740 | 0.342 |
| 998 | 1.83 | 34.735 | 7.90 | -- | 2.19 | 89 | 0.01 | 27 | 0.1 | 700 | 2.00 | 34.710 | 27.760 | 0.381 |
| 1251 | 1.62 | 34.737 | 7.91 | 204 | 2.18 | 95 | 0.01 | 27 | 0.1 | 800 | 1.95 | 34.719 | 27.770 | 0.418 |
| 1500 | 1.41 | 34.737 | 7.91 | 209 | 2.19 | 102 | 0.02 | 27 | 0.1 | 1000 | 1.82 | 34.735 | 27.800 | 0.491 |
| 2002 | 1.01 | 34.718 | 7.90 | 211 | 2.23 | 115 | 0.01 | 28 | 0.2 | 1200 | 1.66 | 34.737 | 27.810 | 0.561 |
| 2500 | 0.63 | 34.699 | 7.89 | 218 | 2.26 | 125 | 0.01 | 28 | 0.2 | 1500 | 1.40 | 34.736 | 27.830 | 0.662 |
| 3000 | 0.31 | 34.684 | 7.88 | -- | 2.29 | 130 | 0.01 | 28 | 0.3 | 2000 | 0.99 | 34.717 | 27.840 | 0.822 |
| 3499 | 0.11 | 34.680 | 7.87 | 235 | 2.28 | 130 | 0.01 | 28 | 0.2 | 2500 | 0.61 | 34.698 | 27.850 | 0.973 |
| 4000 | -0.08 | 34.675 | 7.86 | -- | 2.26 | 122 | 0.01 | 28 | 0.2 | 3000 | 0.30 | 34.684 | 27.860 | 1.111 |
| 4262 | -0.26 | 34.666 | 7.86 | 246 | 2.26 | 120 | 0.03 | 28 | 0.2 | 3500 | 0.09 | 34.680 | 27.860 | 1.236 |

Station 14

Meteorological observation

Date : March 13, 1996
 Time(UT) : 02:00
 Latitude : 58-13. 7S
 Longitude : 143-35. 8E
 Depth : 3650m

Weather Time(UT) : 02:00
 Weather : c
 Air Temperature (dry) : 3. 9°C
 Air Temperature (wet) : 2. 1°C
 Atmospheric Pressure : 983. 2hPa

Wind Direction : NW
 Velocity : 11m/s
 Humidity : 89 %
 Wave : NW /2
 Swell : NNW/3
 Visibility : 30km

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------------------|-------|-------|-------|--------------|-----------|--------|----------------|-------|
| Depth (m) | T (°C) | S | pH | DO2 | P04-P | SI03-Si (μmol/l) | NO2-N | NO3-N | NH4-N | Depth (m) | T (°C) | S | σ _t | ΔD |
| 0 | 4.30 | 33.825 | 7.97 | 322 | 1.65 | 0 | 0.30 | 21 | 0.3 | 0 | 4.30 | 33.825 | 26.840 | 0.000 |
| 30 | 4.08 | 33.814 | 7.97 | 321 | 1.62 | 0 | 0.27 | 21 | 0.3 | 10 | 4.21 | 33.818 | 26.850 | 0.012 |
| 52 | 3.99 | 33.824 | 7.98 | 325 | 1.64 | 0 | 0.27 | 21 | 0.3 | 20 | 4.14 | 33.813 | 26.850 | 0.024 |
| 76 | 3.89 | 33.828 | 7.98 | 322 | 1.64 | 0 | 0.29 | 21 | 0.3 | 30 | 4.08 | 33.813 | 26.860 | 0.036 |
| 103 | 1.54 | 33.900 | 7.98 | 332 | 2.09 | 11 | 0.27 | 22 | --- | 50 | 3.99 | 33.823 | 26.870 | 0.060 |
| 125 | 0.87 | 33.915 | 7.97 | 332 | 2.06 | 22 | 0.33 | 24 | --- | 75 | 3.89 | 33.827 | 26.890 | 0.090 |
| 151 | 0.78 | 33.972 | 7.95 | 319 | 2.09 | 27 | 0.20 | 25 | 0.2 | 100 | 1.65 | 33.895 | 27.140 | 0.116 |
| 200 | 1.51 | 34.130 | 7.91 | 274 | 2.25 | 38 | 0.00 | 27 | 0.1 | 125 | 0.86 | 33.916 | 27.210 | 0.139 |
| 249 | 1.89 | 34.241 | 7.88 | 241 | 2.37 | 48 | 0.05 | 28 | 0.1 | 150 | 0.78 | 33.971 | 27.250 | 0.160 |
| 291 | 1.86 | 34.344 | 7.85 | 214 | 2.44 | 57 | 0.03 | 29 | 0.1 | 200 | 1.52 | 34.132 | 27.330 | 0.200 |
| 404 | 2.19 | 34.445 | 7.82 | 197 | 2.47 | 67 | 0.01 | 30 | 0.1 | 250 | 1.89 | 34.245 | 27.400 | 0.236 |
| 499 | 2.28 | 34.532 | 7.82 | 190 | 2.47 | 74 | 0.00 | 30 | 0.2 | 300 | 1.88 | 34.356 | 27.490 | 0.269 |
| 601 | 2.32 | 34.588 | 7.83 | 185 | 2.41 | 76 | 0.00 | 29 | 0.2 | 400 | 2.18 | 34.442 | 27.530 | 0.329 |
| 701 | 2.27 | 34.628 | 7.84 | 188 | 2.38 | 79 | 0.02 | 29 | 0.2 | 500 | 2.28 | 34.534 | 27.600 | 0.384 |
| 802 | 2.22 | 34.657 | 7.84 | 189 | 2.34 | 80 | 0.00 | 28 | 0.2 | 600 | 2.32 | 34.588 | 27.640 | 0.436 |
| 903 | 2.17 | 34.693 | 7.85 | --- | 2.29 | 81 | 0.01 | 28 | 0.3 | 700 | 2.27 | 34.628 | 27.670 | 0.483 |
| 999 | 2.14 | 34.708 | 7.85 | 193 | 2.23 | 83 | --- | 27 | 0.2 | 800 | 2.22 | 34.658 | 27.700 | 0.529 |
| 1247 | 1.98 | 34.746 | 7.86 | 203 | 2.18 | 87 | 0.00 | 26 | 0.2 | 1000 | 2.14 | 34.708 | 27.750 | 0.614 |
| 1502 | 1.80 | 34.749 | 7.87 | 207 | 2.15 | 90 | 0.00 | 26 | 0.3 | 1200 | 2.01 | 34.739 | 27.780 | 0.692 |
| 2001 | 1.37 | 34.740 | 7.86 | 213 | 2.18 | 104 | 0.00 | 26 | 0.3 | 1500 | 1.79 | 34.749 | 27.810 | 0.804 |
| 2495 | 0.97 | 34.719 | 7.85 | 215 | 2.23 | 116 | 0.00 | 27 | 0.2 | 2000 | 1.36 | 34.739 | 27.830 | 0.978 |
| 2999 | 0.60 | 34.705 | 7.84 | 224 | 2.29 | 126 | 0.00 | 27 | 0.2 | 2500 | 0.94 | 34.718 | 27.840 | 1.141 |
| 3498 | 0.33 | 34.692 | 7.83 | 229 | 2.31 | 136 | --- | 27 | --- | 3000 | 0.58 | 34.704 | 27.860 | 1.291 |

Station 15

Meteorological observation

Date : March 14, 1996
 Time (UT) : 03:00
 Latitude : 55-55.1S
 Longitude : 144-27.4E
 Depth : 3130m

Weather Time (UT) : 03:00
 Weather : c
 Air Temperature (dry) : 3.8°C
 Air Temperature (wet) : -2.0°C
 Atmospheric Pressure : 1006.6hPa

Wind Direction : SSW
 Velocity : 10m/s
 Humidity : 66 %
 Wave : SSW/3
 Swell : SSW/3
 Visibility : 30km

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|-----|-------|---------|-------|-------|-------|--------------|-----------|--------|------------|------------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si | NO2-N | NO3-N | NH4-N | Depth (m) | T (°C) | S | σ_t | ΔD |
| (μmol/l) | | | | | | | | | | | | | | |
| 0 | 4.40 | --- | 7.89 | 326 | 1.47 | 0 | 0.25 | 20 | 0.2 | 0 | 4.40 | 34.423 | 27.310 | 0.000 |
| 20 | 4.23 | 33.815 | 7.91 | 325 | 1.47 | 0 | 0.22 | 20 | 0.4 | 10 | 4.29 | 34.005 | 26.990 | 0.009 |
| 32 | 4.23 | 33.813 | 7.91 | 325 | 1.47 | 0 | 0.22 | 20 | 0.3 | 20 | 4.23 | 33.814 | 26.840 | 0.021 |
| 50 | 4.20 | 33.817 | 7.91 | 326 | 1.47 | 0 | 0.22 | 20 | 0.4 | 30 | 4.23 | 33.813 | 26.840 | 0.033 |
| 80 | 0.33 | 33.916 | 7.89 | 348 | 2.15 | 22 | 0.30 | 24 | -- | 50 | 4.20 | 33.817 | 26.850 | 0.057 |
| 105 | -0.04 | 33.964 | 7.88 | 339 | 2.12 | 29 | 0.26 | 25 | -- | 75 | 0.68 | 33.902 | 27.200 | 0.083 |
| 124 | -0.21 | 34.007 | 7.87 | 330 | 2.19 | 34 | 0.26 | 26 | -- | 100 | 0.02 | 33.953 | 27.280 | 0.104 |
| 155 | 0.48 | 34.135 | 7.82 | 283 | 2.35 | 45 | 0.04 | 28 | 0.1 | 125 | 0.18 | 34.014 | 27.340 | 0.124 |
| 204 | 1.71 | 34.331 | 7.76 | 215 | 2.56 | 60 | 0.01 | 30 | 0.1 | 150 | 0.38 | 34.118 | 27.400 | 0.141 |
| 254 | 2.02 | 34.419 | 7.74 | 194 | 2.56 | 67 | 0.01 | 31 | 0.1 | 200 | 1.66 | 34.320 | 27.480 | 0.174 |
| 304 | 2.17 | 34.487 | 7.73 | 183 | 2.54 | 73 | 0.01 | 31 | 0.1 | 250 | 2.02 | 34.415 | 27.520 | 0.204 |
| 403 | 2.24 | 34.561 | 7.74 | 179 | 2.48 | 76 | 0.01 | 30 | 0.1 | 300 | 2.17 | 34.485 | 27.570 | 0.233 |
| 507 | 2.23 | 34.609 | 7.74 | 178 | 2.44 | 79 | 0.02 | 29 | 0.1 | 400 | 2.24 | 34.561 | 27.620 | 0.285 |
| 603 | 2.19 | 34.657 | 7.75 | 181 | 2.37 | 81 | 0.03 | 29 | 0.1 | 500 | 2.23 | 34.606 | 27.660 | 0.333 |
| 702 | 2.12 | 34.685 | 7.76 | 188 | 2.26 | 84 | 0.00 | 27 | 0.1 | 600 | 2.19 | 34.656 | 27.700 | 0.378 |
| 805 | 2.09 | 34.706 | 7.76 | 193 | 2.26 | 84 | 0.03 | 27 | 0.1 | 700 | 2.12 | 34.685 | 27.730 | 0.420 |
| 901 | 2.05 | 34.721 | 7.78 | 195 | 2.23 | 84 | 0.01 | 27 | 0.1 | 800 | 2.09 | 34.705 | 27.750 | 0.460 |
| 1005 | 1.97 | 34.731 | 7.78 | 197 | 2.20 | 87 | 0.01 | 27 | 0.2 | 1000 | 1.97 | 34.731 | 27.780 | 0.537 |
| 1255 | 1.79 | 34.748 | 7.78 | 204 | 2.18 | 90 | 0.01 | 26 | 0.2 | 1200 | 1.82 | 34.746 | 27.800 | 0.610 |
| 1500 | 1.55 | 34.745 | 7.78 | 205 | 2.19 | 98 | 0.01 | 27 | 0.2 | 1500 | 1.54 | 34.744 | 27.820 | 0.714 |
| 2001 | 1.11 | 34.725 | 7.77 | 213 | 2.23 | 111 | 0.01 | 27 | 0.2 | 2000 | 1.10 | 34.724 | 27.840 | 0.878 |
| 2498 | 0.74 | 34.707 | 7.76 | 214 | 2.29 | 121 | 0.00 | 28 | 0.2 | 2500 | 0.72 | 34.706 | 27.850 | 1.031 |
| 2688 | 0.59 | 34.701 | 7.75 | 221 | 2.31 | 126 | 0.01 | 28 | 0.2 | | | | | |

Station 16

Meteorological observation

| | | | | | |
|-----------|------------------|-----------------------|-------------|----------------|---------|
| Date | : March 15, 1996 | Weather Time (UT) | : 23:00 * | Wind Direction | : N |
| Time (UT) | : 23:00 * | Weather | : c | Velocity | : 12m/s |
| Latitude | : 52-47.1S | Air Temperature (dry) | : 7.5°C | Humidity | : 84 % |
| Longitude | : 145-31.8E | Air Temperature (wet) | : 5.0°C | Wave | : N /3 |
| Depth | : 3200m | Atmospheric Pressure | : 1011.2hPa | Swell | : SSE/3 |
| | | | | Visibility | : 30km |

| Observed | | | | | | | | | | Interpolated | | | | |
|--------------|-----------|--------|------|----------|-------|---------|-------|-------|-------|--------------|-----------|--------|------------|------------|
| Depth (m) | T (°C) | S | pH | D02 | P04-P | SI03-Si | NO2-N | NO3-N | NH4-N | Depth (m) | T (°C) | S | σ_t | ΔD |
| | | | | (μmol/l) | | | | | | | | | | |
| 0 | 6.00 | 33.784 | 7.96 | 314 | 1.47 | 1 | 0.31 | 19 | 0.2 | 0 | 6.00 | 33.784 | 26.610 | 0.000 |
| 2498 | 0.99 | 34.719 | 7.81 | 219 | 2.22 | 118 | 0.01 | 26 | 0.2 | 2500 | 0.97 | 34.719 | 27.840 | 9.999 |
| 2998 | 0.80 | 34.710 | 7.79 | 216 | 2.26 | 126 | 0.00 | 27 | 0.4 | 3000 | 0.80 | 34.709 | 27.850 | 9.999 |
| 3324 | 0.80 | 34.707 | 7.78 | 216 | 2.28 | 127 | 0.01 | 26 | 0.2 | | | | | |

Table 4. Petroleum oil, cadmium and mercury concentration in surface sea water.

| Station No. | Date | Time (UT) | Position | | Air Temp. | Water Temp. | Petroleum Oil | Cadmium | Mercury | | |
|-------------|------|--------------|-----------|-----------|------------|-------------|---------------|---------|---------|---------|---------|
| | | | Latitude | Longitude | (°C) | | (μ g/l) | | | | |
| P-1 | 1995 | | | | | | | | | | |
| | 11 | 18 | 0700 | 12 - 41 N | 129 - 25 E | 29.5 | 29.4 | 0.7 | 0.018 | 0.0013 | |
| | 2 | 19 | 0700 | 7 - 0 N | 127 - 1 E | 27.6 | 29.5 | 0.6 | 0.009 | 0.0004 | |
| | 3 | 20 | 0700 | 2 - 45 N | 122 - 7 E | 27.2 | 29.2 | 0.7 | 0.011 | 0.0004 | |
| | 4 | 22 | 0700 | 7 - 15 S | 116 - 19 E | 30.3 | 30.1 | 0.4 | 0.004 | 0.0005 | |
| | 5 | 23 | 0700 | 12 - 29 S | 115 - 1 E | 29.2 | 29.6 | 0.6 | 0.005 | 0.0003 | |
| | 6 | 12 | 5 | 0300 | 41 - 22 S | 109 - 15 E | 11.7 | 12 | 2.5 | 0.005 | 0.0006 |
| | 7 | 8 | 1000 | 55 - 24 S | 99 - 39 E | 1.9 | 0.9 | 0.9 | 0.091 | 0.0003 | |
| | 8 | 9 | 0500 | 57 - 34 S | 94 - 34 E | 2.0 | 0.2 | 0.8 | 0.078 | 0.0006 | |
| | 9 | 10 | 0200 | 58 - 49 S | 87 - 20 E | 0.1 | 1.5 | 2.2 | 0.071 | <0.0001 | |
| 10 | 12 | 0700 | 61 - 29 S | 70 - 13 E | 0.0 | -1.0 | 1.0 | 0.079 | 0.0007 | | |
| 1996 | | | | | | | | | | | |
| | 11 | 2 | 27 | 1300 | 63 - 0 S | 55 - 1 E | 0.4 | 1.2 | 2.6 | 0.043 | 0.0003 |
| | 12 | | 28 | 0800 | 62 - 54 S | 62 - 20 E | 1.5 | 0.5 | 1.9 | 0.055 | 0.0003 |
| | 13 | | 29 | 1200 | 62 - 27 S | 70 - 53 E | -0.4 | 0.3 | 1.7 | 0.063 | <0.0001 |
| | 14 | 3 | 1 | 0700 | 63 - 3 S | 80 - 39 E | 1.0 | 0.4 | 2.5 | 0.076 | <0.0001 |
| | 15 | | 2 | 0600 | 63 - 27 S | 92 - 6 E | 1.8 | 0.6 | 1.8 | 0.034 | 0.0011 |
| | 16 | | 3 | 0600 | 63 - 27 S | 103 - 22 E | 1.1 | 0.9 | 2.1 | 0.038 | 0.0001 |
| | 17 | | 4 | 0500 | 63 - 35 S | 114 - 10 E | 1.8 | 0.7 | 1.2 | 0.059 | 0.0001 |
| | 18 | | 5 | 0400 | 63 - 28 S | 123 - 42 E | 3.1 | 1.9 | 1.2 | 0.050 | 0.0005 |
| | 19 | | 6 | 0400 | 63 - 44 S | 131 - 25 E | 2.2 | 1.7 | 1.6 | 0.051 | 0.0011 |
| | 20 | | 7 | 0300 | 64 - 55 S | 138 - 54 E | 0.0 | 0.3 | 2.7 | 0.034 | 0.0080 |
| | 21 | | 11 | 0500 | 65 - 6 S | 141 - 50 E | -2.0 | 0.2 | 2.2 | 0.035 | <0.0001 |
| | 22 | | 12 | 0300 | 62 - 3 S | 142 - 1 E | 3.1 | 2.8 | 2.5 | 0.023 | 0.0002 |
| | 23 | | 13 | 0200 | 58 - 14 S | 143 - 36 E | 3.9 | 4.3 | 2.4 | 0.006 | <0.0001 |
| | 24 | | 14 | 0300 | 55 - 55 S | 144 - 27 E | 3.8 | 4.4 | 2.5 | 0.021 | 0.0004 |
| 25 | | 15 | 2300* | 52 - 47 S | 145 - 32 E | 7.5 | 6.0 | 2.5 | 0.015 | 0.0005 | |

Table 5. Hourly tidal observation at Syowa Station from February 1995 to January 1996 (time is LMT (UT+3 hours)).

Station : SYOWA STATION
 Latitude : 69° 00' 28" S
 Longitude : 39° 34' 13" E
 Duration : Feb. 1-Feb. 28 1995
 Unit : CENTIMETER

The zero level of the tide gauge
 relative to the bench mark No. 1040;
 -4.644m Feb. 3 1995
 -4.651m Jan. 19 1996

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------|-------|------|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN | |
| 1 | 186 | 188 | 200 | 220 | 243 | 261 | 268 | 264 | 246 | 218 | 184 | 155 | 134 | 127 | 138 | 162 | 190 | 215 | 238 | 251 | 248 | 236 | 215 | 197 | 4983 | 208 | 5170 | 207 | |
| 2 | 187 | 179 | 185 | 208 | 232 | 253 | 268 | 273 | 266 | 246 | 218 | 189 | 165 | 155 | 160 | 174 | 197 | 223 | 243 | 257 | 259 | 249 | 230 | 212 | 5229 | 218 | 5422 | 217 | |
| 3 | 193 | 182 | 181 | 192 | 217 | 242 | 260 | 268 | 267 | 252 | 235 | 208 | 186 | 173 | 170 | 180 | 199 | 220 | 240 | 253 | 257 | 252 | 232 | 213 | 5273 | 220 | 5469 | 219 | |
| 4 | 197 | 182 | 173 | 177 | 197 | 218 | 236 | 246 | 251 | 248 | 236 | 218 | 201 | 186 | 180 | 186 | 200 | 217 | 234 | 245 | 252 | 246 | 233 | 213 | 5172 | 215 | 5370 | 215 | |
| 5 | 198 | 181 | 171 | 166 | 174 | 191 | 206 | 219 | 228 | 228 | 222 | 210 | 198 | 190 | 186 | 188 | 199 | 212 | 225 | 239 | 246 | 242 | 235 | 219 | 4973 | 207 | 5176 | 207 | |
| 6 | 203 | 189 | 175 | 169 | 173 | 182 | 193 | 205 | 214 | 218 | 216 | 212 | 205 | 200 | 200 | 203 | 207 | 219 | 231 | 240 | 246 | 243 | 239 | 228 | 5010 | 209 | 5223 | 209 | |
| 7 | 213 | 204 | 192 | 179 | 180 | 184 | 187 | 193 | 200 | 201 | 204 | 205 | 201 | 201 | 206 | 209 | 217 | 223 | 231 | 239 | 242 | 243 | 238 | 231 | 5024 | 209 | 5247 | 210 | |
| 8 | 223 | 213 | 202 | 193 | 190 | 187 | 185 | 186 | 192 | 191 | 194 | 197 | 200 | 204 | 210 | 219 | 227 | 233 | 236 | 239 | 241 | 239 | 235 | 231 | 5066 | 211 | 5292 | 212 | |
| 9 | 226 | 217 | 210 | 203 | 196 | 190 | 184 | 178 | 174 | 176 | 174 | 177 | 186 | 193 | 204 | 218 | 227 | 233 | 235 | 236 | 235 | 234 | 230 | 227 | 4962 | 207 | 5185 | 207 | |
| 10 | 224 | 223 | 217 | 214 | 208 | 201 | 192 | 181 | 173 | 169 | 166 | 168 | 178 | 190 | 204 | 219 | 234 | 241 | 243 | 242 | 238 | 232 | 228 | 224 | 5009 | 209 | 5231 | 209 | |
| 11 | 222 | 224 | 226 | 223 | 219 | 213 | 200 | 183 | 169 | 156 | 149 | 149 | 158 | 175 | 193 | 214 | 232 | 241 | 246 | 244 | 240 | 232 | 224 | 221 | 4954 | 206 | 5177 | 207 | |
| 12 | 223 | 228 | 235 | 239 | 239 | 236 | 225 | 207 | 188 | 171 | 159 | 157 | 161 | 177 | 201 | 224 | 245 | 258 | 263 | 260 | 251 | 240 | 230 | 223 | 5240 | 218 | 5465 | 219 | |
| 13 | 225 | 233 | 239 | 251 | 255 | 254 | 242 | 222 | 198 | 173 | 155 | 144 | 144 | 157 | 180 | 206 | 228 | 247 | 254 | 251 | 242 | 228 | 214 | 205 | 5149 | 215 | 5353 | 214 | |
| 14 | 205 | 212 | 225 | 236 | 248 | 255 | 244 | 228 | 205 | 174 | 148 | 134 | 128 | 140 | 164 | 189 | 214 | 234 | 247 | 245 | 237 | 224 | 205 | 195 | 4936 | 206 | 5127 | 205 | |
| 15 | 191 | 197 | 211 | 232 | 247 | 258 | 258 | 244 | 220 | 192 | 166 | 143 | 133 | 139 | 158 | 186 | 212 | 237 | 251 | 254 | 246 | 230 | 210 | 194 | 5009 | 209 | 5196 | 208 | |
| 16 | 187 | 190 | 205 | 227 | 248 | 266 | 270 | 265 | 246 | 219 | 189 | 164 | 148 | 146 | 160 | 185 | 211 | 234 | 252 | 260 | 252 | 236 | 214 | 195 | 5168 | 215 | 5350 | 214 | |
| 17 | 182 | 177 | 188 | 209 | 232 | 255 | 265 | 268 | 255 | 233 | 205 | 178 | 156 | 148 | 154 | 173 | 196 | 219 | 239 | 246 | 244 | 229 | 206 | 185 | 5042 | 210 | 5210 | 208 | |
| 18 | 168 | 161 | 163 | 180 | 205 | 229 | 248 | 255 | 254 | 240 | 216 | 194 | 174 | 159 | 159 | 174 | 196 | 217 | 236 | 247 | 246 | 236 | 215 | 193 | 4964 | 207 | 5139 | 206 | |
| 19 | 174 | 160 | 155 | 166 | 187 | 211 | 231 | 245 | 251 | 245 | 229 | 208 | 191 | 173 | 170 | 177 | 193 | 211 | 228 | 238 | 240 | 232 | 215 | 191 | 4923 | 205 | 5092 | 204 | |
| 20 | 170 | 155 | 142 | 142 | 156 | 176 | 195 | 209 | 220 | 223 | 217 | 205 | 193 | 180 | 175 | 179 | 188 | 202 | 222 | 231 | 235 | 233 | 221 | 201 | 4671 | 195 | 4854 | 194 | |
| 21 | 183 | 169 | 155 | 151 | 154 | 169 | 186 | 202 | 215 | 226 | 232 | 231 | 226 | 227 | 228 | 229 | 238 | 247 | 260 | 266 | 265 | 266 | 256 | 239 | 5217 | 217 | 5440 | 218 | |
| 22 | 223 | 205 | 190 | 181 | 174 | 177 | 182 | 193 | 202 | 211 | 222 | 226 | 227 | 232 | 236 | 236 | 242 | 247 | 253 | 258 | 259 | 257 | 255 | 244 | 5331 | 222 | 5562 | 222 | |
| 23 | 232 | 220 | 205 | 195 | 185 | 179 | 174 | 174 | 179 | 183 | 191 | 201 | 207 | 215 | 226 | 235 | 240 | 242 | 246 | 247 | 246 | 244 | 240 | 235 | 5144 | 214 | 5376 | 215 | |
| 24 | 233 | 225 | 214 | 206 | 195 | 181 | 172 | 162 | 157 | 155 | 160 | 169 | 180 | 195 | 213 | 228 | 236 | 241 | 240 | 237 | 235 | 231 | 227 | 226 | 4917 | 205 | 5144 | 206 | |
| 25 | 227 | 228 | 226 | 221 | 213 | 203 | 186 | 168 | 155 | 145 | 141 | 147 | 159 | 178 | 203 | 220 | 235 | 243 | 243 | 237 | 230 | 221 | 215 | 213 | 4857 | 202 | 5076 | 203 | |
| 26 | 219 | 224 | 229 | 232 | 232 | 224 | 205 | 184 | 162 | 142 | 131 | 131 | 141 | 157 | 182 | 207 | 230 | 240 | 242 | 236 | 223 | 210 | 200 | 195 | 4777 | 199 | 4977 | 199 | |
| 27 | 200 | 210 | 223 | 232 | 238 | 237 | 222 | 200 | 174 | 146 | 126 | 117 | 121 | 137 | 162 | 189 | 213 | 230 | 236 | 231 | 215 | 199 | 183 | 176 | 4617 | 192 | 4798 | 192 | |
| 28 | 180 | 194 | 210 | 227 | 241 | 249 | 240 | 223 | 197 | 166 | 140 | 125 | 120 | 134 | 156 | 182 | 207 | 227 | 239 | 236 | 219 | 202 | 184 | 173 | 4671 | 195 | 4840 | 194 | |
| 1 | 170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | | 208.8cm | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : Mar. 1-Mar. 31 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------|-------|------|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN | |
| 1 | 170 | 180 | 203 | 225 | 246 | 262 | 264 | 252 | 230 | 202 | 173 | 150 | 140 | 147 | 166 | 192 | 219 | 238 | 251 | 250 | 235 | 214 | 190 | 174 | 4971 | 207 | 5135 | 205 | |
| 2 | 165 | 170 | 190 | 212 | 238 | 259 | 267 | 263 | 246 | 221 | 193 | 169 | 153 | 150 | 165 | 187 | 213 | 232 | 245 | 248 | 236 | 214 | 192 | 171 | 4998 | 208 | 5155 | 206 | |
| 3 | 157 | 153 | 166 | 192 | 218 | 241 | 255 | 258 | 250 | 231 | 206 | 182 | 164 | 155 | 163 | 184 | 207 | 228 | 242 | 248 | 241 | 220 | 199 | 175 | 4937 | 206 | 5093 | 204 | |
| 4 | 156 | 149 | 155 | 172 | 201 | 225 | 242 | 251 | 250 | 238 | 216 | 196 | 178 | 167 | 171 | 189 | 208 | 225 | 239 | 247 | 242 | 225 | 204 | 176 | 4923 | 205 | 5081 | 203 | |
| 5 | 158 | 145 | 143 | 153 | 176 | 202 | 220 | 234 | 240 | 232 | 218 | 202 | 187 | 178 | 176 | 185 | 205 | 222 | 236 | 243 | 241 | 229 | 209 | 186 | 4821 | 201 | 4988 | 200 | |
| 6 | 167 | 150 | 144 | 147 | 166 | 188 | 207 | 220 | 226 | 228 | 219 | 208 | 200 | 192 | 192 | 197 | 210 | 228 | 242 | 250 | 248 | 241 | 227 | 205 | 4903 | 204 | 5087 | 203 | |
| 7 | 184 | 170 | 157 | 155 | 165 | 179 | 193 | 207 | 212 | 215 | 214 | 205 | 199 | 196 | 196 | 199 | 208 | 219 | 231 | 238 | 238 | 231 | 220 | 205 | 4836 | 201 | 5023 | 201 | |
| 8 | 187 | 175 | 165 | 159 | 164 | 174 | 185 | 196 | 206 | 207 | 211 | 209 | 208 | 210 | 215 | 221 | 230 | 237 | 248 | 256 | 256 | 254 | 249 | 238 | 5061 | 211 | 5289 | 212 | |
| 9 | 228 | 223 | 212 | 204 | 205 | 207 | 207 | 213 | 218 | 219 | 223 | 225 | 224 | 227 | 235 | 241 | 247 | 252 | 257 | 261 | 263 | 260 | 250 | 243 | 5544 | 231 | 5777 | 231 | |
| 10 | 234 | 222 | 215 | 208 | 204 | 200 | 201 | 201 | 198 | 201 | 203 | 207 | 213 | 219 | 227 | 238 | 245 | 247 | 251 | 251 | 247 | 243 | 237 | 232 | 5342 | 223 | 5570 | 223 | |
| 11 | 228 | 220 | 216 | 213 | 207 | 202 | 195 | 187 | 180 | 179 | 179 | 184 | 195 | 206 | 217 | 231 | 239 | 244 | 242 | 240 | 238 | 228 | 222 | 221 | 5115 | 213 | 5332 | 213 | |
| 12 | 217 | 217 | 219 | 216 | 212 | 207 | 195 | 181 | 170 | 162 | 158 | 161 | 171 | 187 | 204 | 218 | 230 | 237 | 238 | 232 | 225 | 213 | 206 | 204 | 4877 | 203 | 5085 | 203 | |
| 13 | 207 | 212 | 218 | 223 | 224 | 219 | 208 | 190 | 173 | 160 | 152 | 150 | 162 | 178 | 197 | 220 | 236 | 243 | 245 | 237 | 225 | 212 | 201 | 199 | 4892 | 204 | 5095 | 204 | |
| 14 | 203 | 211 | 226 | 237 | 242 | 241 | 232 | 212 | 190 | 172 | 157 | 151 | 158 | 176 | 199 | 222 | 242 | 256 | 256 | 249 | 237 | 217 | 205 | 199 | 5090 | 212 | 5291 | 212 | |
| 15 | 202 | 212 | 231 | 248 | 262 | 267 | 260 | 239 | 216 | 189 | 168 | 156 | 158 | 172 | 194 | 219 | 241 | 257 | 260 | 251 | 235 | 214 | 195 | 185 | 5230 | 218 | 5415 | 217 | |
| 16 | 184 | 195 | 216 | 239 | 258 | 272 | 270 | 255 | 231 | 206 | 178 | 161 | 156 | 166 | 186 | 211 | 235 | 249 | 257 | 252 | 233 | 208 | 183 | 168 | 5170 | 215 | 5332 | 213 | |
| 17 | 162 | 169 | 191 | 216 | 242 | 261 | 269 | 262 | 243 | 215 | 188 | 166 | 153 | 156 | 174 | 198 | 220 | 240 | 250 | 245 | 230 | 205 | 175 | 155 | 4985 | 208 | 5129 | 205 | |
| 18 | 143 | 144 | 162 | 188 | 218 | 243 | 259 | 265 | 254 | 233 | 209 | 185 | 170 | 167 | 180 | 203 | 228 | 248 | 260 | 262 | 252 | 227 | 200 | 175 | 5074 | 211 | 5231 | 209 | |
| 19 | 157 | 147 | 160 | 186 | 215 | 243 | 267 | 278 | 276 | 264 | 242 | 218 | 200 | 193 | 195 | 209 | 231 | 249 | 262 | 265 | 259 | 238 | 208 | 180 | 5344 | 223 | 5501 | 220 | |
| 20 | 157 | 142 | 144 | 160 | 184 | 211 | 237 | 253 | 259 | 256 | 243 | 226 | 209 | 197 | 196 | 206 | 221 | 238 | 251 | 257 | 253 | 238 | 211 | 185 | 5134 | 214 | 5296 | 212 | |
| 21 | 162 | 141 | 132 | 140 | 157 | 177 | 203 | 220 | 230 | 236 | 233 | 222 | 212 | 205 | 201 | 207 | 220 | 235 | 247 | 255 | 255 | 244 | 227 | 203 | 4961 | 207 | 5141 | 206 | |
| 22 | 180 | 158 | 145 | 143 | 150 | 163 | 182 | 200 | 212 | 224 | 231 | 228 | 224 | 222 | 221 | 224 | 232 | 241 | 253 | 261 | 261 | 255 | 244 | 226 | 5080 | 212 | 5287 | 211 | |
| 23 | 207 | 189 | 175 | 163 | 163 | 167 | 176 | 188 | 197 | 207 | 219 | 220 | 225 | 228 | 233 | 233 | 238 | 244 | 250 | 257 | 257 | 253 | 247 | 239 | 5175 | 216 | 5402 | 216 | |
| 24 | 227 | 215 | 205 | 193 | 187 | 182 | 182 | 185 | 190 | 198 | 207 | 219 | 228 | 237 | 246 | 254 | 256 | 259 | 263 | 263 | 262 | 258 | 252 | 247 | 5415 | 226 | 5658 | 226 | |
| 25 | 243 | 236 | 231 | 222 | 211 | 202 | 194 | 184 | 179 | 180 | 183 | 197 | 206 | 219 | 235 | 245 | 251 | 252 | 248 | 243 | 238 | 235 | 230 | 231 | 5294 | 221 | 5524 | 221 | |
| 26 | 230 | 231 | 233 | 232 | 228 | 216 | 203 | 190 | 175 | 168 | 172 | 175 | 186 | 208 | 227 | 243 | 253 | 256 | 252 | 245 | 235 | 225 | 219 | 220 | 5222 | 218 | 5447 | 218 | |
| 27 | 225 | 235 | 243 | 248 | 248 | 243 | 228 | 207 | 186 | 175 | 165 | 164 | 174 | 191 | 210 | 231 | 242 | 248 | 244 | 231 | 217 | 203 | 192 | 192 | 5142 | 214 | 5339 | 214 | |
| 28 | 197 | 210 | 229 | 241 | 250 | 251 | 238 | 219 | 197 | 176 | 162 | 154 | 161 | 177 | 199 | 220 | 237 | 244 | 241 | 229 | 210 | 189 | 177 | 172 | 4982 | 208 | 5159 | 206 | |
| 29 | 176 | 194 | 215 | 236 | 252 | 261 | 254 | 239 | 213 | 189 | 171 | 158 | 159 | 173 | 191 | 213 | 233 | 241 | 241 | 229 | 207 | 185 | 166 | 156 | 4953 | 206 | 5112 | 204 | |
| 30 | 159 | 173 | 198 | 223 | 246 | 263 | 266 | 255 | 238 | 214 | 194 | 178 | 175 | 183 | 206 | 227 | 245 | 259 | 263 | 253 | 232 | 204 | 181 | 167 | 5201 | 217 | 5362 | 214 | |
| 31 | 161 | 173 | 197 | 222 | 248 | 270 | 275 | 273 | 258 | 235 | 211 | 194 | 183 | 186 | 203 | 223 | 240 | 254 | 260 | 252 | 232 | 206 | 181 | 158 | 5294 | 221 | 5443 | 218 | |
| 1 | 148 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | | 212.3cm | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : Apr. 1-Apr. 30 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-------|------|-------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN |
| 1 | 148 | 153 | 172 | 198 | 226 | 249 | 264 | 265 | 254 | 239 | 219 | 199 | 187 | 186 | 197 | 216 | 236 | 251 | 259 | 252 | 237 | 211 | 181 | 159 | 5158 | 215 | 5302 | 212 |
| 2 | 144 | 140 | 153 | 176 | 205 | 230 | 249 | 255 | 253 | 240 | 224 | 210 | 197 | 192 | 200 | 215 | 235 | 249 | 259 | 258 | 245 | 221 | 195 | 171 | 5116 | 213 | 5269 | 211 |
| 3 | 152 | 144 | 149 | 169 | 192 | 217 | 238 | 247 | 252 | 244 | 230 | 218 | 206 | 200 | 202 | 215 | 232 | 245 | 255 | 257 | 246 | 229 | 203 | 177 | 5119 | 213 | 5278 | 211 |
| 4 | 159 | 144 | 144 | 155 | 175 | 199 | 217 | 231 | 238 | 237 | 230 | 219 | 212 | 206 | 207 | 217 | 231 | 245 | 257 | 261 | 255 | 241 | 221 | 199 | 5100 | 212 | 5280 | 211 |
| 5 | 180 | 167 | 162 | 169 | 181 | 201 | 219 | 233 | 241 | 246 | 244 | 239 | 232 | 231 | 232 | 237 | 247 | 259 | 270 | 273 | 269 | 259 | 242 | 223 | 5456 | 227 | 5660 | 226 |
| 6 | 205 | 190 | 181 | 181 | 190 | 202 | 215 | 227 | 234 | 240 | 242 | 239 | 235 | 234 | 235 | 241 | 245 | 253 | 262 | 265 | 263 | 255 | 242 | 225 | 5501 | 229 | 5713 | 229 |
| 7 | 211 | 199 | 188 | 185 | 187 | 193 | 202 | 209 | 215 | 222 | 228 | 229 | 228 | 230 | 234 | 237 | 240 | 245 | 250 | 251 | 247 | 240 | 231 | 220 | 5323 | 222 | 5530 | 221 |
| 8 | 208 | 198 | 192 | 184 | 180 | 182 | 186 | 187 | 192 | 197 | 203 | 208 | 211 | 219 | 226 | 234 | 237 | 240 | 241 | 242 | 240 | 236 | 230 | 225 | 5098 | 212 | 5318 | 213 |
| 9 | 220 | 215 | 212 | 208 | 203 | 199 | 197 | 193 | 193 | 194 | 199 | 205 | 212 | 223 | 233 | 240 | 241 | 243 | 241 | 240 | 232 | 225 | 220 | 219 | 5207 | 217 | 5425 | 217 |
| 10 | 217 | 220 | 220 | 219 | 215 | 207 | 198 | 191 | 185 | 181 | 186 | 194 | 203 | 212 | 228 | 240 | 242 | 240 | 238 | 230 | 219 | 210 | 206 | 207 | 5109 | 213 | 5320 | 213 |
| 11 | 211 | 216 | 223 | 228 | 227 | 221 | 209 | 198 | 184 | 175 | 173 | 177 | 189 | 203 | 222 | 235 | 243 | 246 | 239 | 227 | 214 | 202 | 194 | 197 | 5053 | 211 | 5258 | 210 |
| 12 | 205 | 216 | 232 | 242 | 248 | 249 | 237 | 220 | 201 | 186 | 182 | 182 | 191 | 209 | 228 | 246 | 258 | 261 | 255 | 240 | 222 | 206 | 193 | 191 | 5301 | 221 | 5500 | 220 |
| 13 | 200 | 216 | 236 | 255 | 271 | 274 | 268 | 249 | 227 | 207 | 194 | 188 | 190 | 208 | 226 | 245 | 257 | 262 | 256 | 239 | 218 | 193 | 175 | 168 | 5420 | 226 | 5592 | 224 |
| 14 | 173 | 189 | 212 | 239 | 261 | 275 | 272 | 262 | 238 | 215 | 197 | 186 | 188 | 202 | 221 | 243 | 262 | 270 | 270 | 257 | 230 | 207 | 182 | 170 | 5419 | 226 | 5592 | 224 |
| 15 | 174 | 187 | 215 | 246 | 275 | 294 | 304 | 299 | 278 | 256 | 234 | 215 | 208 | 215 | 231 | 248 | 268 | 278 | 277 | 263 | 239 | 208 | 179 | 158 | 5749 | 240 | 5898 | 236 |
| 16 | 149 | 159 | 180 | 211 | 244 | 270 | 287 | 293 | 280 | 262 | 242 | 221 | 208 | 210 | 221 | 240 | 259 | 270 | 272 | 264 | 239 | 209 | 176 | 149 | 5517 | 230 | 5651 | 226 |
| 17 | 134 | 134 | 147 | 176 | 210 | 240 | 265 | 281 | 281 | 270 | 256 | 240 | 224 | 220 | 228 | 243 | 263 | 277 | 284 | 281 | 267 | 238 | 206 | 177 | 5543 | 231 | 5697 | 228 |
| 18 | 154 | 143 | 147 | 167 | 195 | 223 | 249 | 268 | 276 | 275 | 269 | 253 | 242 | 238 | 237 | 249 | 266 | 276 | 285 | 285 | 273 | 254 | 225 | 196 | 5646 | 235 | 5814 | 233 |
| 19 | 168 | 147 | 143 | 151 | 167 | 191 | 214 | 234 | 247 | 255 | 254 | 242 | 235 | 229 | 224 | 231 | 242 | 254 | 263 | 265 | 261 | 247 | 227 | 199 | 5290 | 220 | 5466 | 219 |
| 20 | 176 | 155 | 143 | 142 | 150 | 166 | 185 | 205 | 219 | 232 | 240 | 239 | 238 | 236 | 236 | 238 | 244 | 257 | 266 | 271 | 273 | 268 | 252 | 237 | 5265 | 219 | 5485 | 219 |
| 21 | 220 | 200 | 187 | 179 | 176 | 181 | 191 | 202 | 211 | 223 | 236 | 241 | 240 | 244 | 246 | 246 | 246 | 252 | 257 | 263 | 264 | 260 | 252 | 243 | 5462 | 228 | 5695 | 228 |
| 22 | 233 | 223 | 211 | 200 | 192 | 190 | 190 | 194 | 201 | 209 | 220 | 230 | 237 | 246 | 249 | 250 | 247 | 248 | 247 | 246 | 244 | 242 | 240 | 239 | 5429 | 226 | 5666 | 227 |
| 23 | 237 | 231 | 226 | 219 | 209 | 204 | 198 | 192 | 194 | 199 | 206 | 216 | 227 | 236 | 246 | 251 | 253 | 251 | 248 | 244 | 240 | 239 | 239 | 242 | 5447 | 227 | 5696 | 228 |
| 24 | 249 | 250 | 254 | 256 | 252 | 243 | 236 | 225 | 216 | 214 | 216 | 223 | 234 | 246 | 256 | 264 | 267 | 263 | 250 | 240 | 234 | 223 | 220 | 224 | 5755 | 240 | 5988 | 240 |
| 25 | 233 | 241 | 253 | 261 | 260 | 256 | 243 | 228 | 213 | 203 | 201 | 201 | 210 | 223 | 235 | 242 | 246 | 241 | 229 | 214 | 199 | 185 | 176 | 183 | 5378 | 224 | 5570 | 223 |
| 26 | 192 | 208 | 225 | 240 | 248 | 251 | 243 | 230 | 211 | 200 | 192 | 190 | 202 | 215 | 228 | 241 | 250 | 247 | 241 | 224 | 206 | 187 | 177 | 176 | 5226 | 218 | 5414 | 217 |
| 27 | 188 | 204 | 225 | 246 | 260 | 269 | 267 | 253 | 236 | 218 | 205 | 202 | 206 | 216 | 235 | 248 | 257 | 258 | 249 | 233 | 209 | 187 | 171 | 165 | 5405 | 225 | 5575 | 223 |
| 28 | 170 | 190 | 213 | 239 | 256 | 272 | 274 | 263 | 250 | 233 | 216 | 210 | 214 | 221 | 239 | 254 | 266 | 271 | 264 | 248 | 223 | 198 | 175 | 163 | 5522 | 230 | 5686 | 227 |
| 29 | 165 | 176 | 198 | 225 | 248 | 266 | 274 | 269 | 256 | 239 | 222 | 208 | 206 | 211 | 223 | 237 | 250 | 253 | 248 | 235 | 209 | 180 | 155 | 140 | 5293 | 221 | 5426 | 217 |
| 30 | 133 | 140 | 162 | 187 | 213 | 236 | 249 | 250 | 242 | 228 | 214 | 202 | 195 | 197 | 208 | 225 | 239 | 248 | 247 | 236 | 214 | 189 | 161 | 143 | 4957 | 207 | 5088 | 204 |
| 1 | 131 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | 222.6cm | | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : May. 1-May. 31 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------|-------|------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN |
| 1 | 131 | 135 | 152 | 176 | 203 | 228 | 245 | 251 | 250 | 242 | 227 | 217 | 210 | 208 | 217 | 234 | 249 | 259 | 265 | 258 | 242 | 215 | 187 | 161 | 5161 | 215 | 5307 | 212 |
| 2 | 145 | 143 | 151 | 172 | 198 | 221 | 240 | 252 | 254 | 247 | 234 | 224 | 217 | 213 | 220 | 233 | 249 | 260 | 266 | 265 | 253 | 233 | 207 | 185 | 5282 | 220 | 5453 | 218 |
| 3 | 171 | 162 | 168 | 187 | 210 | 236 | 254 | 269 | 276 | 274 | 266 | 259 | 251 | 247 | 246 | 255 | 269 | 277 | 284 | 285 | 273 | 253 | 229 | 204 | 5805 | 242 | 5991 | 240 |
| 4 | 185 | 172 | 168 | 178 | 194 | 214 | 232 | 246 | 255 | 257 | 253 | 248 | 245 | 241 | 241 | 244 | 254 | 266 | 274 | 275 | 267 | 256 | 237 | 214 | 5616 | 234 | 5812 | 232 |
| 5 | 196 | 181 | 174 | 178 | 189 | 204 | 221 | 235 | 245 | 252 | 252 | 250 | 247 | 244 | 245 | 246 | 251 | 264 | 271 | 274 | 270 | 261 | 248 | 231 | 5631 | 235 | 5848 | 234 |
| 6 | 217 | 204 | 193 | 191 | 195 | 204 | 217 | 227 | 239 | 246 | 249 | 250 | 248 | 248 | 249 | 248 | 250 | 256 | 260 | 263 | 259 | 255 | 244 | 234 | 5648 | 235 | 5870 | 235 |
| 7 | 222 | 211 | 204 | 198 | 197 | 206 | 212 | 218 | 228 | 237 | 244 | 248 | 249 | 253 | 255 | 255 | 256 | 258 | 261 | 263 | 259 | 253 | 249 | 243 | 5681 | 237 | 5918 | 237 |
| 8 | 237 | 230 | 223 | 220 | 216 | 215 | 216 | 220 | 225 | 230 | 240 | 246 | 253 | 258 | 259 | 260 | 257 | 253 | 251 | 248 | 243 | 240 | 237 | 235 | 5713 | 238 | 5950 | 238 |
| 9 | 237 | 235 | 235 | 231 | 225 | 221 | 217 | 212 | 208 | 210 | 215 | 224 | 232 | 237 | 243 | 244 | 242 | 237 | 229 | 223 | 213 | 210 | 209 | 211 | 5401 | 225 | 5619 | 225 |
| 10 | 218 | 229 | 234 | 235 | 234 | 229 | 220 | 210 | 203 | 199 | 202 | 209 | 218 | 230 | 238 | 243 | 245 | 236 | 225 | 213 | 198 | 188 | 187 | 191 | 5234 | 218 | 5437 | 217 |
| 11 | 203 | 219 | 231 | 242 | 247 | 242 | 232 | 218 | 207 | 197 | 194 | 197 | 210 | 221 | 235 | 242 | 243 | 238 | 224 | 207 | 188 | 174 | 168 | 173 | 5151 | 215 | 5336 | 213 |
| 12 | 184 | 207 | 228 | 247 | 259 | 264 | 257 | 242 | 227 | 211 | 200 | 202 | 210 | 221 | 237 | 245 | 251 | 246 | 234 | 210 | 185 | 165 | 154 | 149 | 5238 | 218 | 5399 | 216 |
| 13 | 161 | 183 | 210 | 240 | 260 | 272 | 272 | 260 | 243 | 225 | 211 | 208 | 210 | 223 | 237 | 247 | 255 | 255 | 243 | 222 | 192 | 166 | 145 | 133 | 5274 | 220 | 5417 | 217 |
| 14 | 144 | 163 | 190 | 223 | 251 | 273 | 280 | 278 | 263 | 245 | 230 | 219 | 218 | 225 | 241 | 256 | 266 | 267 | 260 | 242 | 210 | 178 | 150 | 130 | 5403 | 225 | 5531 | 221 |
| 15 | 128 | 140 | 164 | 196 | 229 | 256 | 275 | 281 | 275 | 261 | 244 | 231 | 222 | 227 | 241 | 254 | 268 | 273 | 270 | 256 | 228 | 194 | 162 | 135 | 5410 | 225 | 5530 | 221 |
| 16 | 120 | 122 | 138 | 167 | 199 | 229 | 253 | 268 | 268 | 258 | 248 | 235 | 225 | 220 | 227 | 242 | 255 | 262 | 263 | 257 | 234 | 204 | 170 | 138 | 5201 | 217 | 5313 | 213 |
| 17 | 113 | 102 | 109 | 128 | 155 | 185 | 210 | 230 | 242 | 242 | 235 | 226 | 216 | 210 | 212 | 224 | 241 | 250 | 258 | 259 | 246 | 226 | 194 | 166 | 4877 | 203 | 5019 | 201 |
| 18 | 142 | 122 | 119 | 128 | 148 | 176 | 199 | 218 | 239 | 247 | 246 | 242 | 238 | 229 | 226 | 233 | 244 | 259 | 269 | 274 | 271 | 259 | 242 | 214 | 5184 | 216 | 5375 | 215 |
| 19 | 191 | 172 | 161 | 159 | 169 | 186 | 206 | 224 | 240 | 252 | 256 | 256 | 254 | 248 | 242 | 242 | 245 | 255 | 267 | 274 | 273 | 269 | 258 | 239 | 5536 | 231 | 5757 | 230 |
| 20 | 221 | 206 | 189 | 179 | 179 | 185 | 196 | 210 | 222 | 235 | 242 | 246 | 245 | 242 | 237 | 234 | 232 | 233 | 239 | 249 | 250 | 253 | 251 | 243 | 5420 | 226 | 5657 | 226 |
| 21 | 237 | 229 | 215 | 207 | 201 | 201 | 206 | 210 | 222 | 233 | 242 | 250 | 250 | 253 | 252 | 244 | 240 | 235 | 235 | 238 | 242 | 242 | 242 | 242 | 5567 | 232 | 5809 | 232 |
| 22 | 242 | 240 | 234 | 227 | 221 | 217 | 213 | 211 | 216 | 220 | 230 | 236 | 242 | 243 | 244 | 240 | 235 | 224 | 220 | 217 | 214 | 215 | 216 | 220 | 5441 | 227 | 5667 | 227 |
| 23 | 226 | 229 | 232 | 232 | 225 | 219 | 212 | 207 | 207 | 207 | 210 | 219 | 225 | 230 | 231 | 233 | 227 | 215 | 206 | 199 | 193 | 188 | 194 | 198 | 5163 | 215 | 5372 | 215 |
| 24 | 209 | 219 | 230 | 238 | 239 | 237 | 230 | 221 | 215 | 211 | 215 | 219 | 225 | 236 | 242 | 241 | 239 | 229 | 215 | 202 | 188 | 179 | 178 | 183 | 5240 | 218 | 5437 | 217 |
| 25 | 197 | 209 | 227 | 242 | 249 | 247 | 245 | 237 | 228 | 218 | 216 | 222 | 229 | 239 | 245 | 248 | 249 | 241 | 231 | 210 | 192 | 180 | 174 | 174 | 5348 | 223 | 5536 | 221 |
| 26 | 187 | 204 | 224 | 243 | 257 | 263 | 263 | 251 | 240 | 229 | 221 | 224 | 230 | 238 | 249 | 254 | 255 | 252 | 236 | 216 | 196 | 177 | 167 | 163 | 5439 | 227 | 5610 | 224 |
| 27 | 172 | 191 | 209 | 234 | 252 | 264 | 268 | 263 | 253 | 242 | 232 | 229 | 233 | 242 | 250 | 261 | 265 | 262 | 251 | 234 | 209 | 184 | 166 | 155 | 5518 | 230 | 5681 | 227 |
| 28 | 163 | 179 | 199 | 225 | 247 | 265 | 274 | 273 | 262 | 249 | 241 | 231 | 234 | 241 | 250 | 262 | 270 | 271 | 262 | 245 | 221 | 191 | 169 | 155 | 5577 | 232 | 5731 | 229 |
| 29 | 153 | 163 | 186 | 210 | 235 | 254 | 269 | 270 | 265 | 254 | 242 | 232 | 229 | 233 | 244 | 258 | 267 | 270 | 267 | 252 | 228 | 200 | 175 | 153 | 5507 | 229 | 5653 | 226 |
| 30 | 145 | 151 | 167 | 192 | 217 | 237 | 256 | 260 | 257 | 248 | 235 | 226 | 223 | 222 | 231 | 242 | 254 | 258 | 256 | 251 | 228 | 196 | 175 | 150 | 5278 | 220 | 5416 | 217 |
| 31 | 139 | 140 | 150 | 171 | 201 | 224 | 242 | 256 | 259 | 249 | 242 | 236 | 228 | 224 | 232 | 244 | 253 | 267 | 269 | 263 | 248 | 224 | 197 | 174 | 5332 | 222 | 5488 | 220 |
| 1 | 156 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | 224.8cm | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : Jun. 1-Jun. 30 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----------|-------|------|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN | |
| 1 | 156 | 152 | 158 | 176 | 201 | 223 | 244 | 259 | 264 | 265 | 256 | 248 | 243 | 235 | 236 | 247 | 256 | 267 | 273 | 269 | 257 | 238 | 209 | 183 | 5515 | 230 | 5680 | 227 | |
| 2 | 165 | 155 | 153 | 166 | 184 | 206 | 224 | 240 | 251 | 252 | 248 | 243 | 235 | 230 | 230 | 232 | 247 | 258 | 268 | 272 | 265 | 250 | 233 | 212 | 5419 | 226 | 5612 | 224 | |
| 3 | 193 | 179 | 175 | 182 | 197 | 215 | 233 | 248 | 260 | 267 | 264 | 259 | 253 | 250 | 244 | 244 | 252 | 263 | 271 | 273 | 270 | 261 | 246 | 230 | 5731 | 239 | 5943 | 238 | |
| 4 | 212 | 199 | 188 | 186 | 193 | 205 | 220 | 232 | 245 | 251 | 252 | 246 | 244 | 237 | 229 | 228 | 231 | 236 | 241 | 244 | 244 | 240 | 234 | 219 | 5455 | 227 | 5661 | 226 | |
| 5 | 206 | 192 | 182 | 179 | 179 | 188 | 196 | 210 | 221 | 229 | 236 | 239 | 237 | 230 | 227 | 221 | 222 | 222 | 225 | 229 | 233 | 235 | 233 | 228 | 5199 | 217 | 5423 | 217 | |
| 6 | 223 | 215 | 210 | 203 | 201 | 203 | 208 | 216 | 227 | 234 | 241 | 247 | 247 | 244 | 241 | 234 | 228 | 225 | 227 | 226 | 225 | 226 | 229 | 231 | 5411 | 225 | 5641 | 226 | |
| 7 | 230 | 231 | 227 | 224 | 218 | 215 | 212 | 216 | 221 | 222 | 231 | 236 | 244 | 243 | 240 | 237 | 230 | 221 | 215 | 210 | 203 | 206 | 211 | 217 | 5358 | 223 | 5581 | 223 | |
| 8 | 222 | 231 | 236 | 235 | 230 | 228 | 220 | 217 | 217 | 216 | 221 | 230 | 233 | 236 | 238 | 234 | 223 | 212 | 200 | 186 | 177 | 176 | 175 | 183 | 5176 | 216 | 5376 | 215 | |
| 9 | 200 | 213 | 226 | 235 | 237 | 234 | 226 | 217 | 212 | 207 | 209 | 215 | 221 | 227 | 231 | 231 | 223 | 213 | 196 | 178 | 166 | 158 | 151 | 161 | 4988 | 208 | 5167 | 207 | |
| 10 | 179 | 202 | 223 | 241 | 252 | 256 | 252 | 241 | 231 | 220 | 219 | 223 | 229 | 236 | 244 | 248 | 244 | 231 | 213 | 191 | 166 | 148 | 140 | 142 | 5171 | 215 | 5329 | 213 | |
| 11 | 158 | 179 | 205 | 232 | 252 | 264 | 266 | 256 | 245 | 234 | 220 | 222 | 225 | 233 | 243 | 252 | 250 | 244 | 230 | 202 | 175 | 144 | 124 | 121 | 5176 | 216 | 5310 | 212 | |
| 12 | 134 | 147 | 174 | 211 | 237 | 259 | 267 | 266 | 256 | 244 | 229 | 225 | 224 | 230 | 241 | 250 | 261 | 256 | 246 | 224 | 195 | 159 | 131 | 113 | 5179 | 216 | 5292 | 212 | |
| 13 | 113 | 126 | 149 | 179 | 213 | 240 | 261 | 267 | 261 | 250 | 238 | 228 | 222 | 228 | 238 | 251 | 259 | 260 | 258 | 240 | 211 | 178 | 144 | 116 | 5129 | 214 | 5233 | 209 | |
| 14 | 104 | 110 | 123 | 149 | 188 | 216 | 243 | 261 | 265 | 257 | 244 | 238 | 231 | 227 | 237 | 255 | 265 | 275 | 279 | 273 | 250 | 221 | 186 | 157 | 5255 | 219 | 5391 | 216 | |
| 15 | 137 | 123 | 133 | 154 | 180 | 209 | 236 | 253 | 262 | 261 | 253 | 239 | 227 | 216 | 221 | 232 | 243 | 258 | 267 | 266 | 255 | 230 | 198 | 169 | 5222 | 218 | 5363 | 215 | |
| 16 | 142 | 124 | 120 | 132 | 153 | 177 | 201 | 224 | 238 | 240 | 239 | 229 | 219 | 209 | 207 | 213 | 224 | 238 | 252 | 261 | 257 | 246 | 225 | 199 | 4968 | 207 | 5144 | 206 | |
| 17 | 176 | 156 | 146 | 145 | 158 | 174 | 192 | 213 | 226 | 236 | 237 | 231 | 222 | 209 | 201 | 200 | 207 | 218 | 233 | 241 | 244 | 240 | 229 | 212 | 4943 | 206 | 5137 | 205 | |
| 18 | 194 | 177 | 162 | 158 | 162 | 173 | 189 | 204 | 218 | 226 | 230 | 229 | 218 | 212 | 203 | 193 | 194 | 200 | 211 | 222 | 226 | 230 | 228 | 219 | 4877 | 203 | 5086 | 203 | |
| 19 | 209 | 197 | 187 | 179 | 178 | 180 | 188 | 202 | 212 | 219 | 225 | 226 | 221 | 216 | 207 | 196 | 193 | 192 | 196 | 203 | 210 | 216 | 216 | 218 | 4886 | 204 | 5103 | 204 | |
| 20 | 217 | 212 | 206 | 205 | 200 | 199 | 204 | 209 | 214 | 224 | 230 | 233 | 234 | 230 | 221 | 212 | 204 | 197 | 196 | 197 | 198 | 203 | 205 | 209 | 5056 | 211 | 5271 | 211 | |
| 21 | 215 | 217 | 221 | 220 | 216 | 214 | 212 | 214 | 218 | 221 | 223 | 230 | 231 | 229 | 222 | 214 | 209 | 197 | 189 | 181 | 179 | 183 | 183 | 191 | 5034 | 210 | 5234 | 209 | |
| 22 | 200 | 207 | 218 | 221 | 226 | 229 | 224 | 219 | 222 | 222 | 223 | 227 | 232 | 230 | 228 | 222 | 214 | 204 | 190 | 180 | 168 | 164 | 165 | 170 | 5006 | 209 | 5189 | 208 | |
| 23 | 182 | 191 | 208 | 217 | 223 | 229 | 227 | 221 | 216 | 214 | 213 | 218 | 219 | 225 | 226 | 226 | 218 | 205 | 195 | 179 | 160 | 155 | 150 | 150 | 4871 | 203 | 5035 | 201 | |
| 24 | 164 | 180 | 198 | 214 | 226 | 238 | 236 | 232 | 224 | 217 | 214 | 216 | 222 | 230 | 232 | 235 | 233 | 222 | 212 | 192 | 173 | 159 | 148 | 146 | 4965 | 207 | 5127 | 205 | |
| 25 | 162 | 177 | 201 | 222 | 236 | 252 | 257 | 257 | 251 | 244 | 234 | 237 | 243 | 247 | 260 | 262 | 262 | 258 | 244 | 225 | 201 | 180 | 164 | 155 | 5432 | 226 | 5594 | 224 | |
| 26 | 162 | 177 | 195 | 215 | 236 | 250 | 260 | 258 | 250 | 239 | 232 | 228 | 226 | 234 | 242 | 246 | 251 | 244 | 238 | 215 | 194 | 163 | 145 | 129 | 5228 | 218 | 5359 | 214 | |
| 27 | 131 | 140 | 162 | 186 | 210 | 230 | 241 | 245 | 244 | 234 | 222 | 219 | 217 | 219 | 233 | 244 | 247 | 249 | 248 | 231 | 205 | 179 | 154 | 137 | 5027 | 209 | 5159 | 206 | |
| 28 | 132 | 139 | 155 | 183 | 206 | 228 | 244 | 249 | 245 | 239 | 226 | 216 | 214 | 216 | 223 | 239 | 251 | 252 | 253 | 244 | 222 | 196 | 169 | 147 | 5091 | 212 | 5229 | 209 | |
| 29 | 139 | 140 | 153 | 175 | 203 | 227 | 245 | 256 | 256 | 247 | 238 | 228 | 218 | 217 | 224 | 238 | 249 | 255 | 256 | 251 | 233 | 208 | 179 | 155 | 5191 | 216 | 5328 | 213 | |
| 30 | 138 | 133 | 140 | 160 | 183 | 207 | 226 | 240 | 244 | 238 | 228 | 219 | 206 | 203 | 206 | 214 | 231 | 243 | 247 | 247 | 236 | 216 | 189 | 164 | 4957 | 207 | 5101 | 204 | |
| 1 | 145 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | | 215. 2cm | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : Jul. 1-Jul. 31 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|------|-------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN |
| 1 | 145 | 134 | 135 | 149 | 172 | 197 | 216 | 230 | 241 | 238 | 231 | 219 | 209 | 204 | 203 | 210 | 225 | 236 | 246 | 250 | 242 | 231 | 209 | 184 | 4954 | 206 | 5120 | 205 |
| 2 | 166 | 155 | 150 | 158 | 173 | 199 | 217 | 230 | 241 | 246 | 238 | 230 | 217 | 209 | 206 | 206 | 214 | 227 | 241 | 246 | 247 | 237 | 223 | 202 | 5078 | 212 | 5262 | 210 |
| 3 | 183 | 171 | 163 | 164 | 171 | 190 | 205 | 220 | 230 | 237 | 236 | 226 | 213 | 207 | 197 | 195 | 197 | 206 | 217 | 229 | 227 | 223 | 216 | 201 | 4925 | 205 | 5113 | 205 |
| 4 | 188 | 174 | 166 | 162 | 168 | 176 | 193 | 206 | 216 | 220 | 223 | 219 | 208 | 201 | 194 | 187 | 185 | 191 | 202 | 208 | 215 | 221 | 220 | 217 | 4762 | 198 | 4971 | 199 |
| 5 | 209 | 199 | 191 | 190 | 190 | 196 | 204 | 215 | 224 | 232 | 236 | 236 | 228 | 218 | 210 | 200 | 194 | 193 | 195 | 200 | 208 | 213 | 215 | 216 | 5012 | 209 | 5231 | 209 |
| 6 | 218 | 215 | 213 | 210 | 207 | 207 | 209 | 215 | 222 | 230 | 231 | 233 | 229 | 221 | 213 | 208 | 193 | 183 | 182 | 183 | 184 | 189 | 196 | 201 | 4993 | 208 | 5210 | 208 |
| 7 | 217 | 220 | 224 | 224 | 220 | 220 | 221 | 220 | 227 | 226 | 225 | 233 | 237 | 228 | 223 | 213 | 199 | 188 | 181 | 165 | 166 | 171 | 174 | 183 | 5008 | 209 | 5205 | 208 |
| 8 | 198 | 212 | 222 | 238 | 242 | 241 | 240 | 234 | 232 | 238 | 237 | 247 | 249 | 253 | 246 | 246 | 235 | 216 | 206 | 183 | 174 | 171 | 168 | 176 | 5303 | 221 | 5500 | 220 |
| 9 | 197 | 216 | 235 | 251 | 264 | 266 | 261 | 256 | 251 | 246 | 241 | 244 | 253 | 251 | 253 | 256 | 244 | 229 | 213 | 187 | 164 | 149 | 142 | 145 | 5415 | 226 | 5575 | 223 |
| 10 | 160 | 179 | 211 | 232 | 254 | 265 | 271 | 264 | 251 | 243 | 233 | 232 | 238 | 245 | 249 | 255 | 251 | 246 | 228 | 205 | 172 | 149 | 131 | 123 | 5287 | 220 | 5424 | 217 |
| 11 | 137 | 160 | 189 | 219 | 247 | 270 | 279 | 283 | 277 | 260 | 249 | 246 | 249 | 258 | 265 | 276 | 279 | 277 | 263 | 241 | 211 | 176 | 148 | 129 | 5587 | 233 | 5714 | 229 |
| 12 | 127 | 138 | 160 | 191 | 220 | 249 | 264 | 269 | 265 | 252 | 237 | 226 | 223 | 231 | 242 | 257 | 264 | 269 | 266 | 248 | 220 | 188 | 154 | 128 | 5290 | 220 | 5406 | 216 |
| 13 | 116 | 119 | 143 | 167 | 197 | 231 | 254 | 264 | 266 | 257 | 245 | 232 | 225 | 228 | 238 | 259 | 273 | 281 | 286 | 279 | 259 | 228 | 193 | 165 | 5405 | 225 | 5547 | 222 |
| 14 | 142 | 135 | 139 | 163 | 192 | 217 | 241 | 254 | 259 | 251 | 238 | 220 | 206 | 198 | 204 | 220 | 236 | 249 | 259 | 261 | 250 | 229 | 198 | 164 | 5126 | 214 | 5266 | 211 |
| 15 | 140 | 126 | 124 | 138 | 160 | 186 | 209 | 226 | 232 | 227 | 217 | 203 | 184 | 177 | 176 | 183 | 203 | 219 | 234 | 246 | 243 | 231 | 210 | 181 | 4674 | 195 | 4831 | 193 |
| 16 | 157 | 141 | 131 | 136 | 151 | 175 | 198 | 210 | 222 | 227 | 219 | 204 | 193 | 175 | 167 | 175 | 186 | 204 | 221 | 233 | 237 | 237 | 226 | 209 | 4533 | 193 | 4827 | 193 |
| 17 | 194 | 177 | 164 | 167 | 179 | 189 | 209 | 225 | 238 | 242 | 240 | 228 | 214 | 203 | 191 | 183 | 188 | 203 | 215 | 232 | 249 | 241 | 235 | 227 | 5023 | 203 | 5238 | 210 |
| 18 | 215 | 204 | 192 | 193 | 192 | 209 | 222 | 227 | 238 | 246 | 248 | 234 | 222 | 211 | 202 | 190 | 190 | 195 | 200 | 215 | 221 | 227 | 227 | 226 | 5148 | 215 | 5369 | 215 |
| 19 | 220 | 214 | 212 | 210 | 213 | 215 | 226 | 238 | 238 | 246 | 242 | 243 | 232 | 214 | 209 | 203 | 194 | 191 | 190 | 199 | 202 | 207 | 208 | 214 | 5179 | 216 | 5396 | 216 |
| 20 | 216 | 215 | 220 | 218 | 222 | 228 | 233 | 233 | 240 | 241 | 246 | 242 | 237 | 229 | 222 | 211 | 198 | 192 | 189 | 189 | 190 | 189 | 190 | 197 | 5189 | 216 | 5390 | 216 |
| 21 | 201 | 211 | 212 | 220 | 224 | 224 | 229 | 230 | 231 | 230 | 229 | 233 | 228 | 224 | 217 | 212 | 201 | 192 | 186 | 176 | 172 | 170 | 172 | 175 | 4998 | 208 | 5188 | 208 |
| 22 | 190 | 196 | 210 | 224 | 231 | 235 | 239 | 237 | 232 | 232 | 233 | 236 | 231 | 230 | 232 | 226 | 219 | 208 | 195 | 181 | 170 | 165 | 158 | 167 | 5076 | 212 | 5250 | 210 |
| 23 | 174 | 187 | 201 | 217 | 228 | 236 | 238 | 231 | 228 | 224 | 219 | 220 | 220 | 221 | 227 | 222 | 219 | 210 | 195 | 179 | 162 | 149 | 144 | 141 | 4893 | 204 | 5047 | 202 |
| 24 | 154 | 168 | 183 | 206 | 220 | 232 | 236 | 233 | 226 | 219 | 214 | 213 | 215 | 221 | 227 | 231 | 228 | 221 | 212 | 192 | 172 | 154 | 140 | 137 | 4856 | 202 | 5001 | 200 |
| 25 | 145 | 157 | 179 | 204 | 221 | 240 | 245 | 244 | 240 | 230 | 220 | 219 | 220 | 226 | 236 | 244 | 249 | 245 | 234 | 218 | 193 | 169 | 152 | 139 | 5068 | 211 | 5210 | 208 |
| 26 | 143 | 156 | 177 | 200 | 225 | 242 | 251 | 252 | 246 | 236 | 225 | 219 | 217 | 222 | 236 | 249 | 255 | 256 | 251 | 236 | 211 | 185 | 163 | 147 | 5202 | 217 | 5346 | 214 |
| 27 | 145 | 154 | 178 | 202 | 226 | 249 | 263 | 265 | 260 | 248 | 236 | 227 | 223 | 229 | 240 | 257 | 274 | 275 | 273 | 263 | 236 | 211 | 182 | 168 | 5483 | 228 | 5640 | 226 |
| 28 | 157 | 162 | 181 | 206 | 234 | 257 | 275 | 280 | 276 | 265 | 251 | 239 | 232 | 237 | 247 | 264 | 279 | 293 | 293 | 289 | 269 | 240 | 212 | 186 | 5823 | 243 | 5996 | 240 |
| 29 | 174 | 171 | 181 | 203 | 229 | 254 | 270 | 282 | 275 | 259 | 247 | 230 | 218 | 215 | 217 | 236 | 250 | 265 | 270 | 269 | 255 | 233 | 205 | 178 | 5587 | 233 | 5747 | 230 |
| 30 | 160 | 153 | 159 | 173 | 200 | 223 | 241 | 253 | 257 | 247 | 234 | 219 | 205 | 196 | 199 | 211 | 228 | 246 | 258 | 264 | 256 | 241 | 217 | 193 | 5234 | 218 | 5404 | 216 |
| 31 | 171 | 159 | 159 | 172 | 191 | 213 | 233 | 249 | 251 | 246 | 234 | 217 | 202 | 189 | 190 | 194 | 210 | 231 | 246 | 255 | 257 | 247 | 230 | 208 | 5155 | 215 | 5348 | 214 |
| 1 | 193 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | 214.2cm | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : Aug. 1-Aug. 31 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|------|-------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN |
| 1 | 193 | 177 | 174 | 178 | 190 | 214 | 232 | 243 | 251 | 249 | 237 | 220 | 204 | 192 | 178 | 177 | 187 | 201 | 214 | 228 | 232 | 230 | 219 | 206 | 5025 | 209 | 5216 | 209 |
| 2 | 190 | 177 | 168 | 165 | 178 | 193 | 204 | 216 | 225 | 226 | 215 | 205 | 187 | 171 | 159 | 153 | 153 | 166 | 180 | 192 | 204 | 205 | 204 | 195 | 4532 | 189 | 4720 | 189 |
| 3 | 187 | 182 | 177 | 174 | 176 | 188 | 202 | 212 | 216 | 221 | 222 | 213 | 200 | 189 | 177 | 165 | 161 | 165 | 175 | 185 | 195 | 202 | 207 | 215 | 4607 | 192 | 4820 | 193 |
| 4 | 214 | 212 | 211 | 213 | 211 | 219 | 224 | 231 | 236 | 237 | 234 | 231 | 220 | 208 | 196 | 183 | 179 | 171 | 172 | 177 | 182 | 190 | 195 | 204 | 4949 | 206 | 5156 | 206 |
| 5 | 208 | 216 | 223 | 225 | 225 | 228 | 233 | 236 | 232 | 236 | 238 | 231 | 226 | 224 | 212 | 202 | 189 | 180 | 167 | 166 | 167 | 167 | 174 | 183 | 4988 | 208 | 5186 | 207 |
| 6 | 198 | 214 | 228 | 241 | 247 | 246 | 248 | 248 | 247 | 244 | 245 | 245 | 246 | 243 | 242 | 229 | 218 | 204 | 187 | 174 | 163 | 156 | 153 | 164 | 5226 | 218 | 5408 | 216 |
| 7 | 182 | 199 | 217 | 235 | 247 | 253 | 249 | 246 | 237 | 232 | 229 | 228 | 229 | 230 | 236 | 230 | 221 | 209 | 185 | 167 | 144 | 128 | 120 | 124 | 4978 | 207 | 5118 | 205 |
| 8 | 141 | 160 | 186 | 210 | 229 | 242 | 247 | 242 | 229 | 220 | 215 | 216 | 218 | 224 | 234 | 241 | 239 | 232 | 216 | 192 | 163 | 142 | 126 | 118 | 4883 | 203 | 5010 | 200 |
| 9 | 127 | 149 | 174 | 204 | 230 | 248 | 256 | 253 | 242 | 229 | 218 | 213 | 214 | 223 | 237 | 248 | 253 | 255 | 245 | 220 | 192 | 158 | 135 | 118 | 5041 | 210 | 5158 | 206 |
| 10 | 117 | 132 | 158 | 184 | 215 | 238 | 251 | 248 | 239 | 222 | 207 | 196 | 196 | 203 | 220 | 237 | 252 | 259 | 258 | 243 | 214 | 181 | 149 | 126 | 4946 | 206 | 5065 | 203 |
| 11 | 119 | 126 | 142 | 171 | 202 | 226 | 244 | 248 | 240 | 226 | 207 | 191 | 182 | 187 | 206 | 225 | 248 | 264 | 266 | 260 | 241 | 209 | 175 | 150 | 4955 | 206 | 5085 | 203 |
| 12 | 130 | 127 | 139 | 164 | 186 | 211 | 229 | 239 | 233 | 215 | 194 | 176 | 162 | 157 | 169 | 190 | 212 | 233 | 245 | 248 | 238 | 217 | 186 | 157 | 4657 | 194 | 4797 | 192 |
| 13 | 140 | 129 | 134 | 153 | 179 | 199 | 219 | 232 | 232 | 223 | 202 | 185 | 170 | 161 | 165 | 183 | 211 | 233 | 250 | 262 | 261 | 250 | 225 | 205 | 4805 | 200 | 4988 | 200 |
| 14 | 183 | 172 | 172 | 183 | 205 | 228 | 244 | 254 | 260 | 252 | 234 | 215 | 195 | 180 | 176 | 183 | 203 | 221 | 244 | 254 | 260 | 252 | 238 | 218 | 5228 | 218 | 5430 | 217 |
| 15 | 202 | 192 | 185 | 191 | 208 | 225 | 237 | 254 | 260 | 252 | 240 | 221 | 199 | 187 | 180 | 180 | 186 | 204 | 221 | 238 | 246 | 243 | 241 | 226 | 5218 | 217 | 5434 | 217 |
| 16 | 215 | 201 | 196 | 202 | 211 | 224 | 239 | 249 | 253 | 251 | 244 | 225 | 203 | 187 | 179 | 172 | 173 | 188 | 199 | 211 | 222 | 229 | 224 | 220 | 5118 | 213 | 5334 | 213 |
| 17 | 215 | 212 | 204 | 211 | 218 | 231 | 238 | 252 | 252 | 256 | 252 | 240 | 230 | 215 | 201 | 196 | 196 | 198 | 205 | 217 | 226 | 229 | 230 | 234 | 5360 | 223 | 5592 | 224 |
| 18 | 232 | 231 | 234 | 235 | 242 | 244 | 255 | 262 | 261 | 261 | 255 | 252 | 237 | 225 | 215 | 205 | 196 | 193 | 194 | 195 | 201 | 200 | 202 | 206 | 5434 | 226 | 5643 | 226 |
| 19 | 209 | 213 | 218 | 225 | 229 | 234 | 239 | 240 | 242 | 239 | 238 | 232 | 221 | 217 | 210 | 198 | 191 | 185 | 181 | 179 | 171 | 174 | 176 | 178 | 5037 | 210 | 5224 | 209 |
| 20 | 187 | 198 | 207 | 218 | 226 | 230 | 236 | 236 | 231 | 230 | 230 | 226 | 223 | 218 | 215 | 208 | 206 | 195 | 186 | 176 | 167 | 164 | 163 | 167 | 4945 | 206 | 5123 | 205 |
| 21 | 179 | 191 | 206 | 218 | 229 | 235 | 240 | 238 | 232 | 228 | 223 | 223 | 225 | 227 | 228 | 231 | 225 | 216 | 204 | 192 | 178 | 166 | 161 | 162 | 5058 | 211 | 5232 | 209 |
| 22 | 174 | 187 | 205 | 223 | 237 | 248 | 249 | 242 | 237 | 230 | 223 | 223 | 223 | 227 | 238 | 237 | 233 | 228 | 216 | 202 | 179 | 163 | 153 | 154 | 5132 | 214 | 5294 | 212 |
| 23 | 162 | 176 | 195 | 217 | 235 | 247 | 248 | 245 | 232 | 224 | 217 | 213 | 213 | 223 | 230 | 241 | 242 | 238 | 230 | 212 | 187 | 167 | 150 | 147 | 5090 | 212 | 5242 | 210 |
| 24 | 151 | 169 | 186 | 215 | 237 | 250 | 254 | 252 | 241 | 226 | 218 | 209 | 213 | 219 | 235 | 244 | 251 | 256 | 248 | 228 | 204 | 178 | 150 | 143 | 5179 | 216 | 5323 | 213 |
| 25 | 145 | 153 | 173 | 201 | 222 | 238 | 244 | 243 | 230 | 213 | 197 | 187 | 182 | 193 | 209 | 227 | 239 | 249 | 248 | 234 | 211 | 183 | 160 | 143 | 4922 | 205 | 5058 | 202 |
| 26 | 136 | 144 | 165 | 188 | 212 | 232 | 243 | 238 | 227 | 214 | 192 | 179 | 173 | 182 | 197 | 217 | 240 | 254 | 258 | 256 | 237 | 210 | 185 | 166 | 4945 | 206 | 5104 | 204 |
| 27 | 159 | 163 | 182 | 209 | 233 | 253 | 268 | 271 | 255 | 237 | 215 | 201 | 185 | 184 | 200 | 219 | 243 | 260 | 273 | 273 | 258 | 232 | 203 | 178 | 5355 | 223 | 5515 | 221 |
| 28 | 160 | 156 | 162 | 183 | 207 | 227 | 245 | 248 | 240 | 220 | 203 | 181 | 165 | 160 | 167 | 187 | 214 | 235 | 249 | 261 | 254 | 233 | 211 | 184 | 4952 | 206 | 5120 | 205 |
| 29 | 168 | 158 | 162 | 178 | 201 | 225 | 242 | 248 | 244 | 229 | 213 | 188 | 170 | 159 | 159 | 175 | 197 | 219 | 239 | 252 | 253 | 246 | 225 | 207 | 4957 | 207 | 5148 | 206 |
| 30 | 190 | 177 | 175 | 183 | 201 | 221 | 236 | 245 | 243 | 233 | 215 | 189 | 171 | 155 | 149 | 154 | 174 | 192 | 214 | 229 | 238 | 237 | 225 | 216 | 4862 | 203 | 5066 | 203 |
| 31 | 204 | 189 | 187 | 192 | 205 | 222 | 238 | 249 | 251 | 244 | 235 | 215 | 195 | 181 | 169 | 164 | 179 | 191 | 210 | 228 | 239 | 248 | 245 | 241 | 5121 | 213 | 5357 | 214 |
| 1 | 236 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | 209.0cm | | | |

Station : SYOWA STATION
 Latitude : 69° 00' 28" S
 Longitude : 39° 34' 13" E
 Duration : Sep. 1-Sep. 30 1995
 Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------|-------|------|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN | |
| 1 | 236 | 226 | 226 | 230 | 234 | 248 | 260 | 270 | 269 | 268 | 257 | 239 | 219 | 205 | 187 | 181 | 179 | 183 | 191 | 204 | 217 | 225 | 228 | 232 | 5414 | 226 | 5646 | 226 | |
| 2 | 232 | 233 | 236 | 236 | 241 | 250 | 254 | 262 | 267 | 262 | 256 | 247 | 233 | 219 | 206 | 193 | 186 | 183 | 185 | 189 | 199 | 205 | 215 | 223 | 5413 | 226 | 5642 | 226 | |
| 3 | 229 | 239 | 248 | 249 | 250 | 256 | 259 | 260 | 261 | 257 | 253 | 250 | 240 | 231 | 224 | 212 | 199 | 190 | 180 | 178 | 175 | 179 | 185 | 193 | 5396 | 225 | 5605 | 224 | |
| 4 | 209 | 222 | 235 | 247 | 253 | 251 | 253 | 249 | 245 | 246 | 243 | 242 | 238 | 239 | 234 | 227 | 217 | 203 | 189 | 177 | 166 | 161 | 163 | 171 | 5279 | 220 | 5463 | 219 | |
| 5 | 184 | 208 | 227 | 244 | 255 | 258 | 255 | 251 | 245 | 239 | 235 | 236 | 240 | 245 | 250 | 248 | 242 | 228 | 215 | 191 | 172 | 158 | 149 | 153 | 5328 | 222 | 5495 | 220 | |
| 6 | 167 | 184 | 209 | 234 | 248 | 252 | 254 | 243 | 229 | 218 | 212 | 211 | 217 | 224 | 237 | 243 | 249 | 244 | 227 | 204 | 179 | 154 | 139 | 135 | 5112 | 213 | 5257 | 210 | |
| 7 | 145 | 163 | 187 | 216 | 238 | 251 | 251 | 240 | 225 | 208 | 197 | 193 | 199 | 213 | 230 | 250 | 260 | 260 | 251 | 231 | 202 | 174 | 152 | 141 | 5076 | 212 | 5219 | 209 | |
| 8 | 143 | 156 | 183 | 208 | 233 | 248 | 251 | 240 | 225 | 206 | 189 | 177 | 179 | 195 | 217 | 240 | 257 | 267 | 264 | 252 | 225 | 198 | 172 | 157 | 5083 | 212 | 5230 | 209 | |
| 9 | 148 | 161 | 183 | 209 | 234 | 254 | 260 | 255 | 240 | 216 | 195 | 179 | 173 | 183 | 207 | 229 | 253 | 269 | 276 | 269 | 249 | 221 | 194 | 170 | 5226 | 218 | 5384 | 215 | |
| 10 | 158 | 159 | 174 | 198 | 224 | 242 | 253 | 250 | 233 | 213 | 186 | 168 | 157 | 158 | 176 | 206 | 230 | 252 | 265 | 267 | 254 | 232 | 206 | 182 | 5044 | 210 | 5212 | 208 | |
| 11 | 168 | 164 | 176 | 195 | 218 | 241 | 252 | 249 | 239 | 223 | 196 | 171 | 158 | 150 | 163 | 184 | 211 | 236 | 257 | 266 | 262 | 245 | 225 | 205 | 5055 | 211 | 5242 | 210 | |
| 12 | 187 | 178 | 187 | 203 | 224 | 244 | 259 | 259 | 256 | 236 | 214 | 189 | 171 | 159 | 164 | 180 | 200 | 228 | 246 | 258 | 263 | 252 | 236 | 220 | 5215 | 217 | 5420 | 217 | |
| 13 | 205 | 197 | 198 | 208 | 223 | 242 | 254 | 256 | 251 | 239 | 215 | 193 | 172 | 156 | 154 | 161 | 178 | 198 | 217 | 231 | 241 | 236 | 225 | 216 | 5067 | 211 | 5275 | 211 | |
| 14 | 208 | 205 | 207 | 217 | 228 | 246 | 262 | 270 | 269 | 264 | 246 | 225 | 207 | 194 | 187 | 185 | 195 | 212 | 228 | 241 | 247 | 250 | 240 | 237 | 5468 | 228 | 5702 | 228 | |
| 15 | 234 | 232 | 229 | 235 | 244 | 252 | 260 | 269 | 263 | 258 | 247 | 228 | 210 | 197 | 187 | 182 | 185 | 190 | 203 | 214 | 217 | 223 | 223 | 221 | 5405 | 225 | 5621 | 225 | |
| 16 | 216 | 220 | 220 | 226 | 233 | 240 | 249 | 252 | 251 | 246 | 241 | 228 | 214 | 201 | 196 | 189 | 185 | 190 | 199 | 203 | 209 | 216 | 220 | 223 | 5267 | 219 | 5491 | 220 | |
| 17 | 223 | 230 | 239 | 244 | 249 | 255 | 261 | 262 | 263 | 256 | 251 | 245 | 237 | 225 | 221 | 215 | 207 | 205 | 205 | 204 | 207 | 207 | 209 | 216 | 5535 | 231 | 5755 | 230 | |
| 18 | 219 | 229 | 235 | 244 | 251 | 253 | 252 | 254 | 249 | 245 | 240 | 234 | 227 | 225 | 223 | 219 | 210 | 206 | 201 | 192 | 189 | 189 | 189 | 191 | 5369 | 224 | 5571 | 223 | |
| 19 | 202 | 216 | 227 | 235 | 246 | 249 | 247 | 246 | 237 | 233 | 230 | 226 | 228 | 227 | 227 | 230 | 228 | 218 | 207 | 195 | 188 | 180 | 180 | 186 | 5288 | 220 | 5484 | 219 | |
| 20 | 196 | 213 | 227 | 239 | 251 | 256 | 255 | 247 | 234 | 227 | 223 | 222 | 223 | 230 | 238 | 242 | 243 | 233 | 220 | 208 | 191 | 179 | 172 | 177 | 5347 | 223 | 5530 | 221 | |
| 21 | 184 | 203 | 223 | 239 | 252 | 258 | 254 | 246 | 233 | 221 | 215 | 214 | 217 | 228 | 243 | 251 | 253 | 252 | 241 | 222 | 203 | 184 | 173 | 173 | 5383 | 224 | 5565 | 223 | |
| 22 | 183 | 198 | 220 | 241 | 257 | 266 | 264 | 251 | 234 | 220 | 208 | 203 | 209 | 218 | 237 | 254 | 262 | 264 | 252 | 236 | 211 | 187 | 168 | 162 | 5406 | 225 | 5573 | 223 | |
| 23 | 167 | 180 | 201 | 226 | 244 | 252 | 251 | 244 | 221 | 203 | 186 | 177 | 184 | 196 | 216 | 238 | 254 | 264 | 259 | 245 | 224 | 196 | 174 | 162 | 5164 | 215 | 5325 | 213 | |
| 24 | 160 | 174 | 194 | 217 | 242 | 253 | 258 | 245 | 222 | 204 | 184 | 168 | 168 | 177 | 201 | 231 | 251 | 268 | 272 | 263 | 244 | 217 | 189 | 173 | 5175 | 216 | 5340 | 214 | |
| 25 | 165 | 170 | 191 | 216 | 239 | 254 | 258 | 252 | 231 | 206 | 184 | 163 | 156 | 164 | 184 | 213 | 238 | 259 | 271 | 272 | 260 | 236 | 209 | 189 | 5181 | 216 | 5360 | 214 | |
| 26 | 179 | 178 | 193 | 216 | 238 | 253 | 262 | 257 | 239 | 217 | 192 | 168 | 156 | 154 | 173 | 200 | 227 | 255 | 274 | 279 | 279 | 257 | 236 | 217 | 5299 | 221 | 5501 | 220 | |
| 27 | 202 | 199 | 212 | 226 | 249 | 270 | 276 | 275 | 262 | 240 | 211 | 184 | 168 | 159 | 161 | 182 | 208 | 232 | 254 | 269 | 272 | 262 | 246 | 228 | 5445 | 227 | 5656 | 226 | |
| 28 | 211 | 206 | 207 | 220 | 240 | 256 | 264 | 263 | 253 | 238 | 213 | 184 | 159 | 146 | 146 | 156 | 173 | 197 | 220 | 239 | 250 | 251 | 240 | 232 | 5163 | 215 | 5386 | 215 | |
| 29 | 222 | 214 | 212 | 219 | 231 | 245 | 257 | 261 | 254 | 243 | 223 | 197 | 177 | 155 | 147 | 148 | 157 | 175 | 193 | 210 | 223 | 234 | 231 | 225 | 5054 | 211 | 5275 | 211 | |
| 30 | 221 | 217 | 217 | 218 | 228 | 240 | 249 | 251 | 249 | 245 | 226 | 208 | 186 | 169 | 156 | 149 | 149 | 157 | 171 | 184 | 196 | 206 | 211 | 214 | 4916 | 205 | 5134 | 205 | |
| 1 | 218 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | | 218.9cm | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : Oct. 1-Oct. 31 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|------|-------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN |
| 1 | 219 | 217 | 221 | 222 | 225 | 234 | 240 | 244 | 245 | 242 | 235 | 224 | 209 | 197 | 186 | 181 | 174 | 176 | 182 | 186 | 196 | 201 | 216 | 226 | 5098 | 212 | 5328 | 213 |
| 2 | 230 | 239 | 245 | 250 | 253 | 253 | 254 | 255 | 253 | 249 | 245 | 238 | 234 | 225 | 218 | 209 | 197 | 189 | 187 | 181 | 183 | 185 | 193 | 205 | 5369 | 224 | 5584 | 223 |
| 3 | 216 | 226 | 240 | 247 | 250 | 250 | 244 | 238 | 234 | 231 | 227 | 225 | 226 | 228 | 225 | 222 | 216 | 202 | 188 | 176 | 168 | 162 | 163 | 175 | 5179 | 216 | 5368 | 215 |
| 4 | 188 | 206 | 220 | 234 | 241 | 241 | 232 | 222 | 216 | 210 | 210 | 208 | 217 | 228 | 235 | 239 | 239 | 227 | 212 | 194 | 177 | 165 | 161 | 168 | 5090 | 212 | 5269 | 211 |
| 5 | 179 | 197 | 216 | 233 | 243 | 245 | 234 | 220 | 207 | 193 | 190 | 191 | 202 | 218 | 233 | 244 | 249 | 242 | 231 | 210 | 186 | 167 | 156 | 155 | 5041 | 210 | 5206 | 208 |
| 6 | 164 | 181 | 200 | 219 | 232 | 236 | 229 | 210 | 187 | 171 | 160 | 157 | 165 | 186 | 205 | 224 | 235 | 237 | 229 | 212 | 188 | 163 | 150 | 145 | 4687 | 195 | 4835 | 193 |
| 7 | 148 | 166 | 188 | 208 | 224 | 232 | 224 | 207 | 188 | 169 | 149 | 144 | 155 | 175 | 200 | 227 | 247 | 257 | 258 | 245 | 221 | 196 | 178 | 165 | 4772 | 199 | 4939 | 198 |
| 8 | 167 | 179 | 200 | 219 | 238 | 249 | 241 | 227 | 203 | 180 | 160 | 146 | 146 | 165 | 191 | 218 | 243 | 257 | 263 | 259 | 240 | 215 | 196 | 180 | 4981 | 208 | 5156 | 206 |
| 9 | 175 | 185 | 204 | 222 | 242 | 253 | 252 | 241 | 217 | 190 | 165 | 146 | 139 | 150 | 175 | 203 | 231 | 253 | 265 | 267 | 254 | 234 | 215 | 201 | 5078 | 212 | 5269 | 211 |
| 10 | 190 | 194 | 210 | 229 | 246 | 261 | 263 | 253 | 233 | 206 | 179 | 155 | 142 | 144 | 161 | 188 | 215 | 237 | 253 | 261 | 254 | 239 | 221 | 206 | 5142 | 214 | 5339 | 214 |
| 11 | 196 | 195 | 203 | 222 | 239 | 255 | 257 | 250 | 234 | 212 | 184 | 158 | 141 | 138 | 146 | 166 | 193 | 218 | 237 | 246 | 248 | 240 | 222 | 211 | 5010 | 209 | 5213 | 209 |
| 12 | 203 | 199 | 202 | 218 | 234 | 249 | 255 | 254 | 242 | 221 | 200 | 174 | 158 | 150 | 154 | 172 | 194 | 219 | 241 | 255 | 266 | 269 | 263 | 259 | 5252 | 219 | 5505 | 220 |
| 13 | 253 | 247 | 252 | 266 | 277 | 290 | 297 | 301 | 290 | 272 | 255 | 232 | 211 | 202 | 198 | 204 | 219 | 239 | 257 | 271 | 280 | 282 | 273 | 265 | 6132 | 256 | 6395 | 256 |
| 14 | 263 | 262 | 258 | 262 | 273 | 283 | 288 | 287 | 284 | 269 | 252 | 231 | 214 | 199 | 190 | 192 | 197 | 211 | 222 | 234 | 241 | 244 | 245 | 241 | 5843 | 243 | 6082 | 243 |
| 15 | 240 | 237 | 238 | 240 | 248 | 255 | 259 | 257 | 255 | 248 | 235 | 219 | 205 | 189 | 185 | 183 | 184 | 186 | 196 | 208 | 216 | 218 | 221 | 225 | 5347 | 223 | 5573 | 223 |
| 16 | 225 | 230 | 232 | 236 | 244 | 247 | 249 | 251 | 247 | 244 | 236 | 225 | 216 | 208 | 200 | 200 | 196 | 196 | 201 | 208 | 213 | 216 | 221 | 224 | 5364 | 223 | 5595 | 224 |
| 17 | 231 | 240 | 244 | 248 | 252 | 252 | 250 | 248 | 245 | 239 | 233 | 229 | 223 | 219 | 216 | 211 | 206 | 202 | 200 | 198 | 198 | 199 | 205 | 212 | 5398 | 225 | 5616 | 225 |
| 18 | 219 | 225 | 234 | 237 | 243 | 239 | 231 | 228 | 223 | 219 | 215 | 214 | 213 | 217 | 218 | 219 | 211 | 205 | 200 | 189 | 185 | 185 | 189 | 193 | 5148 | 215 | 5354 | 214 |
| 19 | 206 | 220 | 232 | 238 | 243 | 241 | 234 | 223 | 217 | 211 | 206 | 209 | 215 | 220 | 228 | 233 | 231 | 223 | 213 | 202 | 190 | 182 | 182 | 186 | 5185 | 216 | 5384 | 215 |
| 20 | 199 | 215 | 229 | 237 | 245 | 243 | 232 | 220 | 207 | 193 | 188 | 187 | 199 | 210 | 224 | 235 | 237 | 231 | 221 | 205 | 189 | 173 | 167 | 169 | 5057 | 211 | 5237 | 209 |
| 21 | 180 | 194 | 211 | 224 | 232 | 229 | 219 | 199 | 183 | 170 | 156 | 159 | 171 | 186 | 208 | 227 | 237 | 237 | 230 | 213 | 192 | 176 | 163 | 162 | 4759 | 198 | 4932 | 197 |
| 22 | 173 | 191 | 209 | 225 | 239 | 243 | 234 | 219 | 198 | 177 | 164 | 163 | 172 | 191 | 216 | 242 | 257 | 263 | 259 | 247 | 223 | 201 | 185 | 175 | 5066 | 211 | 5245 | 210 |
| 23 | 180 | 195 | 214 | 229 | 245 | 248 | 237 | 217 | 190 | 164 | 142 | 132 | 137 | 155 | 182 | 213 | 237 | 250 | 255 | 247 | 227 | 207 | 186 | 171 | 4859 | 202 | 5032 | 201 |
| 24 | 173 | 186 | 201 | 221 | 238 | 245 | 241 | 223 | 195 | 166 | 138 | 123 | 119 | 136 | 161 | 193 | 223 | 248 | 262 | 262 | 249 | 229 | 210 | 191 | 4835 | 201 | 5020 | 201 |
| 25 | 185 | 193 | 208 | 225 | 244 | 253 | 251 | 239 | 211 | 181 | 150 | 125 | 114 | 118 | 139 | 170 | 202 | 227 | 250 | 258 | 254 | 240 | 224 | 206 | 4867 | 203 | 5064 | 203 |
| 26 | 197 | 199 | 210 | 225 | 242 | 256 | 257 | 249 | 227 | 199 | 167 | 140 | 118 | 114 | 123 | 146 | 176 | 204 | 227 | 244 | 246 | 237 | 225 | 211 | 4839 | 202 | 5038 | 202 |
| 27 | 199 | 195 | 199 | 211 | 226 | 239 | 242 | 239 | 221 | 199 | 168 | 141 | 118 | 103 | 103 | 118 | 140 | 167 | 189 | 211 | 222 | 222 | 219 | 213 | 4506 | 188 | 4711 | 188 |
| 28 | 205 | 200 | 201 | 212 | 226 | 240 | 247 | 248 | 241 | 227 | 204 | 178 | 156 | 138 | 131 | 135 | 148 | 166 | 185 | 203 | 219 | 224 | 227 | 226 | 4788 | 199 | 5010 | 200 |
| 29 | 222 | 217 | 218 | 220 | 230 | 239 | 246 | 249 | 244 | 238 | 221 | 202 | 184 | 165 | 155 | 151 | 152 | 162 | 175 | 188 | 201 | 212 | 219 | 222 | 4932 | 205 | 5154 | 206 |
| 30 | 222 | 225 | 223 | 224 | 228 | 234 | 239 | 241 | 245 | 241 | 236 | 224 | 211 | 200 | 189 | 182 | 178 | 178 | 183 | 189 | 197 | 206 | 217 | 222 | 5135 | 214 | 5364 | 215 |
| 31 | 229 | 234 | 236 | 236 | 233 | 234 | 234 | 233 | 231 | 229 | 226 | 223 | 219 | 211 | 204 | 194 | 185 | 179 | 175 | 175 | 176 | 180 | 190 | 198 | 5064 | 211 | 5272 | 211 |
| 1 | 208 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | 212.1cm | | | |

Station : SYOWA STATION
Latitude : 69° 00' 28" S
Longitude : 39° 34' 13" E
Duration : Nov. 1-Nov. 30 1995
Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|-------|------|-------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN |
| 1 | 208 | 217 | 221 | 225 | 225 | 219 | 214 | 213 | 210 | 210 | 214 | 212 | 217 | 221 | 221 | 217 | 210 | 203 | 194 | 187 | 184 | 182 | 187 | 197 | 5005 | 209 | 5213 | 209 |
| 2 | 208 | 221 | 229 | 234 | 232 | 226 | 214 | 207 | 199 | 198 | 198 | 202 | 214 | 225 | 234 | 240 | 238 | 231 | 218 | 206 | 197 | 189 | 191 | 195 | 5148 | 214 | 5354 | 214 |
| 3 | 207 | 223 | 235 | 242 | 241 | 236 | 221 | 202 | 188 | 180 | 179 | 185 | 196 | 212 | 228 | 242 | 251 | 246 | 231 | 220 | 203 | 190 | 187 | 187 | 5131 | 214 | 5328 | 213 |
| 4 | 197 | 212 | 224 | 235 | 238 | 232 | 220 | 196 | 178 | 163 | 157 | 159 | 171 | 192 | 217 | 237 | 253 | 255 | 249 | 237 | 219 | 204 | 195 | 195 | 5035 | 210 | 5238 | 210 |
| 5 | 203 | 217 | 232 | 248 | 252 | 250 | 237 | 215 | 192 | 170 | 156 | 154 | 165 | 186 | 212 | 236 | 257 | 264 | 263 | 254 | 237 | 219 | 203 | 198 | 5219 | 217 | 5422 | 217 |
| 6 | 203 | 213 | 229 | 245 | 253 | 251 | 241 | 219 | 190 | 163 | 145 | 135 | 140 | 159 | 185 | 212 | 236 | 253 | 258 | 252 | 239 | 223 | 207 | 198 | 5047 | 210 | 5246 | 210 |
| 7 | 198 | 209 | 226 | 241 | 250 | 253 | 247 | 225 | 202 | 171 | 147 | 132 | 129 | 144 | 170 | 197 | 224 | 246 | 255 | 256 | 246 | 230 | 217 | 205 | 5020 | 209 | 5223 | 209 |
| 8 | 203 | 210 | 222 | 239 | 253 | 256 | 251 | 239 | 211 | 182 | 156 | 136 | 127 | 134 | 153 | 181 | 209 | 230 | 246 | 251 | 247 | 235 | 221 | 207 | 4998 | 208 | 5203 | 208 |
| 9 | 205 | 207 | 216 | 231 | 246 | 255 | 255 | 244 | 223 | 195 | 168 | 148 | 132 | 132 | 147 | 170 | 197 | 221 | 241 | 253 | 251 | 243 | 231 | 221 | 5031 | 210 | 5243 | 210 |
| 10 | 212 | 208 | 219 | 233 | 244 | 255 | 256 | 248 | 232 | 210 | 179 | 155 | 137 | 130 | 138 | 154 | 178 | 199 | 219 | 233 | 238 | 233 | 221 | 215 | 4945 | 206 | 5153 | 206 |
| 11 | 208 | 203 | 207 | 219 | 230 | 241 | 246 | 241 | 232 | 216 | 188 | 167 | 146 | 139 | 136 | 149 | 167 | 188 | 204 | 219 | 230 | 230 | 226 | 219 | 4850 | 202 | 5068 | 203 |
| 12 | 218 | 214 | 216 | 223 | 232 | 248 | 253 | 252 | 245 | 229 | 210 | 189 | 171 | 160 | 155 | 161 | 176 | 189 | 205 | 221 | 228 | 233 | 233 | 227 | 5089 | 212 | 5316 | 213 |
| 13 | 226 | 223 | 221 | 225 | 232 | 242 | 248 | 247 | 244 | 237 | 221 | 206 | 189 | 178 | 170 | 172 | 179 | 187 | 201 | 214 | 221 | 227 | 229 | 228 | 5169 | 215 | 5397 | 216 |
| 14 | 228 | 226 | 225 | 224 | 226 | 236 | 238 | 239 | 237 | 231 | 222 | 211 | 198 | 191 | 184 | 182 | 182 | 187 | 194 | 202 | 211 | 219 | 221 | 224 | 5140 | 214 | 5369 | 215 |
| 15 | 229 | 230 | 231 | 230 | 230 | 233 | 233 | 234 | 233 | 229 | 224 | 218 | 209 | 205 | 198 | 194 | 191 | 190 | 192 | 198 | 202 | 208 | 215 | 220 | 5179 | 216 | 5404 | 216 |
| 16 | 225 | 230 | 232 | 231 | 228 | 226 | 222 | 218 | 214 | 212 | 210 | 209 | 206 | 210 | 209 | 205 | 203 | 199 | 195 | 192 | 194 | 197 | 203 | 210 | 5081 | 212 | 5302 | 212 |
| 17 | 221 | 224 | 229 | 230 | 226 | 221 | 213 | 204 | 199 | 192 | 194 | 200 | 205 | 213 | 219 | 221 | 220 | 213 | 204 | 200 | 195 | 193 | 196 | 204 | 5036 | 210 | 5251 | 210 |
| 18 | 215 | 226 | 231 | 235 | 232 | 224 | 212 | 198 | 188 | 180 | 182 | 188 | 196 | 211 | 225 | 232 | 234 | 228 | 218 | 205 | 194 | 189 | 188 | 192 | 5026 | 209 | 5231 | 209 |
| 19 | 205 | 216 | 225 | 233 | 227 | 219 | 205 | 187 | 169 | 157 | 154 | 160 | 174 | 194 | 215 | 233 | 244 | 245 | 235 | 224 | 209 | 200 | 195 | 197 | 4923 | 205 | 5133 | 205 |
| 20 | 210 | 222 | 235 | 244 | 247 | 241 | 223 | 201 | 180 | 162 | 153 | 156 | 172 | 191 | 218 | 244 | 264 | 271 | 265 | 255 | 235 | 220 | 209 | 206 | 5224 | 218 | 5436 | 217 |
| 21 | 212 | 225 | 237 | 247 | 252 | 249 | 230 | 204 | 176 | 152 | 134 | 127 | 137 | 158 | 186 | 219 | 247 | 262 | 266 | 259 | 244 | 225 | 209 | 203 | 5059 | 211 | 5267 | 211 |
| 22 | 208 | 217 | 229 | 244 | 252 | 253 | 239 | 214 | 184 | 152 | 125 | 110 | 113 | 129 | 159 | 193 | 224 | 251 | 265 | 266 | 257 | 243 | 227 | 216 | 4969 | 207 | 5182 | 207 |
| 23 | 213 | 218 | 235 | 248 | 260 | 264 | 257 | 238 | 208 | 175 | 144 | 119 | 108 | 118 | 140 | 169 | 202 | 230 | 252 | 261 | 259 | 249 | 232 | 221 | 5018 | 209 | 5231 | 209 |
| 24 | 213 | 213 | 224 | 242 | 255 | 260 | 260 | 249 | 222 | 189 | 156 | 128 | 107 | 107 | 119 | 142 | 173 | 203 | 228 | 246 | 253 | 249 | 237 | 222 | 4898 | 204 | 5113 | 205 |
| 25 | 215 | 211 | 217 | 230 | 242 | 255 | 258 | 253 | 238 | 213 | 180 | 150 | 126 | 114 | 114 | 129 | 156 | 180 | 204 | 226 | 240 | 242 | 237 | 231 | 4859 | 202 | 5080 | 203 |
| 26 | 221 | 212 | 214 | 225 | 236 | 247 | 254 | 256 | 248 | 229 | 205 | 179 | 153 | 132 | 123 | 127 | 142 | 162 | 184 | 201 | 215 | 223 | 220 | 219 | 4826 | 201 | 5039 | 202 |
| 27 | 213 | 203 | 199 | 199 | 209 | 221 | 227 | 232 | 231 | 221 | 208 | 186 | 164 | 148 | 133 | 128 | 133 | 144 | 160 | 176 | 189 | 202 | 207 | 204 | 4538 | 189 | 4744 | 190 |
| 28 | 206 | 200 | 194 | 188 | 192 | 203 | 208 | 216 | 219 | 217 | 213 | 203 | 190 | 178 | 166 | 157 | 156 | 159 | 167 | 180 | 190 | 201 | 210 | 214 | 4628 | 193 | 4843 | 194 |
| 29 | 216 | 212 | 208 | 203 | 198 | 199 | 203 | 206 | 209 | 211 | 212 | 210 | 203 | 199 | 194 | 186 | 180 | 175 | 175 | 179 | 182 | 191 | 198 | 205 | 4752 | 198 | 4960 | 198 |
| 30 | 208 | 209 | 206 | 200 | 193 | 187 | 179 | 179 | 182 | 183 | 185 | 190 | 194 | 198 | 200 | 201 | 196 | 191 | 187 | 187 | 188 | 190 | 195 | 203 | 4632 | 193 | 4842 | 194 |
| 1 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | 207.6cm | | | | |

Station : SYOWA STATION
 Latitude : 69° 00' 28" S
 Longitude : 39° 34' 13" E
 Duration : Dec. 1-Dec. 31 1995
 Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|---------|-------|------|--|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN | |
| 1 | 210 | 215 | 215 | 213 | 206 | 197 | 187 | 179 | 174 | 171 | 177 | 185 | 193 | 202 | 212 | 218 | 219 | 213 | 208 | 203 | 194 | 193 | 196 | 200 | 4779 | 199 | 4987 | 199 | |
| 2 | 208 | 217 | 219 | 218 | 213 | 204 | 187 | 172 | 163 | 160 | 159 | 165 | 177 | 193 | 211 | 223 | 229 | 232 | 224 | 216 | 209 | 205 | 202 | 207 | 4814 | 201 | 5031 | 201 | |
| 3 | 218 | 228 | 235 | 238 | 238 | 229 | 211 | 194 | 179 | 167 | 164 | 171 | 183 | 203 | 224 | 247 | 258 | 263 | 263 | 252 | 243 | 233 | 227 | 228 | 5298 | 221 | 5536 | 221 | |
| 4 | 237 | 246 | 255 | 260 | 258 | 253 | 235 | 214 | 190 | 170 | 160 | 160 | 170 | 189 | 213 | 236 | 257 | 266 | 265 | 260 | 250 | 235 | 227 | 225 | 5434 | 226 | 5667 | 227 | |
| 5 | 232 | 242 | 252 | 260 | 261 | 257 | 244 | 219 | 193 | 170 | 153 | 145 | 152 | 169 | 194 | 220 | 242 | 257 | 261 | 258 | 248 | 235 | 225 | 221 | 5310 | 221 | 5534 | 221 | |
| 6 | 223 | 232 | 246 | 255 | 259 | 261 | 249 | 226 | 200 | 174 | 152 | 139 | 141 | 155 | 177 | 206 | 231 | 249 | 261 | 262 | 254 | 243 | 231 | 223 | 5250 | 219 | 5470 | 219 | |
| 7 | 221 | 226 | 240 | 252 | 259 | 261 | 255 | 234 | 209 | 180 | 154 | 136 | 130 | 138 | 157 | 187 | 213 | 231 | 247 | 252 | 246 | 237 | 224 | 215 | 5104 | 213 | 5315 | 213 | |
| 8 | 211 | 213 | 223 | 234 | 248 | 256 | 248 | 236 | 213 | 182 | 157 | 134 | 120 | 124 | 140 | 163 | 190 | 215 | 231 | 243 | 243 | 232 | 223 | 214 | 4894 | 204 | 5101 | 204 | |
| 9 | 207 | 207 | 216 | 228 | 241 | 251 | 252 | 241 | 225 | 200 | 173 | 150 | 133 | 130 | 140 | 157 | 184 | 207 | 228 | 243 | 246 | 243 | 233 | 225 | 4960 | 207 | 5178 | 207 | |
| 10 | 218 | 216 | 221 | 231 | 246 | 257 | 261 | 257 | 246 | 224 | 200 | 176 | 157 | 150 | 154 | 168 | 189 | 214 | 234 | 248 | 255 | 256 | 248 | 239 | 5263 | 219 | 5498 | 220 | |
| 11 | 234 | 227 | 228 | 236 | 247 | 258 | 265 | 263 | 257 | 239 | 218 | 194 | 172 | 161 | 160 | 166 | 184 | 203 | 220 | 236 | 246 | 250 | 244 | 237 | 5346 | 223 | 5576 | 223 | |
| 12 | 230 | 223 | 221 | 223 | 231 | 245 | 252 | 257 | 252 | 239 | 223 | 201 | 183 | 171 | 162 | 165 | 176 | 190 | 208 | 223 | 233 | 242 | 239 | 234 | 5224 | 218 | 5454 | 218 | |
| 13 | 230 | 223 | 220 | 219 | 224 | 232 | 240 | 243 | 242 | 236 | 227 | 213 | 197 | 186 | 180 | 178 | 183 | 192 | 205 | 219 | 227 | 232 | 235 | 234 | 5218 | 217 | 5447 | 218 | |
| 14 | 229 | 224 | 218 | 215 | 216 | 218 | 221 | 224 | 227 | 223 | 220 | 213 | 202 | 194 | 188 | 184 | 185 | 189 | 197 | 207 | 213 | 221 | 226 | 226 | 5080 | 212 | 5304 | 212 | |
| 15 | 224 | 222 | 217 | 210 | 205 | 205 | 204 | 206 | 207 | 207 | 208 | 205 | 206 | 204 | 200 | 198 | 197 | 198 | 201 | 206 | 211 | 217 | 223 | 226 | 5007 | 209 | 5236 | 209 | |
| 16 | 229 | 227 | 225 | 220 | 213 | 207 | 200 | 196 | 195 | 197 | 203 | 206 | 212 | 217 | 221 | 225 | 223 | 220 | 214 | 215 | 217 | 219 | 222 | 229 | 5151 | 215 | 5384 | 215 | |
| 17 | 233 | 235 | 234 | 227 | 220 | 209 | 196 | 189 | 183 | 181 | 187 | 193 | 203 | 217 | 227 | 236 | 240 | 237 | 231 | 227 | 223 | 220 | 222 | 225 | 5194 | 216 | 5427 | 217 | |
| 18 | 232 | 238 | 241 | 239 | 232 | 218 | 202 | 185 | 171 | 166 | 166 | 169 | 187 | 206 | 223 | 242 | 251 | 251 | 245 | 235 | 227 | 219 | 216 | 219 | 5179 | 216 | 5402 | 216 | |
| 19 | 223 | 231 | 237 | 237 | 231 | 217 | 197 | 176 | 154 | 137 | 131 | 133 | 149 | 169 | 195 | 222 | 237 | 247 | 244 | 236 | 223 | 210 | 204 | 203 | 4843 | 202 | 5054 | 202 | |
| 20 | 211 | 218 | 226 | 230 | 227 | 220 | 201 | 173 | 146 | 122 | 106 | 104 | 117 | 139 | 168 | 201 | 228 | 247 | 253 | 251 | 238 | 225 | 212 | 210 | 4673 | 195 | 4885 | 195 | |
| 21 | 212 | 223 | 235 | 245 | 249 | 245 | 228 | 203 | 172 | 140 | 115 | 101 | 105 | 122 | 151 | 185 | 218 | 242 | 258 | 260 | 256 | 242 | 229 | 221 | 4856 | 202 | 5077 | 203 | |
| 22 | 221 | 227 | 242 | 256 | 265 | 267 | 260 | 239 | 211 | 175 | 143 | 121 | 112 | 120 | 143 | 176 | 210 | 240 | 263 | 272 | 270 | 258 | 245 | 231 | 5168 | 215 | 5391 | 216 | |
| 23 | 223 | 223 | 234 | 250 | 260 | 266 | 264 | 253 | 224 | 189 | 152 | 124 | 101 | 96 | 112 | 135 | 164 | 197 | 220 | 236 | 244 | 236 | 225 | 213 | 4842 | 202 | 5043 | 202 | |
| 24 | 201 | 198 | 206 | 220 | 236 | 251 | 253 | 250 | 234 | 208 | 176 | 145 | 116 | 104 | 105 | 125 | 150 | 178 | 201 | 224 | 236 | 234 | 226 | 218 | 4694 | 196 | 4901 | 196 | |
| 25 | 207 | 199 | 201 | 212 | 228 | 246 | 257 | 257 | 251 | 233 | 208 | 178 | 152 | 132 | 124 | 133 | 151 | 172 | 192 | 211 | 224 | 230 | 224 | 215 | 4837 | 202 | 5040 | 202 | |
| 26 | 203 | 189 | 186 | 189 | 200 | 220 | 231 | 238 | 243 | 235 | 218 | 198 | 176 | 160 | 151 | 148 | 158 | 175 | 193 | 211 | 225 | 232 | 232 | 227 | 4840 | 202 | 5057 | 202 | |
| 27 | 218 | 206 | 197 | 191 | 197 | 209 | 221 | 231 | 236 | 236 | 231 | 220 | 201 | 189 | 178 | 171 | 173 | 182 | 192 | 207 | 218 | 225 | 227 | 223 | 4981 | 208 | 5198 | 208 | |
| 28 | 218 | 208 | 198 | 189 | 187 | 189 | 196 | 204 | 212 | 215 | 217 | 214 | 206 | 202 | 194 | 189 | 190 | 191 | 198 | 209 | 218 | 223 | 226 | 229 | 4921 | 205 | 5144 | 206 | |
| 29 | 223 | 216 | 209 | 195 | 187 | 185 | 184 | 185 | 191 | 194 | 198 | 202 | 201 | 203 | 202 | 202 | 199 | 201 | 202 | 205 | 210 | 214 | 215 | 220 | 4842 | 202 | 5059 | 202 | |
| 30 | 218 | 213 | 209 | 198 | 187 | 179 | 172 | 168 | 168 | 169 | 174 | 180 | 188 | 194 | 201 | 205 | 211 | 212 | 211 | 213 | 213 | 214 | 216 | 220 | 4730 | 197 | 4952 | 198 | |
| 31 | 222 | 221 | 215 | 212 | 205 | 191 | 181 | 172 | 166 | 164 | 164 | 172 | 182 | 194 | 210 | 221 | 227 | 233 | 231 | 229 | 228 | 226 | 226 | 231 | 4924 | 205 | 5158 | 206 | |
| 1 | 233 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | | 209.2cm | | | |

Station : SYOWA STATION
 Latitude : 69° 00' 28" S
 Longitude : 39° 34' 13" E
 Duration : Jan. 1-Jan. 31 1996
 Unit : CENTIMETER

| Date | Time | | | | | | | | | | | | | | | | | | | | | | | | (24H) | | (25H) | |
|--------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|------|-------|------|
| | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | SUM | MEAN | SUM | MEAN |
| 1 | 233 | 234 | 237 | 233 | 225 | 218 | 201 | 187 | 175 | 164 | 162 | 166 | 176 | 191 | 211 | 225 | 240 | 248 | 249 | 244 | 240 | 234 | 228 | 231 | 5155 | 215 | 5392 | 216 |
| 2 | 237 | 241 | 245 | 246 | 242 | 235 | 220 | 199 | 181 | 167 | 160 | 160 | 168 | 185 | 207 | 228 | 247 | 259 | 263 | 259 | 252 | 245 | 239 | 236 | 5322 | 222 | 5564 | 223 |
| 3 | 242 | 247 | 255 | 259 | 258 | 252 | 237 | 214 | 190 | 171 | 156 | 151 | 156 | 171 | 194 | 220 | 239 | 253 | 260 | 259 | 251 | 242 | 230 | 226 | 5333 | 222 | 5563 | 223 |
| 4 | 230 | 235 | 243 | 249 | 254 | 251 | 237 | 217 | 192 | 164 | 146 | 134 | 136 | 149 | 171 | 196 | 221 | 239 | 251 | 252 | 245 | 235 | 224 | 216 | 5086 | 212 | 5302 | 212 |
| 5 | 216 | 223 | 233 | 246 | 254 | 255 | 247 | 229 | 204 | 176 | 153 | 136 | 132 | 141 | 161 | 187 | 213 | 235 | 252 | 255 | 248 | 238 | 226 | 215 | 5073 | 211 | 5286 | 211 |
| 6 | 213 | 216 | 226 | 237 | 250 | 255 | 253 | 236 | 214 | 187 | 159 | 135 | 125 | 130 | 145 | 173 | 198 | 221 | 240 | 246 | 244 | 234 | 221 | 209 | 4966 | 207 | 5169 | 207 |
| 7 | 202 | 203 | 212 | 226 | 240 | 250 | 250 | 241 | 223 | 195 | 167 | 143 | 127 | 124 | 136 | 159 | 184 | 209 | 228 | 240 | 243 | 233 | 219 | 209 | 4864 | 203 | 5065 | 203 |
| 8 | 200 | 195 | 201 | 213 | 229 | 242 | 248 | 245 | 230 | 206 | 179 | 153 | 134 | 127 | 130 | 148 | 173 | 196 | 218 | 231 | 237 | 232 | 220 | 210 | 4798 | 200 | 4998 | 200 |
| 9 | 199 | 192 | 194 | 205 | 222 | 238 | 246 | 245 | 240 | 224 | 197 | 172 | 154 | 141 | 140 | 153 | 172 | 196 | 218 | 230 | 237 | 237 | 224 | 213 | 4889 | 204 | 5092 | 204 |
| 10 | 203 | 192 | 191 | 195 | 208 | 226 | 234 | 239 | 237 | 226 | 209 | 185 | 163 | 151 | 145 | 152 | 166 | 185 | 206 | 221 | 232 | 232 | 225 | 217 | 4841 | 202 | 5046 | 202 |
| 11 | 205 | 194 | 190 | 190 | 197 | 213 | 225 | 231 | 235 | 229 | 222 | 201 | 186 | 175 | 165 | 168 | 175 | 190 | 208 | 223 | 230 | 233 | 229 | 220 | 4935 | 206 | 5144 | 206 |
| 12 | 209 | 197 | 190 | 187 | 190 | 199 | 210 | 219 | 224 | 225 | 221 | 211 | 201 | 189 | 185 | 182 | 187 | 195 | 208 | 220 | 231 | 236 | 232 | 229 | 4975 | 207 | 5196 | 208 |
| 13 | 221 | 207 | 199 | 188 | 186 | 190 | 192 | 201 | 211 | 214 | 215 | 211 | 204 | 199 | 196 | 193 | 194 | 200 | 206 | 214 | 223 | 226 | 226 | 225 | 4942 | 206 | 5162 | 206 |
| 14 | 220 | 211 | 200 | 191 | 184 | 181 | 177 | 183 | 188 | 190 | 196 | 200 | 201 | 205 | 209 | 209 | 210 | 211 | 213 | 217 | 223 | 225 | 226 | 226 | 4895 | 204 | 5122 | 205 |
| 15 | 226 | 219 | 210 | 202 | 192 | 184 | 176 | 171 | 170 | 172 | 177 | 187 | 195 | 205 | 215 | 222 | 225 | 225 | 225 | 225 | 223 | 223 | 223 | 225 | 4915 | 205 | 5139 | 206 |
| 16 | 225 | 223 | 219 | 213 | 200 | 190 | 174 | 161 | 154 | 150 | 152 | 161 | 173 | 192 | 210 | 223 | 234 | 235 | 233 | 229 | 225 | 223 | 220 | 220 | 4837 | 202 | 5062 | 202 |
| 17 | 225 | 226 | 226 | 223 | 214 | 201 | 182 | 162 | 148 | 133 | 129 | 136 | 150 | 169 | 196 | 219 | 236 | 251 | 248 | 243 | 236 | 229 | 223 | 223 | 4827 | 201 | 5055 | 202 |
| 18 | 227 | 233 | 237 | 241 | 238 | 227 | 208 | 185 | 160 | 136 | 121 | 120 | 130 | 154 | 180 | 210 | 238 | 255 | 263 | 259 | 251 | 238 | 229 | 226 | 4968 | 207 | 5199 | 208 |
| 19 | 230 | 236 | 249 | 257 | 259 | 257 | 242 | 216 | 187 | 156 | 131 | 119 | 121 | 137 | 162 | 195 | 227 | 252 | 267 | 267 | 258 | 246 | 231 | 222 | 5123 | 213 | 5344 | 214 |
| 20 | 222 | 228 | 242 | 254 | 262 | 267 | 258 | 236 | 206 | 169 | 136 | 113 | 101 | 111 | 130 | 160 | 196 | 223 | 242 | 250 | 247 | 231 | 216 | 202 | 4902 | 204 | 5100 | 204 |
| 21 | 197 | 200 | 212 | 230 | 248 | 259 | 259 | 247 | 222 | 189 | 154 | 122 | 103 | 101 | 114 | 143 | 174 | 202 | 227 | 240 | 240 | 230 | 213 | 199 | 4725 | 197 | 4912 | 196 |
| 22 | 187 | 184 | 194 | 215 | 235 | 253 | 264 | 260 | 245 | 220 | 187 | 154 | 129 | 120 | 124 | 144 | 172 | 199 | 224 | 239 | 245 | 237 | 222 | 204 | 4856 | 202 | 5044 | 202 |
| 23 | 189 | 180 | 182 | 197 | 220 | 241 | 255 | 261 | 258 | 239 | 214 | 183 | 157 | 141 | 138 | 150 | 169 | 194 | 217 | 234 | 241 | 239 | 226 | 207 | 4931 | 205 | 5124 | 205 |
| 24 | 192 | 177 | 171 | 180 | 198 | 219 | 235 | 247 | 253 | 248 | 228 | 206 | 184 | 166 | 160 | 165 | 177 | 197 | 220 | 232 | 242 | 244 | 234 | 216 | 4992 | 208 | 5195 | 208 |
| 25 | 203 | 186 | 174 | 174 | 186 | 200 | 217 | 231 | 240 | 241 | 232 | 218 | 202 | 190 | 180 | 179 | 187 | 200 | 215 | 227 | 238 | 238 | 231 | 221 | 5010 | 209 | 5214 | 209 |
| 26 | 204 | 189 | 175 | 164 | 166 | 178 | 190 | 201 | 211 | 214 | 215 | 208 | 198 | 192 | 187 | 186 | 189 | 198 | 209 | 221 | 228 | 230 | 226 | 220 | 4798 | 200 | 5006 | 200 |
| 27 | 208 | 194 | 183 | 173 | 167 | 169 | 175 | 181 | 190 | 195 | 197 | 197 | 195 | 193 | 194 | 197 | 199 | 205 | 211 | 217 | 223 | 225 | 223 | 219 | 4730 | 197 | 4939 | 198 |
| 28 | 209 | 200 | 190 | 179 | 174 | 168 | 165 | 168 | 171 | 173 | 179 | 185 | 190 | 193 | 201 | 209 | 216 | 217 | 222 | 227 | 227 | 227 | 227 | 225 | 4744 | 198 | 4965 | 199 |
| 29 | 222 | 216 | 207 | 200 | 193 | 184 | 174 | 169 | 166 | 164 | 164 | 171 | 178 | 186 | 199 | 208 | 215 | 220 | 223 | 223 | 220 | 216 | 215 | 216 | 4747 | 198 | 4962 | 198 |
| 30 | 215 | 212 | 209 | 204 | 198 | 191 | 179 | 165 | 158 | 152 | 149 | 154 | 161 | 177 | 191 | 205 | 218 | 225 | 228 | 226 | 224 | 217 | 214 | 214 | 4686 | 195 | 4900 | 196 |
| 31 | 215 | 217 | 217 | 216 | 213 | 206 | 192 | 175 | 161 | 152 | 142 | 144 | 151 | 167 | 186 | 203 | 221 | 231 | 235 | 231 | 226 | 219 | 210 | 208 | 4737 | 197 | 4945 | 198 |
| 1 | 208 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MONTHLY MEAN | | | | | | | | | | | | | | | | | | | | | | | | | 205.1cm | | | |