

Preliminary Report  
of  
The Hakuho Maru Cruise KH-87-1  
(WESTPAC)

22 January-10 March 1987

Studies on Deep Circulations in the Western North Pacific  
and in the Philippine Sea

Ocean Research Institute  
University of Tokyo

1988

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. by

The Scientific Members of the Cruise

Edited by

Toshihiko TERAMOTO and Keisuke TAIRA

## Preface

The cruise was designed to investigate deep circulations in the western North Pacific and in the Philippine Sea based on the studies of physical and chemical oceanography. The subtropical gyre is a large clockwise circulation in the upper layer of the whole North Pacific Ocean. The Kuroshio, the western boundary current of the gyre, is originated from the North Equatorial Current, and it begins to flow at an intensified speed in the east of Taiwan. The Kuroshio flows into East China Sea, and then it goes eastward in the south of Kyushu, Shikoku and Honshu. The eastward flow in the east of Izu Ridge is renamed as the Kuroshio Extension. The Kuroshio Extension is connected to the North Pacific Current, which is flowing eastward across the North Pacific Ocean. The current turns southward in the west of the North American Continent, and then it turns westward as the North Equatorial Current.

About 3000 m below the sea surface, Philippine Sea is almost separated from the North Pacific Ocean by long submarine ridges, Izu-Ogasawara Ridge, Mariana Ridge, Yap Ridge and Palau Ridge. Deep circulations are separated under the single subtropical gyre in the surface layer of the North Pacific Ocean. The highest latitude in the Philippine Sea is about 35 N, and the deep water is not formed there. The deep water and bottom water are supplied through deep gaps around the Yap Trench from the Pacific Ocean. The Yap Trench is located at the southeastern corner of Philippine Sea. There are two possible routs for the bottom water to flow into Philippine Sea, one westward

flow to reach the western boundary of the sea, and the other northward flow along the eastern boundary. The former is suggested by a model of abyssal circulations accepted for other oceans, and the latter is anticipated from the westward flow under the Kuroshio, which has been confirmed with moored current meters by Japanese investigators.

The subjects carried out during the cruise are as follows: 1) Direct measurements of deep currents with moorings of current meters on the eastern slope of the Izu-Ogasawara Ridge, in the deepest portion of the Izu-Ogasawara Trench and along the western boundary of the Philippine Sea. 2) The CTD casts along latitudes of 12 N and 13 N from 127 E to 144 E in the Philippine Sea. 3) Moorings of sediment traps in the Shikoku Basin and in the Izu-Ogasawara Trench. 4) Field tests of acoustic instruments. 5) Measurements of heat fluxes. 6) Survey of aerosol distribution in the Philippine Sea.

The cruise was composed with three legs:

Leg 1: 22 January - 6 February 1987, from Tokyo to Guam

Leg 2: 8 February - 19 February 1987, from Guam to Cebu

Leg 3: 25 February - 10 march 1987, from Cebu to Tokyo

The graduate students from Korea, Indonesia and China had participated in the cruise as one of the Westpac Programs.

August 1988

Toshihiko TERAMOTO and Keisuke TAIRA

### Retirement of Professor Toshihiko Teramoto

Dr. Toshihiko Teramoto, the professor of physical oceanography at Ocean Research Institute, University of Tokyo, was retired in March 1987. He had joined the Ocean Research Institute from its start in 1962 as a research associate. He was appointed as the associate professor in 1965, and the professor in 1973. The cruise of KH-87-1 of the R/V Hakuho Maru was a farewell voyage to Professor Teramoto. He is the Professor Emeritus of the University of Tokyo, and works at Kanagawa University. We wish to thank him for his excellent leadership and heartfelt encouragements during the cruise.



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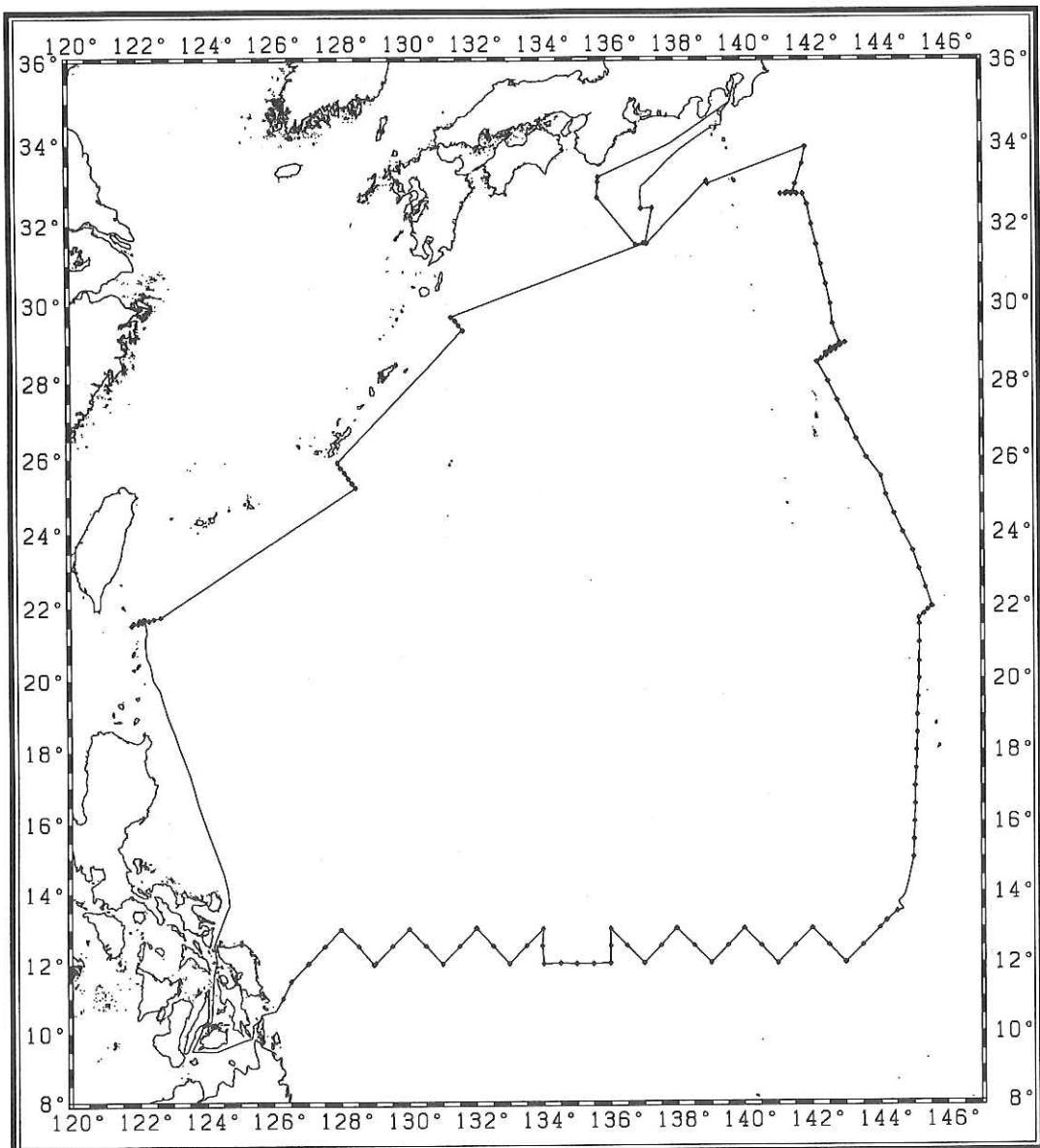
## II. Scientists aboard

Toshihiko TERAMOTO <sup>3)</sup> ,	Ocean Research Institute, University of Tokyo (Chief Scientist)	
Keisuke TAIRA <sup>1,2)</sup> ,	Ocean Research Institute, University of Tokyo (Deputy Chief Scientist for Leg 1 and Leg 2)	
Toshisuke NAKAI,	Ocean Research Institute, University of Tokyo	
Masao FUKASAWA,	Ocean Research Institute, University of Tokyo	
Masaki KAWABE,	Ocean Research Institute, University of Tokyo	
Hirotaka OTOBE,	Ocean Research Institute, University of Tokyo	
Shoji KITAGAWA,	Ocean Research Institute, University of Tokyo	
Masanobu HAMATANI,	Ocean Research Institute, University of Tokyo	
Toshiaki SHINODA,	Ocean Research Institute, University of Tokyo	
YANG, Sung-Kee	Ocean Research Institute, University of Tokyo	
Sunao MASUMITSU,	Ocean Research Institute, University of Tokyo	
Shinichiro NORIKI,	Faculty of Fisheries, Hokkaido University	
Shuichi WATANABE,	Faculty of Fisheries, Hokkaido University	
Yutaka WATANABE,	Faculty of Fisheries, Hokkaido University	
Chizuru SAITO,	Faculty of Fisheries, Hokkaido University	
Yuji KASHINO,	Faculty of Science, Hokkaido University	
Yoshitsugu HAGIHARA,	Faculty of Science, Hirosaki University	
Seiki MATSUMOTO,	Faculty of Science, Hirosaki University	
Kentaro ANDO <sup>1,2)</sup> ,	Faculty of Science,	Tohoku University
XIE, Shangping <sup>1,2)</sup> ,	Faculty of Science,	Tohoku University
Kazuhiro KAWAGUCHI,	Faculty of Science,	Tokyo University
Minoru NAKANO,	Res. Inst. of Atmospherics,	Nagoya University

Yasunori HANAFUSA	Faculty of Science, Kyoto University
ZHANG, Qian <sup>3)</sup> ,	Faculty of Science, Kyoto University
Hiroshi ICHIKAWA <sup>3)</sup> ,	Faculty of Fisheries, Kagoshima University
Irawan MIHARJO,	Faculty of Fisheries, Kagoshima University
Toru YAMASHIRO <sup>2,3)</sup> ,	Faculty of Technology, Kagoshima University
Masoto KATO	Faculty of Technology, Kagoshima University
Toshiya NAKANO,	Nagasaki Marine Observatory, Japan Meteorological Agency
Noriaki MASUNAGA <sup>1)</sup> ,	Fukui Prefectural Fisheries Laboratory
Hideyuki MURAKAMI <sup>1)</sup> ,	Kaiyo-Denshi Ltd.

- 
- 1) Participating Leg 1,
  - 1,2) Participating Leg 1 and Leg 2,
  - 2,3) Participating Leg 2 and Leg 3,
  - 3) Participating Leg 3.

### **III. Track chart of the Cruise KH-87-1**



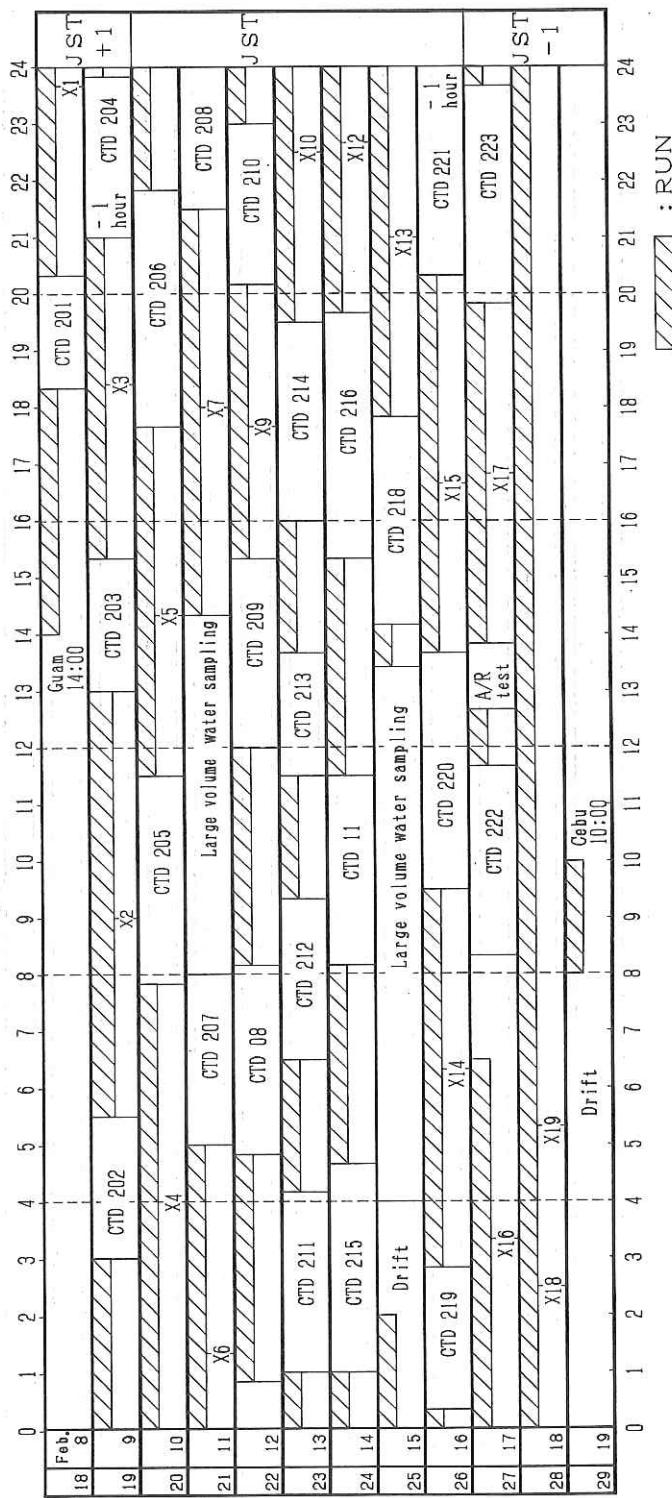
## IV. Time tables of the Cruise

### Leg. 1 Tokyo - Guam

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1	Jan. 22																								
2	23																								
3	24																								
4	25	Heave to																							
5	26	Heave to																							
6	27																								
7	28																								
8	29	X335																							
9	30																								
10	31	X300																							
11	Feb. 1	CTD #9																							
12	2	X280																							
13	3																								
14	4																								
15	5	X170																							
16	6																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

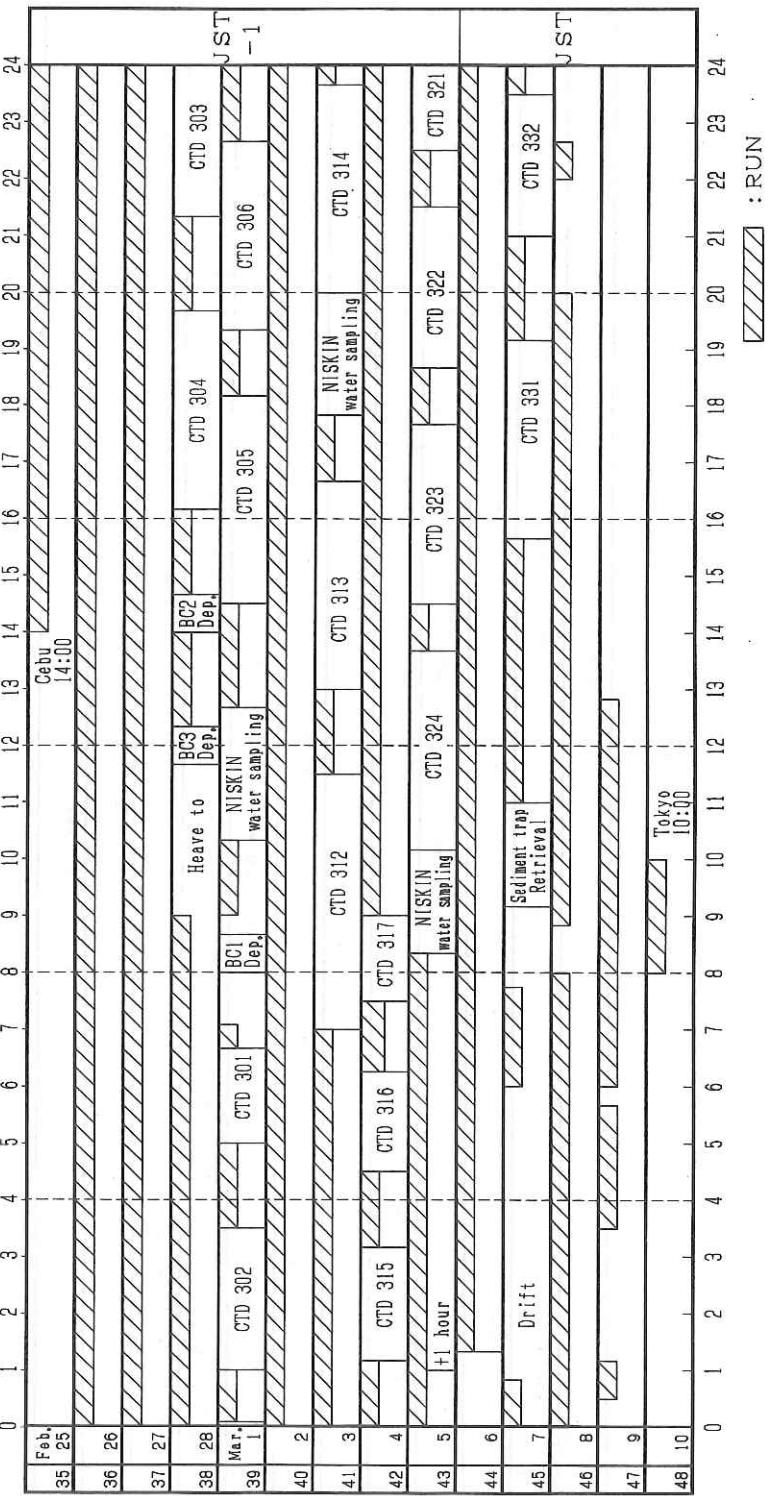
//// : RUN

Leg. 2      Guam-Cebu



□ : RUN

Leg. 3 Cebu-Tokyo



1. Moorings of current meters on the eastern flank of  
the Izu-Ogasawara Ridge and off Basii Channel

Masao FUKASAWA (Ocean Research Institute, University of Tokyo)

Distribution of chemical tracers has suggested that the deep water and bottom water are flowing northward slowly in the wide interior region of the North Pacific Ocean. This may also suggest that an equatorward flow exists along the western boundary of the North Pacific Ocean. The deep western boundary current of the North Pacific has not been confirmed yet by direct measurements. The Izu-Ogasawara Ridge is a western boundary for the deep and bottom waters in the North Pacific.

Four moorings were deployed on the eastern flank of the Izu-Ogasawara Ridge (Fig.1.1) to obtain current information on the expected deep boundary current. Two Aanderaa current meters were attached to each mooring line as shown in Fig.1.3.

The Philippine Sea is separated from the North Pacific Ocean by Izu-Ogasawara Ridge, Mariana Ridge, Yap Ridge and Palau Ridge. Bottom water (North Pacific Bottom Water) can enter into Philippine Sea only through two gaps, one between Mariana Ridge and Yap Ridge, and the other between Yap Ridge and Palau Ridge. Spreading and mixing of the bottom water are forming an abyssal/deep circulation peculiar to the Philippine Basin.

During the present cruise, three moorings were deployed on the eastern shelf-slope of the Basii Channel (Fig.1.2) as one of filed

programs of the ABCDE(Abyssal Boundary Current and Deep water Exchange) group, represented by Prof. M. Chaen of Kagoshima University. The ABCDE is one of major subgroups of the Priority Area Program Dynamics of the Deep Ocean Circulation", sponsored by Ministry of Education, Science and Culture. The shelf-slope off Basii Channel is important to examine continuation of the westward current under the Kuroshio (Fukasawa and Teramoto, 1986; and Fukasawa, et al, 1986). Three moorings were deployed as shown in Fig.1.4.

#### References

- Fukasawa, M. and T. Teramoto (1986): Characteristics of deep current off Cape Shiono-misaki before and after formation of the Large Meander of the Kuroshio in 1981. J. Oceanogr. Soc. Japan, 42, 53-68.
- Fukasawa, M., T. Teramoto and K. Taira (1986): Abyssal current along the northern periphery of Shikoku Basin. J. Oceanogr. Soc. Japan, 42, 459-472.

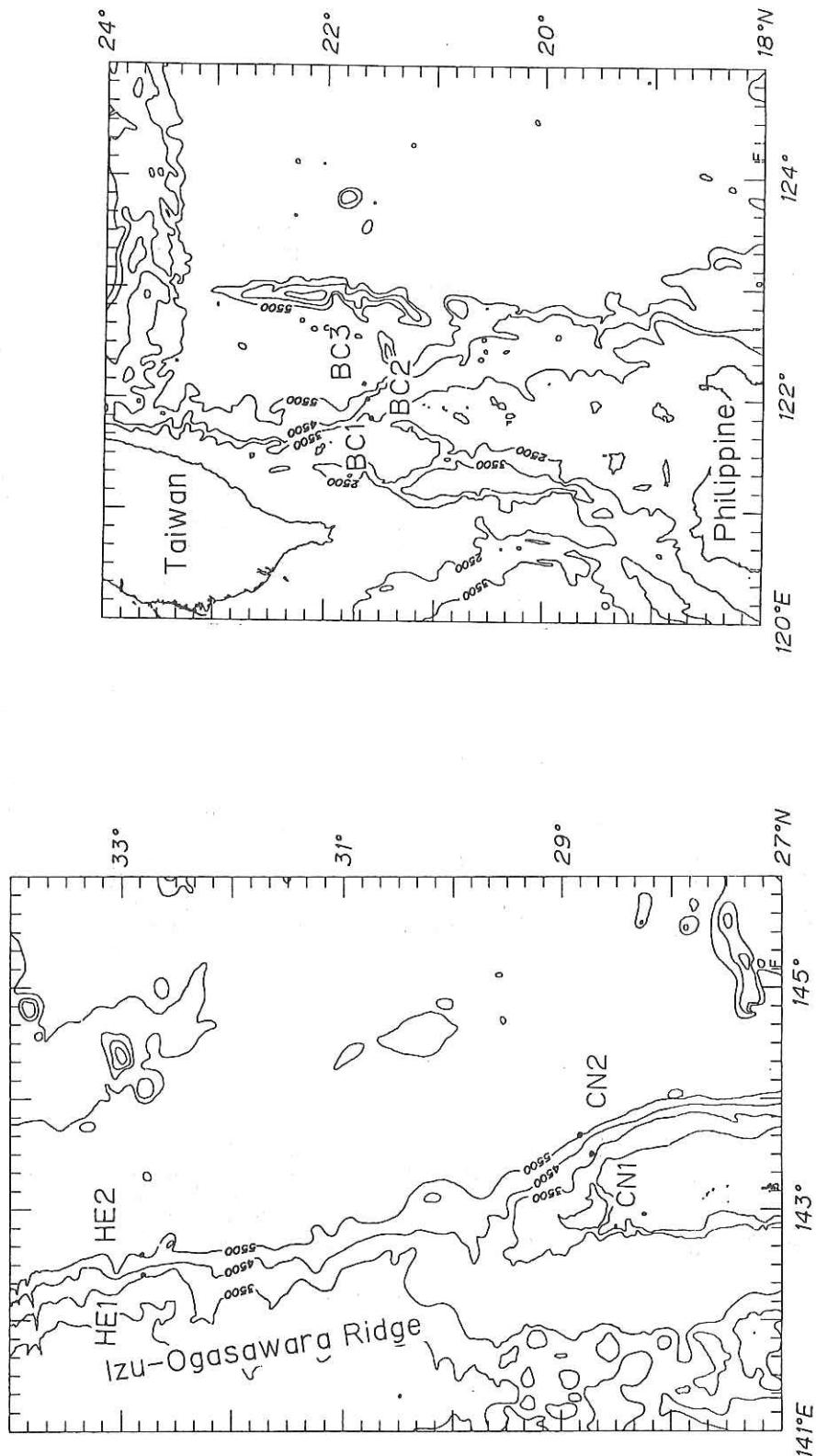


Fig.1.1. Location of mooring stations above the eastern flank of Izu-Ogasawara Ridge.

Fig.1.2. Location of mooring stations above the shelf-slope off the Basii Channel.

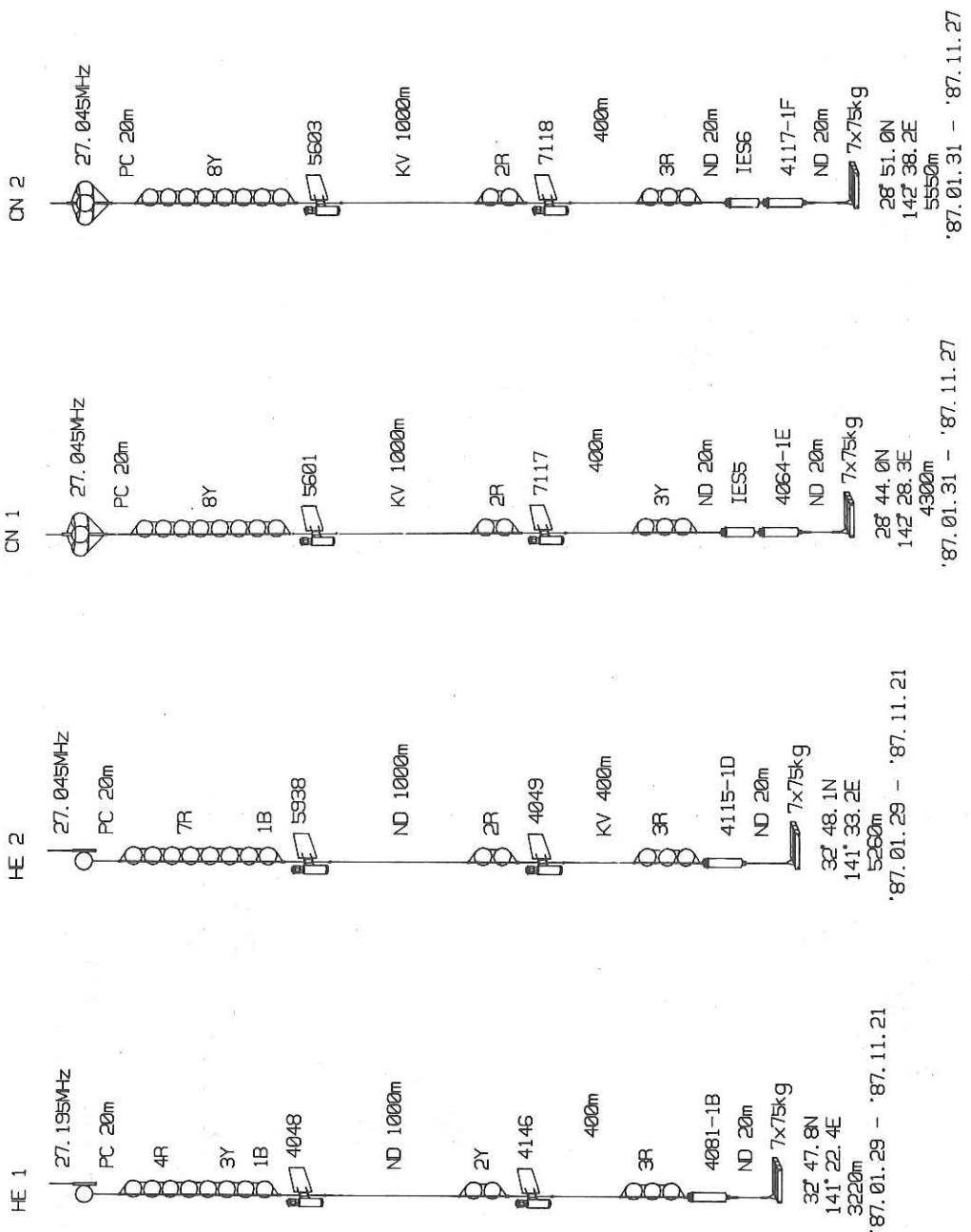


Fig. 1.3. Schematics of mooring lines deployed near the Izu Ridge at the stations shown in Fig. 1.1.

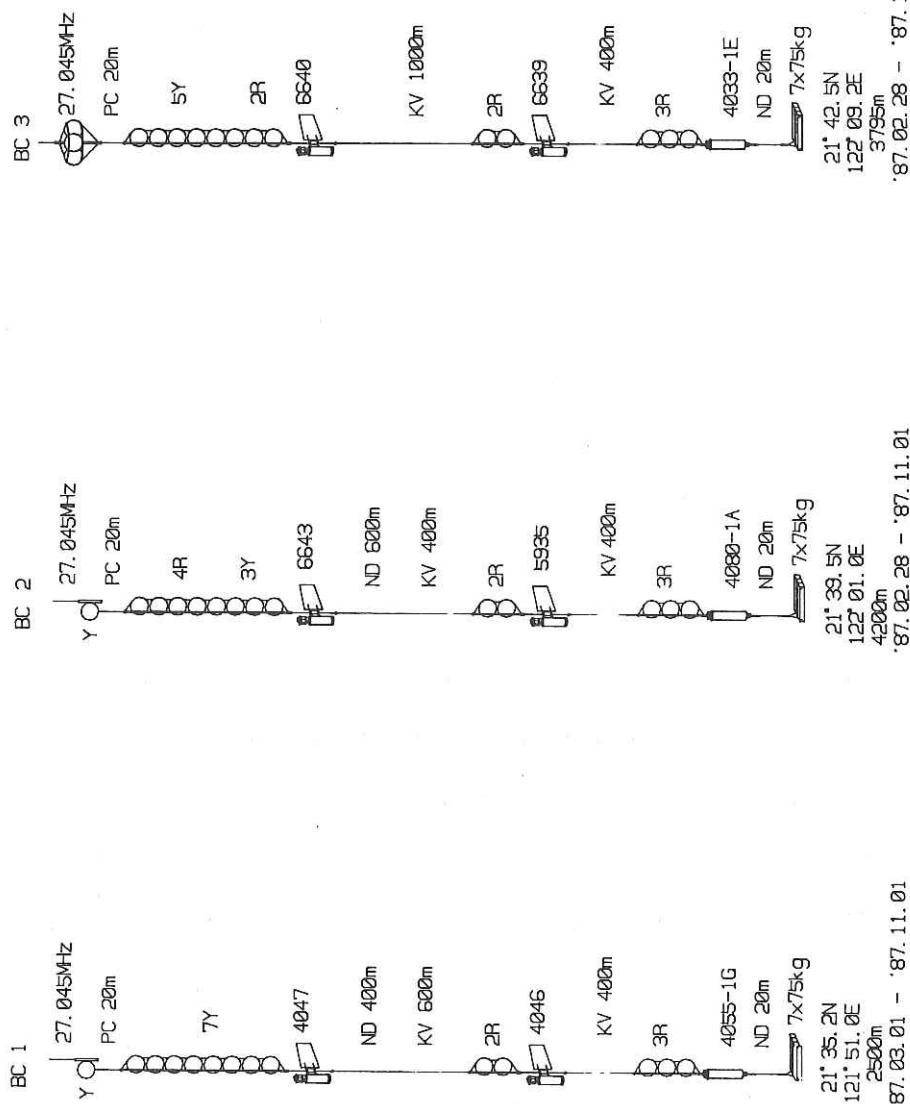


Fig.1.4. Schematics of mooring lines deployed off the Bashi Channel at the stations shown in Fig.1.2.

## 2. Measurements of bottom currents in the Izu-Ogasawara Trench

Keisuke TAIRA (Ocean Research Institute, University of Tokyo)

On 28 January 1987, one long mooring line with three current meters was deployed on the axis of the Izu-Ogasawara Trench at a position of  $33^{\circ}54.8'N$  and  $141^{\circ}54.'E$  where 9205 m deep (Fig.2.1). Because most of oceanographic instruments available on a commercial base are limited to have depth capability upto about 6500 m, an acoustic release and a current meter are newly developed for the mooring at the Division of Physical Oceanography, Ocean Research Institute, University of Tokyo. Deepest trenches are located along the northern and western margins of the North Pacific Ocean as well as the Philippine Sea. Japan Trench and Izu-Ogasawara Trench, both of them with water depth exceeding 9000 m, are located at a distance less than 200 km from Honshu. There was a strong scientific requirement for measurements of the bottom current in the deepest trenches.

Fig.2.2 shows schematically the mooring line deployed in the Izu-Ogasawara Trench. A titanium housing is used for the acoustic release moored at 9186 m depth. The housing was tested at a pressure of  $1100 \text{ kgf/cm}^2$  in the laboratory. An acoustic transducer of narrow-beam was used both for the underwater unit and the shipboard unit. Three current meters were set at depth of 9185 m, 8385 m and 7585 m. The current meter was designed and assembled by Shoji Kitagawa (Ocean Research Institute, University of Tokyo). A titanium housing 40.0 cm long and 8.6 cm in diameter is used for the pressure case

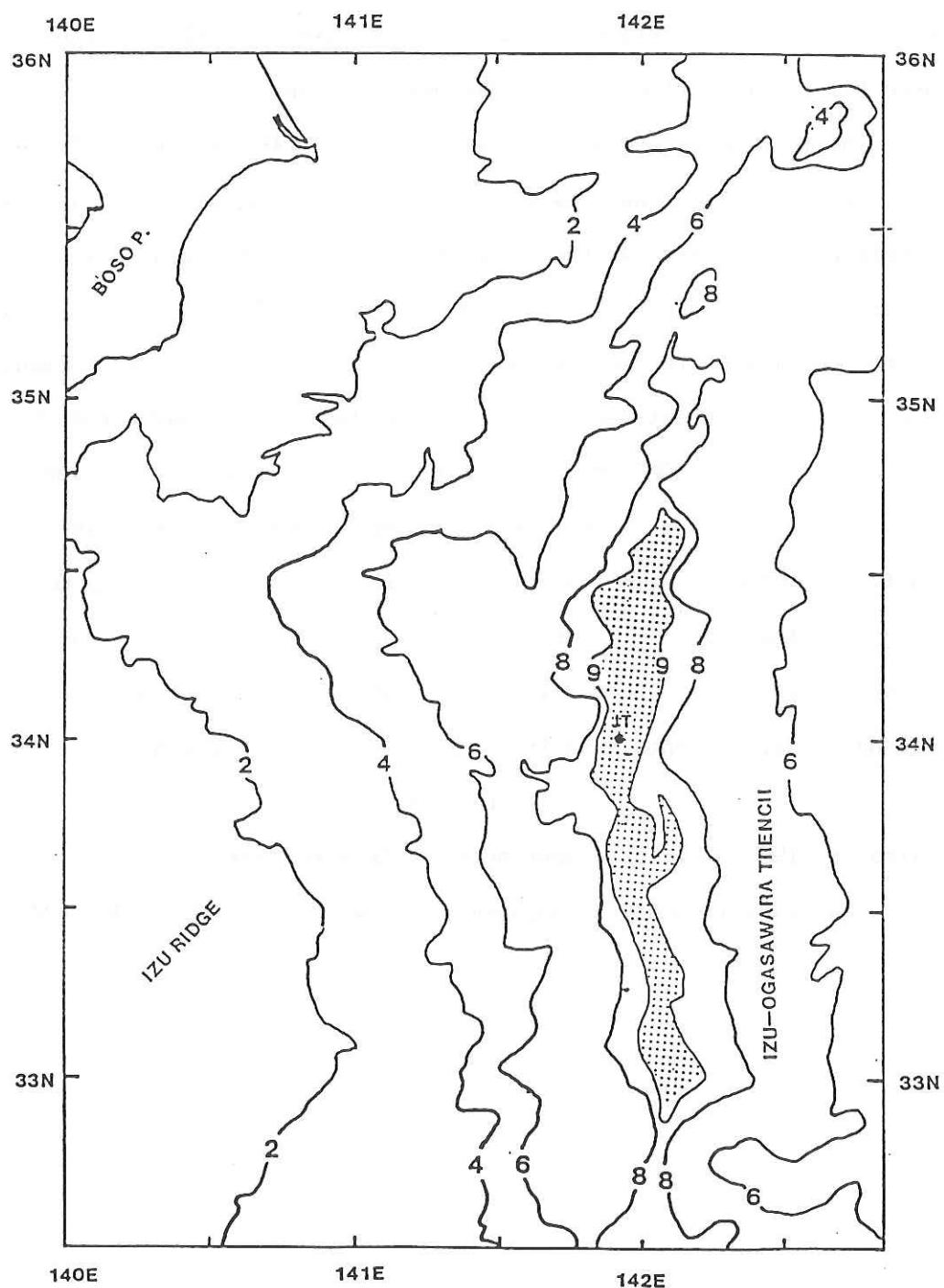
containing electric circuits, memory boards and batteries. Revolution of an Aanderaa rotor and orientation of a magnetic compass are recorded on a solid-state memory (Fig.2.3). Deep-sea glass balls were used for the main floatation of the mooring line.

The mooring line was retrieved on 10 May 1987 from the R/V Tansei Maru. The acoustic link between the release and the shipboard unit was excellent. Fig.2.4 shows the change of slant ranges measured with the acoustic release during the retrieval operation. The mooring line was found floating on the sea surface one hour after the release command. Fig.2.5 shows current records at three depths for 102 days from 29 January to 11 May 1987. Mean flows and fluctuating velocities were very similar to each other. The mean flow of about 1 cm/sec was eastward in the first 40 days, and southward in the succeeding 60 days. Fluctuating velocities are composed with semidiurnal tidal currents, inertial currents with a period of 20 hour and 50 minutes, diurnal tidal currents, and the longer period fluctuations.

#### Reference

Taira, K.(1987): Direct measurements of bottom current in Izu Ogasawara Trench. (in Japanese), Chigakuzasshi, 96-7, 429-434.

Fig. 2.1. Location of mooring station in Izu-Ogasawara Trench and bottom contours around the station.



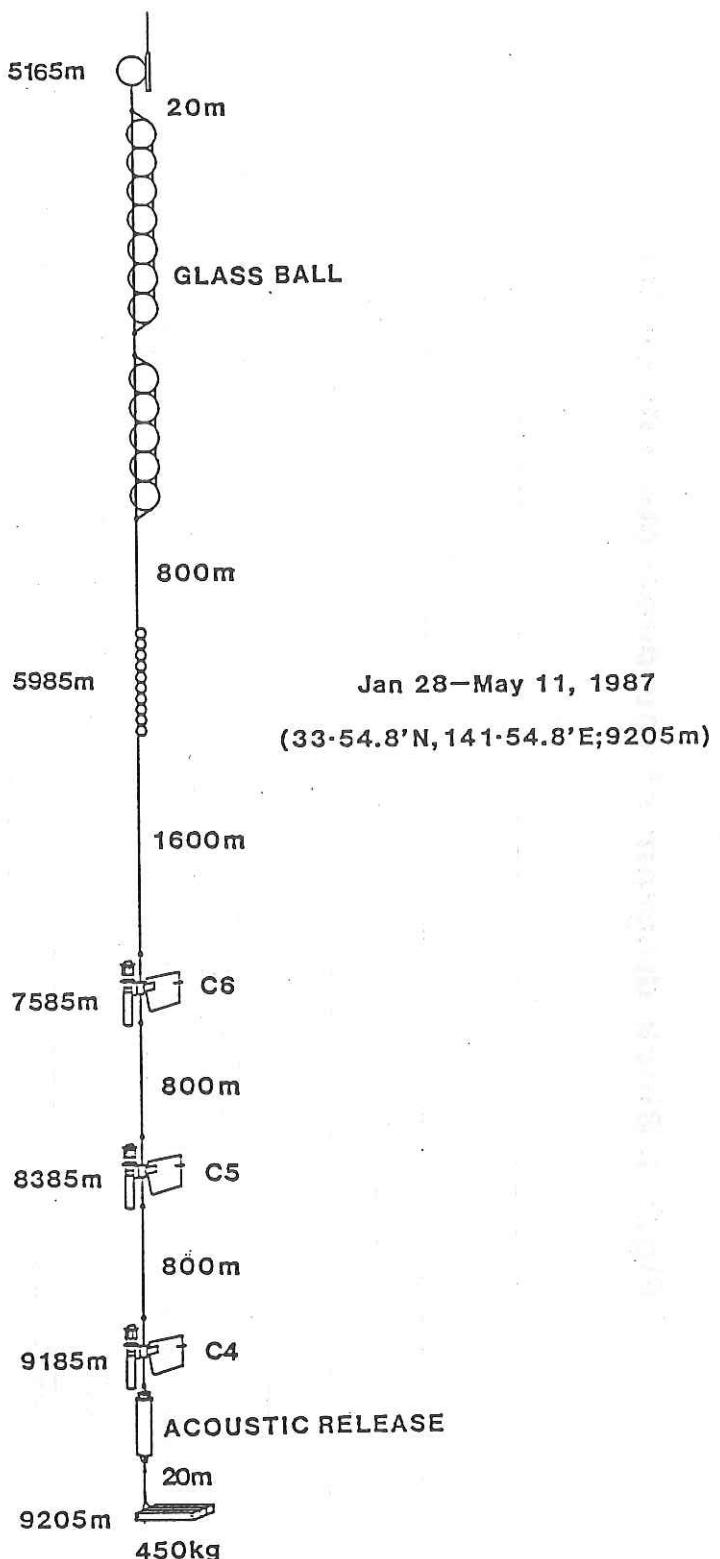
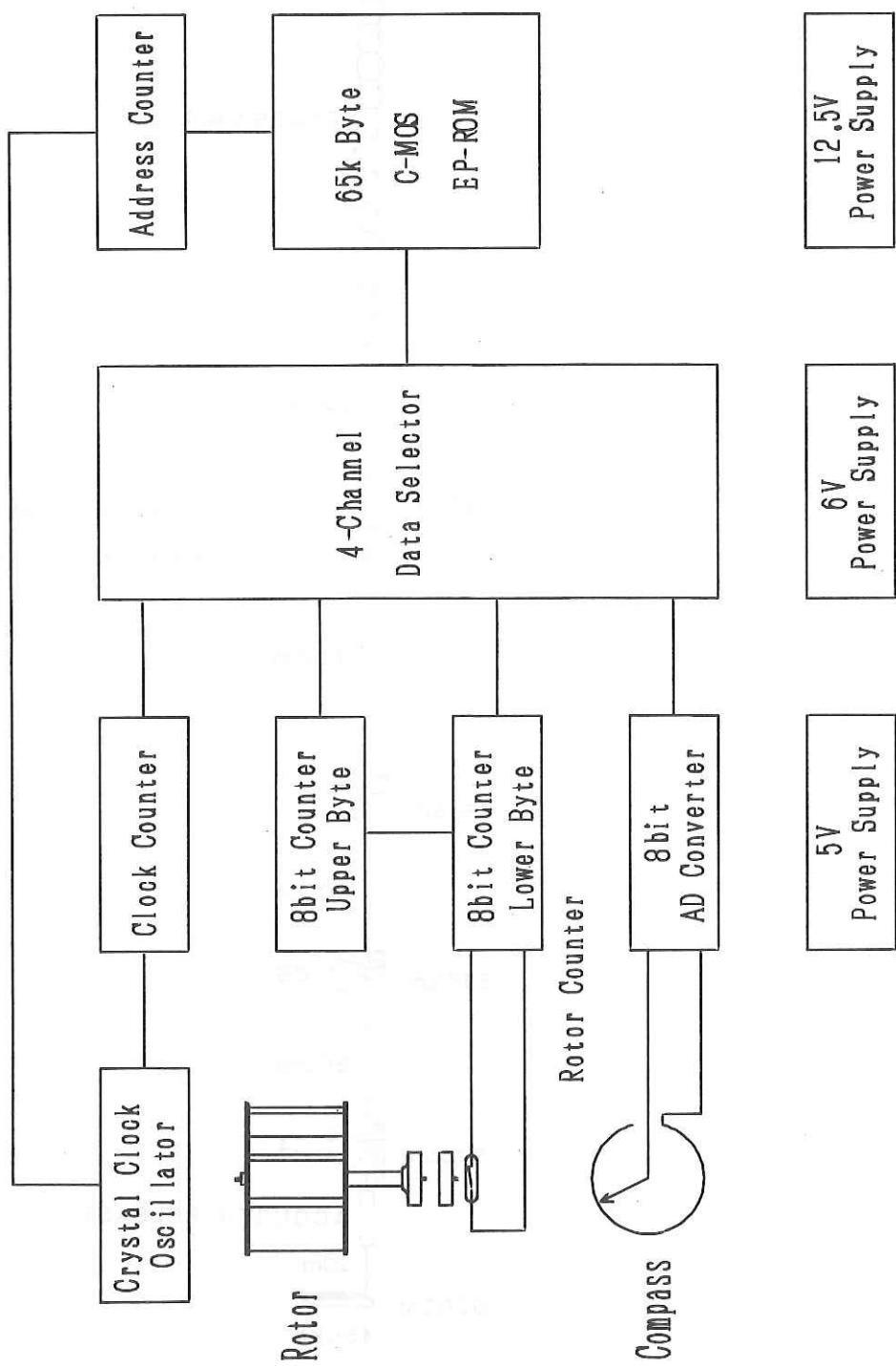


Fig. 2.2. The mooring line deployed in the Izu-Ogasawara Trench.

**Fig.2.3. Block diagram of the deep current meter.**



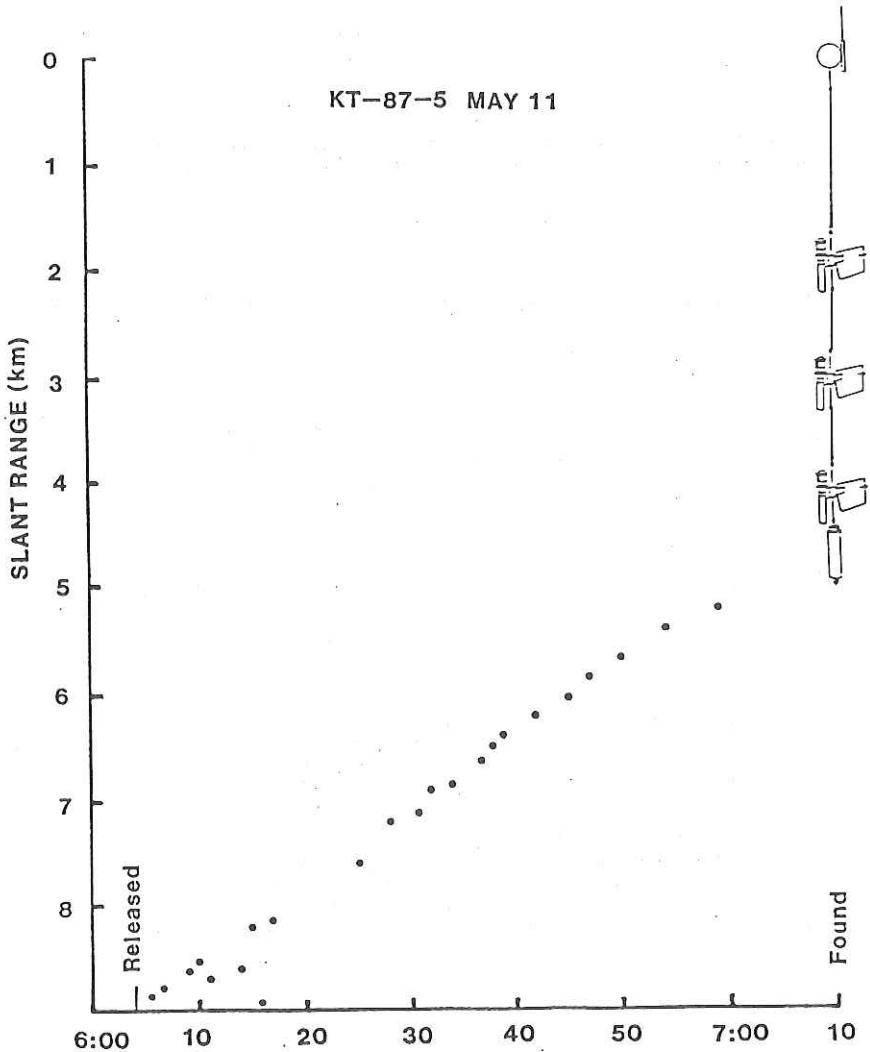


Fig. 2.4. The slant range measured with the acoustic release during retrieval of the mooring line.

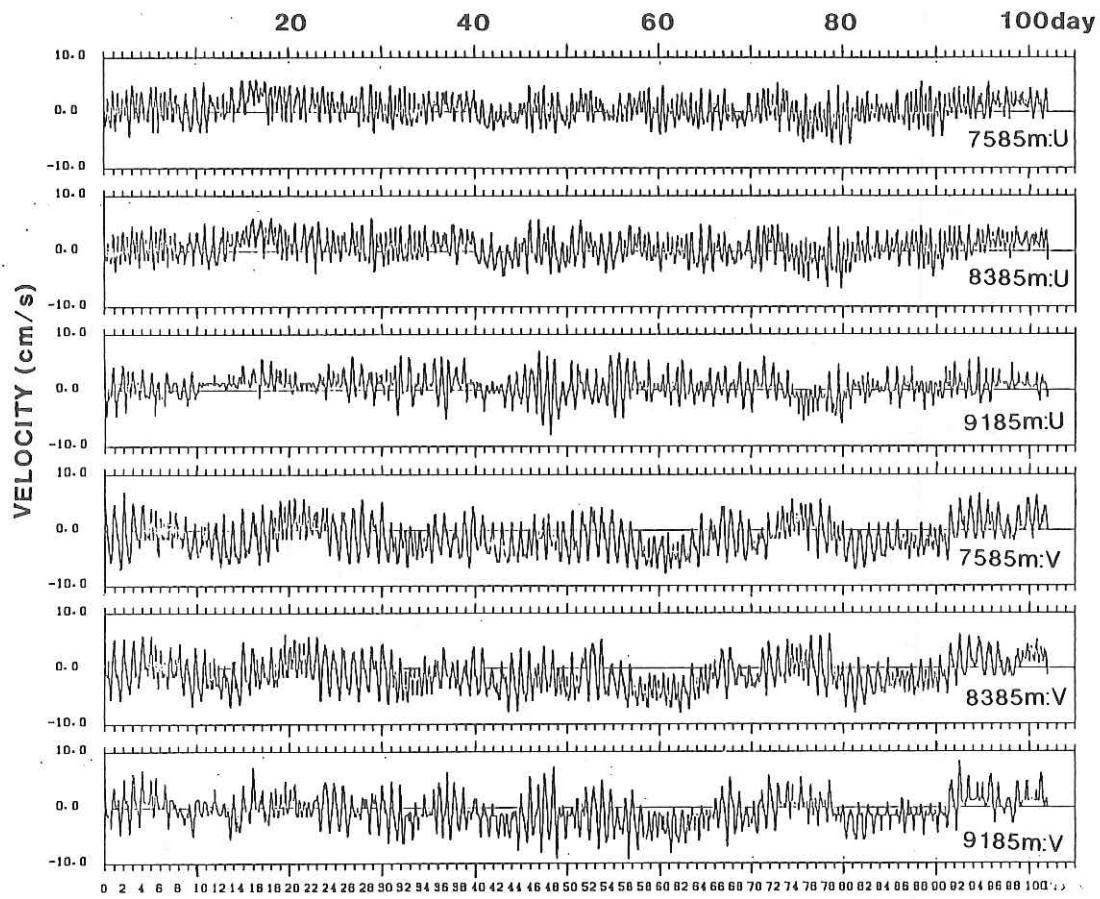


Fig. 2.5. Current records at three depths in the Izu-Ogasawara Trench for 102 days from 29 January to 10 May 1987.

### 3. Temperature and salinity in the southern Philippine Sea along 12 N and 13 N

Keisuke TAIRA (Ocean Research Institute, University of Tokyo)

Deep casts of the conductivity-temperature-depth(CTD) were carried out along 12 N and 13 N latitudes on a zigzag course from Guam to Cebu during the leg 2 of the cruise. The deep casts were made at 24 stations: 10 stations along 13 N from 144 E to 128 E, 13 stations along 12 N from 143 E to 127 E, and 2 stations along 12°30'N at 135°30'E and 133°30'N (Fig.3.1). The CTD observations were designed to confirm the deep and bottom waters flowing into the Philippine Sea from the North Pacific. The Philippine Sea is separated from the North Pacific by the long submarine ridges. There is a deep gap through Yap Trench around 10 N. The waters at 5000 m or more depth are connected with those in the North Pacific, and the water exchange in the deep layers is anticipated.

The east-west sections are taken to examine whether the bottom water flows directly northward along the eastern boundary or it flows westward first and then northward along the western boundary. The zig-zag course was taken to delineate zonal structure at two latitudes, and to estimate zonal and meridional structure of the velocity field of the North Equatorial Current. The number of the CTD casts was increased around 135 E to examine the effect of bottom topography of the Kyushu-Palau Ridge on the density structure.

Fig.3.2 shows potential temperature along 12 N from 127 E to

143E. A peak of the bottom topography around 135 E shows the Kyushu-Palau Ridge. In the layers upper than 3000 db the isotherms show a small gradient in the zonal direction. The gradients are minimal in the layers from 1000 db to 2000 db. On the other hand, a remarked zonal contrast is revealed below 4000 db. A cold water is existing to the east of the Kyushu-Palau Ridge, and a warm water to the west of the ridge. A core of the cold water is located in a gap between the Kyushu-Palau Ridge and the West Mariana Ridge. The lowest temperature was 1.05 C in the deepest layer. On the other hand, bottom water west to the Kyushu-Palau Ridge had higher temperature more than 1.21 C. Fig.3.3 shows salinity section along 12 N from 127 E to 143 E. Zonal gradients were small in the layers upper than about 2000 db. In the layers deeper than 4000 db, salinity was higher to the east of the Kyushu-Palau Ridge than that to the west of the ridge. The lowest temperature and the highest salinity at the bottom layer in the gap between the Kyushu-Palau Ridge and the West Marian Ridge indicate that the bottom water is flowing into Philippine Sea through the gap.

Fig.3.4 shows potential temperature along 13 N from 128 E to 144 E. The zonal gradients were small in the layers upper than 2000 db, and the temperature was lowest at the bottom layers in the gap between the Kyushu-Palau Ridge and the West Marian Ridge. Fig.3.4 shows salinity section along 13 N. A core of high salinity water is revealed in the bottom layer east to the Kyushu-Palau Ridge. The distributions of salinity and potential temperature at 12 N and 13 N confirmed that the bottom water was flowing into the Philippine Sea

through the gap between the Kyushu-Palau Ridge and the West Mariana Ridge and that the bottom water was flowing northward along the eastern boundary of Philippine Sea.

Note: The CTD data were not corrected (see, page 55)

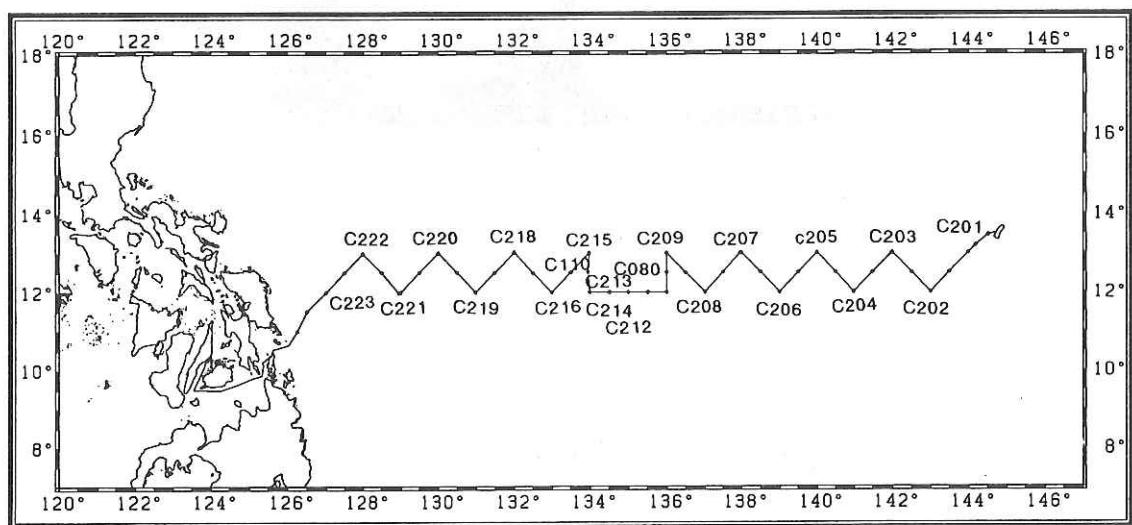


Fig.3.1.The CTD stations of the leg 2.

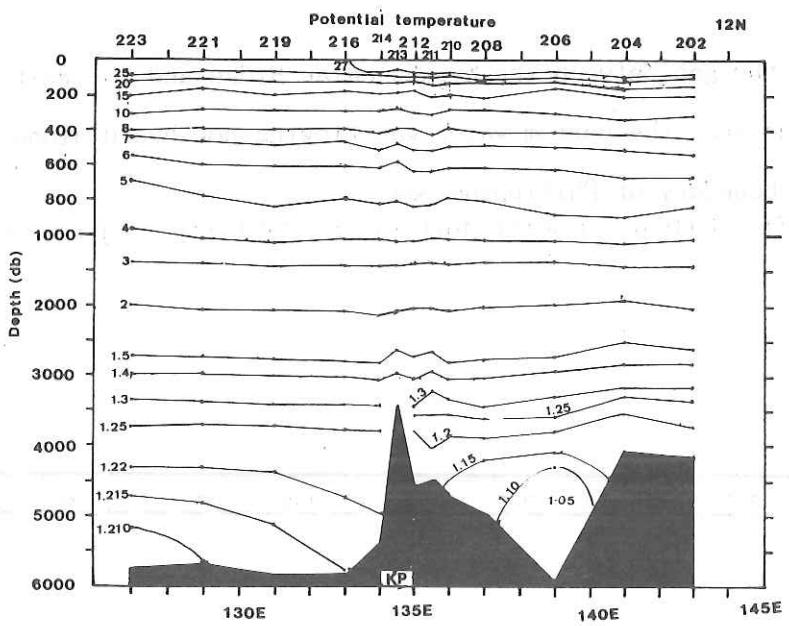


Fig.3.2. Potential temperature section along 12 N.

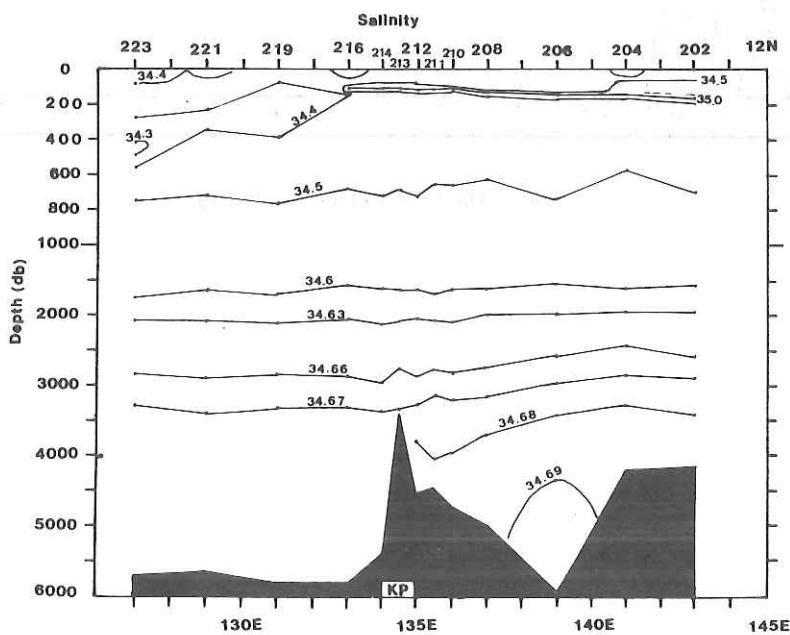


Fig.3.3. Salinity section along 12 N.

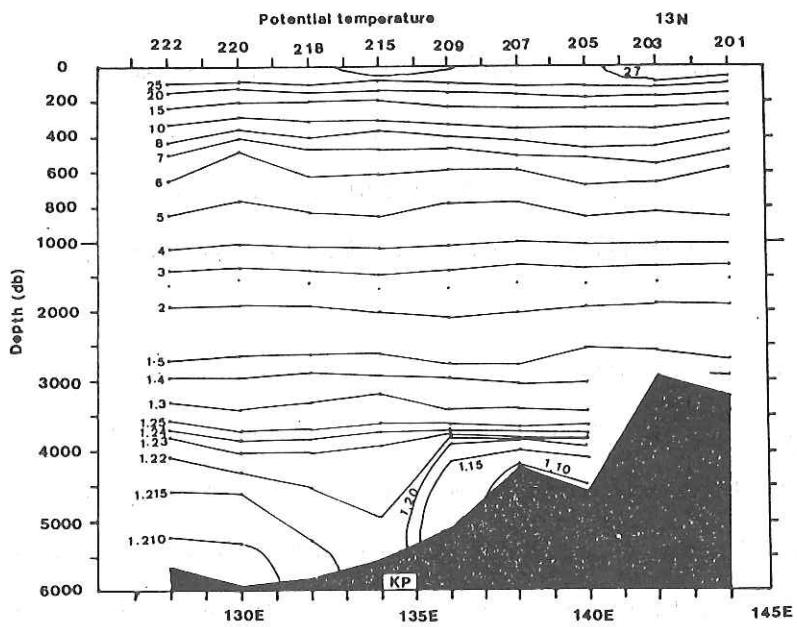


Fig.3.4. Potential temperature section along 13 N.

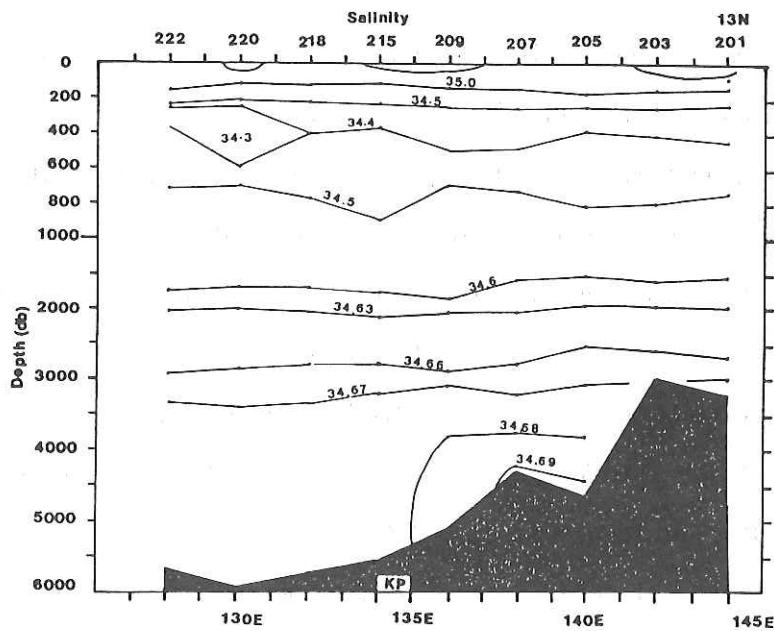


Fig.3.5. Salinity section along 13 N.

4. Moorings of sediment traps in the Shikoku Basin  
and in the Izu-Ogasawara Trench

Sinichiro NORIKI and Chizuru SAITO<sup>H</sup>

(Faculty of Fisheries, Hokkaido University)

Particles setting through water column transport various chemical substances from the surface layer to the abyss. The moored sediment traps have been used for estimation of vertical mass flux and for studying of removal processes of chemical elements (e.g., Honjo, et al., 1982; Noriki et al., 1985 and 1986). In this cruise, we deployed two moorings of time series sediment traps, one in the Shikoku basin (Site SB) and the other in the Izu-Ogasawara Trench. The mooring systems were illustrated in Fig.4.1. The mooring in the Shikoku Basin was kept from 26 January to 7 March 1987. The mooring in the Izu-Ogasawara Trench will be retrieved in 1988.

The sediment traps of NH type have six sampling cylinders of polivinyl chloride. Each cylinder is 25 cm in diameter and 57 cm long. Rotaion of the cylinders is programmed by using a timer. The hinged lids of the cylinders are closed before the retrievalment by a messenger system (Noriki, et al., 1986). A sediment trap of ND type is the same size as the ND type as shown in Fig.4.2. and four samples are obtained (see, Tsunogai, et al., 1986).

The sample collected in each receiving cup was filtered through a pre-weighed Nuclepore filter ( $0.6\mu m$ ) and dry weight was measured. Chemical analysis was made by the method of Noriki et al.(1980). The

clay content was estimated by assuming that clay contained 8% of Al. Total particulate fluxes observed with the ND type traps at Site "SB" were  $47\text{--}141 \text{ mg/m}^2 \text{ day}$  (see Table 4.1).

The mean fluxes of total particulate clay and opal in the open ocean are shown in Fig. 4.3. Total particulate flux at Site "AO" in the Antarctic Ocean was the largest among those observed in the open ocean (Noriki et al., 1986). The mean flux at Site "SB" was  $100 \text{ mg/m}^2 \text{ day}$ , which is one tenth that at Site "AO" but still several times as large as those measured at Sites "EP" in the eastern Pacific. Previously we have found that the fraction of biogenic silicate (opal) was large for the large total particulate flux. It suggests that total particulate flux depends strongly on the production of opaline silica in the surface layer. The opal flux is not so large for the large total particulate flux, but the clay flux is large at Site "SB". These results suggest that the particulate fluxes in the Shikoku Basin and the adjacent area depend on the airborne lithogenic particles.

This work was conducted in collaboration with S. Tsunogai and members of Laboratory of Analytical Chemistry, Faculty of Fisheries, Hokkaido University.

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- Noriki, S. and S. Tsunogai (1986): Deep-Sea Research, 33, 903-912.
- Noriki, S., K. Nakanishi, T. Fukawa, M. Uematsu, T. Uchida and S. Tsunogai (1980): Bulletin of Faculty of Fisheries, Hokkaido

University, 31, 354-361

Noriki, S., N. Ishimori, K. Harada and S. Tsunogai (1985): Marine Chemistry, 17, 75-89.

Tsunogai, S., S. Noriki, K. Harada, T. Kurosaki, Y. Watanabe and M. Maeda (1986): Journal of Oceanographic Society of Japan.

Table 1. Total flux and the major four components of the settling particles.

Duration	Depth	Total flux (mg/m <sup>2</sup> day)	C.F. (%)	Clay (%)	Opal (%)	CaCO <sub>3</sub> (%)
87.1.26	1.73	56	6.0	58.1	5.6	29.9
87.2. 5		84	12.0	54.7	7.0	28.8
87.2.15		139	11.7	59.8	7.6	25.7
87.2.25		141	16.5	51.6	12.6	22.4
87.3. 7						
87.1.26	2.76	85	6.0	71.3	2.2	23.3
87.2. 5		47	9.0	67.0	4.0	27.5
87.2.15		128	10.0	62.5	6.5	25.1
87.2.25		116	12.1	56.4	10.5	22.9
87.3. 7						
87.1.26	3.78	69	7.6	77.0	2.3	23.1
87.2. 5		127	8.9	70.0	4.1	22.0
87.2.15		106	7.5	81.9	1.0	20.1
87.2.25		115	9.3	71.1	3.0	24.0

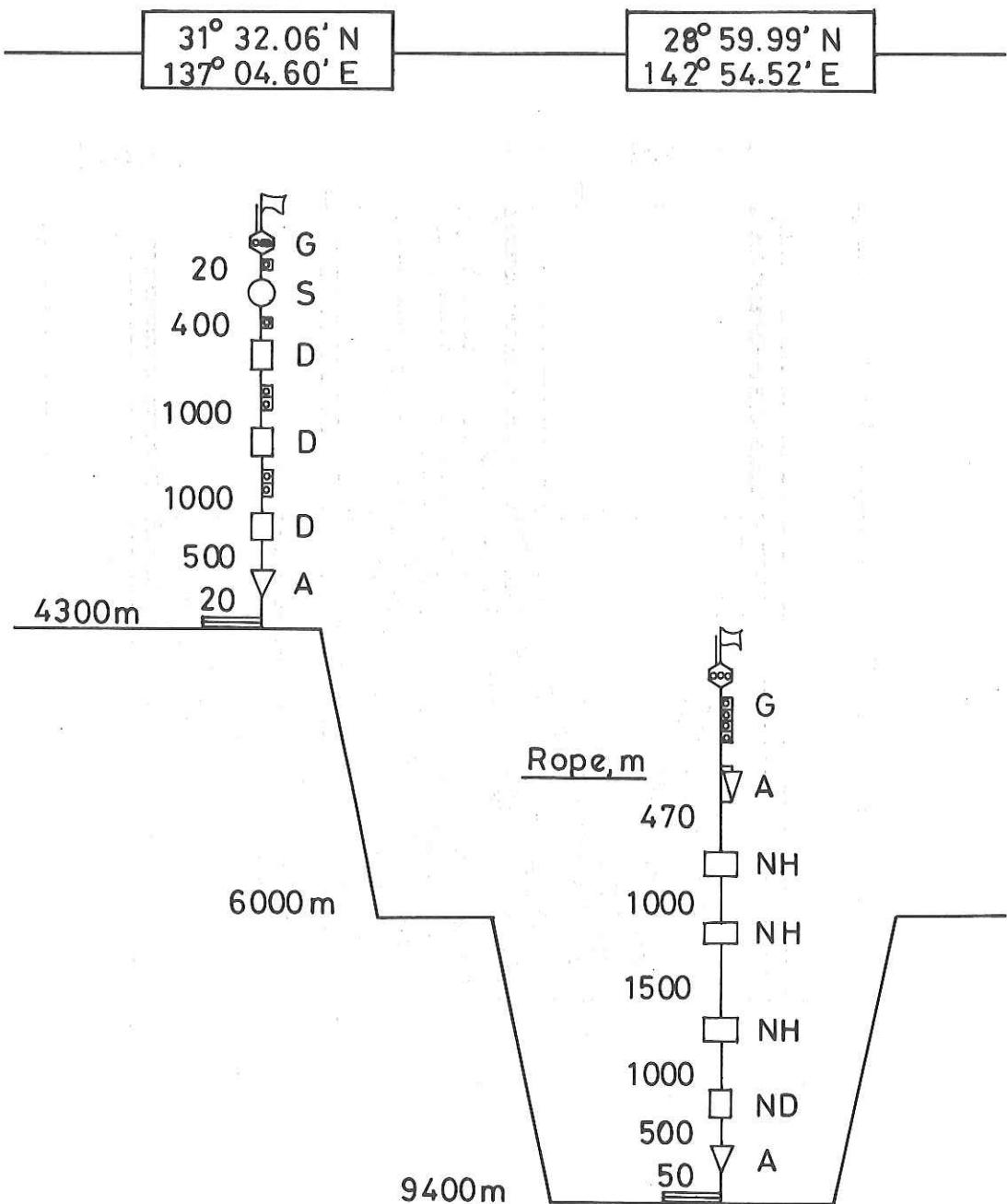


Fig.4.1. Moorings of the sediment traps. D: D-type sediment trap, ND: ND-type sediment trap, NH: NH-type sediment trap, S: Sound source, G: Glass ball, and A: Acoustic release.

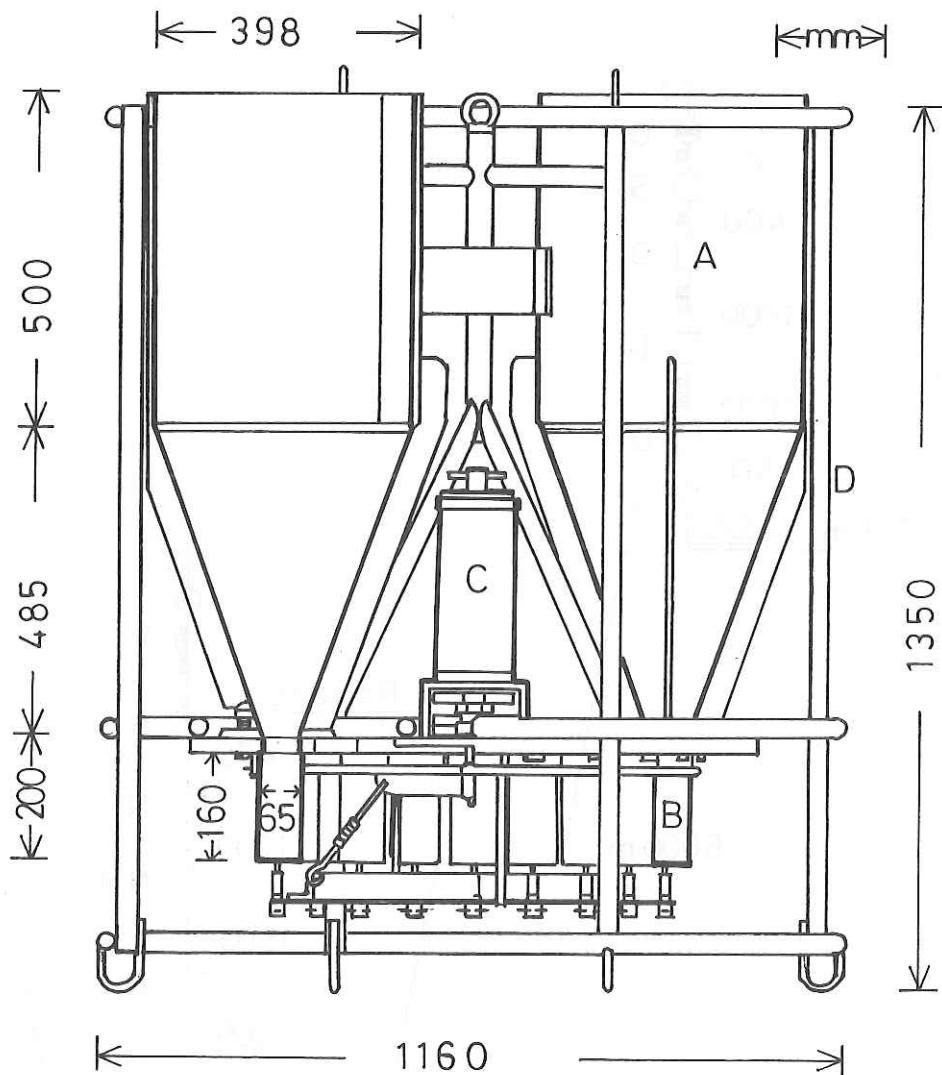


Fig. 4.2. Details of the ND-type sediment trap. A: Funnel, B: Receiving cup, C: Time controller, and D: Stainless steel frame.

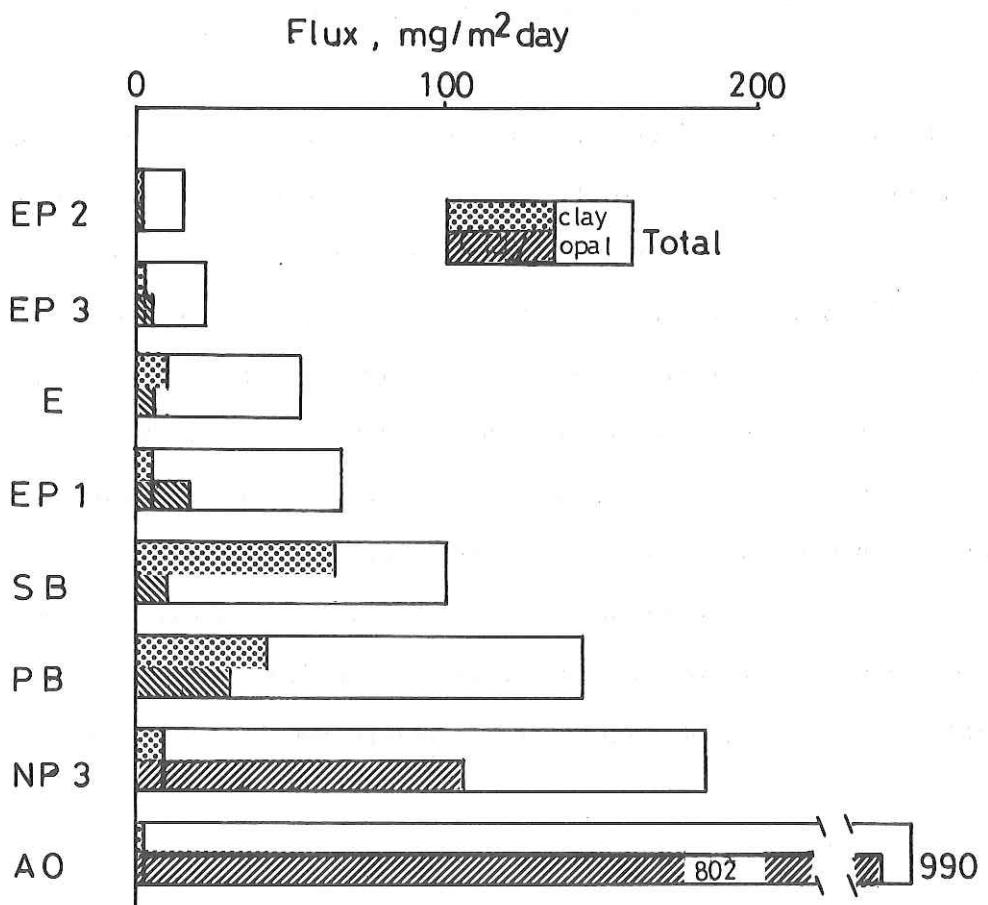


Fig.4.3. Mean fluxes of total particulate, clay and opal in the open ocean. EP1: Eastern Pacific (37N, 128W), EP2: Eastern Pacific (32N, 124W), EP3: Eastern Pacific (18N, 117W), E: Tropical Atlantic (14N, 54W), SB: Shikoku Basin, PB: Panama Basin (5N, 82W), NP3: Northern North Pacific (48N, 176E), and AO: Antarctic Ocean (61S, 150E).

## 5. Distribution of chemical tracers in the Philippine Sea

S. WATANABE, S. NORIKI, C. SAITO and Y. WATANABE

(Faculty of Fisheries, Hokkaido University)

Nutrients and radionuclides are useful chemical tracers to study the circulation and the age of sea waters. Especially radiocarbon in the deep ocean is a powerful tracer for the processes of circulation and mixing. Many investigators have measured radiocarbon and reported the results of flow patterns derived from their distributions. (e.g., Broecker et al. 1986). Recently Tsunogai (1987) suggested that a combination of dissolved oxygen and dissolved silica is useful to distinguish water type and to study the deep-water circulation.

In this cruise we measured dissolved oxygen, dissolved silica, dissolved phosphate, pH and alkalinity at each CTD station. Radiocarbon activity of deep water was determined at six stations.

### Nutrients and dissolved oxygen

Water samples were collected from 13 depths at each CTD station (including surface water) using Rosette multi-samplers. Dissolved oxygen contents were obtained by Winkler method, and dissolved silica and phosphate concentration were determined with colorimetric analysis.

A part of result is shown in Fig. 5.1 and Fig. 5.2. Dissolved oxygen contents of deep water in the Mariana Basin are slightly higher than in the Philippine Basin. Dissolved silica and phosphate

concentrations are uniform in the Philippine Sea and about  $147 \mu g at/l$  and  $2.46 \mu g at/l$ , respectively. Alkalinity and pH are kept to be almost constant.

#### Radiocarbon and tritium activity measurements

About 300 samples of one litter water were collected at CTD station in the Philippine Sea. The water samples were collected at six stations using a 200 l large volume sampler. Dissolved inorganic carbon was extracted immediately onboard and converted to benzene in the laboratory. Its radiocarbon activity was determined with the liquid scintillation method. Results on deep waters in this cruise are shown in Table 5.1. These activities are almost equal to the values of the North Pacific GEOSECS Project and to other results.

This work was conducted in collaboration with S. Tsunogai and M. Nakajima, Laboratory of Analytical Chemistry, Faculty of Fisheries, Hokkaido University.

#### Reference

- Broecker, W. S. et al.(1986): Hydrography, chemistry, and radio-isotopes in the southern Asian Basin, J. Geophys. Res., 91, 14345-14354.
- Tsunogai, S.(1987): Deep-water circulation in the North Pacific deduced from Si-O diagram. J. Oceanogr. Soc., Japan, 43, 77-87.

Table 5.1. Radiocarbon of the deep waters in the Philippine Sea.

Station	Location	Depth(m)	$\Delta^{14}\text{C}$ (per mil)
ST-1	31.5N	136.9N	3500
207	13.0N	138.9N	4000
303	21.6N	122.1N	4500
314	25.5N	128.3N	4500
324	29.3N	131.7N	4500

$\Delta^{13}\text{C}$  values are assumed 0 per mil.

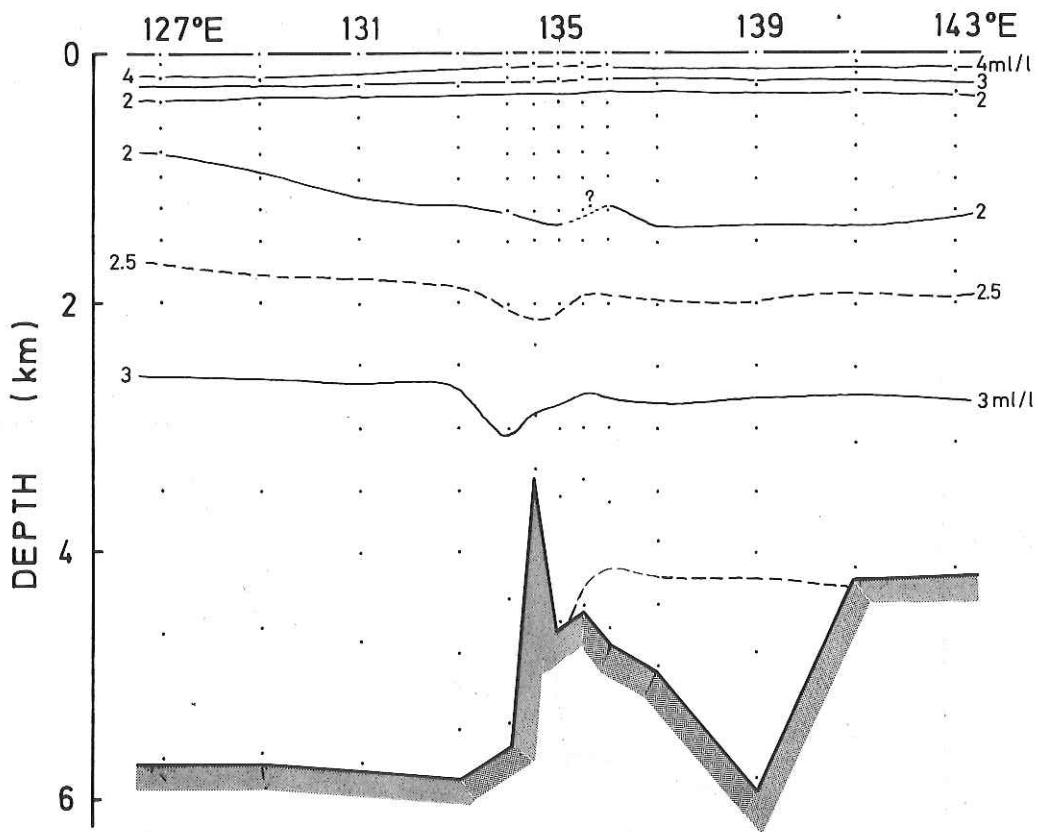


Fig. 5.1. Section of dissolved oxygen along 12N of the Philippine Sea.

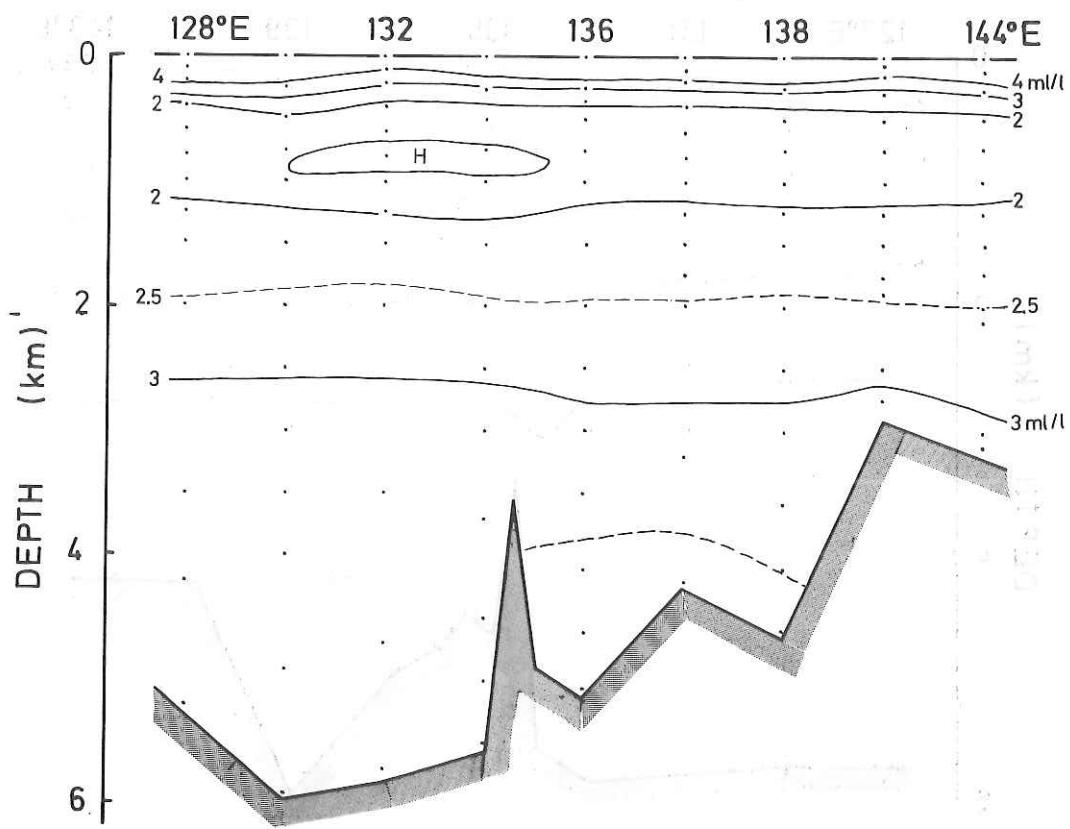


Fig.5.2. Section of dissolved oxygen along 13N of the Philippine Sea.

## 6. Field test of acoustic instruments.

Keisuke TAIRA( Ocean Research Institute, University of Tokyo)

and

Hideyuki MURAKAMI (Kaiyo-Denshi, Ltd.)

Sea water is almost opaque to radio waves, and sound waves are widely used for signal transmission and remote-sensing in the ocean. Attenuation of sound waves in the ocean is dependent of their frequency, and the low frequency waves can be traced for a long distance. When the waves propagate through a layer of minimum sound speed, i.e., the sofar channel, detectable distance is more than several hundred km. Acoustic signals of several hundred Hz are used for tracking of sofar floats and remote-sensing with ocean acoustic tomography.

An acoustic transducer with a bending element and a resonator was lowered with a winch wire. The resonator was composed with an iron tube 40 cm in diameter and 100 cm long, and it was tuned for a frequency of 700 Hz. A receiver with arrayed hydrophones was used to detect the signal from the transducer. The transducer was lowered down to 4000 m, and the signal was received clearly. However, the amplifying gain of the receiver was high and variation of towing tension due to ship motion caused a large noise.

An echo detector tested in the cruise is a prototype model of inverted echo sounder (IES) for the deep sea. The IES is an acoustic instrument to measure travel time for a pulse of 10 kHz sound waves

from the moored depth to the sea surface. A variation of sound speed profile changes the travel time. When an IES is moored under the Kuroshio, lateral shifts of current axis are always accompanying a change of sound speed profile. We developed an IES in 1984 (Taira, et al., 1984), and several sets of the IES were moored under the Kuroshio. We found a relation of the travel time to an index temperature of the Kuroshio axis. Operation of the developed IES was limited within 3500 m, because the acoustic power of emitted pulse was small. We have improved the transducer by increasing the power and by changing directional beam pattern. A tethered test of the new model was made during the leg 1 of the cruise. We used an echo detector being composed with the new transducer and a solid-state, wave-form recorder. The echo detector is changed into an IES by a change of operational program of a micro-processor. The echo-detector was attached to the underwater unit of the CTD. The records were obtained during a deep cast of the CTD. Voltage of an echo of the transmitted pulse from the sea surface is plotted against the depth of the echo detector in Fig. 6.1. The voltage of the echo was always higher than that of the noise down to 6000 m depth. The result assures that the newly developed IES can be used in a deep sea of 6000 m depth.

#### Reference

- Taira, K., M. Fukasawa, T. Otokuni, S. Kitagawa, H. Murakami, T. Teramoto and M. Kawabe (1984): Development of an IES and detection of the Kuroshio axis. (in Japanese) Ocean Sciences Monthly, 16, 179-186.

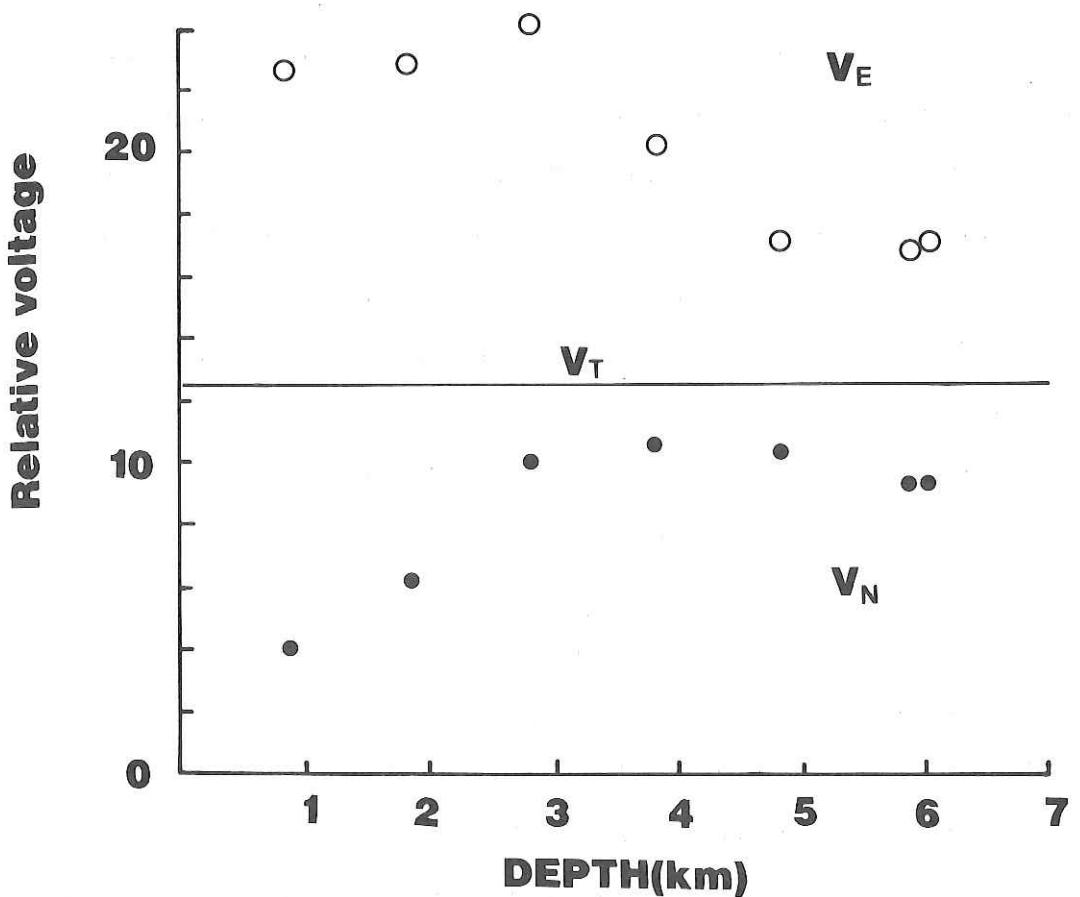


Fig.6.1. Voltage of the echo from the sea surface ( $V_E$ ) and the noise ( $V_N$ ) against the tethered depth of the echo detector. The line  $V_T$  is a suggested threshold level for the deep IES.

## 7. Radiation measurement and heat budget on the sea surface.

Hirotaka OTOBE( Ocean Research Institute, University of Tokyo)

Downward fluxes of short-wave and long-wave radiation were measured directly onboard and estimation of the heat budget at the sea surface was made in the western North Pacific. A short-wave sensor (Neo Pyranometer, Model MS-41, Eiko Seiki Sangyo Co., Tokyo) and a long-wave sensor (Ishikawa Radiometer Model RL-5, Ishikawa Sangyo Co., Tokyo) both of them mounted on gimbals were installed on a handrail of the upperbridge of the vessel.

Heat budget at the sea surface is given by

$$Q = R_n - (lE + H) \quad (1)$$

and

$$R_n = (1 - r)S - \varepsilon(\sigma T^4 - L) \quad (2)$$

where  $R_n$  is the net radiation flux,  $lE$  the latent heat flux,  $H$  the sensible heat flux,  $r$  albedo,  $S$  downward short-wave radiation,  $T$  sea surface temperature,  $\varepsilon$  emissivity of sea water, and  $\sigma$  Stefan-Boltzman constant,  $L$  downward long-wave radiation. The sensible and the latent heat fluxes were estimated by an aerodynamic bulk method (Kondo, 1975) from the routine meteorological data obtained every three hours. Payne's table (Payne, 1972) was used for the values of albedo  $r$ . The results are shown in Figs. 7.1- 7.7.

### References

- Kondo, J. (1975): Air-sea bulk transfer coefficients in diabatic condition. Boundary-Layer Meteorology, 9, 91-112.

Payne, R.E. (1972): albedo of the sea surface. Journal of Atmospheric Sciences. 29, 959-970.

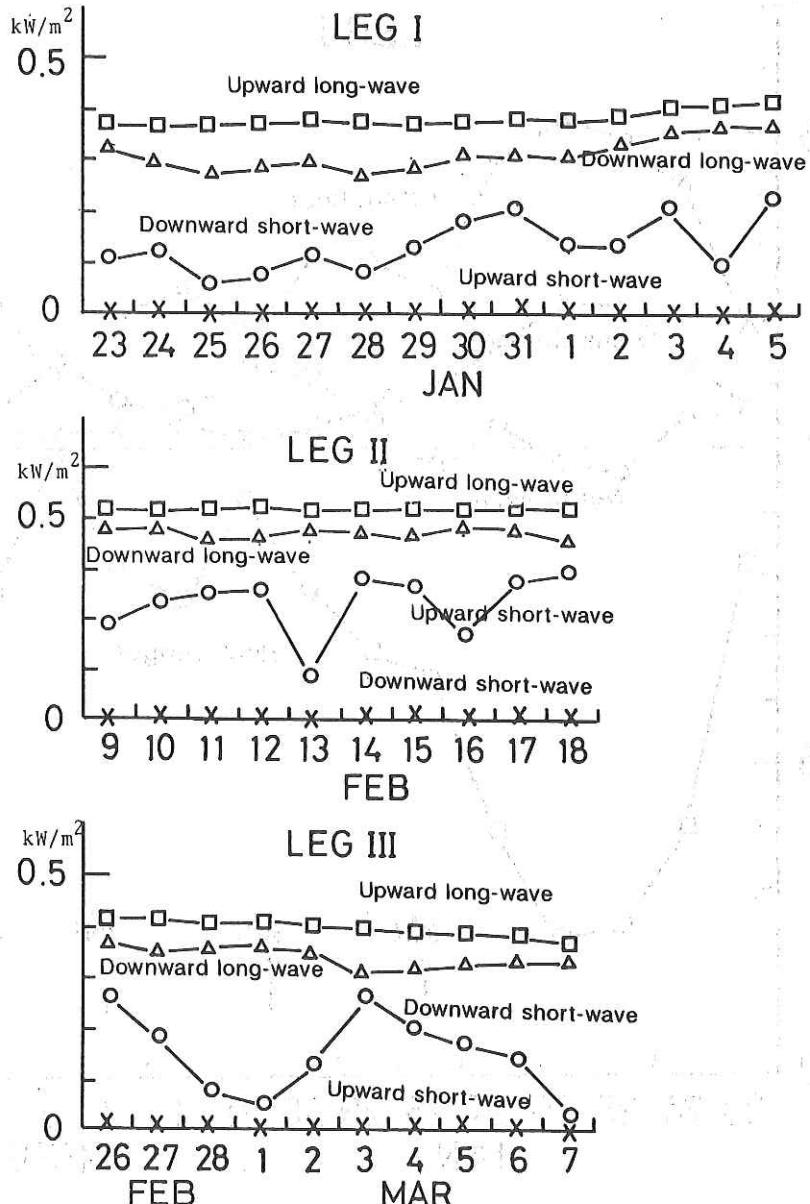


Fig. 7.1. Day-to-day variation of the radiation fluxes during leg 1 (upper panel), leg 2 (middle panel) and leg 3 (lower panel).

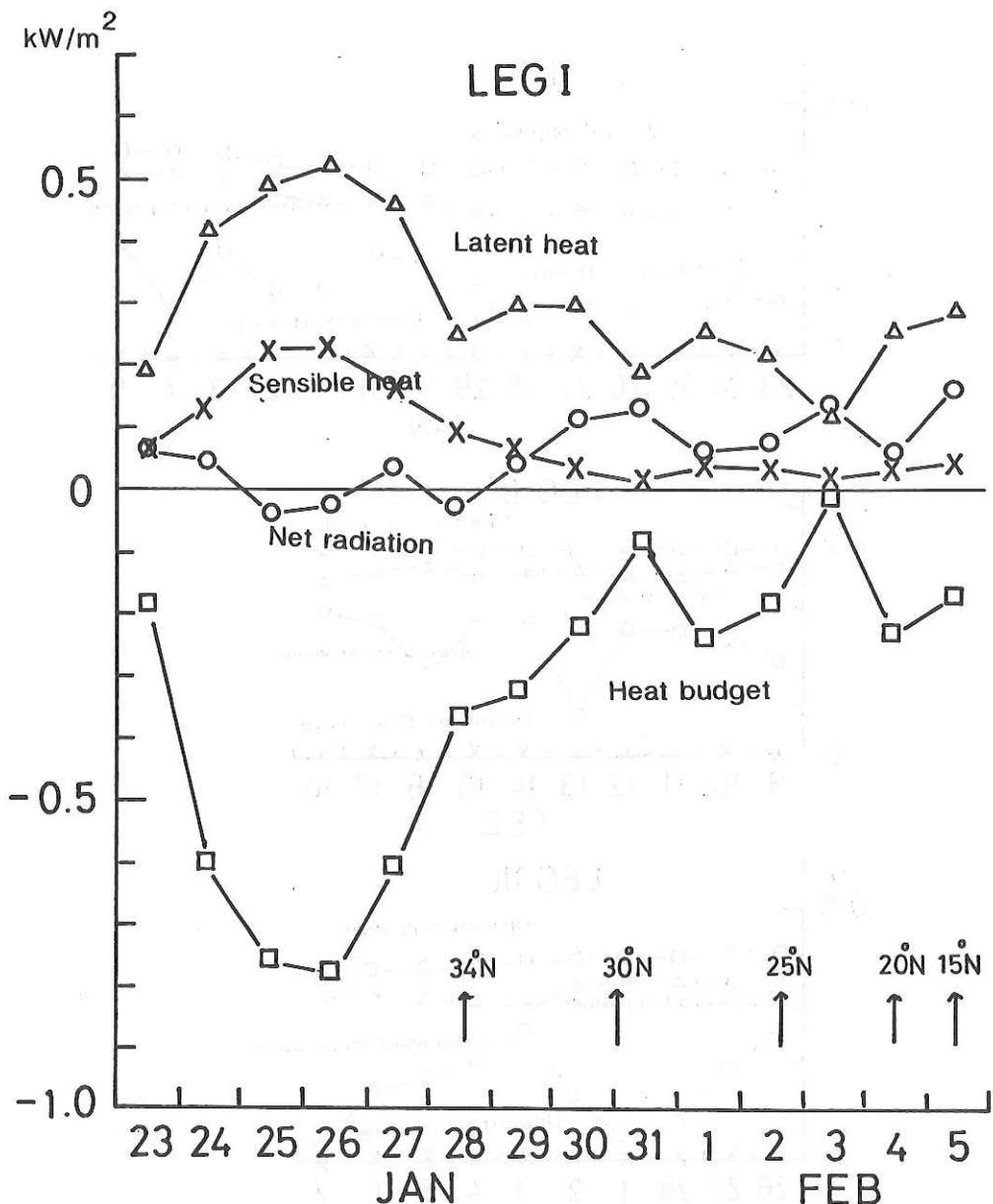


Fig. 7.2. Day-to-day variation of the surface heat budget and its components during leg 1.

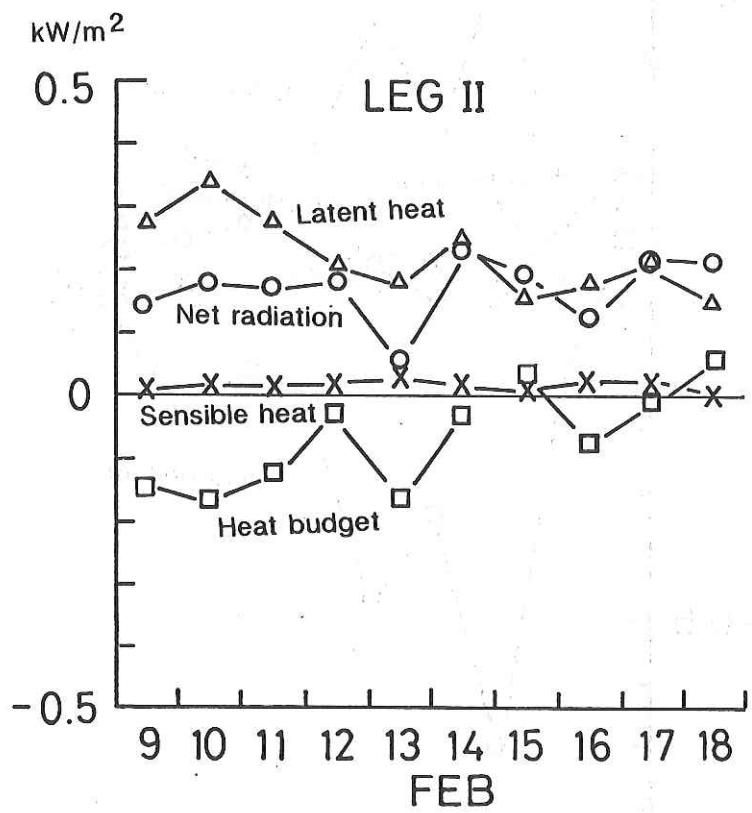


Fig. 7.3. Day-to-day variation of the surface heat budget and its components during leg 2.

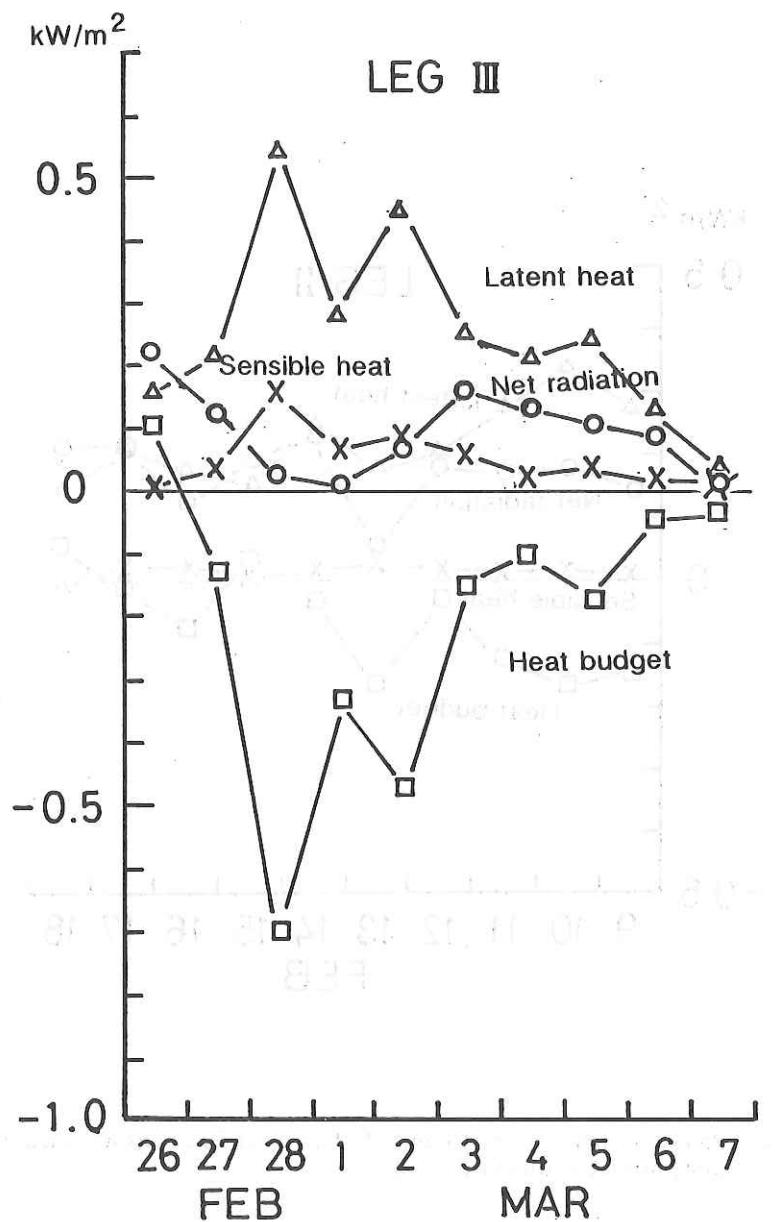


Fig. 7.4. Day-to-day variation of the surface heat budget and its components during leg 3.

KH-87-1 LEG I. 23 to 05

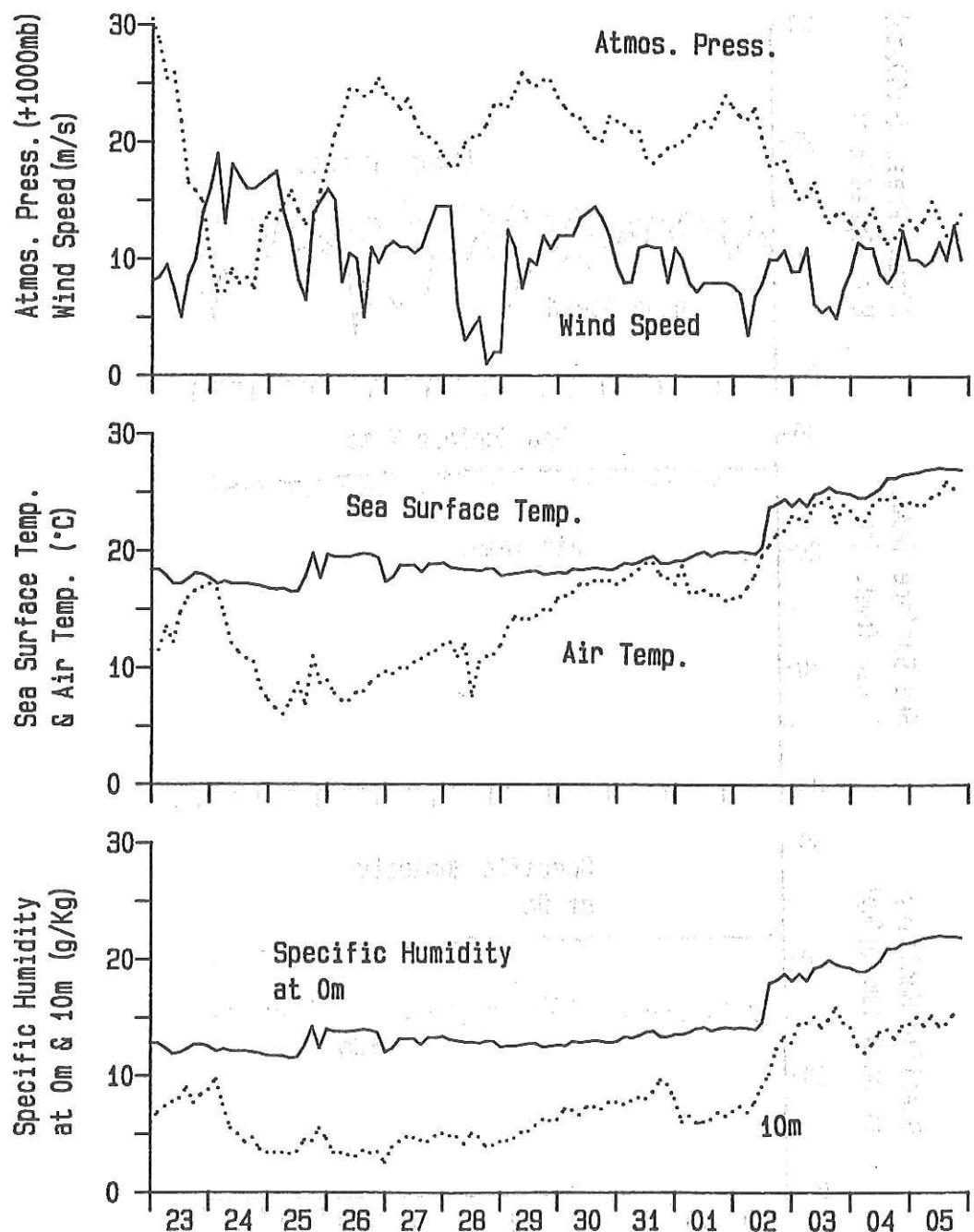


Fig. 7.5. Variation of surface meteorological elements at 3 hour interval during leg 1.

KH-87-1 LEG II.

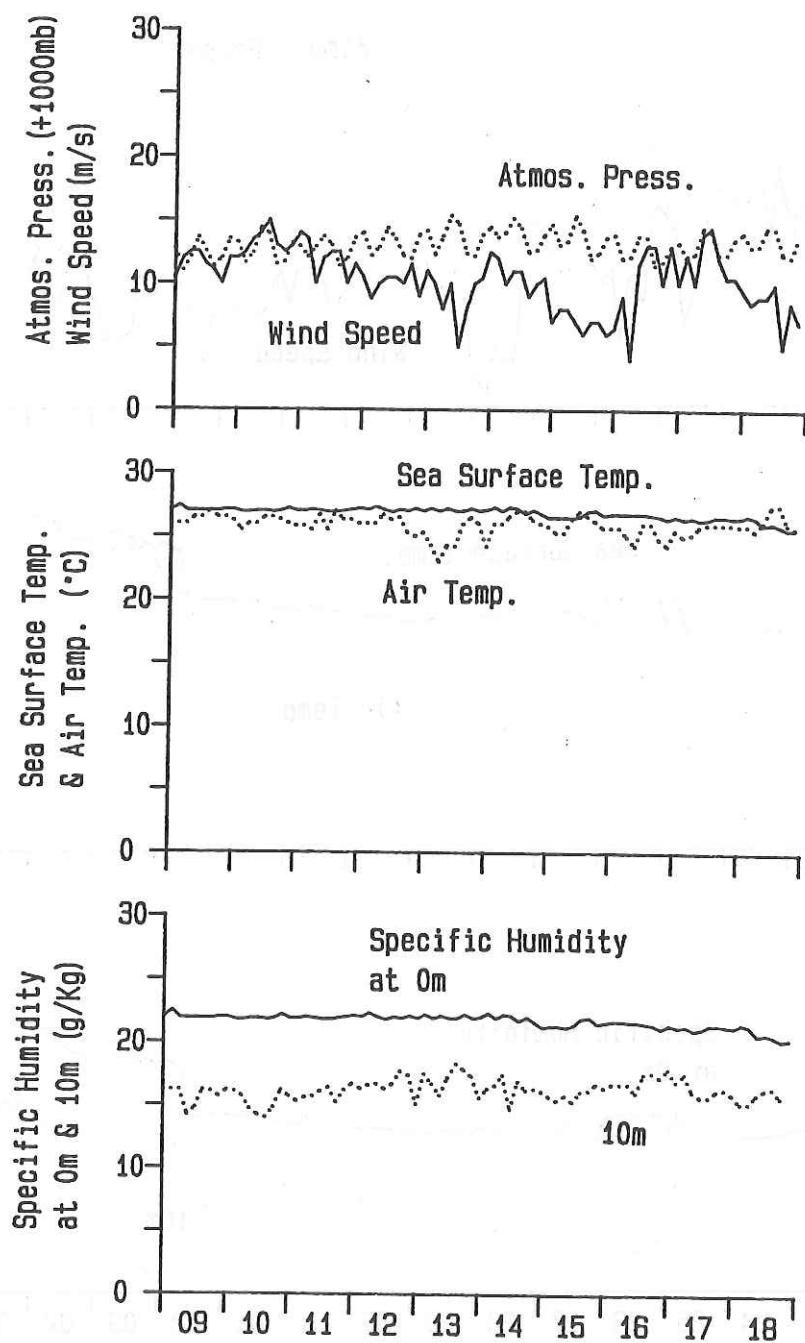


Fig. 7.6. Variation of surface meteorological elements at 3 hour interval during leg 2.

KH-87-1 LEG III.

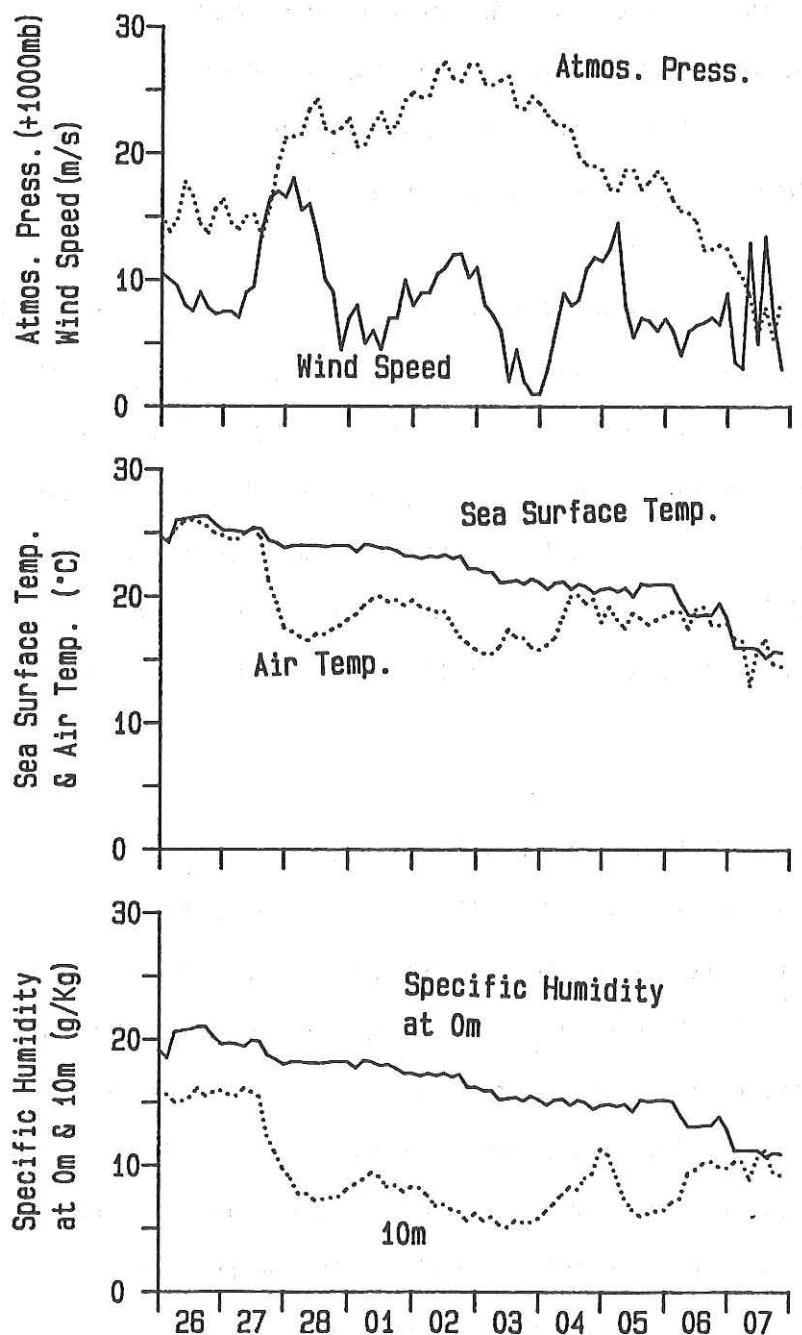


Fig. 7.7. Variation of surface meteorological elements at 3 hour interval during leg 3.

## 8. The XBT Observations

- The Subtropical Mode Water in 1987 winter-

Kimio HANAWA, Naoto IWASAKA, Tomowo WATANABE,

Toshio SUGA and Yoshiaki TOBA

(Department of Geophysics, Tohoku University)

### Introduction

In the cruise of the R/V Hakuho Maru KH-87-1, we made XBT (T-7 probe) observations on her course at intervals of latitudinal 30 minutes from 34 N to 20 N, in order to clarify the distribution of the Subtropical Mode Water (STMW) in 1987 winter. In this report, we will describe the subsurface distribution and the outcrop area of the STMW, based on the XBT data together with other related data. This report is an extended abstract of work to be published in its full form elsewhere.

### The Subtropical Mode Water in the XBT section

Figs.8.1(a) and (b) show the XBT vertical temperature section and layers with temperature gradient less than  $0.4^{\circ}\text{C}/20\text{m}$  (i.e.,  $2 \times 10^{-2}^{\circ}\text{C}/\text{m}$ ), respectively. The depths of XBT data were calculated by an empirical equation proposed by Hanawa and Yoritaka (1987). It is found that the layers with low temperature gradient correspond to the surface mixed layer, the subsurface layer (200–400 m) with temperature approximately ranging from 19 C to 16 C and the deeper layer with temperature lower than about 7 C below the main thermocline.

Fig.8.2 shows the relationship between the potential vorticity

and the temperature gradient, which was calculated from the data of the 137°E line obtained by the Japan Meteorological Agency: the data from the Kuroshio axis to 20°N and with temperature from 21°C to 15°C obtained in winter from 1967 to 1987. It is seen that the layers with temperature gradient less than  $2 \times 10^{-2} \text{ cm s}^{-1}$  agree with those with potential vorticity less than  $200 \times 10^{-14} \text{ cm s}^{-1}$ . Suga et al. (1987) found that this value of the potential vorticity is appropriate index of the STMW which was observed in the subsurface layer of the 137°E section. That is, we can regard the layers with low temperature gradient observed in the subsurface layer from the Kuroshio axis to about 23°N as the STMW. This water also appeared in the 137°E section obtained in late January, 1987 by JMA and in the XBT section of the JENEX-87 (Japanese El Niño Experiment, Japan Marine Science and Technology Center).

Suga et al. (1987) showed that the apparent oxygen utilization (AOU) can be used as an index of "age", i.e., the elapsed time from the formation, of the STMW appeared in the 137°E section. From the data of the 137°E section in 1987 winter, we calculated AOU and found that these STMWs were formed in 1986 winter in the area of the Kuroshio Extension.

#### Outcrop area of STMW in 1987 winter

Fig. 8.3 shows the monthly mean SST 16–19°C zones of March in 1986 and 1987, which can be regarded as the outcrop area of STMW (see, Hanawa 1987). These were redrawn from "The Ten-Day Marine Report"

regularly published by the JMA. The clear difference between the distributions of the two years exists : the latitudinal width of this zone in 1987 is narrower than that in 1986 and the 19 C isotherm in 1986 surrounds the sea south of Japan, but not in 1987. The above difference is also seen in the temperature distribution at depth of 100 m as shown in Fig.8.4. These temperature distributions at the sea surface and at depth of 100 m suggest that the STMW formation rate in 1987 is small compared with that in 1986.

### Discussion

In this report, we showed the existence of the STMW in the XBT section and briefly described the difference of the outcrop area of the STMW between 1986 and 1987 winters.

Watanabe and Hanawa(1987) and Hanawa et al.(1988) showed that SST in the mid-latitudes of the western North Pacific is strongly affected by the winter monsoon in the east Asia, and in general during the ENSO events the monsoon is relatively weak compared with the other years. The 1987 winter monsoon is very weak as shown in Fig.8.5 which is the scatter plots of the seasonal mean monsoon index and Southern Oscillation Index (see, Watanabe and Hanawa, 1987). That is, the data described in the present report support the above findings for the surface thermal condition in the mid-latitudes of the western North Pacific during the ENSO events.

This study was performed as a part of the Ocean Mixed Layer Experiment, OMLET (Chairman : Prof. Y. Toba), one of the Japanese WCRP

activities, which were financially supported by the Ministry of Education, Science and Culture, Japan.

#### Reference

- Hanawa, K. (1987) : Interannual variations in the winter-time outcrop area of Subtropical Mode Water in the western North Pacific. *Atmosphere-Ocean*, 25, 358-374.
- Hanawa, K. and H. Yoritaka(1987) : Detection of systematic error in XBT data and their correction. *J. Oceanogr. Japan*, 43, 68-76.
- Hanawa, K., T.Watanabe, N. Iwasaka, T. Suga and Y. Toba(1987) : Surface thermal condition in the western North Pacific during the ENSO events. *J. Meteorol. Soc. Japan*, 28, 445-456.
- Suga, T., K. Hanawa and Y. Toba(1987) : Study on Subtropical Mode Water based on the long-term observations along 137°E line. (In preparation).
- Watanabe, T., and K. Hanawa(1987) : Relationship between SST of the western North Pacific and monsoon and Southern Oscillation Indices. (In preparation.)

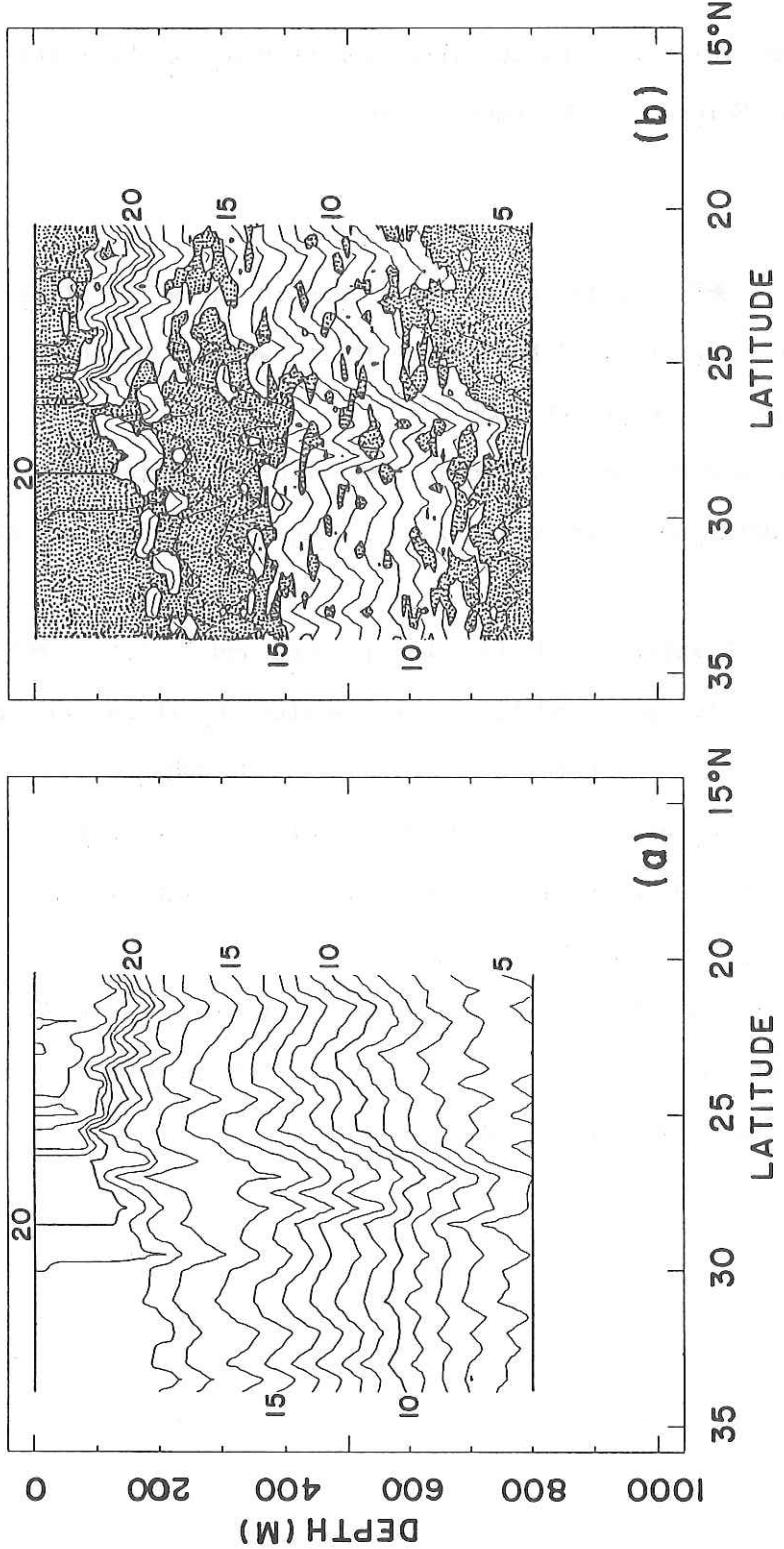


Fig. 8.1. Vertical XBT section (a) and the layers with temperature gradient lower than  $2 \times 10^{-2}^{\circ}\text{C m}^{-1}$  (dotted area).

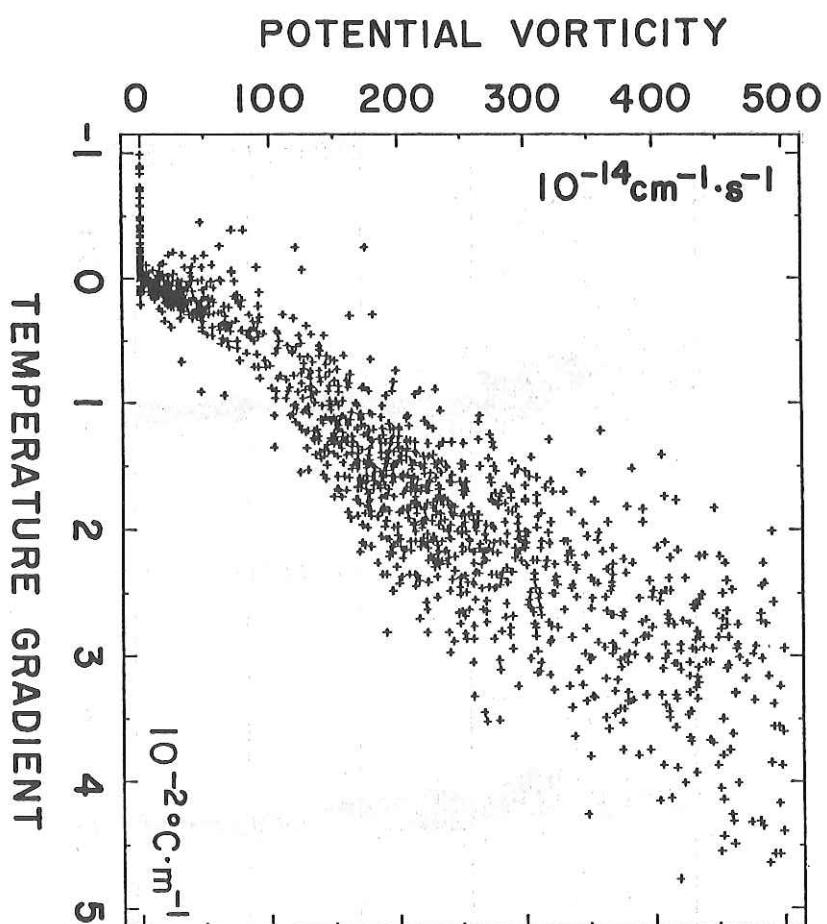


Fig.8.2. Relationship between temperature gradient and potential vorticity. The data used are obtained on the 137 E line in winter from 1967 to 1987 by Japan Meteorological Agency.

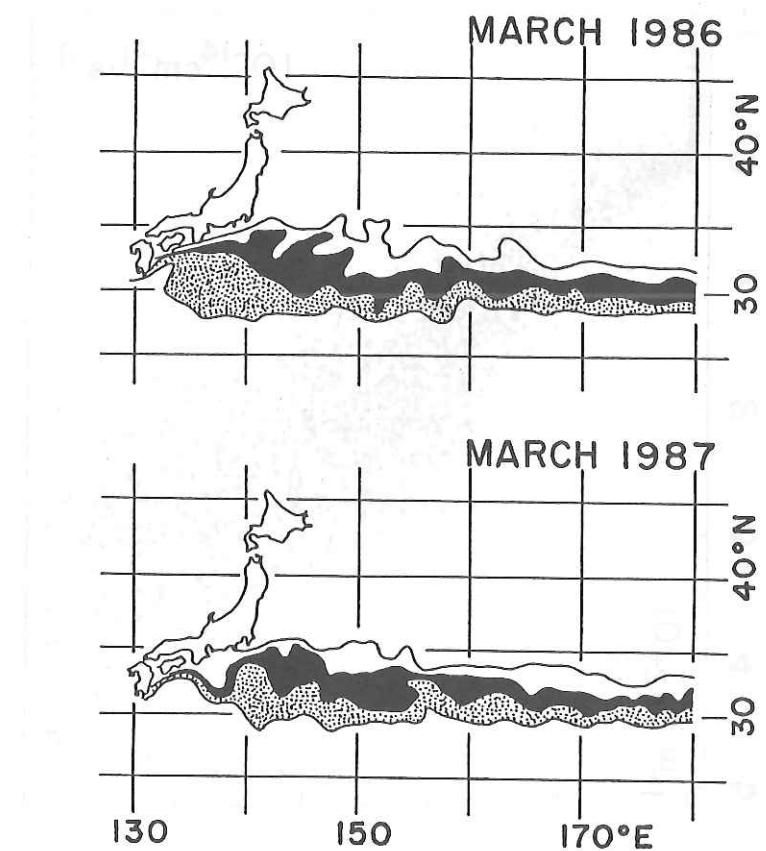


Fig. 8.3. Monthly mean SST 16-19°C zones of March 1986 and 1987, which were redrawn from the "Ten-day Marine Report" by the JMA (Nos. 1421 for 1986 and 1457 for 1987).

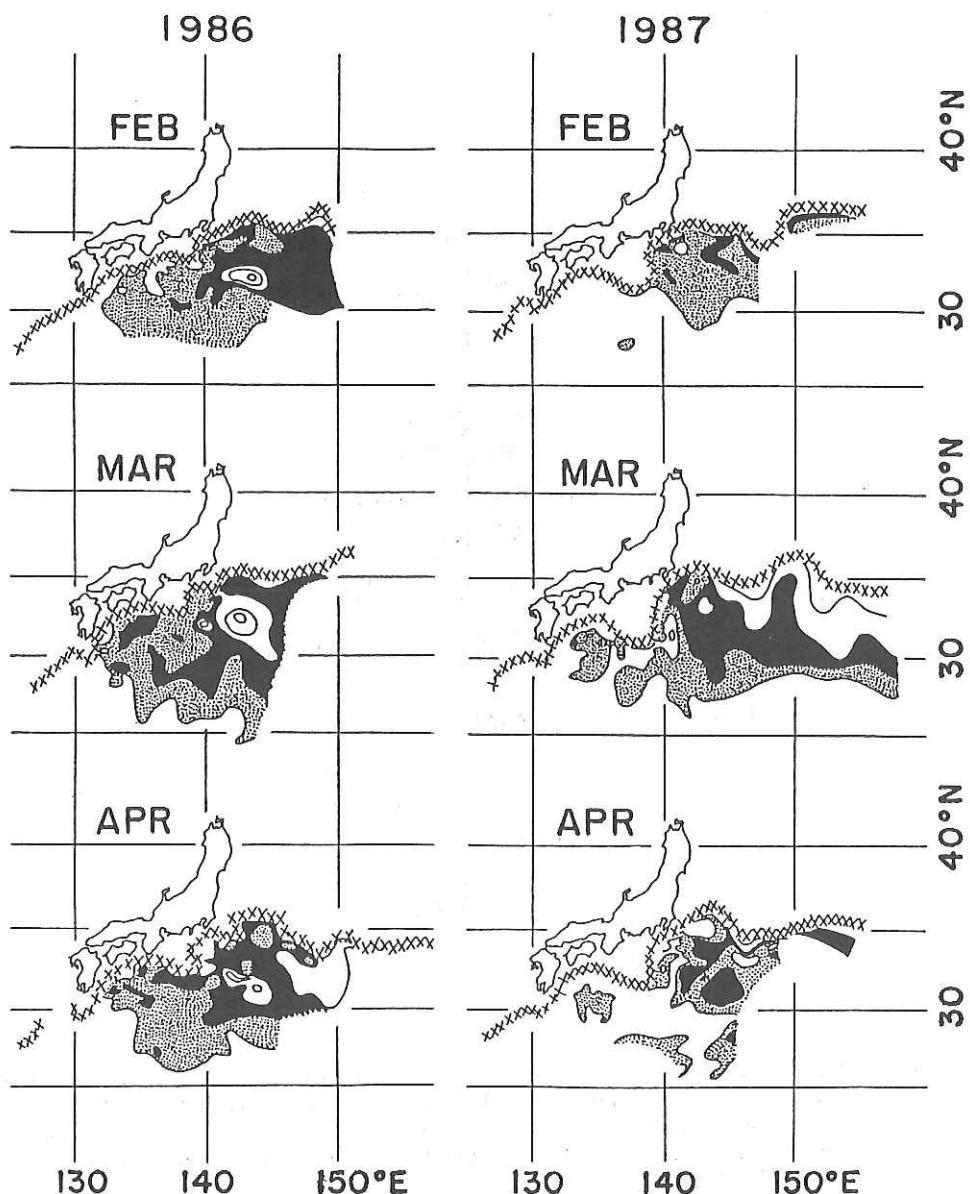


Fig. 8.4. Temperature distributions from February to April at depth of 100m. Symbols x denote the approximate Kuroshio axis. (Redrawn from the "Ten-Day Marine Report" by the JMA, for 1986, Nos. 1419, 1422 and 1425, and for 1987, Nos. 1455, 1458, and 1461)

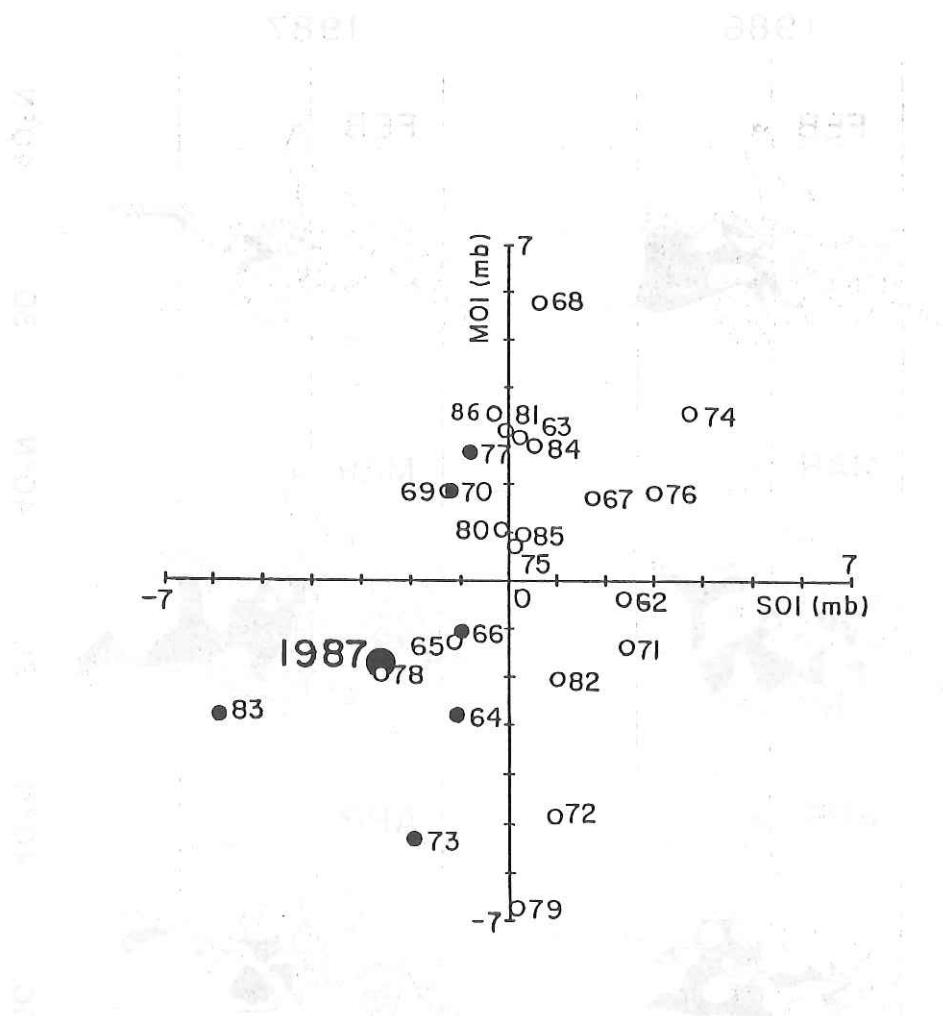


Fig. 8.5. Scatter plots of the seasonal-mean monsoon index (MOI) and the Southern Oscillation index (SOI) for the winter from December to February (see Watanabe and Hanawa, 1987). Numerals denote years and black circles show winters during the ENSO events.

## VI. Data Report

We made hydrographic observations by using a Mark IIIb CTD, Neil Brown Instruments System, with a Multi-Bottle Sampler, General Ocean. From the sampled water, dissolved oxygen (D.O.,  $ml/l$ ), pH value (Ph), alkalinity (Alk,  $m\text{ eq}/l$ ), phosphate ( $\text{PO}_4\text{-P}$ ,  $\mu\text{ g at}/l$ ), and silica ( $\text{SiO}_2\text{-Si}$ ,  $\mu\text{ g at}/l$ ) were determined, and they are tabulated in the following pages. While we operated the water sampler, CTD values were read out for correction of the CTD. We determined salinity of the sampled water by using a laboratory salinometer (Autosal 8400-A, Guildline) and the IAPSO standard sea waters. The salinity from the CTD were corrected by adding -0.00467 as a result of the comparison (see Fig.A1). Reversing thermometers were used to check temperature from the CTD. Temperature from the CTD was corrected by adding 0.02945  $^{\circ}\text{C}$  as shown in Fig.A2. Corrected salinity and temperature at selected depths are tabulated in the following pages.

The calibration of the CTD in the above procedures were made by Toshisuke Nakai, Ocean Research Institute, University of Tokyo.

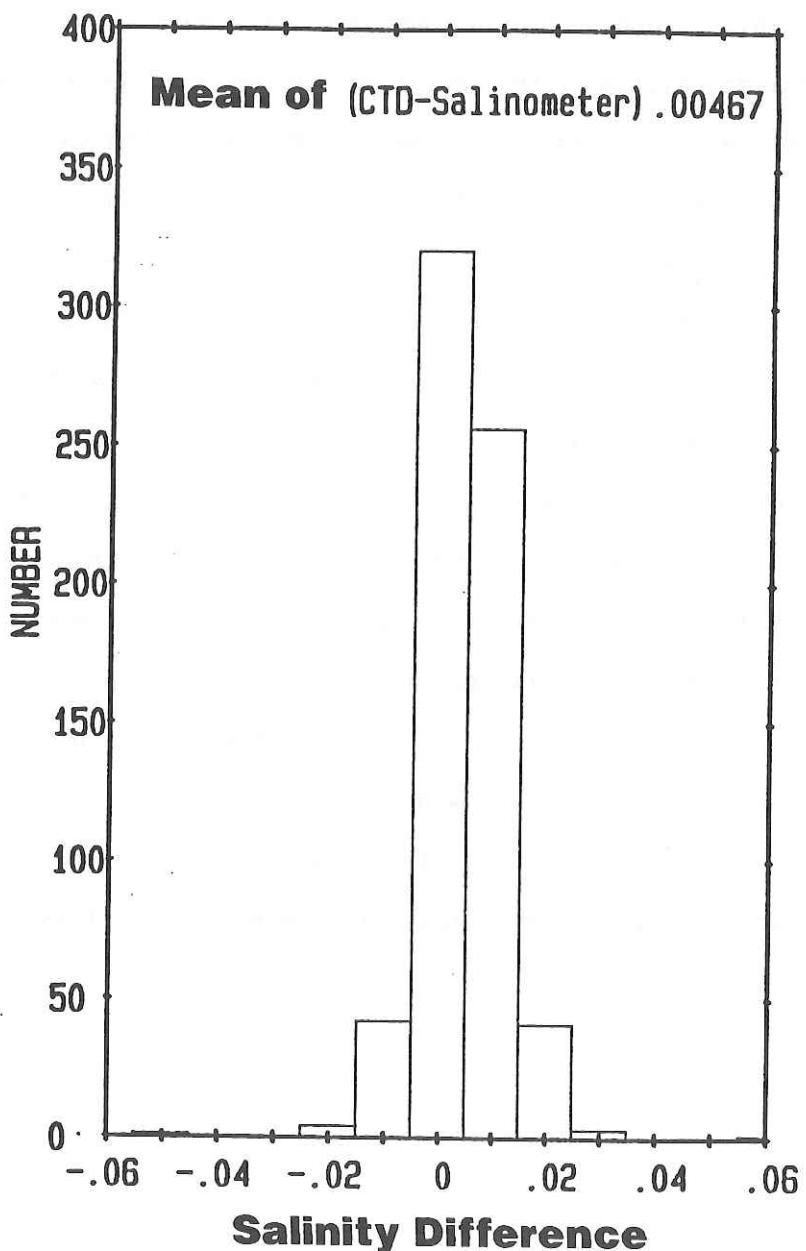


Fig.A1. Histogram of the salinity difference between CTD and salinometer for total number of data 670.

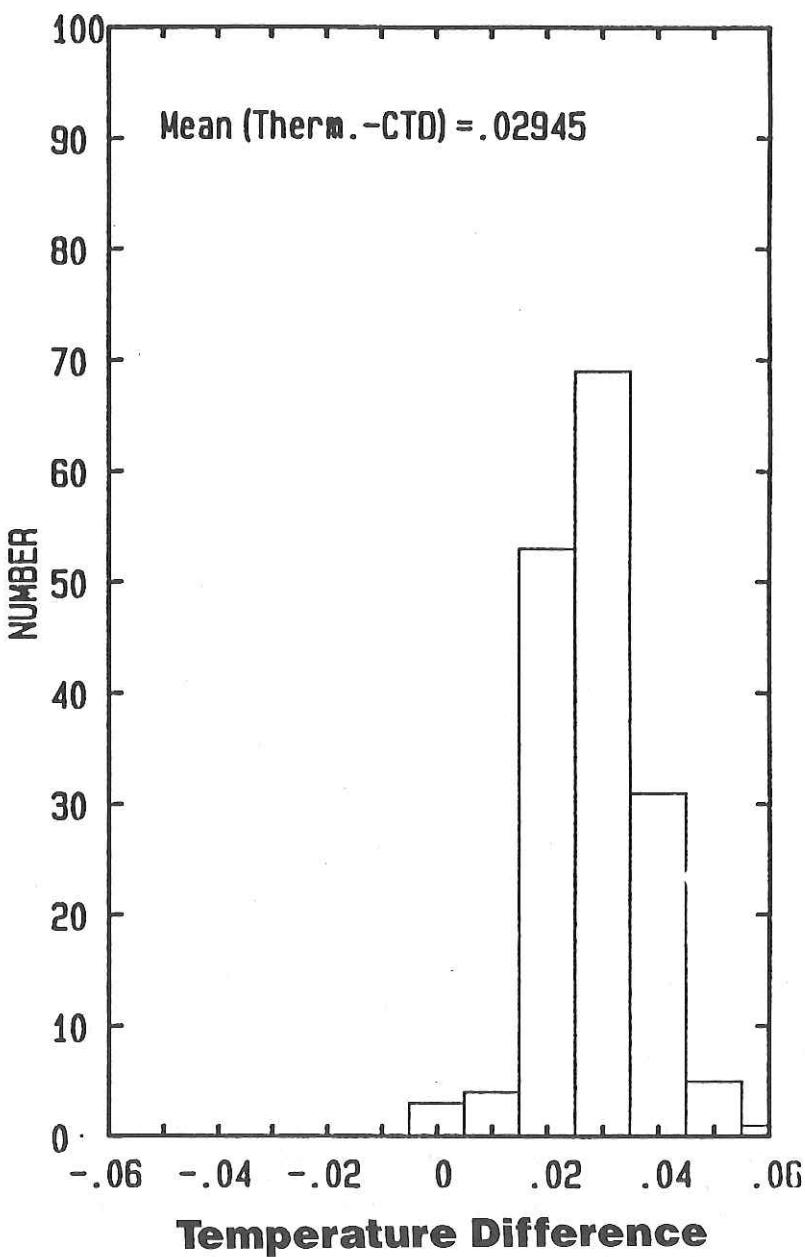


Fig.A2. Histogram of the temperature difference between CTD and reversing thermometers for total number of data 168.

Station Water depth(m) Date/Time					Position				
ST01 4170-3890 25 Jan 19:57-22:04 1987					31-28.9°N 136-55.7°E (START) 31-26.0°N 136-59.4°E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	20.2			34.808	4.91	8.297	2.381	0.13 1.8
12	51	20.388	48.032	34.807	34.687	3.47	7.809	2.504	2.68 140.1
11	101	20.346	48.062	34.807	34.792	4.84	8.208	2.384	0.21 5.2
10	254	17.970	45.711	34.798	34.803	4.19	8.306	2.380	0.44 6.3
9	502	10.765	38.369	34.339	34.355	3.51	7.977	2.383	1.49 34.7
8	752	5.877	33.988	34.331	34.323	2.04	7.726	2.429	2.40 82.3
7	1001	3.797	32.306	34.401	34.394	1.52	7.654	2.457	2.83 108.5
6	1250	3.014	31.790	34.478	34.470	1.62	7.654	2.476	2.93 130.5
5	1499	2.457	31.464	34.547	34.538	1.93	7.683	2.489	2.86 144.2
4	1751	2.140	31.327	34.591	34.584	2.33	7.711	2.496	2.90 152.3
3	2499	1.653	31.259	34.662	34.650	3.02	7.776	2.499	2.65 148.5
2	3499	1.487	31.513	34.691	34.683	3.43	7.804	2.505	2.71 149.0
1	4006	1.524	31.725	34.693	34.683	3.52	7.797	2.502	2.53 143.6

Station Water depth(m) Date/Time					Position				
ST02 2470 29 Jan 12:41-13:44 1987					32-45.4°N 141-09.4°E (START) 32-46.0°N 141-09.2°E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	18.5			34.799	5.05	8.282	2.368	0.13 0.6
12	51	18.470	46.143	34.800	34.756	5.05	8.283	2.357	0.14 0.7
11	101	18.457	46.152	34.800	34.780	5.02	8.281	2.363	0.13 1.1
10	200	18.445	46.181	34.799	34.778	4.99	8.277	2.365	0.15 0.7
9	400	14.820	42.507	34.638	34.614	4.01	8.115	2.361	0.73 12.0
8	600	9.165	36.863	34.276	34.244	3.28	7.900	2.369	1.64 43.1
7	801	5.383	33.391	34.131	34.115	2.25	7.701	2.389	2.69 82.1
6	1000	3.961	32.345	34.277	34.263	1.19	7.603	2.432	2.97 116.9
5	1249	3.227	31.935	34.429	34.420	1.32	7.626	2.461	3.01 136.0
4	1549	2.598	31.572	34.504	34.493	1.34	7.650	2.478	3.23 149.3
3	1850	2.277	31.454	34.551	34.532	1.42	7.655	2.488	2.99 155.0
2	2149	1.953	31.338	34.607	34.583	1.97	7.680	2.493	2.94 161.2
1	2449	1.811	31.352	34.631	34.612	2.23	7.703	2.493	3.02 163.0

Station Water depth(m) Date/Time					Position				
JT 8980-8980 28 Jan 18:27-20:54 1987					33-52.9°N 141-55.8°E (START) 33-51.6°N 141-56.8°E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	18.6			34.768	5.02	8.249	2.368	0.15 1.2
12	100	18.505	46.189	34.791	34.776	5.01	8.272	2.365	0.17 1.3
11	240	17.666	45.446	34.820	34.801	4.48	8.211	2.367	0.33 3.3
10	500	12.757	40.407	34.492	34.455	3.77	8.025	2.366	1.13 23.1
9	740	6.373	34.211	34.089	34.074	2.99	7.761	2.380	2.33 70.6
8	1000	4.063	32.434	34.276	34.256	1.43	7.616	2.425	3.10 114.0
7	1500	2.680	31.604	34.480	34.478	1.06	7.594	2.472	3.06 155.5
6	2000	2.119	31.402	34.582	34.585		7.642	2.484	2.96 166.4
5	3000	1.613	31.418	34.665	34.657		7.732	2.500	2.66 166.2
4	4000	1.486	31.688	34.690	34.674	3.35	7.775	2.502	2.51 160.6
3	5000	1.504	32.042	34.699	34.686		7.797	2.497	2.57 156.7
2	6000	1.608	32.439	34.701	34.686	3.57	7.794	2.498	2.67 150.1
1	6500	1.673	32.638	34.700					

Station Water depth(m) Date/Time					Position				
ST03 3100-3100 29 Jan 15:51-16:57					32-45.4'N 141-19.9'E (START)				
1987					32-46.0'N 141-19.9'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	18.6			34.792	5.05	8.283	2.351	0.14 11.6
12	100	18.513	46.202	34.796	34.783	4.98	8.283	2.351	0.14 0.4
11	200	18.435	46.165	34.794	34.777	4.90	8.267	2.362	0.19 0.9
10	400				34.632	4.11	8.128	2.366	0.64 11.1
9	600	9.107	36.790	34.257	34.249	3.49	7.914	2.367	1.82 40.5
8	1000	4.021	32.402	34.281	34.266	1.27	7.638	2.429	2.91 114.3
7	1250	3.195	31.899	34.420	34.400	1.24	7.611	2.453	3.08 139.1
6	1500	2.693	31.621	34.488	34.481	1.27	7.612	2.473	3.02 153.2
5	1899	2.173	31.398	34.568	34.524	1.61	7.644	2.487	2.97 161.6
4	2199	1.928	31.338	34.609	34.594	2.07	7.698	2.492	2.94 165.0
3	2500	1.744	31.320	34.639	34.623	2.38	7.712	2.498	2.93 165.7
2	2800	1.569	31.304	34.665	34.650	2.79	7.750	2.500	2.96 163.6
1	3101	1.497	31.365	34.677	34.662	3.05	7.770	2.499	2.59 159.4

Station Water depth(m) Date/Time					Position				
ST04 4460-4850 29 Jan 19:15-20:49					32-45.6'N 141-30.6'E (START)				
1987					32-46.6'N 141-31.8'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	18.4			34.785	5.10	8.280	2.352	0.19 2.0
12	249	17.726	45.496	34.809	34.791	4.55	8.222	2.357	0.30 3.7
11	500	12.647	40.303	34.493	34.477	3.85	8.035	2.349	1.09 22.2
10	750	6.614	34.453	34.114	34.102	3.12	7.819	2.366	2.11 61.1
9	999	4.196	32.536	34.258	34.248	1.45	7.652	2.413	2.97 113.3
8	1250	3.263	31.930	34.385	34.383	0.97	7.615	2.440	3.09 139.3
7	1499	2.769	31.673	34.471	34.461	1.07	7.633	2.458	3.26 152.0
6	2000	2.050	31.347	34.587	34.662	2.97	7.784	2.480	2.62 160.6
5	3098	1.519	31.381	34.675	34.672	3.17	7.792	2.484	2.64 159.7
4	3399	1.471	31.456	34.683	34.676	3.31	7.799	2.486	2.63 155.0
3	3700	1.451	31.550	34.687	34.684	3.60	7.811	2.480	2.53 154.3
2	4000	1.419	31.633	34.694	34.696	3.64	7.818	2.480	2.45 151.7
1	4345	1.411	31.748	34.700					

Station Water depth(m) Date/Time					Position				
ST05 6850-6900 29 Jan 23:55-02:36					32-46.9'N 141-41.4'E (START)				
1987					32-48.1'N 141-43.2'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	18.4			34.810	5.06	8.286	2.365	0.18 2.4
12	301	16.699	44.445	34.761					
11	601	9.947	37.610	34.300	34.297	2.93	7.955	2.361	1.53 36.5
10	899	4.923	33.083	34.197	34.189	1.90	7.713	2.397	2.82 96.0
9	1201	3.376	31.990	34.363	34.357	0.97	7.634	2.443	3.19 137.3
8	1501	2.722	31.639	34.478	34.471	1.04	7.650	2.463	3.22 155.0
7	2000	2.068	31.362	34.586	34.578	1.74	7.690	2.481	3.02 162.5
6	3500	1.490	31.509	34.683	34.675	3.14	7.776	2.498	2.78 161.1
5	4800	1.484	31.959	34.697	34.688	3.61	7.824	2.485	2.58 153.6
4	5100	1.501	32.070	34.697	34.691	3.68	7.832	2.486	2.37 152.5
3	5406	1.529	32.191	34.699	34.692	3.69	7.826	2.484	2.54 150.6
2	5700	1.563	32.310	34.699	34.693	3.65	7.834	2.487	2.50 148.8
1	6002	1.601	32.432	34.699	34.696	3.69	7.836	2.482	2.62 148.8

Station Water depth(m) Date/Time					Position					
ST06 6800-7100 30 Jan 05:39-07:50 1987					32-46.5'N 141-51.2'E (START) 32-48.7'N 141-52.9'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O<sub>4</sub>-P</sub>	SiO <sub>2</sub> -Si
0	0	18.6			34.793	5.09	8.283	2.362	0.15	2.4
12	301	16.550	44.308	34.770						
11	601	9.469	37.146	34.278	34.270	3.50	7.940	2.364	1.57	39.9
10	903	4.994	33.142	34.191	34.191	1.88	7.679	2.401	2.65	94.8
9	1202	3.381	31.994	34.362	34.355	1.05	7.592	2.447	3.07	135.2
8	1500	2.707	31.616	34.468	34.465	0.95	7.600	2.462	3.26	156.7
7	2002	2.070	31.360	34.581	34.581	1.58	7.657	2.485	3.07	167.6
6	3499	1.494	31.511	34.682	34.679	3.19	7.780	2.495	2.66	161.4
5	4797	1.485	31.959	34.697	34.688	3.58	7.814	2.483	2.66	154.7
4	5100	1.511	32.078	34.697	34.689	3.66	7.817	2.480	2.60	153.3
3	5388	1.535	32.190	34.698	34.692	3.70	7.821	2.486	2.45	152.4
2	5693	1.567	32.310	34.697	34.691	3.76	7.822	2.487	2.45	151.8
1	5997	1.601	32.430	34.698	34.693	3.76	7.830	2.483	2.59	150.5

Station Water depth(m) Date/Time					Position					
ST08 8460-8340 31 Jan 19:38-21:38 1987					28-59.8'N 143-03.2'E (START) 28-59.6'N 143-03.3'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O<sub>4</sub>-P</sub>	SiO <sub>2</sub> -Si
0	0	19.4			34.466	5.06	8.286	2.360	0.14	2.5
12	300	16.385	44.116	34.745	34.738	4.41	8.181	2.361	0.49	7.3
11	599	9.131	36.831	34.276	34.228	3.62	7.923	2.360	1.53	39.3
10	899	4.761	32.948	34.207	34.205	1.71	7.656	2.401	2.73	96.9
9	1199	3.232	31.882	34.386	34.390	0.99	7.591	2.443	3.11	138.2
8	1500	2.536	31.498	34.504	34.499	1.13	7.602	2.466	3.03	156.3
7	1999	1.962	31.282	34.602	34.597	1.96	7.683	2.482	2.93	162.6
6	3500	1.486	31.504	34.681	34.680	3.21	7.769	2.488	2.51	156.5
5	4802	1.477	31.953	34.696	34.690	3.61	7.825	2.489	2.42	151.1
4	5100	1.503	32.071	34.696	34.692	3.67	7.832	2.487	2.37	149.9
3	5406	1.534	32.194	34.697	34.690	3.71	7.826	2.489	2.31	148.4
2	5700	1.568	32.313	34.697	34.692	3.72	7.825	2.487	2.38	148.1
1	6002	1.606	32.434	34.696	34.692	3.73	7.828	2.483	2.42	147.0

Station Water depth(m) Date/Time					Position					
ST09 9100-9100m 1 Feb 00:40-02:50 1987					28-54.3'N 142-55.0'E (START) 28-53.9'N 142-56.0' (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O<sub>4</sub>-P</sub>	SiO <sub>2</sub> -Si
0	0	19.6			34.805	5.00	8.286	2.356	0.10	2.5
12	300	17.001	44.776	34.790	34.785	4.59	8.210	2.355	0.37	4.8
11	601	9.749	37.400	34.274	34.273	3.64	7.947	2.355	1.49	35.4
10	900	4.898	33.053	34.188	34.192	1.79	7.670	2.394	2.67	92.0
9	1200	3.345	31.980	34.384	34.381	1.05	7.603	2.438	2.94	132.8
8	1500	2.606	31.555	34.499	34.495	1.25	7.622	2.463	3.02	150.4
7	1999	1.998	31.307	34.594	34.592		7.673	2.476	2.92	160.4
6	3500	1.501	31.515	34.678	34.675	3.20	7.774	2.484	2.64	151.1
5	4796	1.479	31.952	34.695	34.694	3.67	7.807	2.480	2.50	147.9
4	5100	1.503	32.071	34.696	34.692	3.67	7.805	2.482	2.44	147.4
3	5399	1.534	32.191	34.696	34.696	3.71	7.807	2.480	2.43	142.3
2	5700	1.568	32.312	34.696	34.692	3.70	7.814	2.479	2.47	146.9
1	6000	1.604	32.432	34.696						

Station Water depth(m) Date/Time				Position				
ST10 7050-7150 1 Feb 05:59-08:00				28-49.5'N 142-47.1'E (START)				
				28-49.5'N 142-47.5'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk
0	0	19.3		34.825		5.05	8.282	2.364
12	301	16.524	44.285	34.773	34.766	4.52	8.205	2.360
11	599	9.851	37.500	34.279	34.286	3.68	7.938	2.352
10	900	4.859	33.029	34.200	34.202		7.646	2.401
9	1201	3.255	31.912	34.397	34.395		7.629	2.444
8	1501	2.594	31.545	34.500	34.504	1.29	7.633	2.466
7	1999	1.956	31.278	34.604	34.605	2.07	7.702	2.480
6	3499	1.469	31.490	34.682	34.684	3.22	7.777	2.484
5	4801	1.469	31.944	34.694	34.697	3.64	7.801	2.482
4	5101	1.497	32.066	34.697	34.695	3.66	7.802	2.482
3	5405	1.531	32.190	34.696	34.697	3.69	7.802	2.482
2	5699	1.564	32.308	34.696	34.696	3.72	7.802	2.484
1	6017	1.603	32.436	34.696	34.696	3.67	7.806	2.480

Station Water depth(m) Date/Time				Position				
ST11 5000-5230m 1 Feb 10:56-12:38				28-45.4'N 142-38.5'E (START)				
				28-45.6'N 142-39.4'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk
0	0	20.4		34.917		4.56	8.299	2.359
12	299	16.490	44.264	34.784	34.775	4.91	8.214	2.293
11	601	10.225	37.834	34.266	34.269		7.979	2.343
10	900	5.111	33.225	34.169	34.169	1.99	7.675	2.384
9	1200	3.328	31.968	34.387	34.387	1.07	7.583	2.440
8	1501	2.646	31.582	34.489	34.494	1.17	7.606	2.458
7	1801	2.184	31.363	34.563	34.569	1.62	7.660	2.472
6	2000	2.030	31.332	34.590	34.593	1.95	7.682	2.472
5	3300	1.518	31.453	34.673	34.674	3.08	7.782	2.484
4	3601	1.469	31.526	34.682	34.679	3.23	7.795	2.487
3	3900	1.451	31.620	34.687	34.683	3.36	7.814	2.492
2	4200	1.446	31.722	34.690	34.690	3.50	7.818	2.489
1	4502	1.456	31.834	34.693	34.690	3.53	7.796	2.486

Station Water depth(m) Date/Time				Position				
ST12 4000-4010 1 Feb 15:00-16:26				28-40.2'N 142-29.6'E (START)				
				28-40.4'N 142-29.7'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk
0	0	19.7		34.871		5.08	8.290	2.359
12	299	16.751	44.521	34.784	34.764	4.76	8.215	2.353
11	600	9.592	37.206	34.224	34.213	3.97	7.933	2.346
10	899	4.980	33.083	34.139	34.128	1.91	7.675	2.381
9	1199	3.407	32.020	34.367	34.360	1.09	7.594	2.433
8	1499	2.666	31.598	34.489	34.482	1.35	7.620	2.455
7	1800	2.205	31.380	34.562	34.553	1.78	7.681	2.471
6	1999	1.997	31.306	34.594	34.587	2.00	7.689	2.475
5	2702	1.672	31.344	34.650	34.641	2.68	7.739	2.482
4	2999	1.573	31.383	34.665	34.657	2.91	7.751	2.481
3	3300	1.511	31.448	34.674	34.661	3.07	7.766	2.481
2	3600	1.481	31.536	34.681	34.672	3.23	7.804	2.480
1	3900	1.438	31.610	34.688	34.686	3.41	7.789	2.481

Station Water depth(m) Date/Time					Position				
ST13 2260-2260m 1 Feb 18:15-19:08 1987					28-34.4°N 142-20.9°E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	20.4			34.867	5.11	8.290	2.340	0.03
12	49	19.828	47.592	34.870	34.854	5.08	8.291	2.341	0.04
11	100	19.784	47.556	34.859	34.847	5.06	8.280	2.339	0.05
10	201	17.806	45.577	34.828	34.814	4.61	8.205	2.333	0.27
9	400	14.901	42.590	34.641	34.632	4.43	8.133	2.380	0.62
8	600	10.021	37.639	34.260	34.251	4.00	7.955	2.327	1.36 26.1
7	800	6.041	33.942	34.092	34.084	2.62	7.733	2.349	2.36 75.6
6	999	4.172	32.500	34.241	34.231	1.31	7.613	2.390	3.05 133.6
5	1152	3.473	32.051	34.359	34.349	1.11	7.550	2.417	3.11 158.9
4	1300	3.061	31.811	34.428	34.420	1.11	7.590	2.431	3.15 101.9
3	1600	2.465	31.491	34.520	34.519	1.27	7.676	2.434	3.16 156.9
2	1899	2.030	31.290	34.589	34.579	1.88	7.674	2.462	2.94 160.0
1	2202	1.796	31.239	34.627	34.623	2.45	7.695	2.465	2.88 156.4

Station Water depth(m) Date/Time					Position				
ST14 1970-1940 1 Feb 20:49-21:46 1987					28-30.2°N 142-13.0°E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	20.2			34.902	5.05	8.292	2.338	0.02 12
11	50	20.283	48.103	34.911	34.897	5.04	8.298	2.339	0.02
10	102	20.294	48.137	34.911	34.895	5.01	8.293	2.338	0.03
9	201	17.797	45.554	34.816	34.805	4.65	8.219	2.332	0.25
8	400	15.240	42.954	34.671	34.665	4.47	8.125	2.326	0.57
7	601	10.001	37.622	34.261	34.256	3.97	7.968	2.321	1.36 19.0
6	798	5.573	33.535	34.104	34.098	2.33	7.695	2.352	2.50 82.4
5	999	4.148	32.483	34.245	34.235	1.33	7.634	2.392	2.93 111.4
4	1101	3.682	32.186	34.328	34.318	1.19	7.594	2.417	3.07 125.6
3	1398	2.736	31.609	34.479	34.471	1.34	7.620	2.442	3.17 143.8
2	1699	2.212	31.342	34.559	34.550	1.61	7.631	2.456	3.01 140.0
1	1922	2.039	31.306	34.587	34.587	1.97	7.675	2.458	3.02 132.3

Station Water depth(m) Date/Time					Position				
STHU1 5800-5810 3 Feb 02:45-05:48 1987					23-30.3°N 144-59.3°E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	24.4			35.057	4.79	8.363	2.366	0.04 0.84
12	100	21.852	49.737	34.921	34.905	4.73	8.287	2.354	0.05 1.30
11	201	17.150	44.894	34.801	34.792	4.48	8.211	2.343	0.31 3.47
10	400	13.252	40.847	34.501	34.493	4.15	8.044	2.333	0.82 14.7
9	600	8.367	36.048	34.191	34.186	2.98	7.868	2.340	1.70 43.0
8	800	5.239	33.338	34.217	34.210	1.77	7.717	2.401	2.69 88.1
7	1000	3.835	32.293	34.346	34.341	1.28	7.617	2.420	2.92 120.8
6	1196	3.243	31.950	34.457	34.452	1.42	7.644	2.436	2.98 134.9
5	1399	2.772	31.676	34.521	34.519	1.68	7.682	2.447	2.92 143.4
4	1598	2.427	31.486	34.556	34.553	1.86	7.716	2.460	2.92 148.4
3	2002	2.032	31.352	34.612	34.605	2.41	7.746	2.468	2.73 150.0
2	4002	1.477	31.680	34.689	34.683	3.51	7.802	2.474	2.52 149.6
1	5707	1.542	32.295	34.701	34.695	3.88	7.824	2.468	2.43 141.6

Station Water depth(m) Date/Time					Position					
ST18 6200-6200 3 Feb 14:25-16:21 1987					21-59.1'N 145-34.0'E (START) 21-59.0'N 145-34.5'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O<sub>4</sub>-P</sub>	SiO <sub>2</sub> -Si
0	0	25.4			34.967	4.62			0.06	0.99
12	299	16.251	43.989	34.750	34.743	4.58			0.39	5.79
11	599	8.453	36.126	34.191	34.187	3.08			1.95	42.6
10	899	4.685	32.981	34.323	34.319	1.31			2.91	100.2
9	1199	3.262	31.989	34.482	34.472	1.48			2.96	133.6
8	1500	2.582	31.576	34.551	34.544	1.85			2.85	145.5
7	2000	1.996	31.326	34.619	34.613	2.42			2.76	152.0
6	3500	1.470	31.494	34.685	34.677	3.32			2.55	152.4
5	4800	1.456	31.937	34.700	34.692	3.78			2.48	144.5
4	5100	1.474	32.051	34.703	34.692	3.79			2.37	142.8
3	5400	1.505	32.170	34.701	34.694	3.82			2.40	141.1
2	5700	1.537	32.290	34.702	34.694	3.87			2.44	141.6
1	6005	1.574	32.412	34.702	34.693	3.87			2.44	141.2

Station Water depth(m) Date/Time					Position					
ST17 4510-4530 3 Feb 18:49-20:17 1987					21-53.0'N 145-26.2'E (START) 21-52.9'N 145-26.7'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O<sub>4</sub>-P</sub>	SiO <sub>2</sub> -Si
0	0	25.1			34.962				0.06	
12	300	16.309	44.050	34.753	34.690				1.21	42.7
11	600	8.393	36.062	34.180	34.183				2.88	107.4
10	900	4.409	32.750	34.338	34.335				3.10	138.3
9	1200	3.132	31.865	34.470	34.462				2.94	147.5
8	1500	2.500	31.511	34.558	34.552				2.97	150.8
7	1799	2.143	31.357	34.600	34.591				2.78	153.2
6	2000	1.958	31.295	34.622	34.613				2.57	153.4
5	3299	1.489	31.434	34.681	34.675				2.67	153.0
4	3599	1.473	31.531	34.684	34.675				2.59	150.9
3	3898	1.445	31.618	34.691	34.680				2.48	148.2
2	4199	1.428	31.710	34.695	34.689				2.42	146.2
1	4500	1.430	31.816	34.699	34.687				2.44	145.8

Station Water depth(m) Date/Time					Position					
ST16 4460-4290m 3 Feb 22:52-00:25 1987					21-45.8'N 145-18.4'E (START) 21-45.0'N 145-19.1'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O<sub>4</sub>-P</sub>	SiO <sub>2</sub> -Si
0	0	25.0			34.564				0.06	
12	300	16.821	44.591	34.784	34.773				8.210	2.344
11	600	8.943	36.589	34.204	34.195				7.909	2.339
10	901	4.351	32.674	34.308	34.305				7.639	2.400
9	1201	3.167	31.913	34.490	34.485				7.668	2.437
8	1501	2.522	31.530	34.558	34.547				7.698	2.453
7	1800	2.149	31.362	34.599	34.593				7.723	2.460
6	2000	1.960	31.293	34.618	34.614				7.731	2.465
5	3194	1.520	31.419	34.677	34.668				7.739	2.472
4	3500	1.479	31.500	34.684	34.674				7.805	2.472
3	3792	1.461	31.592	34.688	34.678				7.808	2.470
2	4100	1.425	31.672	34.693	34.683				7.813	2.469
1	4405	1.426	31.780	34.698	34.687				7.815	2.468

Station Water depth(m) Date/Time Position  
ST15 3670-3700m 4 Feb 02:38-03:48 21-39.7'N 145-10.3'E (START)  
    1987 21-39.4'N 145-10.7'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P	SiO <sub>2</sub> -Si
0	0	24.6		35.010		4.67	8.359	2.360	0.05	
12	300	16.902	44.683	34.793	34.785	4.74	8.218	2.343	0.30	2.9
11	600	9.001	36.653	34.215	34.205		7.907	2.341	1.62	37.7
10	900	4.293	32.628	34.315	34.309	1.34	7.630	2.410	2.91	110.3
9	1200	3.250	31.984	34.488	34.488	1.60	7.651	2.447	3.07	133.5
8	1500	2.559	31.556	34.551	34.548	1.86	7.675	2.464	2.98	147.4
7	1801	2.192	31.399	34.599	34.590	2.25	7.705	2.466	2.84	150.8
6	2001	1.943	31.278	34.617	34.609	2.41	7.723	2.470	2.77	154.7
5	2400	1.730	31.277	34.648	34.640	2.80	7.748	2.476	2.75	154.6
4	2701	1.655	31.338	34.661	34.651	2.93	7.762	2.480	2.76	154.5
3	2996	1.550	31.369	34.673	34.663	3.13	7.772	2.477	2.63	154.2
2	3300	1.475	31.423	34.682	34.672	3.31	7.788	2.476	2.72	153.7
1	3598	1.431	31.499	34.690	34.678	3.49	7.798	2.478	2.60	150.9

Station Water depth(m) Date/Time Position  
STH12 2740-2700 5 Feb 12:13-13:09 14-59.9'N 145-00.2'E (START)  
    1987 14-59.7'N 145-00.5'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P	SiO <sub>2</sub> -Si
0	0	27.2								
12	200	17.813	45.576	34.821						
11	399	9.577	37.166	34.286						
10	601	5.779	33.882	34.385						
9	800	4.850	33.236	34.498						
8	1001	4.123	32.704	34.530						
7	1198	3.569	32.323	34.559						
6	1399	3.024	31.948	34.583						
5	1599	2.665	31.732	34.602						
4	1800	2.363	31.564	34.618						
3	2001	2.076	31.407	34.633						
2	2499	1.733	31.326	34.659						
1	2699	1.644	31.334	34.668						

Station Water depth(m) Date/Time					Position				
STC201 3200-3170 8 Feb 19:22-20:24 1987					12-59.7'N 143-59.3'E (START) 12-59.5'N 143-59.1'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	27.2			34.222	4.43	8.315	2.289	0.10 0.1
12	101	25.392	53.410	34.929	34.908	4.46	8.303	2.334	0.13 1.2
11	250	12.712	40.216	34.454	34.448	3.56	7.995	2.313	1.08 17.2
10	500	6.607	34.649	34.457	34.447	1.56	7.719	2.369	2.54 66.6
9	750	5.084	33.434	34.509	34.502	1.77	7.693	2.389	2.62 86.6
8	1000	4.016	32.624	34.548	34.539	1.91	7.722	2.412	2.82 108
7	1250	3.228	32.059	34.576	34.569	2.07	7.738	2.434	2.88 127
6	1502	2.757	31.763	34.591	34.591	2.14	7.703	2.438	2.79 141
5	1750	2.273	31.467	34.620	34.617	2.34	7.706	2.450	2.79 148
4	1998	2.046	31.382	34.636	34.631	2.54	7.723	2.457	2.73 148
3	2101	1.979	31.369	34.640	34.636	2.54	7.735	2.455	2.67 149
2	3000	1.606	31.419	34.674	34.667	3.08	7.750	2.459	2.62 152
1	3099	1.604	31.454	34.674	34.663	3.13	7.778	2.464	2.62 152

Station Water depth(m) Date/Time					Position				
STC202 4160-4140m 9 Feb 04:12-05:42 1987					11-59.8'N 142-59.7'E (START) 11-59.3'N 142-59.2'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	27.1			34.255	4.53	8.343	2.292	0.11 1.3
12	51	27.154	54.300	34.267	34.681	3.45	7.783	2.460	2.60 148
11	149	20.802	48.823	35.031	35.031	3.85	8.194	2.339	0.32 3.0
10	300	10.269	37.839	34.361	34.348	2.62	7.862	2.320	1.68 29.7
9	501	7.517	35.514	34.497	34.488	1.44	7.692	2.355	2.50 54.6
8	750	5.590	33.886	34.508	34.503	1.78	7.710	2.379	2.61 77.0
7	1001	4.427	32.986	34.544	34.543	1.91	7.711	2.405	2.72 102
6	1250	3.534	32.322	34.568	34.563	2.00	7.696	2.429	2.77 118
5	1496	2.851	31.847	34.595	34.589	2.15	7.709	2.442	2.69 132
4	1750	2.406	31.578	34.615	34.617	2.38	7.728	2.453	2.67 144
3	2001	2.155	31.477	34.634	34.628	2.53	7.728	2.453	2.62 145
2	3100	1.540	31.402	34.677	34.670	3.21	7.784	2.464	2.58 149
1	4098	1.507	31.738	34.688	34.679	3.49	7.787	2.464	2.59 148

Station Water depth(m) Date/Time					Position				
STC203 2970-2910m 9 Feb 13:08-15:18 1987					12-59.8'N 142-00.0'E (START) 12-58.9'N 141-59.8'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	27.0			34.266	4.55	8.379	2.305	0.07 1.1
12	50	27.076	54.216	34.261	34.249	4.43	8.384	2.303	0.08 1.2
11	153	21.871	49.974	35.078	35.072	3.87	8.248	2.361	0.33 2.7
10	301	11.501	39.045	34.411	34.417	2.87	7.934	2.336	1.96 26.5
9	499	7.838	35.774	34.461	34.454	1.37	7.718	2.368	2.34 55.8
8	751	5.586	33.870	34.493	34.488	1.71	7.724	2.396	2.56 78.4
7	999	4.155	32.741	34.541	34.533	1.89	7.714	2.427	2.80 105
6	1250	3.353	32.158	34.563	34.559	1.95	7.719	2.445	2.73 123
5	1500	2.759	31.764	34.591	34.586	2.14	7.733	2.455	2.67 136
4	1749	2.348	31.526	34.613	34.609	2.34	7.744	2.464	2.75 143
3	1891	2.178	31.444	34.623	34.619	2.43	7.740	2.469	2.76 146
2	2500	1.702	31.302	34.662	34.656	2.91	7.806	2.480	2.54 150
1	2740	1.660	31.363	34.668	34.665	3.07	7.791	2.477	2.51 151

Station Water depth(m) Date/Time					Position				
STC204 4200-4500m 9 Feb 22:10-23:45					11-58.7'N 140-59.9'E (START)				
1987					11-57.5'N 140-59.3'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	D0	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	27.0			34.316	4.53	8.378	2.304	0.07 0.8
12	50	27.114	54.340	34.321	34.306	4.45	8.376	2.294	0.08 1.5
11	149	19.827	47.753	34.967	34.959	3.85	8.182	2.344	0.64 3.9
10	299	10.784	38.494	34.536	34.527	1.71	7.827	2.340	2.09 31.9
9	501	7.183	35.210	34.497	34.490	1.55	7.727	2.355	2.40 57.1
8	773	5.632	33.942	34.517	34.509	1.70	7.728	2.385	2.61 74.1
7	1000	4.569	33.105	34.536	34.533	1.84	7.745	2.409	2.77 97.6
6	1252	3.633	32.404	34.561	34.555	1.98	7.708	2.434	2.79 116
5	1501	2.865	31.856	34.589	34.578	2.09	7.725	2.450	2.73 133
4	2000	2.043	31.380	34.635	34.628	2.64	7.741	2.464	2.69 146
3	2495	1.683	31.285	34.664	34.655	2.90	7.773	2.468	2.54 150
2	3099	1.565	31.423	34.677	34.668	2.90	7.794	2.471	2.56 151
1	4098	1.492	31.727	34.690	34.681	3.43	7.824	2.468	2.58 150

Station Water depth(m) Date/Time					Position				
STC205 4620-4600 10 Feb 9:37-11:27					12-58.1'N 139-59.1'E (START)				
1987					12-56.3'N 139-57.5'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	D0	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	26.8			34.576	4.44	8.377	2.325	0.06 1.2
12	250	14.208	41.762	34.558	34.546	3.76	8.096	2.328	0.82 11.8
11	500	7.318	35.276	34.436	34.434	1.41	7.726	2.365	2.56 59.3
10	756	5.631	33.911	34.491	34.489	1.64	7.752	2.391	2.56 77.8
9	999	4.467	33.011	34.533	34.536	1.86	7.729	2.413	2.80 98.4
8	1249	3.380	32.188	34.571	34.572	2.04	7.738	2.433	2.70 122
7	1500	2.738	31.753	34.600	34.603	2.19	7.745	2.447	2.81 134
6	2002	2.021	31.365	34.639	34.641	2.62	7.759	2.464	2.70 149
5	2500	1.675	31.280	34.663	34.660	2.94	7.779	2.471	2.53 150
4	3000	1.621	31.429	34.670	34.665	3.07	7.799	2.466	2.57 150
3	3580	1.549	31.587	34.680	34.675	3.28	7.837	2.467	2.52 149
2	4099	1.490	31.723	34.688	34.684	3.55	7.821	2.464	2.44 146
1	4585	1.483	31.885	34.693	34.688	3.73	7.852	2.460	2.44 146

Station Water depth(m) Date/Time					Position				
STC206 5950-5520 10 Feb 19:38-21:50					11-59.9'N 138-58.8'E (START)				
1987					11-59.2'N 138-56.8'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	D0	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	27.0			34.351	4.48	8.373	2.306	0.08 1.3
12	251	12.814	40.370	34.508	34.485	3.04	7.976	2.326	1.21 21.0
11	501	6.923	34.988	34.459	34.454	1.47	7.740	2.368	2.80 62.4
10	750	5.449	33.762	34.510	34.507	1.70	7.711	2.393	2.77 80.1
9	1003	4.392	32.957	34.546	34.540	1.82	7.716	2.412	2.81 99.2
8	1502	2.831	31.833	34.597	34.593	2.15	7.726	2.450	2.78 134
7	1999	2.171	31.488	34.631	34.625	2.51	7.772	2.463	2.75 148
6	2500	1.757	31.348	34.659	34.652	2.87	7.777	2.466	2.68 149
5	3000	1.584	31.400	34.673	34.666	3.13	7.807	2.468	2.64 148
4	3499	1.528	31.541	34.682	34.677	3.33	7.818	2.466	2.56 147
3	3989	1.484	31.680	34.688	34.682	3.42	7.817	2.464	2.54 147
2	4800	1.458	31.936	34.696	34.691	3.73	7.832	2.454	2.50 145
1	5800	1.560	32.337	34.697	34.692	3.83	7.824	2.453	2.48 143

Station Water depth(m) Date/Time					Position				
<u>STC207 4260-4500m 11 Feb 6:36-08:04 1987</u>					12-59.9'N 137-58.8'E (START) 12-59.9'N 137-58.3'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	26.9			34.540	4.47	8.348	2.326	0.09 1.4
12	101	26.565	54.430	34.779	34.723	4.42	8.362	2.264	0.07 1.4
11	200	16.997	44.705	34.769	34.764	3.98	8.135	2.339	0.49 6.5
10	401	8.898	36.661	34.411	34.404	1.69	7.749	2.351	2.22 52.2
9	601	6.006	34.150	34.456	34.447	1.57	7.706	2.383	2.60 74.4
8	802	5.045	33.426	34.515	34.503	1.78	7.711	2.404	2.81 95.5
7	1001	4.159	32.746	34.541	34.531	1.89	7.754	2.424	2.87 105
6	1248	3.240	32.065	34.572	34.560	2.10	7.715	2.442	2.86 126
5	1500	2.743	31.758	34.600	34.591	2.18	7.722	2.452	2.74 135
4	1749	2.386	31.563	34.618	34.609	2.41	7.734	2.461	2.73 141
3	2000	2.171	31.488	34.631	34.622	2.51	7.723	2.473	2.73 148
2	3201	1.586	31.476	34.674	34.666	3.18	7.780	2.481	2.63 148
1	4202	1.437	31.716	34.692	34.683	3.65	7.830	2.460	2.53 144

Station Water depth(m) Date/Time					Position				
<u>STC208 4950-4900 11 Feb 23:01-00:50 1987</u>					11-59.7'N 136-59.2'E (START) 11-59.1'N 136-58.5'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	27.3			34.335	4.44	8.371	2.333	0.03 1.0
12	251	11.123	38.658	34.402	34.390	2.67	7.896	2.434	1.64 25.1
11	501	7.002	35.026	34.476	34.466	1.50	7.731	2.383	2.56 60.0
10	752	5.443	33.765	34.519	34.510	1.69	7.721	2.407	2.65 78.2
9	1000	4.428	32.983	34.540	34.533	1.80	7.716	2.421	2.71 97.9
8	1500	2.844	31.842	34.595	34.588	2.09	7.734	2.457	2.76 133
7	2000	2.156	31.475	34.632	34.625	2.47	7.757	2.466	2.70 146
6	2499	1.797	31.380	34.656	34.649	2.84	7.776	2.476	2.74 150
5	2997	1.639	31.443	34.669	34.660	3.01	7.774	2.478	2.56 151
4	3500	1.564	31.569	34.677	34.669	3.24	7.792	2.477	2.46 150
3	3900	1.507	31.668	34.687	34.676	3.35	7.789	2.478	2.47 148
2	4402	1.496	31.834	34.691	34.680	3.55	7.774	2.481	2.46 144
1	4899	1.538	32.034	34.692	34.679	3.60	7.828	2.471	2.46 144

Station Water depth(m) Date/Time					Position				
<u>STC008 5300-5290 12 Feb 06:31-08:23 1987</u>					12-29.4'N 136-28.8'E (START) 12-29.2'N 136-28.6'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	27.1							
12	250	12.307	39.892	34.513	34.492				
11	501	7.056	35.032	34.430	34.421				
10	750	5.453	33.758	34.502	34.495				
9	999	4.282	32.852	34.539	34.545				
8	1502	2.902	31.892	34.593	34.589				
7	1999	2.157	31.476	34.632	34.629				
6	2501	1.815	31.396	34.655	34.650				
5	3000	1.610	31.420	34.671	34.668				
4	3500	1.540	31.550	34.680	34.672				
3	4000	1.493	31.692	34.688	34.682				
2	4500	1.521	31.887	34.690	34.683				
1	5200	1.588	32.170	34.689	34.686				

Station Water depth(m) Date/Time					Position				
STC209 5100-5180 12 Feb 13:32-15:21					12-59.0'N 135-59.0'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O4-P</sub> SiO <sub>2</sub> -Si
0	0	27.0		34.339	4.43	8.368	2.324	0.04	0.7
12	250	14.559	42.110	34.566	34.578	3.97	8.092	2.332	0.81
11	501	6.960	34.922	34.404	34.399	1.51	7.717	2.364	2.63
10	750	5.320	33.652	34.517	34.517	1.84	7.723	2.396	2.66
9	1000	4.271	32.850	34.547	34.548	1.91	7.714	2.418	2.70
8	1499	2.956	31.936	34.590	34.591	2.20	7.728	2.445	2.71
7	1999	2.244	31.548	34.627	34.628	2.51	7.703	2.461	2.66
6	2499	1.831	31.406	34.652	34.650	2.80	7.768	2.467	2.60
5	2995	1.618	31.424	34.670	34.668	3.11	7.783	2.473	2.64
4	3500	1.537	31.547	34.679	34.677	3.39	7.805	2.470	2.57
3	4105	1.497	31.731	34.687	34.684	3.59	7.831	2.468	2.50
2	4600	1.525	31.923	34.689	34.687	3.67	7.815	2.466	2.45
1	5060	1.573	32.114	34.691	34.687	3.57	7.813	2.466	2.40
									144

Station Water depth(m) Date/Time					Position				
STC210 4710-5000 12 Feb 21:31-23:00					12-00.0'N 135-58.8'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O4-P</sub> SiO <sub>2</sub> -Si
0	0	27.1		34.317	4.52	8.375	2.315	0.06	0.8
12	101	23.582	51.630	35.004	35.002	4.15	8.274	2.377	0.18
11	202	14.884	42.469	34.624	34.614	3.14	8.049	2.350	1.06
10	400	8.087	35.980	34.484	34.479	1.52	7.739	2.371	2.40
9	600	6.391	34.532	34.495	34.491	1.58	7.734	2.389	2.61
8	800	5.247	33.605	34.514	34.511	1.78	7.727	2.404	2.67
7	1010	4.447	33.004	34.541	34.537	1.91	7.724	2.421	2.74
6	1250	3.484	32.279	34.570	34.568	2.04	7.723	2.446	2.86
5	1502	3.023	31.883	34.455	34.590	2.21	7.719	2.458	2.80
4	1999	2.219	31.671	34.805	34.624	2.52	7.742	2.471	2.70
3	3000	1.625	31.686	34.983	34.664	3.13	7.791	2.482	2.63
2	3599	1.519	31.568	34.680	34.678	3.34	7.814	2.480	2.58
1	4588	1.527	31.920	34.688	34.685	3.62	7.816	2.476	2.56
									145

Station Water depth(m) Date/Time					Position				
STC211 4490-4500 13 Feb 02:37-04:10					11-59.7'N 135-29.5'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O4-P</sub> SiO <sub>2</sub> -Si
0	0	27.1		34.186	4.45	8.365	2.295	0.05	0.8
12	101	22.754	50.826	35.047	35.022	4.12	8.246	2.355	0.19
11	201	14.705	42.267	34.600	34.494	3.67	8.060	2.328	0.84
10	400	7.921	35.819	34.474	34.473	1.61	7.751	2.363	2.36
9	598	6.205	34.366	34.499	34.496	1.72	7.718	2.391	2.59
8	800	5.226	33.591	34.519	34.516	1.80	7.748	2.397	2.75
7	1000	4.378	32.938	34.539	34.539	2.06	7.704	2.418	2.79
6	1250	3.424	32.228	34.572	34.571	2.24	7.746	2.442	2.87
5	1500	2.862	31.855	34.592	34.595	2.23	7.688	2.449	2.85
4	2000	2.206	31.518	34.631	34.633	3.57	7.782	2.466	2.72
3	3003	1.604	31.414	34.668	34.670	3.13	7.809	2.470	2.62
2	3399	1.522	31.496	34.677	34.678	3.36	7.808	2.469	2.58
1	4400	1.532	31.859	34.685	34.682	3.58	7.853	2.466	2.51
									145

Station Water depth(m) Date/Time					Position				
STC212 4600-4560 13 Feb 07:47-09:25 1987					11-59.8'N 134-58.7'E (START) 11-59.5'N 134-57.9'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	27.1			34.332	4.31	8.340	2.295	0.06 0.6
12	102	22.021	50.087	35.056	35.047	3.87	8.227	2.348	0.18 2.1
11	202	13.264	40.767	34.496	34.594	3.21	7.981	2.317	1.17 16.4
10	398	7.878	35.774	34.469	34.470	1.47	7.754	2.350	2.42 51.0
9	601	6.499	34.624	34.489	34.486	1.64	7.763	2.369	2.66 64.8
8	800	5.161	33.530	34.516	34.515	1.70	7.724	2.389	2.75 84.2
7	1000	4.434	32.986	34.537	34.536	1.78	7.690	2.410	2.85 98.7
6	1249	3.585	32.362	34.563	34.564	1.90	7.704	2.424	2.83 117
5	1502	2.880	31.872	34.592	34.590	2.07	7.723	2.443	2.80 132
4	2001	2.242	31.546	34.626	34.625	2.37	7.763	2.457	2.69 144
3	3012	1.622	31.432	34.667	34.664	3.03	7.785	2.466	2.54 149
2	3550	1.532	31.560	34.678	34.674	3.21	7.816	2.465	2.55 148
1	4549	1.532	31.910	34.686	34.683	3.41	7.823	2.465	2.42 146

Station Water depth(m) Date/Time					Position				
STC213 3400-3200 13 Feb 12:32-13:46 1987					12-00.1'N 134-29.7'E (START) 12-00.0'N 134-29.6'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	27.1			34.355	4.44	8.348	2.308	0.05 1.4
12	100	23.372	51.458	35.041	35.010	3.99	8.273	2.346	0.12 2.1
11	200	14.045	41.572	34.548	34.552	3.35	8.039	2.324	0.95 13.0
10	399	7.969	35.852	34.463	34.461	1.47	7.756	2.357	2.39 51.1
9	601	6.009	34.180	34.487	34.483	1.59	7.749	2.383	2.68 71.8
8	801	5.197	33.565	34.518	34.516	1.72	7.701		2.71 88.8
7	1000	4.339	32.906	34.541	34.540	1.94	7.772	2.417	2.73 100
6	1249	3.415	32.217	34.569	34.565	1.92	7.705	2.440	2.88 121
5	1500	2.948	31.927	34.588	34.589	2.09	7.703	2.453	2.78 131
4	2000	2.224	31.530	34.626	34.625	2.41	7.752	2.468	2.67 144
3	2349	1.895	31.396	34.646	34.643	2.66	7.745	2.468	2.59 148
2	2900	1.630	31.396	34.666	34.663	2.98	7.759	2.473	2.63 149
1	3353	1.568	31.516	34.673	34.670	3.14	7.793	2.479	2.61 148

Station Water depth(m) Date/Time					Position				
STC214 5400-5480 13 Feb 17:46-19:35 1987					11-58.7'N 133-59.1'E (START) 11-57.9'N 133-58.3'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	27.2			34.287	4.24	8.370	2.296	0.08 1.6
12	101	22.010	50.114	35.089	35.078	3.74	8.204	2.352	0.24 3.4
11	200	13.829	41.360	34.545	34.539	3.14	7.999	2.328	1.14 16.5
10	402	8.172	36.038	34.461	34.458	1.46	7.753	2.352	2.36 50.0
9	601	6.206	34.356	34.485	34.482	1.56	7.715	2.377	2.66 68.8
8	802	5.154	33.527	34.519	34.515	1.89	7.719	2.397	2.80 85.8
7	1000	4.234	32.816	34.546	34.543	1.97	7.714	2.418	2.84 102
6	1250	3.471	32.266	34.568	34.567	1.97	7.714	2.431	2.86 119
5	1499	2.871	31.864	34.594	34.592	2.14	7.741	2.446	2.87 131
4	1998	2.247	31.550	34.627	34.624	2.41	7.749	2.460	2.73 142
3	3000	1.637	31.438	34.665	34.660	2.96	7.755	2.469	2.70 149
2	4346	1.591	31.888	34.680	34.674	3.30	7.810	2.466	2.62 147
1	5366	1.713	32.322	34.680	34.674	3.29	7.803	2.467	2.56 147

Station Water depth(m) Date/Time					Position				
STC215 5550-5600 14 Feb 02:49-04:50					12-59.7'N 133-58.6'E(START)				
1987					12-59.2'N 133-57.0'E ( END )				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	D0	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	27.1			34.315	4.51	8.360	2.287	0.09 1.3
12	251	12.530	40.060	34.471	34.458	3.08	7.963	2.317	1.34 20.1
11	502	6.961	34.974	34.460	34.448	1.66	7.696	2.363	2.57 60.8
10	751	5.430	33.752	34.518	34.506	2.06	7.708	2.380	2.81 77.8
9	1000	4.475	33.027	34.542	34.535	1.94	7.710	2.401	2.87 94.6
8	1500	3.061	32.015	34.574	34.563	2.15	7.739	2.435	2.81 130
7	2000	2.178	31.487	34.623	34.614	2.51	7.730	2.455	2.77 145
6	2500	1.752	31.339	34.654	34.646	2.88	7.764	2.460	2.71 150
5	2998	1.582	31.394	34.669	34.662	3.34	7.793	2.460	2.67 148
4	3699	1.534	31.615	34.679	34.669	3.45	7.801	2.464	2.56 147
3	4491	1.605	31.948	34.679	34.672	3.43	7.800	2.466	2.54 147
2	4997	1.666	32.166	34.680	34.672	3.45	7.816	2.466	2.53 147
1	5503	1.731	32.379	34.679	34.672	3.47	7.788	2.466	2.52 146

Station Water depth(m) Date/Time					Position				
STC011 5660-5660 14 Feb 09:46-11:38					12-31.2'N 133-30.8'E ( START )				
1987					12-32.1'N 133-31.4'E ( END )				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	D0	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	27.2							
12									
11	1014	4.638	33.178	34.543					
10									
9	1991	2.314	31.600	34.621					
8									
7	2493	1.858	31.424	34.648					
6									
5	3003	1.634	31.437	34.665					
4									
3	4585	1.617	31.990	34.680					
2									
1	5602	1.745	32.420	34.678					

Station Water depth(m) Date/Time					Position				
STC216 5830-5700m 14 Feb 17:04-19:07					11-59.7'N 132-58.6'E ( START )				
1987					11-59.4'N 132-58.4'E ( END )				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	D0	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	26.9			34.389	4.57	8.375	2.296	0.06 1.4
12	250	11.673	39.244	34.469	34.454	2.65	7.918	2.319	1.65 27.8
11	501	6.781	34.811	34.460	34.449	1.61	7.714	2.360	2.66 63.2
10	750	5.359	33.685	34.515	34.503	1.84	7.724	2.387	2.78 80.2
9	1000	4.376	32.939	34.543	34.531	1.91	7.722	2.405	2.81 100
8	1501	2.944	31.926	34.590	34.579	2.21	7.725	2.439	2.79 130
7	1999	2.281	31.579	34.626	34.611	2.52	7.763	2.452	2.71 142
6	2500	1.859	31.428	34.649	34.637	2.85	7.767	2.459	2.71 149
5	2999	1.630	31.433	34.666	34.651	3.15	7.780	2.460	2.59 150
4	3501	1.550	31.555	34.675	34.660	3.33	7.796	2.455	2.48 148
3	4002	1.560	31.743	34.679	34.668	3.38	7.806	2.459	2.47 147
2	4800	1.641	32.081	34.680	34.663	3.46	7.802	2.461	2.53 146
1	5420	1.719	32.343	34.679	34.668	3.47	7.801	2.460	2.53 146

Station Water depth(m) Date/Time					Position				
STC218 5800-5910 15 Feb 15:52-17:50 1987					13-00.5'N 131-59.1'E (START) 13-00.4'N 131-58.3'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	26.9			34.569	4.52	8.370	2.309	0.06 1.3
12	100	23.615	51.795	35.107	35.094	4.05	8.279	2.343	0.12 2.4
11	201	14.043	41.574	34.551	34.545	3.43	8.038	2.316	1.05 15.5
10	400	8.163	36.004	34.433	34.428	1.50	7.751	2.341	2.43 49.2
9	599	6.233	34.378	34.484	34.491	1.68	7.716	2.372	2.70 69.4
8	800	5.213	33.570	34.508	34.507	2.07	7.719	2.388	2.81 84.3
7	1000	4.361	32.918	34.534	34.536	1.92	7.712	2.407	2.83 101
6	1251	3.563	32.343	34.563	34.560	1.99	7.703	2.427	2.86 116
5	1500	2.812	31.803	34.582	34.582	2.23	7.732	2.440	2.84 136
4	2000	2.054	31.384	34.629	34.625	2.63	7.755	2.454	2.67 146
3	3496	1.540	31.543	34.673	34.672	3.36	7.808	2.460	2.62 147
2	4700	1.627	32.035	34.679	34.673	3.45	7.814	2.461	2.56 146
1	5709	1.755	32.461	34.678	34.673	3.43	7.812	2.460	2.51 147

Station Water depth(m) Date/Time					Position				
STC219 5770-5610 16 Feb 01:01-02:53 1987					11-59.5'N 131-59.6'E (START) 11-58.3'N 131-59.4'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	26.9			34.323	4.76	8.359	2.308	0.04 1.5
12	251	11.434	38.976	34.427	34.417	2.91	7.924	2.333	1.59 25.6
11	501	6.612	34.656	34.459	34.461	1.60	7.715	2.372	2.58 65.6
10	751	5.343	33.663	34.506	34.506	1.82	7.718	2.395	2.81 81.9
9	1002	4.366	32.928	34.539	34.537	1.94	7.726	2.421	2.87 100
8	1501	2.950	31.929	34.587	34.592	2.20	7.720	2.452	2.75 130
7	1999	2.195	31.504	34.626	34.633	2.58	7.732	2.464	2.72 144
6	2498	1.812	31.388	34.651	34.654	2.87	7.757	2.468	2.71 150
5	3000	1.626	31.429	34.665	34.663	3.12	7.766	2.472	2.59 151
4	3498	1.558	31.560	34.674	34.676	3.35	7.797	2.473	2.51 148
3	3995	1.556	31.737	34.678	34.681	3.40	7.799	2.474	2.45 148
2	4699	1.627	32.034	34.678	34.683	3.43	7.743	2.478	2.48 147
1	5701	1.754	32.458	34.678	34.683	3.51	7.801	2.474	2.42 147

Station Water depth(m) Date/Time					Position				
STC220 5920-5730 16 Feb 11:40-13:43 1987					12-58.6'N 129-58.9'E (START) 12-58.0'N 129-57.2'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	26.7			34.345	4.57	8.370	2.304	0.05 2.0
12	250	13.280	40.801	34.494	34.493	3.82	8.060	2.326	1.00 14.4
11	502	6.267	34.221	34.322	34.323	1.96	7.766	2.373	2.46 76.3
10	749	5.366	33.689	34.513	34.516	1.90	7.723	2.388	2.72 78.9
9	996	4.357	32.920	34.542	34.545	1.96	7.745	2.412	2.86 99.1
8	1501	2.897	31.876	34.580	34.586	2.26	7.733	2.446	2.86 132
7	2001	2.097	31.422	34.629	34.634	2.62	7.792	2.465	2.78 145
6	2499	1.750	31.336	34.653	34.653	2.92	7.772	2.465	2.71 149
5	3001	1.605	31.412	34.667	34.666	3.18	7.771	2.469	2.70 149
4	3499	1.550	31.553	34.674	34.672	3.33	7.813	2.468	2.57 148
3	3990	1.555	31.734	34.678	34.676	3.44	7.819	2.468	2.57 146
2	4899	1.647	32.116	34.678	34.678	3.50	7.817	2.464	2.57 146
1	5898	1.776	32.585	34.677	34.678	3.47	7.823	2.468	2.57 146

Station Water depth(m) Date/Time					Position				
<u>STC221</u> 5660-5700 17 Feb 22:04-24:00					11-59.4'N 128-58.3'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	26.5			34.379				0.04 1.6
12	101	22.419	50.451	35.024	35.021				0.25 3.7
11	200	13.981	41.506	34.544					0.93 13.0
10	400	8.035	35.849	34.394	34.392				2.40 51.3
9	600	6.050	34.204	34.473	34.472				2.75 71.1
8	800	4.995	33.386	34.521	34.522				2.75 86.6
7	1001	4.201	32.786	34.545	34.544				2.80 103
6	1250	3.480	32.268	34.561	34.562				2.86 119
5	1500	2.942	31.922	34.588	34.589				2.86 129
4	2000	2.199	31.509	34.627	34.627				2.81 144
3	3499	1.549	31.552	34.674	34.673				2.62 147
2	4598	1.614	31.990	34.678	34.677				2.58 147
1	5600	1.738	32.414	34.678	34.679				2.55 146

Station Water depth(m) Date/Time					Position				
<u>STC222</u> 5230-5350m 17 Feb 10:06-11:46					12-58.4'N 127-57.0'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	26.4			34.602				0.04 0.2
12	102	24.544	52.764	35.106	35.098				0.07 1.3
11	202	16.205	43.840	34.695	34.718				0.49 12.7
10	400	9.141	36.912	34.441	34.433				2.27 43.2
9	600	6.280	34.394	34.453	34.450				2.62 70.0
8	800	5.340	33.683	34.508	34.505				2.74 86.6
7	1000	4.341	32.902	34.535	34.532				2.77 101
6	1250	3.603	32.375	34.559	34.557				2.78 116
5	1501	2.949	31.922	34.580	34.572				2.77 131
4	2001	2.068	31.397	34.629	34.625				2.71 146
3	3497	1.529	31.535	34.675	34.670				2.64 146
2	4198	1.565	31.814	34.678	34.672				2.52 146
1	5199	1.680	32.241	34.679	34.674				2.50 146

Station Water depth(m) Date/Time					Position				
<u>STC223</u> 5710-5770m 17 Feb 21:55-23:40					11-58.8'N 126-59.5'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	26.4			34.369				0.04 0.8
12	100	26.531	53.926	34.442	34.419				0.05 1.1
11	201	15.999	43.618	34.678	34.676				0.82 9.6
10	404	7.988	35.768	34.352	34.347				2.31 52.8
9	601	5.315	33.490	34.411	34.397				2.60 88.8
8	800	4.612	33.065	34.545	34.534				2.70 92.4
7	1000	3.768	32.420	34.566	34.554				2.73 109
6	1250	3.262	32.098	34.588	34.580				2.85 122
5	1496	2.843	31.838	34.594	34.587				2.82 131
4	2000	2.122	31.445	34.631	34.628				2.71 144
3	3501	1.542	31.548	34.675	34.665				2.57 147
2	4650	1.618	32.012	34.680	34.670				2.58 146
1	5654	1.741	32.434	34.680	34.674				2.52 147

Station Water depth(m) Date/Time Position  
STC304 4800-4800 28 Feb 17:54-19:46 21-39.5'N 122-17.6'E (START)  
 1987 21-39.0'N 122-17.9'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub>	SiO <sub>2-Si</sub>
0	0	23.8								
12	252	18.082	45.863	34.818						
11	501	9.874	37.591	34.394	34.375					
10	778	5.631	33.832	34.391	34.333					
9	1001	4.058	32.620	34.499	34.478					
8	1250	3.151	31.986	34.570	34.551					
7	1499	2.753	31.762	34.595	34.577					
6	2000	2.224	31.524	34.619	34.597					
5	2500	1.774	31.359	34.655	34.636					
4	3001	1.627	31.435	34.670	34.648					
3	3799	1.554	31.671	34.683	34.661					
2	4301	1.583	31.870	34.685	34.665					
1	4799	1.625	32.074	34.688						

Station Water depth(m) Date/Time Position  
STC303 4410-4570m 28 Feb 22:35-00:05 21-35.8'N 122-06.1'E (START)  
 1987 21-35.9'N 122-06.7'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub>	SiO <sub>2-Si</sub>
0	0	23.9			34.780	4.63	8.331	2.352	0.03	2.2
12	252	17.232	44.913	34.728	34.726					
11	499	11.044	38.740	34.449	34.447	4.08	8.162	2.353	0.56	10.4
10	751	5.819	34.042	34.451	34.448	3.24	7.956	2.366	1.38	38.8
9	1000	4.489	32.991	34.486	34.486	2.27	7.766	2.419	2.40	95.1
8	1250	3.540	32.301	34.537	34.544	2.08	7.739	2.435	2.55	112
7	1499	2.889	31.824	34.579	34.578	2.14	7.722	2.448	2.64	127
6	1747	2.382	31.548	34.605	34.605	2.30	7.747	2.466	2.72	138
5	1998	2.110	31.429	34.625	34.622	2.35	7.743	2.470	2.70	142
4	3000	1.662	31.461	34.666	34.669	2.59	7.745	2.467	2.64	144
3	3399	1.561	31.530	34.678	34.678	3.08	7.805	2.477	2.64	145
2	3901	1.555	31.708	34.684	34.683	3.32	7.787	2.478	2.55	145
1	4398	1.580	31.902	34.687		3.37	7.798	2.476	2.50	145

Station Water depth(m) Date/Time Position  
STC302 3260-3320 1 Mar 02:27-03:34 21-36.1'N 121-58.4'E (START)  
 1987 21-37.0'N 121-59.0'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub>	SiO <sub>2-Si</sub>
0	0	23.5			34.812	4.81	8.319	2.356	0.03	1.8
12	100	23.639	51.436	34.813	34.800	4.62	8.332	2.354	0.03	2.7
11	199	21.275	49.114	34.860	34.840	4.24	8.251	2.356	0.22	4.5
10	400	12.587	40.210	34.500	34.490	3.77	8.002	2.355	1.17	28.8
9	600	8.812	36.648	34.391	34.370	2.87	7.889	2.376	1.98	58.5
8	800	5.258	33.546	34.436	34.428	2.10	7.774	2.418	2.40	99.7
7	999	4.335	32.869	34.504	34.497	2.19	7.750	2.439	2.63	116
6	1248	3.202	32.021	34.559	34.555	2.62	7.746	2.462	2.70	133
5	1498	2.891	31.868	34.578	34.572	2.28	7.733	2.468	2.70	137
4	1750	2.521	31.662	34.595	34.585	2.31	7.723	2.475	2.72	140
3	2105	2.107	31.471	34.628	34.624	2.58	7.748	2.476	2.62	144
2	2600	1.751	31.379	34.657	34.648	2.91	7.783	2.480	2.58	145
1	3100	1.618	31.464	34.670	34.660	3.19	7.797	2.482	2.59	145

Station Water depth(m) Date/Time					Position				
<u>STC301 2210-2300 1 Mar 05:43-06:42</u>					21-31.9'N 121-48.0'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	1987				
					DO	pH	Alk	P <sub>O4-P</sub>	SiO <sub>2</sub> -Si
0	0	24.0							
12	101	24.052	51.788	34.757	34.750				
11	202	21.157	48.908	34.791	34.780				
10	399	10.749	38.429	34.459	34.455				
9	600	7.800	35.720	34.393	34.390				
8	801	5.345	33.644	34.458	34.455				
7	1001	4.202	32.754	34.506	34.507				
6	1200	3.395	32.154	34.540	34.539				
5	1500	2.886	31.869	34.583	34.583				
4	1701	2.567	31.689	34.603	34.604				
3	2000	2.347	31.631	34.618	34.613				
2	2188	1.961	31.391	34.645	34.634				
1	2188	1.961	31.391	34.645	34.639				

Station Water depth(m) Date/Time					Position				
<u>STC305 4830-4830m 1 Mar 16:09-17:04</u>					21-41.6'N 122-26.1'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	1987				
					DO	pH	Alk	P <sub>O4-P</sub>	SiO <sub>2</sub> -Si
0	0	23.7		34.834	4.76	8.346	2.372	0.03	2.1
12	250	17.071	44.822	34.789	3.17	7.931	2.308	1.60	42.8
11	500	9.881	37.558	34.354	3.50	7.683	2.413	2.60	91.8
10	749	5.271	33.397	34.277	3.27	7.700	2.446	2.71	116
9	1000	4.218	32.722	34.452	3.45	7.726	2.471	2.79	133
8	1250	3.169	31.972	34.536	3.53	7.722		2.71	140
7	1502	2.625	31.646	34.589	3.58	7.755	2.482	2.73	145
6	1750	2.317	31.496	34.609	3.60	7.757	2.487	2.74	146
5	1999	2.056	31.386	34.630	3.62	7.794	2.490	2.57	147
4	3000	1.609	31.418	34.669	3.66	7.796	2.488	2.57	146
3	3796	1.556	31.670	34.681	3.67	7.805	2.492	2.44	146
2	4300	1.578	31.864	34.683	3.68	7.812	2.495	2.46	145
1	4800	1.627	32.073	34.685	3.68	7.806	2.494	2.48	144

Station Water depth(m) Date/Time					Position				
<u>STC306 4710-4760m 1 Mar 20:46-22:35</u>					21-43.8'N 122-38.9'E (START)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	1987				
					DO	pH	Alk	P <sub>O4-P</sub>	SiO <sub>2</sub> -Si
0	0	23.1		34.826	4.76	8.327	2.355	0.01	1.5
12	252	16.809	44.548	34.776	3.59	7.940	2.342	1.35	28.9
11	504	10.392	37.977	34.295	3.29	7.720	2.387	2.49	84.0
10	759	5.631	33.717	34.270	3.27	7.694	2.427	2.68	112
9	1000	4.288	32.777	34.445	3.44	7.721	2.458	2.72	135
8	1250	2.972	31.800	34.535	3.53	7.706	2.468	2.69	142
7	1498	2.389	31.431	34.580	3.58	7.760	2.471	2.70	144
6	1749	2.119	31.327	34.613	3.61	7.751	2.478	2.67	145
5	1998	1.948	31.290	34.628	3.63	7.785	2.484	2.64	147
4	2999	1.599	31.409	34.670	3.66	7.800	2.482	2.60	146
3	3699	1.555	31.634	34.680	3.67	7.809	2.483	2.58	144
2	4199	1.565	31.819	34.684	3.67	7.828	2.482	2.49	144
1	4699	1.619	32.033	34.685	3.68	7.818	2.483	2.49	144

Station Water depth(m) Date/Time					Position				
STC312 7280-6600m 3 Mar 09:03-11:33 1987					25-12.4'N 128-27.9'E (START) 25-10.9'N 128-29.7'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	21.0			34.903	4.90	8.311	2.384	0.10 2.0
12	250	17.549	45.312	34.802	34.787	4.32	8.202	2.381	0.36 6.3
11	501	10.767	38.371	34.340	34.332	3.57	7.974	2.374	1.43 30.2
10	751	5.892	33.926	34.247	34.241	1.96	7.731	2.403	2.50 81.8
9	1001	4.347	32.823	34.436	34.430	1.74	7.691	2.444	2.72 114
8	1249	3.197	31.981	34.516	34.512	1.91	7.685	2.466	2.76 134
7	1498	2.538	31.538	34.552	34.546	1.93	7.698	2.463	2.80 144
6	1999	1.983	31.317	34.623	34.624	2.58	7.739	2.480	2.85 148
5	2981	1.612	31.413	34.669	34.664	3.20	7.774	2.489	2.76 148
4	4001	1.562	31.748	34.683	34.677	3.45	7.806	2.489	2.56 146
3	5492	1.697	32.352	34.686	34.681	3.52	7.804	2.486	2.50 146
2	6000	1.765	32.563	34.687	34.686	3.53	7.806	2.501	2.50 146
1	6494	1.835	32.763	34.684	34.680				

Station Water depth(m) Date/Time					Position				
STC313 5960-6060m 3 Mar 14:37-16:41 1987					25-21.1'N 128-21.7'E (START) 25-20.9'N 128-22.0'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	21.2			34.906	4.92	8.323	2.377	0.07 2.2
12	251	17.907	45.691	34.820	34.809	4.30	8.222	2.366	0.45 5.4
11	499	10.925	38.542	34.364	34.359	3.50	7.982	2.367	1.37 30.8
10	750	6.091	34.113	34.257	34.253	1.94	7.763	2.403	2.48 81.5
9	1000	4.145	32.603	34.389	34.390	1.72	7.674	2.440	2.80 115
8	1250	3.065	31.844	34.490	34.488	1.68	7.679	2.463	2.89 136
7	1500	2.621	31.622	34.565	34.555	2.29	7.706	2.482	2.74 142
6	1750	2.286	31.462	34.600	34.595	2.36	7.717	2.491	2.67 145
5	2000	2.048	31.374	34.622	34.615	2.60	7.749	2.498	2.69 146
4	3000	1.628	31.432	34.666	34.659	3.12	7.778	2.494	2.48 147
3	4802	1.619	32.067	34.685	34.679	3.50	7.821	2.499	2.50 146
2	5300	1.672	32.270	34.684	34.680	3.47	7.808	2.503	2.49 146
1	5800	1.735	32.477	34.685	34.680	3.52	7.815	2.497	2.52 146

Station Water depth(m) Date/Time					Position				
STC314 4900-4890m 3 Mar 21:58-23:42 1987					25-28.2'N 128-15.8'E (START) 25-27.2'N 128-15.5'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	Po <sub>4-P</sub> SiO <sub>2-Si</sub>
0	0	21.3			34.894	4.79	8.318	2.346	0.06 2.4
12	250	17.148	44.900	34.790	34.770	4.29	8.168	2.336	0.39 6.8
11	500	10.820	38.449	34.369	34.356	3.46	7.964	2.337	1.43 32.1
10	750	6.023	34.093	34.303	34.307	1.91	7.708	2.382	2.46 81.8
9	1000	3.939	32.442	34.414	34.413	1.48	7.670	2.422	2.76 118
8	1075	3.964	32.565	34.495	34.491	1.88	7.731	2.426	2.77 118
7	1400	2.710	31.628	34.529	34.524	1.90	7.705	2.450	2.85 141
6	1600	2.407	31.477	34.565	34.560	2.09	7.734	2.458	2.76 144
5	1801	2.215	31.413	34.591	34.587	2.34	7.722	2.459	2.34 82.8
4	2500	1.729	31.318	34.652	34.642	3.15	7.777	2.471	2.58 146
3	3819	1.541	31.665	34.681	34.670	4.44	7.797	2.471	2.54 146
2	4319	1.566	31.860	34.683	34.672	3.44	7.822	2.468	2.52 145
1	4818	1.612	32.066	34.685	34.675	3.41	7.802	2.471	2.50 145

Station Water depth(m) Date/Time					Position					
STC315 3020-3100m 4 Mar 01:58-03:07 1987					25-37.0'N 128-08.2'E (START) 25-36.5'N 128-08.5'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O4-P</sub>	SiO <sub>2</sub> -Si
0	0	20.6			34.895	5.04	8.308	2.345	0.06	2.6
12	100	20.608	48.427	34.889	34.871	4.89	8.287	2.343	0.06	2.6
11	199	19.585	47.408	34.867	34.836	4.42	8.244	2.339	0.24	4.1
10	400	14.257	41.901	34.583	34.568	4.20	8.094	2.326	0.81	13.7
9	600	8.644	36.405	34.299	34.287	2.84	7.857	2.351	1.92	51.0
8	811	5.632	33.806	34.345	34.328	1.89	7.747	2.389	2.62	88.2
7	1000	4.321	32.804	34.442	34.433	1.76	7.720	2.413	2.77	112
6	1250	3.102	31.891	34.507	34.498	1.89	7.703	2.439	2.84	134
5	1492	2.568	31.560	34.550	34.541	2.10	7.705	2.450	2.82	143
4	1749	2.268	31.438	34.591	34.578	2.41	7.725	2.455	2.83	144
3	1957	2.068	31.368	34.615	34.604	2.67	7.744	2.455	2.76	145
2	2461	1.791	31.351	34.645	34.633	2.93	7.770	2.465	2.66	146
1	2961	1.565	31.365	34.669	34.661	3.20	7.781	2.469	2.59	145

Station Water depth(m) Date/Time					Position					
STC316 2250-2250 4 Mar 05:08-06:06 1987					25-44.7'N 128-01.2'E (START) 25-45.0'N 128-00.8'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O4-P</sub>	SiO <sub>2</sub> -Si
0	0	21.2								
12	100	21.227	49.087	34.912	34.910					
11	200	18.819	46.618	34.851	34.859					
10	399	13.887	41.510	34.552	34.560					
9	600	8.921	36.610	34.247	34.253					
8	800	5.558	33.721	34.329	34.404					
7	1001	4.135	32.629	34.429	34.444					
6	1200	3.188	31.917	34.474	34.481					
5	1500	2.565	31.561	34.551	34.560					
4	1700	2.358	31.486	34.579	34.635					
3	2000	1.980	31.313	34.620	34.624					
2	2202	1.888	31.322	34.631	34.636					
1	2201	1.887	31.322	34.632	34.637					

Station Water depth(m) Date/Time					Position					
STC317 1660-1670m 4 Mar 07:51-08:34 1987					25-53.8'N 127-55.2'E (START) 25-53.8'N 127-55.0'E (END)					
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	P <sub>O4-P</sub>	SiO <sub>2</sub> -Si
0	0	22.9			34.568					
12	100	20.494	48.288	34.869	34.865					
11	199	19.187	46.974	34.840	34.838					
10	400	14.518	42.176	34.603	34.601					
9	600	9.312	37.020	34.299	34.304					
8	799	5.331	33.538	34.351	34.355					
7	1000	4.098	32.615	34.457	34.464					
6	1100	3.590	32.245	34.494	34.502					
5	1100	3.590	32.246	34.496	34.501					
4	1399	2.709	31.630	34.532	34.538					
3	1400	2.709	31.630	34.532	34.540					
2	1601	2.416	31.482	34.561	34.567					
1	1601	2.420	31.482	34.557	34.567					

Station Water depth(m) Date/Time					Position				
STC324 5000-5000m 5 Mar 11:56-13:37 1987					29-20.5'N 131-41.2'E (START) 29-20.3'N 131-41.6'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	20.4			34.869	5.06	8.297	2.366	0.06 1.8
12	249	18.829	46.658	34.858	34.858	4.91	8.280	2.366	0.08 2.8
11	498	14.065	41.747	34.572	34.572	4.03	8.094	2.350	0.79 15.0
10	750	7.853	35.806	34.364	34.363	2.47	7.830	2.390	2.08 67.6
9	1000	4.145	32.624	34.414	34.415	1.65	7.669	2.437	2.75 116
8	1250	3.101	31.852	34.462	34.466	1.53	7.685	2.456	2.88 137
7	1500	2.578	31.552	34.526	34.528	1.83	7.683	2.467	2.88 145
6	1750	2.252	31.407	34.570	34.575	2.20	7.697	2.474	2.82 146
5	2000	2.013	31.328	34.604	34.607	2.40	7.715	2.478	2.77 148
4	3000	1.559	31.373	34.667	34.669	3.22	7.789	2.488	2.45 147
3	3900	1.553	31.702	34.680	34.678	3.33	7.802	2.488	2.55 146
2	4400	1.600	31.914	34.680	34.676	3.40	7.788	2.490	2.45 146
1	4900	1.654	32.125	34.681	34.674	3.38	7.788	2.491	2.46 146

Station Water depth(m) Date/Time					Position				
STC323 4130-4270m 5 Mar 15:59-17:45 1987					29-29.0'N 131-33.7'E (START) 29-30.0'N 131-35.1'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	21.1			34.857	4.84	8.324	2.361	0.07 2.3
12	199	19.343	47.166	34.869	34.864	4.98	8.295	2.364	0.10 2.8
11	400	15.931	43.673	34.710	34.707	4.24	8.164	2.352	0.58 10.0
10	599	10.520	38.238	34.396	34.397	3.48	7.952	2.365	1.50 41.2
9	799	5.760	33.914	34.343	34.346	1.96	7.750	2.406	2.53 91.1
8	1000	3.829	32.339	34.406	34.411	1.45	7.648	2.433	2.91 122
7	1251	2.984	31.762	34.476	34.479	1.64	7.675	2.455	2.91 139
6	1500	2.504	31.494	34.533	34.537	1.87	7.668	2.468	2.89 145
5	1753	2.235	31.395	34.572	34.575	2.14	7.695	2.476	2.80 146
4	2000	1.995	31.314	34.604	34.608	2.42	7.734	2.475	2.79 147
3	3099	1.538	31.394	34.671	34.672	3.21	7.787	2.485	2.56 146
2	3599	1.529	31.574	34.678	34.677	3.33	7.783	2.484	2.56 146
1	4100	1.559	31.778	34.681	34.682	3.39	7.787	2.487	2.54 146

Station Water depth(m) Date/Time					Position				
STC322 3870-3750m 5 Mar 20:02-21:26 1987					29-35.7'N 131-27.5'E (START) 29-36.6'n 131-29.5'E (END)				
No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4</sub> -P SiO <sub>2</sub> -Si
0	0	21.1			34.854	4.87	8.309	2.371	0.02 1.9
12	250	18.798	46.583	34.822		3.49	8.009	2.374	1.20 30.5
11	525	11.854	39.526	34.460	34.461	1.83	7.720	2.423	2.53 91.6
10	750	5.464	33.617	34.330	34.332	1.67	7.685	2.436	2.76 108
9	864	4.571	32.924	34.392	34.395	1.45	7.654	2.448	2.89 124
8	1000	3.651	32.188	34.413	34.417	1.58	7.701	2.465	2.90 139
7	1228	2.943	31.721	34.482	34.489	1.88	7.670	2.473	2.90 146
6	1498	2.435	31.441	34.543	34.544	2.19	7.715	2.481	2.84 147
5	1735	2.182	31.347	34.577	34.580	2.50	7.755	2.487	2.72 148
4	1997	1.975	31.296	34.606	34.610	3.18	7.774	2.495	2.69 147
3	2853	1.591	31.342	34.662	34.664	3.33	7.809	2.498	2.62 147
2	3350	1.529	31.482	34.674	34.675	3.32	7.793	2.500	2.58 146
1	3849	1.539	31.672	34.679	34.682	3.41	7.818	2.495	2.57 146

Station Water depth(m) Date/Time Position  
STC321 3050-2990m 5 Mar 23:31-00:57 29-41.7'N 131-20.4'E (START)  
1987 29-42.5'N 131-22.2'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4-P</sub>	SiO <sub>2-Si</sub>
0	0	21.1			34.891					
12	300	16.329	44.003	34.694	34.692					
11	502	11.620	39.290	34.455	34.453					
10	800	4.490	32.813	34.378	34.376					
9	1007	3.444	32.035	34.444	34.454					
8	1299	2.729	31.583	34.505	34.514					
7	1505	2.360	31.386	34.552	34.560					
6	1995	1.940	31.268	34.610	34.621					
5	1995	1.940	31.268	34.610	34.616					
4	2493	1.689	31.277	34.648	34.651					
3	2494	1.688	31.277	34.649	34.647					
2	3003	1.548	31.366	34.669	34.673					
1	3001	1.549	31.366	34.669	34.671					

Station Water depth(m) Date/Time Position  
STC331 4010-4010m 7 Mar 17:16-19:06 32-26.4'N 137-18.5'E (START)  
1987 32-27.9'N 137-18.6'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4-P</sub>	SiO <sub>2-Si</sub>
0	0	16.0			34.747	5.28	8.249	2.375	0.29	8.1
12	100	15.591	43.262	34.757	34.779	5.22	8.233	2.377	0.31	10.1
11	248	10.768	38.314	34.392	34.401	3.34	7.969	2.378	1.50	37.6
10	500	5.274	33.305	34.292	34.302	1.83	7.719	2.417	2.60	95.4
9	752	3.404	31.866	34.416	34.419	1.38	7.654	2.453	2.94	131
8	1001	2.758	31.473	34.494	34.508	1.66	7.691	2.470	2.80	144
7	1251	2.358	31.273	34.546	34.532	2.00	7.709	2.478	2.81	147
6	1500	2.073	31.160	34.584	34.566	2.24	7.720	2.482	2.80	149
5	1753	1.870	31.111	34.612	34.588	2.54	7.768	2.489	2.72	150
4	2000	1.735	31.110	34.633	34.614	2.76	7.778	2.488	2.72	151
3	2997	1.479	31.307	34.673	34.652	3.34	7.826	2.494	2.63	149
2	3500	1.481	31.499	34.680	34.663	3.42	7.817	2.495	2.58	147
1	4002	1.519	31.709	34.681	34.665	3.38	7.817	2.498	2.56	146

Station Water depth(m) Date/Time Position  
STC332 4090-4090m 7 Mar 22:31-23:41 32-23.7'N 137-00.6'E (START)  
1987 32-21.5'N 137-01.0'E (END)

No.	P <sub>CTD</sub>	T <sub>CTD</sub>	C <sub>CTD</sub>	S <sub>CTD</sub>	S <sub>AUTO</sub>	DO	pH	Alk	PO <sub>4-P</sub>	SiO <sub>2-Si</sub>
0	0	15.8								

ST01	87/ 1/25	19:57	31-28.9N	136-55.7E	4170M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	20.336	34.800	20.333 1.024609
	40	39	20.313	34.812	20.305 1.024712
	60	59	20.318	34.814	20.306 1.024798
	80	79	20.320	34.813	20.305 1.024884
	100	99	20.320	34.815	20.301 1.024973
	120	119	20.322	34.813	20.299 1.025059
	140	139	20.318	34.813	20.291 1.025146
	160	159	20.312	34.807	20.281 1.025230
	180	179	19.242	34.702	19.209 1.025519
	200	199	18.661	34.706	18.625 1.025759
	250	249	18.333	34.816	18.288 1.026145
	300	298	16.838	34.750	16.787 1.026681
	350	348	15.892	34.688	15.835 1.027077
	400	397	14.371	34.593	14.311 1.027567
	450	447	13.238	34.528	13.173 1.027982
	500	497	10.881	34.365	10.818 1.028547
	550	546	9.270	34.335	9.207 1.029038
	600	596	7.881	34.294	7.818 1.029464
	650	645	6.936	34.275	6.873 1.029821
	700	695	6.015	34.223	5.951 1.030144
	750	745	5.829	34.351	5.761 1.030501
	800	794	4.831	34.274	4.765 1.030801
	850	843	4.570	34.334	4.501 1.031110
	900	893	4.161	34.353	4.091 1.031406
	950	942	3.821	34.392	3.749 1.031708
	1000	992	3.610	34.413	3.536 1.031980
	1100	1091	3.243	34.448	3.164 1.032509
	1200	1189	3.030	34.478	2.945 1.033015
	1300	1288	2.833	34.499	2.742 1.033512
	1400	1387	2.637	34.525	2.540 1.034013
	1500	1486	2.464	34.546	2.361 1.034506
	1600	1584	2.325	34.566	2.215 1.034993
	1700	1683	2.202	34.581	2.086 1.035474
	1800	1781	2.093	34.597	1.970 1.035954
	1900	1880	2.004	34.609	1.874 1.036427
	2000	1978	1.921	34.621	1.784 1.036900
	2200	2175	1.797	34.639	1.645 1.037830
	2400	2371	1.688	34.655	1.520 1.038756
	2600	2568	1.610	34.666	1.426 1.039670
	2800	2764	1.540	34.676	1.339 1.040580
	3000	2960	1.500	34.683	1.281 1.041478
	3200	3156	1.486	34.686	1.247 1.042366
	3400	3352	1.488	34.689	1.229 1.043248
	3600	3547	1.492	34.689	1.212 1.044125
	3800	3743	1.506	34.691	1.205 1.044996
	4000	3938	1.523	34.690	1.199 1.045861

ST02 87/ 1/29 12:41 32-45.4N 141-09.4E 2470M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 20 18.510 34.795 18.507 1.025077  
 40 39 18.482 34.799 18.475 1.025175  
 60 59 18.481 34.799 18.470 1.025263  
 80 79 18.474 34.799 18.460 1.025352  
 100 99 18.463 34.794 18.445 1.025438  
 120 119 18.458 34.796 18.436 1.025529  
 140 139 18.449 34.797 18.424 1.025620  
 160 159 18.446 34.798 18.417 1.025709  
 180 179 18.447 34.798 18.415 1.025795  
 200 199 18.439 34.796 18.403 1.025884  
 250 248 17.724 34.806 17.680 1.026289  
 300 298 16.839 34.759 16.788 1.026688  
 350 348 16.169 34.714 16.112 1.027032  
 400 397 14.902 34.639 14.840 1.027485  
 450 447 13.780 34.561 13.714 1.027892  
 500 497 11.863 34.427 11.796 1.028406  
 550 546 10.517 34.356 10.449 1.028831  
 600 596 8.981 34.225 8.913 1.029228  
 650 645 7.617 34.113 7.550 1.029590  
 700 695 6.781 34.108 6.713 1.029941  
 750 744 6.032 34.099 5.964 1.030270  
 800 794 5.556 34.111 5.486 1.030574  
 850 843 4.865 34.155 4.795 1.030931  
 900 893 4.524 34.204 4.452 1.031242  
 950 942 4.364 34.233 4.288 1.031514  
 1000 992 4.052 34.255 3.974 1.031799  
 1100 1091 3.657 34.337 3.574 1.032371  
 1200 1189 3.315 34.402 3.227 1.032920  
 1300 1288 3.044 34.451 2.950 1.033448  
 1400 1387 2.845 34.473 2.745 1.033946  
 1500 1486 2.675 34.491 2.569 1.034436  
 1600 1584 2.539 34.508 2.427 1.034921  
 1700 1683 2.455 34.519 2.335 1.035393  
 1800 1781 2.324 34.540 2.198 1.035879  
 1900 1880 2.215 34.558 2.082 1.036360  
 2000 1978 2.064 34.581 1.925 1.036849  
 2200 2175 1.924 34.606 1.770 1.037788  
 2400 2372 1.801 34.627 1.631 1.038719

JT	87/ 1/28	18:27	33-52.9N	141-55.8E	8980M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	18.645	34.800	18.642 1.025046
	40	39	18.577	34.801	18.570 1.025152
	60	59	18.548	34.794	18.537 1.025242
	80	79	18.528	34.791	18.514 1.025332
	100	99	18.505	34.790	18.487 1.025425
	120	119	18.494	34.787	18.472 1.025513
	140	139	18.482	34.787	18.457 1.025603
	160	159	18.452	34.788	18.423 1.025700
	180	179	18.444	34.789	18.412 1.025790
	200	199	18.372	34.765	18.336 1.025878
	250	248	17.421	34.800	17.378 1.026359
	300	298	16.794	34.775	16.744 1.026711
	350	348	15.934	34.718	15.877 1.027090
	400	397	15.089	34.654	15.026 1.027454
	450	447	14.084	34.581	14.017 1.027842
	500	497	12.756	34.488	12.686 1.028273
	550	546	11.264	34.394	11.193 1.028721
	600	596	10.180	34.336	10.107 1.029101
	650	645	8.759	34.241	8.687 1.029502
	700	695	7.372	34.138	7.301 1.029874
	750	744	6.149	34.085	6.080 1.030242
	800	794	5.818	34.138	5.746 1.030559
	850	843	5.393	34.190	5.319 1.030886
	900	893	4.731	34.169	4.657 1.031188
	950	942	4.516	34.210	4.439 1.031476
	1000	992	4.063	34.268	3.985 1.031808
	1100	1091	3.664	34.325	3.581 1.032360
	1200	1190	3.336	34.365	3.248 1.032888
	1300	1288	3.071	34.409	2.977 1.033411
	1400	1387	2.849	34.450	2.749 1.033927
	1500	1486	2.680	34.475	2.574 1.034423
	1600	1584	2.516	34.497	2.404 1.034915
	1700	1683	2.386	34.529	2.267 1.035410
	1800	1781	2.279	34.546	2.153 1.035891
	1900	1880	2.185	34.564	2.052 1.036369
	2000	1978	2.118	34.577	1.978 1.036840
	2200	2175	1.961	34.602	1.806 1.037780
	2400	2372	1.851	34.622	1.680 1.038708
	2600	2568	1.753	34.636	1.566 1.039627
	2800	2764	1.677	34.649	1.473 1.040539
	3000	2960	1.612	34.662	1.390 1.041445
	3200	3156	1.569	34.668	1.328 1.042340
	3400	3352	1.542	34.674	1.282 1.043229
	3600	3547	1.514	34.679	1.234 1.044114
	3800	3743	1.496	34.684	1.195 1.044993
	4000	3938	1.486	34.687	1.163 1.045865
	4200	4133	1.479	34.690	1.134 1.046734
	4400	4328	1.479	34.692	1.111 1.047597
	4600	4523	1.484	34.693	1.093 1.048456
	4800	4717	1.493	34.694	1.077 1.049310
	5000	4911	1.503	34.696	1.062 1.050159
	5200	5106	1.519	34.697	1.053 1.051003
	5400	5300	1.539	34.697	1.046 1.051843
	5600	5494	1.560	34.698	1.040 1.052678
	5800	5687	1.583	34.698	1.036 1.053511
	6000	5881	1.607	34.698	1.032 1.054338
	6200	6075	1.633	34.696	1.029 1.055160
	6400	6268	1.659	34.697	1.026 1.055980
	6500	6364	1.673	34.697	1.025 1.056388

ST03 87/ 1/29 15:51 32-45.4N 141-19.9E 3100M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 20 18.571 34.795 18.568 1.025062  
 40 39 18.549 34.799 18.542 1.025158  
 60 59 18.544 34.798 18.533 1.025246  
 80 80 18.537 34.794 18.522 1.025337  
 100 99 18.560 34.753 18.542 1.025384  
 120 119 18.442 34.803 18.420 1.025540  
 140 140 18.442 34.796 18.417 1.025624  
 160 159 18.436 34.792 18.407 1.025706  
 180 179 18.433 34.792 18.401 1.025795  
 200 199 18.435 34.791 18.399 1.025881  
 250 248 17.438 34.788 17.395 1.026345  
 300 298 16.725 34.762 16.675 1.026718  
 350 348 15.701 34.697 15.645 1.027127  
 400 397 14.525 34.612 14.464 1.027549  
 450 447 13.475 34.524 13.410 1.027928  
 500 497 11.993 34.431 11.926 1.028383  
 550 546 10.510 34.337 10.442 1.028817  
 600 596 9.010 34.213 8.942 1.029215  
 650 645 7.508 34.126 7.442 1.029616  
 700 695 6.727 34.104 6.660 1.029946  
 750 744 5.859 34.098 5.792 1.030294  
 800 794 5.232 34.126 5.164 1.030630  
 850 843 4.833 34.151 4.763 1.030931  
 900 893 4.474 34.191 4.402 1.031239  
 950 942 4.235 34.234 4.160 1.031531  
 1000 992 4.018 34.263 3.941 1.031810  
 1100 1091 3.656 34.333 3.573 1.032368  
 1200 1189 3.281 34.396 3.193 1.032919  
 1300 1289 3.066 34.437 2.972 1.033436  
 1400 1387 2.892 34.459 2.792 1.033930  
 1500 1487 2.696 34.481 2.590 1.034432  
 1600 1585 2.519 34.506 2.407 1.034925  
 1700 1683 2.403 34.524 2.284 1.035404  
 1800 1781 2.291 34.543 2.165 1.035887  
 1900 1880 2.177 34.564 2.044 1.036371  
 2000 1978 2.066 34.579 1.927 1.036847  
 2200 2175 1.929 34.605 1.775 1.037787  
 2400 2372 1.799 34.626 1.629 1.038718  
 2600 2568 1.709 34.641 1.523 1.039637  
 2800 2764 1.563 34.663 1.361 1.040566  
 3000 2960 1.513 34.672 1.293 1.041468

ST04 87/ 1/19:15 32-45.6N 141-30.6E 4460M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 20 18.457 34.792 18.454 1.025088  
 40 39 18.443 34.798 18.436 1.025184  
 60 59 18.441 34.795 18.430 1.025270  
 80 79 18.440 34.794 18.426 1.025356  
 100 99 18.433 34.794 18.415 1.025446  
 120 119 18.434 34.793 18.412 1.025533  
 140 139 18.429 34.794 18.404 1.025621  
 160 159 18.422 34.779 18.393 1.025701  
 180 179 18.413 34.781 18.381 1.025791  
 200 199 18.402 34.786 18.366 1.025887  
 250 248 17.873 34.771 17.829 1.026225  
 300 298 16.846 34.741 16.795 1.026671  
 350 348 15.709 34.671 15.653 1.027106  
 400 397 14.352 34.582 14.292 1.027563  
 450 447 13.279 34.517 13.214 1.027965  
 500 497 11.935 34.421 11.868 1.028387  
 550 546 10.661 34.319 10.592 1.028776  
 600 596 9.449 34.244 9.379 1.029161  
 650 645 8.129 34.139 8.060 1.029528  
 700 695 6.999 34.119 6.930 1.029916  
 750 745 6.133 34.089 6.064 1.030249  
 800 794 5.585 34.095 5.515 1.030558  
 850 844 5.103 34.184 5.031 1.030922  
 900 893 4.773 34.208 4.699 1.031212  
 950 942 4.297 34.219 4.222 1.031511  
 1000 992 4.083 34.257 4.005 1.031796  
 1100 1091 3.638 34.303 3.555 1.032346  
 1200 1189 3.369 34.357 3.281 1.032878  
 1300 1288 3.123 34.396 3.029 1.033395  
 1400 1387 2.893 34.439 2.793 1.033913  
 1500 1486 2.721 34.467 2.615 1.034411  
 1600 1584 2.583 34.498 2.470 1.034907  
 1700 1683 2.382 34.523 2.263 1.035406  
 1800 1781 2.238 34.547 2.113 1.035896  
 1900 1880 2.132 34.560 2.000 1.036372  
 2000 1978 2.043 34.578 1.904 1.036850  
 2200 2175 1.884 34.604 1.730 1.037792  
 2400 2372 1.772 34.626 1.603 1.038723  
 2600 2568 1.673 34.642 1.488 1.039642  
 2800 2764 1.598 34.654 1.396 1.040554  
 3000 2960 1.543 34.663 1.323 1.041456  
 3200 3156 1.510 34.670 1.271 1.042351  
 3400 3352 1.471 34.676 1.213 1.043241  
 3600 3547 1.456 34.680 1.177 1.044123  
 3800 3743 1.447 34.683 1.147 1.045001  
 4000 3938 1.419 34.688 1.098 1.045878  
 4200 4133 1.412 34.691 1.069 1.046747

ST05 87/ 1/29 23:55 32-46.9N 141-41.4E 6850M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 18.524 34.805 18.521 1.025081  
 40 39 18.484 34.807 18.477 1.025180  
 60 59 18.433 34.802 18.422 1.025277  
 80 79 18.405 34.800 18.391 1.025370  
 100 99 18.366 34.797 18.348 1.025465  
 120 119 18.356 34.794 18.335 1.025553  
 140 139 18.358 34.795 18.333 1.025641  
 160 159 18.360 34.795 18.331 1.025728  
 180 179 18.361 34.794 18.329 1.025814  
 200 199 18.364 34.794 18.328 1.025901  
 250 248 17.381 34.792 17.338 1.026362  
 300 298 16.624 34.755 16.574 1.026736  
 350 348 15.826 34.707 15.769 1.027106  
 400 397 15.003 34.635 14.941 1.027459  
 450 447 13.677 34.553 13.611 1.027907  
 500 497 12.244 34.453 12.176 1.028351  
 550 546 11.234 34.389 11.163 1.028722  
 600 596 10.004 34.293 9.932 1.029099  
 650 645 8.699 34.215 8.627 1.029491  
 700 695 7.354 34.118 7.283 1.029861  
 750 744 6.746 34.122 6.673 1.030184  
 800 794 6.070 34.098 5.997 1.030491  
 850 843 5.503 34.154 5.428 1.030843  
 900 893 5.111 34.195 5.034 1.031157  
 950 942 4.496 34.182 4.419 1.031456  
 1000 992 4.392 34.246 4.312 1.031748  
 1100 1091 3.794 34.293 3.710 1.032317  
 1200 1190 3.447 34.343 3.358 1.032857  
 1300 1288 3.188 34.387 3.093 1.033381  
 1400 1387 2.967 34.432 2.866 1.033898  
 1500 1486 2.775 34.469 2.668 1.034406  
 1600 1589 2.601 34.494 2.487 1.034922  
 1700 1683 2.445 34.517 2.325 1.035393  
 1800 1782 2.317 34.540 2.191 1.035881  
 1900 1880 2.204 34.559 2.071 1.036363  
 2000 1978 2.107 34.577 1.967 1.036840  
 2200 2175 1.927 34.606 1.773 1.037788  
 2400 2372 1.812 34.624 1.642 1.038715  
 2600 2568 1.710 34.640 1.524 1.039636  
 2800 2764 1.633 34.655 1.430 1.040549  
 3000 2960 1.573 34.664 1.352 1.041453  
 3200 3156 1.533 34.671 1.293 1.042348  
 3400 3352 1.499 34.678 1.240 1.043239  
 3600 3547 1.480 34.681 1.201 1.044121  
 3800 3743 1.467 34.686 1.167 1.044998  
 4000 3938 1.461 34.689 1.139 1.045871  
 4200 4133 1.460 34.690 1.116 1.046738  
 4400 4328 1.458 34.692 1.091 1.047601  
 4600 4523 1.469 34.693 1.078 1.048458  
 4800 4717 1.483 34.694 1.068 1.049311  
 5000 4912 1.495 34.696 1.055 1.050160  
 5200 5106 1.510 34.696 1.044 1.051004  
 5400 5300 1.529 34.696 1.037 1.051845  
 5600 5494 1.550 34.696 1.031 1.052679  
 5800 5688 1.575 34.696 1.028 1.053512  
 6000 5881 1.600 34.696 1.025 1.054338

ST06	87/ 1/30	05:39	32-46.5N	141-51.2E	6800M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	18.855	34.817	18.852 1.025006
	40	39	18.830	34.821	18.823 1.025104
	60	59	18.832	34.821	18.821 1.025190
	80	79	18.830	34.820	18.815 1.025278
	100	99	18.824	34.820	18.806 1.025367
	120	119	18.694	34.807	18.672 1.025477
	140	139	18.541	34.802	18.516 1.025600
	160	159	18.430	34.791	18.401 1.025707
	180	179	18.378	34.792	18.346 1.025808
	200	199	18.333	34.793	18.297 1.025908
	250	248	17.098	34.791	17.055 1.026430
	300	298	16.521	34.774	16.471 1.026775
	350	348	15.808	34.685	15.752 1.027093
	400	397	14.881	34.642	14.819 1.027493
	450	447	13.766	34.549	13.700 1.027885
	500	497	12.327	34.456	12.259 1.028336
	550	546	11.124	34.371	11.053 1.028728
	600	596	9.833	34.281	9.761 1.029122
	650	645	8.441	34.193	8.370 1.029518
	700	695	7.498	34.142	7.427 1.029857
	750	744	6.497	34.125	6.426 1.030224
	800	794	5.864	34.142	5.792 1.030555
	850	843	5.434	34.161	5.360 1.030858
	900	893	5.124	34.189	5.047 1.031150
	950	942	4.543	34.197	4.466 1.031462
	1000	992	4.298	34.252	4.218 1.031765
	1100	1091	3.769	34.300	3.685 1.032327
	1200	1190	3.382	34.360	3.293 1.032879
	1300	1288	3.105	34.404	3.011 1.033404
	1400	1387	2.920	34.440	2.820 1.033911
	1500	1486	2.705	34.475	2.599 1.034420
	1600	1584	2.542	34.499	2.430 1.034913
	1700	1683	2.398	34.522	2.279 1.035403
	1800	1781	2.259	34.545	2.134 1.035892
	1900	1880	2.149	34.565	2.017 1.036374
	2000	1978	2.061	34.581	1.922 1.036849
	2200	2175	1.925	34.605	1.771 1.037787
	2400	2372	1.790	34.628	1.620 1.038721
	2600	2568	1.701	34.641	1.515 1.039639
	2800	2764	1.640	34.653	1.437 1.040547
	3000	2960	1.585	34.661	1.364 1.041449
	3200	3156	1.535	34.670	1.295 1.042347
	3400	3352	1.494	34.677	1.235 1.043239
	3600	3547	1.475	34.682	1.196 1.044122
	3800	3743	1.472	34.683	1.172 1.044995
	4000	3938	1.466	34.686	1.144 1.045868
	4200	4133	1.467	34.689	1.123 1.046736
	4400	4328	1.466	34.691	1.099 1.047599
	4600	4523	1.476	34.691	1.085 1.048455
	4800	4717	1.486	34.692	1.071 1.049309
	5000	4911	1.501	34.693	1.060 1.050157
	5200	5106	1.517	34.694	1.051 1.051002
	5400	5300	1.535	34.695	1.042 1.051842
	5600	5494	1.557	34.695	1.037 1.052677
	5800	5687	1.578	34.694	1.031 1.053509
	6000	5881	1.601	34.695	1.026 1.054337

ST08	87/ 1/31	19:38	28-59.8N	143-03.2E	8460M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	19.363	34.798	19.360 1.024861
	40	39	19.337	34.802	19.330 1.024959
	60	59	19.315	34.804	19.304 1.025054
	80	79	19.314	34.805	19.299 1.025142
	100	99	19.311	34.807	19.292 1.025231
	120	119	19.315	34.807	19.293 1.025319
	140	139	19.313	34.807	19.287 1.025407
	160	159	19.284	34.811	19.254 1.025504
	180	179	18.540	34.818	18.508 1.025787
	200	199	18.063	34.818	18.028 1.025995
	250	248	17.440	34.811	17.397 1.026362
	300	298	16.541	34.745	16.491 1.026749
	350	348	15.724	34.698	15.668 1.027122
	400	397	14.750	34.624	14.688 1.027507
	450	447	13.711	34.546	13.645 1.027895
	500	497	12.459	34.458	12.390 1.028310
	550	546	11.188	34.359	11.117 1.028707
	600	596	9.761	34.266	9.690 1.029123
	650	645	8.399	34.186	8.328 1.029519
	700	695	7.472	34.148	7.401 1.029865
	750	744	6.690	34.124	6.618 1.030193
	800	794	5.826	34.129	5.754 1.030550
	850	843	5.434	34.153	5.360 1.030851
	900	893	4.853	34.187	4.778 1.031185
	950	942	4.500	34.217	4.423 1.031483
	1000	992	4.025	34.267	3.948 1.031813
	1100	1091	3.575	34.323	3.493 1.032369
	1200	1190	3.276	34.371	3.188 1.032900
	1300	1288	2.972	34.419	2.879 1.033432
	1400	1387	2.746	34.457	2.648 1.033946
	1500	1486	2.602	34.491	2.497 1.034445
	1600	1584	2.450	34.518	2.339 1.034940
	1700	1683	2.316	34.539	2.198 1.035428
	1800	1781	2.193	34.558	2.069 1.035911
	1900	1880	2.089	34.579	1.958 1.036393
	2000	1978	2.018	34.594	1.879 1.036865
	2200	2175	1.858	34.620	1.705 1.037807
	2400	2372	1.756	34.636	1.587 1.038733
	2600	2568	1.679	34.646	1.493 1.039645
	2800	2764	1.618	34.657	1.415 1.040553
	3000	2960	1.570	34.665	1.349 1.041454
	3200	3156	1.526	34.671	1.286 1.042350
	3400	3352	1.497	34.676	1.238 1.043238
	3600	3547	1.476	34.680	1.197 1.044120
	3800	3743	1.460	34.684	1.160 1.044999
	4000	3938	1.451	34.687	1.129 1.045872
	4200	4133	1.450	34.689	1.106 1.046739
	4400	4328	1.453	34.691	1.086 1.047602
	4600	4523	1.463	34.691	1.072 1.048458
	4800	4717	1.476	34.693	1.061 1.049311
	5000	4912	1.493	34.693	1.053 1.050159
	5200	5106	1.511	34.693	1.045 1.051003
	5400	5300	1.532	34.694	1.040 1.051842
	5600	5494	1.554	34.694	1.035 1.052677
	5800	5687	1.580	34.693	1.033 1.053508
	6000	5881	1.605	34.694	1.030 1.054335

ST09	87/ 2/ 1	00:40	28-54.3N	142-55.0E	9100M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	20	19.657	34.834	19.654	1.024814
40	39	19.460	34.813	19.453	1.024936
60	59	19.390	34.804	19.379	1.025035
80	79	19.343	34.804	19.328	1.025134
100	99	19.310	34.806	19.291	1.025231
120	119	19.236	34.803	19.214	1.025336
140	139	19.228	34.802	19.202	1.025425
160	159	19.211	34.802	19.181	1.025517
180	179	19.195	34.805	19.162	1.025610
200	199	18.626	34.803	18.590	1.025842
250	248	17.418	34.797	17.375	1.026357
300	298	16.506	34.735	16.456	1.026749
350	348	15.533	34.673	15.477	1.027148
400	397	14.534	34.608	14.473	1.027543
450	447	13.322	34.516	13.257	1.027954
500	497	11.769	34.406	11.703	1.028408
550	546	10.391	34.290	10.323	1.028804
600	596	9.367	34.228	9.298	1.029163
650	645	8.021	34.166	7.952	1.029567
700	695	7.225	34.141	7.155	1.029899
750	745	6.528	34.124	6.457	1.030218
800	794	5.777	34.135	5.705	1.030561
850	844	5.275	34.168	5.202	1.030885
900	893	4.811	34.179	4.737	1.031184
950	942	4.419	34.219	4.343	1.031495
1000	992	4.068	34.262	3.990	1.031803
1100	1091	3.630	34.331	3.548	1.032369
1200	1190	3.261	34.393	3.174	1.032919
1300	1288	2.956	34.436	2.863	1.033447
1400	1387	2.740	34.474	2.642	1.033959
1500	1486	2.581	34.497	2.476	1.034452
1600	1584	2.398	34.526	2.287	1.034952
1700	1683	2.297	34.540	2.179	1.035430
1800	1781	2.177	34.562	2.053	1.035915
1900	1880	2.056	34.580	1.925	1.036399
2000	1978	1.972	34.596	1.834	1.036873
2200	2175	1.842	34.619	1.689	1.037809
2400	2372	1.745	34.634	1.576	1.038733
2600	2568	1.677	34.646	1.491	1.039645
2800	2764	1.621	34.654	1.418	1.040550
3000	2960	1.573	34.663	1.352	1.041451
3200	3156	1.540	34.667	1.300	1.042343
3400	3352	1.509	34.673	1.250	1.043234
3600	3547	1.477	34.678	1.198	1.044118
3800	3743	1.467	34.682	1.167	1.044996
4000	3938	1.462	34.685	1.140	1.045869
4200	4133	1.461	34.686	1.117	1.046734
4400	4328	1.459	34.688	1.092	1.047598
4600	4522	1.466	34.690	1.075	1.048456
4800	4717	1.477	34.692	1.062	1.049310
5000	4912	1.494	34.692	1.054	1.050159
5200	5106	1.512	34.692	1.046	1.051002
5400	5300	1.533	34.692	1.041	1.051841
5600	5494	1.555	34.692	1.036	1.052675
5800	5687	1.579	34.693	1.032	1.053508
6000	5881	1.604	34.693	1.029	1.054335

ST10	87/ 2/ 1	05:59	28-49.5N	142-47.1E	7050M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	19.769	34.809	19.766 1.024765
	40	39	19.743	34.812	19.735 1.024862
	60	59	19.746	34.812	19.735 1.024948
	80	79	19.752	34.814	19.737 1.025036
	100	99	19.753	34.813	19.734 1.025123
	120	119	19.755	34.813	19.732 1.025208
	140	139	19.752	34.814	19.725 1.025297
	160	159	19.660	34.801	19.630 1.025398
	180	179	19.332	34.809	19.298 1.025578
	200	199	18.606	34.836	18.570 1.025872
	250	248	17.281	34.806	17.238 1.026398
	300	298	16.590	34.771	16.540 1.026757
	350	348	16.176	34.741	16.119 1.027051
	400	397	15.341	34.668	15.278 1.027408
	450	447	14.415	34.583	14.347 1.027771
	500	497	13.289	34.506	13.217 1.028174
	550	546	11.963	34.395	11.889 1.028583
	600	596	10.167	34.242	10.094 1.029031
	650	646	9.259	34.231	9.184 1.029409
	700	695	7.808	34.142	7.735 1.029807
	750	744	6.783	34.116	6.710 1.030172
	800	794	6.224	34.119	6.150 1.030485
	850	844	5.429	34.092	5.355 1.030805
	900	893	5.099	34.175	5.022 1.031142
	950	942	4.643	34.213	4.565 1.031461
	1000	992	4.261	34.249	4.182 1.031768
	1100	1091	3.707	34.320	3.624 1.032351
	1200	1190	3.305	34.383	3.217 1.032907
	1300	1288	3.070	34.430	2.976 1.033429
	1400	1387	2.833	34.459	2.734 1.033937
	1500	1486	2.652	34.487	2.546 1.034436
	1600	1585	2.439	34.521	2.328 1.034945
	1700	1683	2.311	34.542	2.193 1.035430
	1800	1781	2.212	34.560	2.087 1.035910
	1900	1880	2.084	34.581	1.953 1.036395
	2000	1978	1.982	34.598	1.844 1.036873
	2200	2175	1.830	34.623	1.677 1.037814
	2400	2372	1.745	34.635	1.576 1.038733
	2600	2568	1.673	34.647	1.488 1.039647
	2800	2764	1.615	34.657	1.412 1.040553
	3000	2960	1.561	34.665	1.340 1.041454
	3200	3156	1.510	34.672	1.271 1.042353
	3400	3352	1.486	34.677	1.227 1.043240
	3600	3547	1.467	34.680	1.188 1.044122
	3800	3743	1.456	34.682	1.156 1.044998
	4000	3938	1.452	34.686	1.130 1.045871
	4200	4133	1.446	34.688	1.102 1.046739
	4400	4328	1.450	34.691	1.083 1.047602
	4600	4523	1.455	34.692	1.065 1.048460
	4800	4717	1.469	34.692	1.054 1.049312
	5000	4912	1.488	34.693	1.048 1.050160
	5200	5106	1.506	34.694	1.040 1.051003
	5400	5300	1.530	34.693	1.038 1.051842
	5600	5494	1.551	34.694	1.032 1.052677
	5800	5687	1.575	34.694	1.028 1.053509
	6000	5881	1.601	34.693	1.026 1.054336

ST11 87/ 2/ 1 10:56 28-45.4N 142-38.5E 5000M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 20.396 34.904 20.393 1.024672  
 40 39 20.374 34.909 20.366 1.024769  
 60 59 20.352 34.901 20.340 1.024856  
 80 79 20.205 34.903 20.190 1.024983  
 100 99 20.160 34.897 20.141 1.025078  
 120 119 19.741 34.842 19.718 1.025234  
 140 139 19.272 34.846 19.246 1.025447  
 160 159 18.611 34.842 18.582 1.025701  
 180 179 18.215 34.815 18.183 1.025867  
 200 199 17.800 34.833 17.765 1.026073  
 250 248 17.080 34.795 17.037 1.026438  
 300 298 16.483 34.763 16.433 1.026775  
 350 348 15.845 34.718 15.788 1.027110  
 400 397 14.927 34.637 14.865 1.027477  
 450 447 13.317 34.503 13.252 1.027946  
 500 497 11.976 34.397 11.909 1.028359  
 550 546 10.375 34.272 10.307 1.028792  
 600 596 8.588 34.147 8.522 1.029233  
 650 645 8.038 34.124 7.969 1.029531  
 700 695 7.092 34.086 7.023 1.029876  
 750 744 6.424 34.076 6.353 1.030195  
 800 794 5.802 34.061 5.730 1.030500  
 850 844 5.214 34.135 5.141 1.030869  
 900 893 4.946 34.181 4.871 1.031168  
 950 943 4.493 34.223 4.416 1.031489  
 1000 992 4.132 34.256 4.054 1.031790  
 1100 1091 3.632 34.332 3.549 1.032370  
 1200 1190 3.272 34.389 3.184 1.032915  
 1300 1288 2.995 34.432 2.902 1.033440  
 1400 1387 2.780 34.465 2.681 1.033948  
 1500 1486 2.576 34.496 2.471 1.034452  
 1600 1584 2.445 34.521 2.334 1.034943  
 1700 1683 2.305 34.545 2.187 1.035433  
 1800 1781 2.167 34.565 2.043 1.035920  
 1900 1880 2.095 34.578 1.964 1.036391  
 2000 1978 2.008 34.591 1.870 1.036864  
 2200 2175 1.875 34.611 1.721 1.037800  
 2400 2372 1.749 34.632 1.580 1.038731  
 2600 2568 1.674 34.646 1.488 1.039645  
 2800 2764 1.612 34.653 1.409 1.040551  
 3000 2960 1.555 34.664 1.334 1.041454  
 3200 3156 1.520 34.669 1.281 1.042349  
 3400 3352 1.489 34.675 1.230 1.043238

ST12	87/	2/	1	15:00	28-40.2N	142-29.6E	4000M
PRESSURE		DEPTH		T	S	POT-T	DENSITY
20		19		19.813	34.857	19.810	1.024790
40		39		19.769	34.858	19.761	1.024890
60		59		19.767	34.857	19.756	1.024977
80		79		19.765	34.856	19.750	1.025064
100		99		19.700	34.837	19.681	1.025153
120		119		19.246	34.841	19.224	1.025362
140		139		18.973	34.832	18.947	1.025514
160		159		18.708	34.837	18.679	1.025672
180		179		18.247	34.835	18.215	1.025875
200		199		17.797	34.825	17.762	1.026066
250		248		17.158	34.798	17.115	1.026422
300		298		16.780	34.780	16.730	1.026718
350		348		16.125	34.734	16.068	1.027057
400		397		15.079	34.646	15.016	1.027451
450		447		13.740	34.545	13.674	1.027888
500		497		12.651	34.456	12.581	1.028270
550		546		11.552	34.343	11.480	1.028625
600		596		9.328	34.196	9.259	1.029145
650		645		8.817	34.162	8.744	1.029430
700		695		7.359	34.077	7.288	1.029828
750		745		6.584	34.069	6.512	1.030166
800		794		5.929	34.077	5.856	1.030495
850		844		5.467	34.104	5.393	1.030808
900		893		4.899	34.135	4.824	1.031138
950		942		4.607	34.170	4.530	1.031431
1000		992		4.237	34.219	4.158	1.031747
1100		1091		3.723	34.308	3.640	1.032339
1200		1190		3.465	34.353	3.376	1.032863
1300		1289		3.154	34.408	3.059	1.033401
1400		1387		2.956	34.435	2.855	1.033902
1500		1486		2.689	34.482	2.583	1.034428
1600		1585		2.550	34.505	2.437	1.034920
1700		1683		2.370	34.532	2.251	1.035415
1800		1782		2.212	34.556	2.087	1.035908
1900		1880		2.117	34.571	1.985	1.036385
2000		1978		2.015	34.587	1.876	1.036860
2200		2175		1.856	34.615	1.703	1.037804
2400		2372		1.760	34.632	1.591	1.038729
2600		2568		1.689	34.643	1.503	1.039641
2800		2764		1.648	34.651	1.444	1.040544
3000		2960		1.573	34.662	1.352	1.041451
3200		3156		1.526	34.669	1.286	1.042347
3400		3352		1.498	34.674	1.239	1.043236
3600		3547		1.481	34.678	1.202	1.044117
3800		3743		1.440	34.685	1.141	1.045003

ST13 87/ 2/ 1 18:15 28-34.4N 142-20.9E 2260M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 19.959 34.875 19.956 1.024766  
 40 39 19.930 34.878 19.922 1.024862  
 60 59 19.907 34.874 19.896 1.024953  
 80 79 19.828 34.859 19.813 1.025050  
 100 99 19.792 34.854 19.773 1.025143  
 120 119 19.489 34.793 19.467 1.025262  
 140 139 18.755 34.831 18.730 1.025569  
 160 159 18.070 34.835 18.042 1.025831  
 180 179 17.888 34.825 17.856 1.025957  
 200 199 17.554 34.797 17.519 1.026105  
 250 248 16.824 34.789 16.782 1.026494  
 300 298 16.447 34.768 16.397 1.026789  
 350 348 15.796 34.711 15.740 1.027117  
 400 398 14.774 34.614 14.712 1.027495  
 450 447 13.142 34.488 13.078 1.027970  
 500 497 11.942 34.394 11.875 1.028364  
 550 546 11.124 34.336 11.053 1.028702  
 600 596 9.023 34.173 8.955 1.029180  
 650 645 8.335 34.147 8.265 1.029500  
 700 695 7.103 34.064 7.034 1.029858  
 750 744 6.462 34.075 6.391 1.030189  
 800 794 6.063 34.081 5.990 1.030478  
 850 844 5.477 34.103 5.403 1.030807  
 900 893 4.997 34.143 4.921 1.031132  
 950 942 4.401 34.199 4.325 1.031482  
 1000 992 4.240 34.221 4.161 1.031749  
 1100 1091 3.715 34.312 3.632 1.032343  
 1200 1190 3.278 34.385 3.190 1.032911  
 1300 1288 3.033 34.427 2.940 1.033431  
 1400 1387 2.792 34.463 2.693 1.033945  
 1500 1486 2.563 34.498 2.458 1.034455  
 1600 1584 2.425 34.522 2.314 1.034946  
 1700 1683 2.249 34.550 2.132 1.035444  
 1800 1781 2.136 34.568 2.012 1.035926  
 1900 1880 2.041 34.579 1.910 1.036400  
 2000 1978 1.973 34.594 1.835 1.036872  
 2200 2175 1.797 34.624 1.645 1.037819

ST14 87/ 2/ 1 20:49 28-30.2N 142-13.0E 1970M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 20.311 34.908 20.308 1.024697  
 40 39 20.290 34.912 20.282 1.024793  
 60 59 20.289 34.910 20.277 1.024879  
 80 79 20.293 34.911 20.278 1.024967  
 100 99 20.290 34.910 20.271 1.025053  
 120 119 20.291 34.907 20.268 1.025138  
 140 139 19.697 34.867 19.671 1.025352  
 160 159 18.842 34.829 18.813 1.025632  
 180 179 18.338 34.826 18.306 1.025845  
 200 199 17.650 34.807 17.615 1.026089  
 250 248 17.089 34.795 17.046 1.026436  
 300 298 16.597 34.766 16.547 1.026751  
 350 348 16.134 34.740 16.077 1.027060  
 400 397 14.753 34.616 14.691 1.027501  
 450 447 13.218 34.491 13.154 1.027957  
 500 497 11.923 34.384 11.856 1.028360  
 550 547 10.375 34.271 10.307 1.028792  
 600 596 9.903 34.251 9.831 1.029086  
 650 645 7.701 34.112 7.634 1.029575  
 700 695 7.160 34.100 7.090 1.029877  
 750 745 6.108 34.072 6.039 1.030239  
 800 794 5.623 34.087 5.552 1.030546  
 850 844 5.336 34.113 5.263 1.030834  
 900 893 4.908 34.149 4.833 1.031148  
 950 942 4.458 34.194 4.382 1.031470  
 1000 992 4.094 34.245 4.016 1.031786  
 1100 1091 3.610 34.334 3.528 1.032373  
 1200 1190 3.309 34.385 3.221 1.032907  
 1300 1288 3.098 34.420 3.004 1.033417  
 1400 1387 2.757 34.470 2.658 1.033955  
 1500 1494 2.485 34.510 2.381 1.034512  
 1600 1584 2.306 34.539 2.197 1.034975  
 1700 1683 2.218 34.550 2.102 1.035448  
 1800 1781 2.118 34.569 1.995 1.035929  
 1900 1880 2.043 34.582 1.912 1.036401

STHU1 87/ 2/ 3 02:45 23-30.3N 144-59.3E 5800M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 24.485 35.079 24.481 1.023644  
 40 39 24.459 35.084 24.450 1.023743  
 60 59 24.012 34.959 23.999 1.023868  
 80 79 23.013 34.909 22.996 1.024209  
 100 99 21.656 34.915 21.636 1.024685  
 120 119 20.095 34.896 20.072 1.025182  
 140 139 19.131 34.879 19.105 1.025509  
 160 159 18.546 34.864 18.517 1.025734  
 180 179 17.763 34.829 17.732 1.025990  
 200 199 17.296 34.804 17.262 1.026174  
 250 248 16.396 34.745 16.355 1.026563  
 300 298 15.585 34.674 15.537 1.026917  
 350 348 14.487 34.595 14.434 1.027323  
 400 397 12.911 34.447 12.855 1.027765  
 450 447 11.524 34.328 11.465 1.028172  
 500 497 10.310 34.257 10.249 1.028569  
 550 546 9.209 34.212 9.146 1.028954  
 600 596 8.158 34.176 8.094 1.029326  
 650 645 7.320 34.158 7.255 1.029672  
 700 695 6.650 34.157 6.583 1.029998  
 750 745 6.041 34.165 5.973 1.030322  
 800 794 5.546 34.179 5.476 1.030629  
 850 844 5.088 34.224 5.016 1.030955  
 900 893 4.730 34.237 4.656 1.031240  
 950 942 4.387 34.271 4.311 1.031540  
 1000 992 4.059 34.317 3.981 1.031848  
 1100 1091 3.593 34.390 3.511 1.032420  
 1200 1189 3.325 34.455 3.237 1.032961  
 1300 1288 2.981 34.489 2.888 1.033485  
 1400 1387 2.827 34.526 2.727 1.033990  
 1500 1486 2.614 34.537 2.509 1.034479  
 1600 1584 2.420 34.564 2.309 1.034980  
 1700 1683 2.314 34.573 2.196 1.035454  
 1800 1781 2.210 34.585 2.085 1.035930  
 1900 1880 2.092 34.601 1.961 1.036409  
 2000 1978 2.026 34.610 1.887 1.036877  
 2200 2175 1.882 34.629 1.728 1.037812  
 2400 2372 1.777 34.643 1.608 1.038735  
 2600 2568 1.688 34.654 1.502 1.039650  
 2800 2764 1.626 34.663 1.423 1.040557  
 3000 2960 1.574 34.669 1.353 1.041457  
 3200 3156 1.543 34.674 1.303 1.042348  
 3400 3352 1.508 34.679 1.249 1.043238  
 3600 3547 1.489 34.683 1.209 1.044121  
 3800 3743 1.472 34.685 1.172 1.044997  
 4000 3938 1.472 34.687 1.150 1.045868  
 4200 4133 1.470 34.690 1.125 1.046736  
 4400 4328 1.470 34.690 1.103 1.047598  
 4600 4522 1.474 34.692 1.083 1.048456  
 4800 4717 1.482 34.693 1.067 1.049310  
 5000 4912 1.488 34.695 1.048 1.050161  
 5200 5106 1.499 34.696 1.033 1.051007  
 5400 5300 1.512 34.697 1.020 1.051848  
 5600 5494 1.531 34.698 1.012 1.052685

ST18 87/ 2/ 3 14:24 21-59.1N 145-34.0E 6200M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 25.130 34.969 25.126 1.023365  
 40 39 25.093 34.975 25.084 1.023468  
 60 59 25.031 34.976 25.017 1.023574  
 80 79 24.977 34.990 24.959 1.023687  
 100 99 24.493 34.979 24.470 1.023911  
 120 119 23.570 35.025 23.544 1.024307  
 140 139 21.900 34.965 21.871 1.024828  
 160 159 20.384 34.865 20.353 1.025255  
 180 179 19.200 34.862 19.167 1.025653  
 200 199 18.190 34.835 18.154 1.025976  
 250 249 17.333 34.812 17.290 1.026390  
 300 298 16.640 34.766 16.590 1.026740  
 350 348 15.455 34.666 15.399 1.027161  
 400 398 14.311 34.574 14.251 1.027566  
 450 447 12.787 34.440 12.724 1.028008  
 500 497 11.159 34.313 11.095 1.028454  
 550 546 9.960 34.249 9.894 1.028850  
 600 596 8.782 34.193 8.715 1.029237  
 650 646 7.694 34.145 7.627 1.029602  
 700 695 6.737 34.152 6.670 1.029982  
 750 745 5.909 34.179 5.841 1.030351  
 800 794 5.242 34.234 5.174 1.030714  
 850 844 4.917 34.287 4.846 1.031027  
 900 893 4.660 34.320 4.586 1.031316  
 950 943 4.349 34.357 4.273 1.031613  
 1000 992 4.038 34.399 3.960 1.031916  
 1100 1091 3.651 34.447 3.568 1.032458  
 1200 1190 3.316 34.483 3.228 1.032984  
 1300 1288 3.044 34.511 2.950 1.033496  
 1400 1387 2.789 34.530 2.690 1.033998  
 1500 1486 2.601 34.547 2.496 1.034490  
 1600 1585 2.444 34.566 2.333 1.034982  
 1700 1683 2.300 34.580 2.182 1.035461  
 1800 1781 2.223 34.593 2.098 1.035934  
 1900 1880 2.105 34.603 1.973 1.036409  
 2000 1978 2.029 34.613 1.890 1.036879  
 2200 2175 1.880 34.633 1.726 1.037816  
 2400 2372 1.781 34.645 1.611 1.038736  
 2600 2568 1.699 34.653 1.513 1.039648  
 2800 2764 1.633 34.662 1.430 1.040555  
 3000 2960 1.560 34.672 1.339 1.041461  
 3200 3156 1.515 34.677 1.276 1.042355  
 3400 3352 1.488 34.681 1.229 1.043242  
 3600 3547 1.457 34.686 1.178 1.044127  
 3800 3743 1.444 34.689 1.144 1.045005  
 4000 3938 1.438 34.691 1.117 1.045877  
 4200 4133 1.433 34.694 1.090 1.046745  
 4400 4328 1.438 34.696 1.072 1.047608  
 4600 4523 1.446 34.696 1.056 1.048464  
 4800 4717 1.454 34.699 1.040 1.049320  
 5000 4911 1.463 34.699 1.024 1.050169  
 5200 5106 1.485 34.699 1.020 1.051012  
 5400 5300 1.505 34.700 1.014 1.051852  
 5600 5494 1.526 34.699 1.008 1.052687  
 5800 5687 1.549 34.699 1.003 1.053518  
 6000 5881 1.572 34.700 0.998 1.054346

PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	19	25.121	34.964	25.117	1.023364
40	40	24.976	34.979	24.967	1.023507
60	59	24.950	34.998	24.936	1.023615
80	79	24.936	35.003	24.918	1.023709
100	99	24.755	35.021	24.732	1.023864
120	119	24.708	35.024	24.681	1.023966
140	139	22.576	34.998	22.547	1.024662
160	159	21.732	34.957	21.699	1.024956
180	179	19.997	34.925	19.963	1.025491
200	199	18.578	34.847	18.542	1.025887
250	248	17.125	34.793	17.082	1.026425
300	298	16.366	34.748	16.316	1.026792
350	348	15.133	34.632	15.078	1.027207
400	398	13.705	34.499	13.646	1.027638
450	447	12.010	34.364	11.950	1.028105
500	497	10.519	34.272	10.457	1.028543
550	546	9.293	34.215	9.230	1.028941
600	596	7.850	34.160	7.787	1.029364
650	646	6.817	34.138	6.754	1.029733
700	695	6.025	34.178	5.961	1.030106
750	745	5.445	34.205	5.380	1.030436
800	794	4.966	34.269	4.899	1.030779
850	844	4.727	34.288	4.657	1.031054
900	893	4.520	34.341	4.447	1.031350
950	942	4.182	34.357	4.108	1.031634
1000	992	3.819	34.360	3.743	1.031911
1100	1091	3.495	34.414	3.414	1.032452
1200	1190	3.115	34.455	3.029	1.032987
1300	1288	3.009	34.507	2.916	1.033498
1400	1387	2.779	34.527	2.680	1.033998
1500	1486	2.604	34.547	2.499	1.034490
1600	1584	2.406	34.564	2.295	1.034982
1700	1683	2.277	34.582	2.160	1.035465
1800	1782	2.165	34.597	2.041	1.035946
1900	1880	2.070	34.607	1.939	1.036418
2000	1978	2.004	34.616	1.866	1.036884
2200	2175	1.884	34.630	1.730	1.037813
2400	2372	1.754	34.643	1.585	1.038738
2600	2568	1.677	34.656	1.491	1.039653
2800	2764	1.604	34.665	1.401	1.040561
3000	2960	1.547	34.671	1.327	1.041463
3200	3156	1.508	34.676	1.269	1.042355
3400	3352	1.491	34.679	1.232	1.043241
3600	3547	1.484	34.682	1.205	1.044120
3800	3743	1.463	34.686	1.163	1.044999
4000	3938	1.446	34.689	1.125	1.045874
4200	4133	1.428	34.692	1.085	1.046745
4400	4328	1.431	34.695	1.065	1.047608

ST16	87/ 2 / 3	22:52	21-45.8N	145-18.4E	4460M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	25.044	34.970	25.040	1.023393
	40	24.941	34.997	24.932	1.023531
	60	24.884	35.017	24.870	1.023649
	80	24.753	35.044	24.735	1.023796
	100	24.707	35.030	24.684	1.023885
	120	24.111	35.000	24.084	1.024128
	140	22.693	34.977	22.663	1.024611
	160	21.457	34.965	21.425	1.025038
	180	19.566	34.886	19.532	1.025576
	200	18.452	34.789	18.416	1.025875
	250	17.318	34.805	17.275	1.026388
	300	16.491	34.747	16.441	1.026762
	350	15.177	34.638	15.122	1.027202
	400	14.126	34.552	14.066	1.027589
	450	12.466	34.401	12.404	1.028043
	500	10.983	34.297	10.920	1.028475
	550	9.629	34.215	9.565	1.028883
	600	8.342	34.168	8.277	1.029290
	650	7.143	34.148	7.079	1.029691
	700	6.188	34.165	6.124	1.030073
	750	5.476	34.187	5.411	1.030417
	800	4.944	34.256	4.877	1.030771
	850	4.738	34.294	4.668	1.031057
	900	4.345	34.303	4.274	1.031343
	950	3.994	34.344	3.921	1.031649
	1000	3.824	34.406	3.748	1.031947
	1100	3.444	34.457	3.363	1.032493
	1200	3.289	34.487	3.201	1.032991
	1300	2.955	34.515	2.862	1.033510
	1400	2.684	34.540	2.586	1.034019
	1500	2.511	34.557	2.406	1.034544
	1600	2.428	34.566	2.317	1.034981
	1700	2.281	34.580	2.164	1.035463
	1800	2.167	34.598	2.043	1.035945
	1900	2.068	34.608	1.937	1.036419
	2000	1.949	34.617	1.811	1.036893
	2200	1.844	34.631	1.691	1.037819
	2400	1.759	34.645	1.590	1.038739
	2600	1.664	34.656	1.479	1.039655
	2800	1.599	34.665	1.396	1.040562
	3000	1.544	34.671	1.324	1.041462
	3200	1.517	34.675	1.278	1.042353
	3400	1.486	34.679	1.227	1.043242
	3600	1.469	34.683	1.190	1.044124
	3800	1.460	34.686	1.160	1.045000
	4000	1.431	34.690	1.110	1.045877
	4200	1.423	34.692	1.080	1.046745
	4400	1.426	34.694	1.060	1.047609

ST15 87/ 2/ 4 02:38 21-39.7N 145-10.3E 3670M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 24.767 35.019 24.763 1.023514  
 40 39 24.735 35.021 24.726 1.023612  
 60 59 24.711 35.027 24.697 1.023709  
 80 79 24.703 35.030 24.685 1.023801  
 100 99 24.680 35.032 24.657 1.023895  
 120 119 24.305 35.021 24.278 1.024086  
 140 139 23.340 34.968 23.310 1.024418  
 160 159 22.747 34.965 22.713 1.024673  
 180 179 21.368 34.960 21.332 1.025146  
 200 199 19.983 34.854 19.945 1.025528  
 250 249 17.606 34.810 17.563 1.026320  
 300 298 16.751 34.784 16.701 1.026728  
 350 348 15.915 34.716 15.858 1.027093  
 400 398 14.351 34.573 14.291 1.027556  
 450 447 13.373 34.497 13.308 1.027929  
 500 497 11.819 34.344 11.752 1.028351  
 550 547 10.290 34.274 10.223 1.028810  
 600 596 8.589 34.181 8.523 1.029260  
 650 646 7.398 34.157 7.332 1.029659  
 700 695 6.202 34.142 6.137 1.030052  
 750 745 5.598 34.177 5.532 1.030393  
 800 794 5.168 34.247 5.100 1.030734  
 850 844 4.565 34.274 4.497 1.031064  
 900 893 4.329 34.306 4.258 1.031347  
 950 943 4.134 34.328 4.060 1.031618  
 1000 992 4.041 34.401 3.963 1.031916  
 1100 1091 3.651 34.455 3.568 1.032464  
 1200 1190 3.252 34.489 3.164 1.032997  
 1300 1288 2.994 34.504 2.901 1.033496  
 1400 1387 2.755 34.527 2.656 1.034000  
 1500 1486 2.601 34.552 2.496 1.034493  
 1600 1585 2.445 34.574 2.334 1.034985  
 1700 1683 2.321 34.586 2.203 1.035463  
 1800 1782 2.206 34.595 2.081 1.035938  
 1900 1880 2.031 34.607 1.901 1.036423  
 2000 1979 1.939 34.615 1.802 1.036896  
 2200 2175 1.826 34.630 1.673 1.037820  
 2400 2372 1.732 34.643 1.563 1.038741  
 2600 2568 1.675 34.656 1.489 1.039653  
 2800 2764 1.609 34.662 1.406 1.040559  
 3000 2960 1.545 34.671 1.325 1.041462  
 3200 3156 1.506 34.677 1.267 1.042356  
 3400 3352 1.455 34.682 1.197 1.043249  
 3600 3547 1.430 34.686 1.152 1.044132

STH2	87/ 2 / 5	12:13	14-59.9N	145-00.2E	2740M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	27.150	34.400	27.146	1.022306
	40	27.093	34.401	27.083	1.022410
	60	27.035	34.411	27.020	1.022522
	80	26.924	34.751	26.904	1.022900
	100	25.934	35.071	25.910	1.023540
	120	24.296	35.164	24.269	1.024198
	140	23.041	35.141	23.011	1.024641
	160	21.082	35.036	21.050	1.025195
	180	19.654	34.930	19.620	1.025586
	200	19.084	34.913	19.047	1.025809
	250	15.516	34.624	15.476	1.026673
	300	12.751	34.426	12.709	1.027337
	350	10.931	34.322	10.887	1.027833
	400	9.557	34.284	9.511	1.028275
	450	8.127	34.284	8.080	1.028738
	500	7.528	34.293	7.477	1.029065
	550	6.595	34.328	6.543	1.029460
	600	5.776	34.393	5.723	1.029854
	650	5.513	34.434	5.457	1.030151
	700	5.181	34.461	5.122	1.030445
	750	4.923	34.483	4.861	1.030725
	800	4.739	34.494	4.674	1.030986
	850	4.525	34.504	4.457	1.031251
	900	4.327	34.517	4.256	1.031513
	950	4.206	34.525	4.131	1.031765
	1000	4.026	34.534	3.948	1.032022
	1100	3.744	34.548	3.660	1.032526
	1200	3.517	34.559	3.427	1.033019
	1300	3.238	34.572	3.142	1.033520
	1400	3.020	34.582	2.918	1.034010
	1500	2.825	34.590	2.717	1.034495
	1600	2.613	34.601	2.499	1.034985
	1700	2.509	34.606	2.388	1.035455
	1800	2.339	34.616	2.212	1.035938
	1900	2.207	34.623	2.074	1.036412
	2000	2.074	34.630	1.934	1.036886
	2200	1.916	34.642	1.762	1.037817
	2400	1.784	34.652	1.614	1.038740
	2600	1.696	34.659	1.510	1.039653

STC201	87/ 2/ 8	19:22	12-59.3N	143-59.3E	3200M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	19	27.251	34.207	27.247	1.022128
40	39	27.228	34.210	27.218	1.022223
60	59	27.172	34.217	27.157	1.022333
80	79	26.615	34.522	26.596	1.022825
100	99	25.178	35.038	25.155	1.023747
120	119	23.653	35.137	23.627	1.024367
140	139	20.925	35.002	20.897	1.025126
160	159	19.679	34.938	19.649	1.025498
180	179	19.171	34.904	19.138	1.025692
200	199	16.688	34.702	16.655	1.026241
250	249	13.258	34.472	13.222	1.027047
300	298	10.682	34.334	10.645	1.027664
350	348	8.737	34.286	8.699	1.028189
400	397	7.890	34.328	7.849	1.028584
450	447	7.391	34.414	7.346	1.028955
500	497	6.713	34.442	6.665	1.029305
550	546	6.292	34.460	6.241	1.029607
600	596	5.920	34.474	5.866	1.029899
650	645	5.577	34.485	5.520	1.030182
700	695	5.340	34.498	5.280	1.030453
750	744	5.070	34.505	5.007	1.030723
800	794	4.830	34.514	4.764	1.030990
850	843	4.680	34.523	4.610	1.031244
900	893	4.429	34.532	4.357	1.031513
950	942	4.240	34.536	4.165	1.031769
1000	992	4.136	34.537	4.057	1.032011
1100	1090	3.834	34.549	3.749	1.032515
1200	1189	3.353	34.563	3.264	1.033043
1300	1288	3.175	34.577	3.080	1.033532
1400	1387	2.953	34.586	2.852	1.034021
1500	1485	2.688	34.595	2.582	1.034516
1600	1584	2.479	34.607	2.367	1.035007
1700	1683	2.338	34.614	2.220	1.035482
1800	1781	2.238	34.620	2.113	1.035954
1900	1880	2.134	34.628	2.002	1.036426
2000	1978	2.065	34.632	1.925	1.036889
2200	2175	1.951	34.641	1.796	1.037812
2400	2371	1.818	34.651	1.648	1.038735
2600	2568	1.742	34.658	1.555	1.039645
2800	2764	1.649	34.663	1.445	1.040554
3000	2960	1.610	34.669	1.388	1.041451

STC202	87/ 2/ 9	04:12	11-59.8N	142-59.7E	4160M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	27.190	34.261	27.186 1.022188
	40	39	27.164	34.268	27.154 1.022287
	60	59	27.169	34.267	27.154 1.022371
	80	79	27.174	34.267	27.154 1.022456
	100	99	24.820	35.088	24.797 1.023894
	120	119	22.929	35.125	22.903 1.024570
	140	139	21.238	35.060	21.210 1.025084
	160	159	19.439	34.928	19.409 1.025553
	180	179	16.724	34.717	16.694 1.026156
	200	199	15.009	34.582	14.978 1.026534
	250	249	12.126	34.411	12.093 1.027227
	300	298	10.375	34.347	10.339 1.027730
	350	348	9.128	34.407	9.089 1.028218
	400	397	8.526	34.476	8.483 1.028598
	450	447	8.028	34.487	7.981 1.028913
	500	497	7.485	34.490	7.434 1.029226
	550	546	6.860	34.477	6.807 1.029537
	600	596	6.535	34.484	6.478 1.029818
	650	645	6.170	34.493	6.110 1.030106
	700	695	5.783	34.499	5.720 1.030393
	750	744	5.497	34.499	5.431 1.030660
	800	794	5.220	34.509	5.151 1.030934
	850	843	4.942	34.520	4.871 1.031207
	900	893	4.717	34.524	4.643 1.031468
	950	942	4.511	34.538	4.434 1.031734
	1000	992	4.324	34.543	4.244 1.031991
	1100	1090	3.912	34.556	3.827 1.032510
	1200	1189	3.637	34.566	3.546 1.033010
	1300	1288	3.416	34.567	3.318 1.033493
	1400	1387	3.164	34.579	3.061 1.033989
	1500	1485	2.926	34.589	2.817 1.034482
	1600	1584	2.721	34.601	2.606 1.034970
	1700	1683	2.536	34.608	2.415 1.035457
	1800	1781	2.394	34.615	2.266 1.035930
	1900	1880	2.292	34.623	2.157 1.036402
	2000	1978	2.176	34.633	2.035 1.036876
	2200	2175	1.986	34.641	1.830 1.037807
	2400	2371	1.856	34.649	1.685 1.038728
	2600	2568	1.694	34.660	1.508 1.039654
	2800	2764	1.628	34.667	1.425 1.040560
	3000	2960	1.556	34.674	1.335 1.041463
	3200	3156	1.533	34.676	1.293 1.042352
	3400	3352	1.498	34.681	1.239 1.043242
	3600	3547	1.492	34.682	1.212 1.044119
	3800	3742	1.492	34.684	1.191 1.044992
	4000	3938	1.499	34.685	1.176 1.045862

STC203	87/ 2/ 9	13:08	12-59.8N	142-00.0E	2970M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	27.121	34.257	27.117 1.022207
	40	40	27.076	34.259	27.066 1.022309
	60	59	27.078	34.258	27.063 1.022393
	80	79	27.082	34.259	27.062 1.022479
	100	99	26.659	34.824	26.635 1.023125
	120	119	25.197	35.036	25.169 1.023827
	140	139	22.534	35.112	22.505 1.024759
	160	159	20.251	34.973	20.220 1.025373
	180	179	18.976	34.823	18.943 1.025680
	200	199	16.845	34.723	16.811 1.026220
	250	249	13.717	34.495	13.681 1.026969
	300	298	11.723	34.409	11.684 1.027527
	350	348	10.111	34.393	10.069 1.028038
	400	397	9.043	34.406	8.998 1.028458
	450	447	8.399	34.430	8.351 1.028809
	500	497	7.556	34.444	7.505 1.029180
	550	546	7.085	34.459	7.031 1.029490
	600	596	6.745	34.460	6.687 1.029768
	650	645	6.155	34.469	6.095 1.030088
	700	695	5.861	34.481	5.798 1.030367
	750	744	5.551	34.492	5.485 1.030646
	800	794	5.268	34.500	5.199 1.030920
	850	843	4.987	34.510	4.915 1.031194
	900	893	4.683	34.522	4.609 1.031471
	950	942	4.403	34.530	4.327 1.031742
	1000	992	4.147	34.537	4.068 1.032008
	1100	1091	3.829	34.547	3.744 1.032514
	1200	1189	3.543	34.554	3.453 1.033011
	1300	1288	3.207	34.568	3.111 1.033521
	1400	1387	3.015	34.575	2.913 1.034005
	1500	1485	2.737	34.590	2.630 1.034506
	1600	1589	2.525	34.602	2.412 1.035019
	1700	1683	2.380	34.609	2.261 1.035474
	1800	1781	2.249	34.618	2.124 1.035951
	1900	1880	2.108	34.627	1.976 1.036428
	2000	1978	2.012	34.633	1.873 1.036898
	2200	2175	1.839	34.648	1.686 1.037833
	2400	2371	1.740	34.657	1.571 1.038751
	2600	2568	1.682	34.661	1.496 1.039656

STC204	87 / 2 / 9	22:10	11-58.7N	140-59.9E	4200M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	27.162	34.331	27.158 1.022249
	40	40	27.139	34.336	27.129 1.022347
	60	59	27.148	34.336	27.133 1.022429
	80	79	27.152	34.336	27.132 1.022514
	100	99	26.801	34.772	26.777 1.023041
	120	119	24.092	35.117	24.065 1.024221
	140	139	21.926	35.072	21.897 1.024902
	160	159	19.611	34.954	19.581 1.025528
	180	179	18.058	34.833	18.026 1.025920
	200	199	16.495	34.696	16.462 1.026281
	250	249	11.785	34.402	11.752 1.027287
	300	298	10.698	34.525	10.661 1.027811
	350	348	9.392	34.467	9.352 1.028221
	400	398	8.438	34.466	8.395 1.028605
	450	447	7.639	34.487	7.593 1.028974
	500	497	7.136	34.492	7.087 1.029282
	550	546	6.798	34.497	6.745 1.029563
	600	596	6.536	34.504	6.479 1.029834
	650	645	6.277	34.509	6.217 1.030103
	700	695	5.980	34.511	5.916 1.030375
	750	744	5.816	34.513	5.748 1.030627
	800	795	5.631	34.516	5.560 1.030889
	850	843	5.338	34.523	5.264 1.031156
	900	893	4.996	34.526	4.920 1.031432
	950	942	4.829	34.530	4.749 1.031686
	1000	992	4.488	34.537	4.407 1.031964
	1100	1090	4.161	34.545	4.073 1.032469
	1200	1189	3.871	34.555	3.777 1.032969
	1300	1288	3.423	34.566	3.325 1.033491
	1400	1387	3.192	34.577	3.088 1.033984
	1500	1485	2.946	34.584	2.837 1.034474
	1600	1584	2.702	34.596	2.587 1.034969
	1700	1684	2.437	34.612	2.317 1.035475
	1800	1781	2.291	34.621	2.165 1.035948
	1900	1880	2.149	34.629	2.017 1.036425
	2000	1978	2.054	34.634	1.915 1.036892
	2200	2175	1.874	34.646	1.720 1.037827
	2400	2371	1.733	34.658	1.564 1.038753
	2600	2568	1.664	34.665	1.479 1.039662
	2800	2764	1.625	34.669	1.422 1.040562
	3000	2960	1.573	34.673	1.352 1.041459
	3200	3156	1.527	34.679	1.287 1.042355
	3400	3352	1.479	34.683	1.220 1.043245
	3600	3547	1.466	34.686	1.187 1.044127
	3800	3742	1.469	34.687	1.169 1.044999
	4000	3938	1.486	34.687	1.163 1.045865

STC205	87/ 2/10	09:37	12-58.1N	139-59.1E	4620M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	20	26.995	34.579	26.991	1.022491
40	40	26.972	34.582	26.962	1.022586
60	59	26.975	34.582	26.960	1.022670
80	79	26.982	34.583	26.962	1.022755
100	99	25.770	35.101	25.746	1.023613
120	119	24.406	35.163	24.379	1.024162
140	139	23.264	35.145	23.234	1.024573
160	159	22.268	35.108	22.235	1.024919
180	179	19.912	34.935	19.878	1.025522
200	199	17.749	34.815	17.714	1.026071
250	249	14.452	34.556	14.414	1.026859
300	298	12.070	34.420	12.030	1.027469
350	348	10.370	34.454	10.327	1.028040
400	398	9.153	34.421	9.108	1.028451
450	447	8.408	34.438	8.360	1.028813
500	497	7.408	34.435	7.358	1.029196
550	546	6.836	34.442	6.783	1.029514
600	596	6.471	34.451	6.415	1.029802
650	645	6.290	34.457	6.230	1.030060
700	695	5.986	34.464	5.922	1.030336
750	744	5.592	34.485	5.526	1.030636
800	794	5.347	34.498	5.278	1.030908
850	843	5.147	34.507	5.074	1.031169
900	893	4.851	34.514	4.776	1.031442
950	942	4.536	34.522	4.459	1.031718
1000	992	4.366	34.530	4.286	1.031975
1100	1091	3.884	34.545	3.799	1.032505
1200	1189	3.549	34.561	3.458	1.033016
1300	1288	3.323	34.572	3.226	1.033509
1400	1387	3.003	34.584	2.901	1.034015
1500	1485	2.735	34.598	2.628	1.034513
1600	1584	2.620	34.605	2.506	1.034986
1700	1683	2.470	34.611	2.350	1.035464
1800	1781	2.311	34.621	2.185	1.035945
1900	1880	2.194	34.628	2.061	1.036418
2000	1978	2.076	34.635	1.936	1.036890
2200	2175	1.898	34.645	1.744	1.037823
2400	2371	1.770	34.655	1.601	1.038745
2600	2568	1.675	34.662	1.489	1.039659
2800	2764	1.639	34.665	1.436	1.040557
3000	2960	1.624	34.668	1.402	1.041448
3200	3156	1.599	34.671	1.358	1.042337
3400	3352	1.570	34.675	1.309	1.043225
3600	3547	1.543	34.678	1.262	1.044107
3800	3743	1.528	34.681	1.226	1.044985
4000	3938	1.508	34.683	1.185	1.045858
4200	4133	1.482	34.687	1.137	1.046731
4400	4328	1.480	34.688	1.112	1.047595
4600	4522	1.485	34.690	1.094	1.048452

STC206	87 / 2/10	19:38	11-59.9N	138-58.8E	5950M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	21	27.162	34.355	27.157 1.022274
	40	40	27.137	34.362	27.127 1.022367
	60	59	27.155	34.399	27.140 1.022475
	80	79	26.117	34.983	26.098 1.023330
	100	99	24.495	35.134	24.472 1.024028
	120	119	22.751	35.108	22.726 1.024608
	140	139	20.916	35.024	20.888 1.025146
	160	159	18.516	34.860	18.487 1.025739
	180	179	17.413	34.716	17.382 1.025990
	200	199	15.628	34.634	15.596 1.026435
	250	248	11.683	34.425	11.650 1.027324
	300	298	10.400	34.392	10.364 1.027761
	350	348	9.103	34.419	9.064 1.028232
	400	397	8.296	34.398	8.253 1.028574
	450	447	7.687	34.426	7.641 1.028919
	500	497	6.949	34.448	6.901 1.029275
	550	546	6.493	34.465	6.441 1.029582
	600	596	6.223	34.492	6.168 1.029870
	650	645	5.939	34.496	5.880 1.030140
	700	695	5.711	34.493	5.649 1.030399
	750	744	5.541	34.507	5.475 1.030660
	800	794	5.354	34.514	5.285 1.030919
	850	843	5.179	34.519	5.106 1.031174
	900	893	4.868	34.524	4.793 1.031448
	950	942	4.608	34.533	4.530 1.031717
	1000	992	4.493	34.540	4.412 1.031966
	1100	1090	3.972	34.556	3.886 1.032502
	1200	1189	3.603	34.566	3.512 1.033013
	1300	1288	3.257	34.575	3.161 1.033519
	1400	1387	3.005	34.587	2.903 1.034016
	1500	1485	2.805	34.597	2.697 1.034503
	1600	1585	2.681	34.606	2.566 1.034986
	1700	1683	2.519	34.610	2.398 1.035458
	1800	1781	2.406	34.618	2.278 1.035931
	1900	1880	2.278	34.625	2.144 1.036404
	2000	1978	2.130	34.632	1.989 1.036880
	2200	2175	1.974	34.643	1.819 1.037810
	2400	2371	1.836	34.652	1.665 1.038733
	2600	2568	1.734	34.659	1.547 1.039647
	2800	2764	1.665	34.666	1.461 1.040553
	3000	2960	1.600	34.671	1.378 1.041454
	3200	3156	1.561	34.675	1.320 1.042346
	3400	3351	1.530	34.679	1.270 1.043235
	3600	3547	1.520	34.682	1.240 1.044114
	3800	3743	1.500	34.683	1.199 1.044992
	4000	3938	1.491	34.686	1.168 1.045864
	4200	4133	1.466	34.689	1.122 1.046737
	4400	4327	1.450	34.692	1.083 1.047603
	4600	4522	1.456	34.692	1.066 1.048460
	4800	4717	1.458	34.695	1.043 1.049316
	5000	4911	1.467	34.696	1.028 1.050166
	5200	5105	1.480	34.697	1.015 1.051011
	5400	5299	1.506	34.696	1.015 1.051849
	5600	5493	1.532	34.697	1.013 1.052684
	5800	5687	1.559	34.695	1.013 1.053513

STC207	87/ 2/11 06:36	12-59.9N	137-58.3E	4260M	
PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	19	27.031	34.544	27.027	1.022451
40	39	27.003	34.549	26.993	1.022551
60	60	27.006	34.548	26.991	1.022635
80	79	27.006	34.548	26.986	1.022720
100	99	26.240	34.977	26.216	1.023372
120	119	24.281	35.146	24.254	1.024187
140	139	22.097	35.114	22.068	1.024885
160	159	20.256	34.994	20.225	1.025388
180	179	19.095	34.868	19.062	1.025684
200	199	17.469	34.761	17.434	1.026098
250	249	14.457	34.545	14.419	1.026849
300	298	11.610	34.412	11.571	1.027551
350	348	10.349	34.433	10.306	1.028026
400	398	8.719	34.405	8.675	1.028512
450	447	7.668	34.378	7.622	1.028884
500	497	7.158	34.411	7.109	1.029214
550	546	6.378	34.431	6.327	1.029572
600	596	5.962	34.453	5.908	1.029876
650	653	5.630	34.466	5.572	1.030195
700	695	5.501	34.489	5.440	1.030424
750	744	5.252	34.504	5.188	1.030697
800	794	5.009	34.514	4.942	1.030966
850	843	4.811	34.519	4.741	1.031223
900	893	4.580	34.524	4.507	1.031487
950	942	4.355	34.528	4.279	1.031747
1000	992	4.118	34.536	4.040	1.032012
1100	1091	3.701	34.550	3.618	1.032532
1200	1189	3.451	34.560	3.361	1.033029
1300	1288	3.121	34.572	3.026	1.033534
1400	1387	2.898	34.585	2.798	1.034027
1500	1485	2.744	34.597	2.637	1.034511
1600	1584	2.646	34.600	2.532	1.034980
1700	1683	2.491	34.610	2.371	1.035461
1800	1781	2.343	34.618	2.216	1.035938
1900	1880	2.272	34.623	2.138	1.036405
2000	1978	2.172	34.628	2.031	1.036872
2200	2175	1.956	34.641	1.801	1.037811
2400	2371	1.847	34.649	1.676	1.038730
2600	2568	1.758	34.657	1.571	1.039642
2800	2764	1.688	34.662	1.483	1.040547
3000	2960	1.637	34.666	1.414	1.041445
3200	3156	1.588	34.670	1.347	1.042338
3400	3352	1.559	34.674	1.298	1.043226
3600	3547	1.543	34.677	1.262	1.044107
3800	3742	1.527	34.681	1.225	1.044985
4000	3938	1.463	34.687	1.141	1.045869
4200	4133	1.436	34.690	1.093	1.046741

STC208	87/ 2/11	23:01	11-59.7N	136-59.2E	4950M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	27.194	34.342	27.190 1.022247
	40	40	27.167	34.349	27.157 1.022347
	60	59	27.169	34.347	27.154 1.022431
	80	79	27.150	34.359	27.130 1.022532
	100	99	25.486	34.972	25.463 1.023603
	120	119	23.220	35.008	23.194 1.024396
	140	139	21.110	34.991	21.082 1.025067
	160	159	18.323	34.844	18.294 1.025775
	180	179	17.026	34.730	16.996 1.026093
	200	199	16.023	34.676	15.991 1.026377
	250	249	12.369	34.452	12.335 1.027212
	300	298	10.488	34.377	10.451 1.027734
	350	348	9.122	34.400	9.083 1.028214
	400	397	8.380	34.455	8.337 1.028605
	450	447	7.702	34.463	7.656 1.028945
	500	497	6.933	34.462	6.885 1.029288
	550	546	6.468	34.490	6.416 1.029606
	600	596	6.189	34.495	6.134 1.029878
	650	645	5.812	34.508	5.754 1.030168
	700	695	5.587	34.511	5.525 1.030429
	750	744	5.344	34.514	5.279 1.030692
	800	794	5.145	34.514	5.077 1.030948
	850	843	4.891	34.523	4.820 1.031217
	900	893	4.720	34.528	4.646 1.031470
	950	942	4.478	34.537	4.401 1.031738
	1000	992	4.301	34.538	4.221 1.031990
	1100	1090	3.878	34.551	3.793 1.032511
	1200	1189	3.501	34.565	3.411 1.033026
	1300	1288	3.243	34.577	3.147 1.033523
	1400	1387	3.015	34.586	2.913 1.034014
	1500	1486	2.844	34.593	2.736 1.034495
	1600	1584	2.666	34.598	2.552 1.034976
	1700	1683	2.509	34.609	2.388 1.035458
	1800	1781	2.381	34.617	2.254 1.035933
	1900	1880	2.257	34.624	2.123 1.036407
	2000	1978	2.149	34.630	2.008 1.036877
	2200	2175	2.032	34.638	1.876 1.037799
	2400	2371	1.861	34.648	1.690 1.038728
	2600	2568	1.760	34.656	1.573 1.039641
	2800	2764	1.684	34.662	1.480 1.040547
	3000	2960	1.633	34.668	1.410 1.041447
	3200	3156	1.595	34.672	1.354 1.042338
	3400	3352	1.567	34.674	1.306 1.043225
	3600	3547	1.540	34.678	1.259 1.044108
	3800	3743	1.522	34.680	1.220 1.044985
	4000	3938	1.498	34.684	1.175 1.045860
	4200	4133	1.493	34.686	1.148 1.046728
	4400	4328	1.496	34.687	1.128 1.047591
	4600	4522	1.513	34.687	1.121 1.048446
	4800	4717	1.529	34.688	1.112 1.049297

STC008	87/ 2/12	06:31	12-29.4N	136-28.8E	5300M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	27.160	34.338	27.156	1.022256
	40	27.136	34.343	27.126	1.022354
	60	27.139	34.343	27.124	1.022439
	80	27.106	34.365	27.086	1.022552
	100	24.786	35.010	24.763	1.023846
	120	22.363	35.030	22.338	1.024661
	140	20.909	34.975	20.881	1.025113
	160	18.757	34.845	18.728	1.025665
	180	16.874	34.712	16.844	1.026116
	200	15.788	34.609	15.756	1.026380
	250	12.107	34.429	12.074	1.027246
	300	10.517	34.377	10.480	1.027728
	350	9.284	34.407	9.244	1.028193
	400	8.099	34.411	8.057	1.028616
	450	7.554	34.412	7.508	1.028928
	500	6.899	34.423	6.851	1.029263
	550	6.472	34.441	6.421	1.029566
	600	6.200	34.462	6.145	1.029849
	650	5.860	34.477	5.802	1.030137
	700	5.601	34.491	5.539	1.030412
	750	5.407	34.496	5.342	1.030670
	800	5.006	34.505	4.939	1.030959
	850	4.754	34.513	4.684	1.031226
	900	4.534	34.525	4.461	1.031493
	950	4.298	34.530	4.222	1.031755
	1000	4.071	34.539	3.993	1.032021
	1100	3.750	34.554	3.666	1.032529
	1200	3.480	34.562	3.390	1.033027
	1300	3.261	34.570	3.165	1.033516
	1400	3.090	34.582	2.987	1.034000
	1500	2.904	34.591	2.795	1.034486
	1600	2.694	34.602	2.579	1.034977
	1700	2.527	34.610	2.406	1.035456
	1800	2.373	34.618	2.246	1.035934
	1900	2.273	34.623	2.139	1.036403
	2000	2.136	34.632	1.995	1.036880
	2200	1.961	34.644	1.806	1.037813
	2400	1.821	34.652	1.651	1.038736
	2600	1.744	34.657	1.557	1.039644
	2800	1.673	34.662	1.469	1.040549
	3000	1.609	34.668	1.387	1.041451
	3200	1.575	34.672	1.334	1.042341
	3400	1.535	34.676	1.275	1.043232
	3600	1.524	34.679	1.243	1.044111
	3800	1.496	34.682	1.195	1.044991
	4000	1.493	34.684	1.170	1.045862
	4200	1.495	34.686	1.150	1.046729
	4400	1.513	34.686	1.144	1.047586
	4600	1.527	34.687	1.134	1.048443
	4800	1.546	34.686	1.128	1.049294
	5000	1.563	34.686	1.120	1.050139
	5200	1.587	34.686	1.118	1.050982

STC209	87/ 2/12	13:32	12-59.ON	135-59.OE	5100M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	27.037	34.333	27.033 1.022291
	40	39	26.977	34.337	26.967 1.022399
	60	59	26.976	34.337	26.961 1.022486
	80	79	26.978	34.339	26.958 1.022573
	100	99	25.087	35.064	25.064 1.023795
	120	119	23.071	35.017	23.045 1.024446
	140	139	21.169	35.043	21.141 1.025091
	160	159	18.925	34.879	18.896 1.025649
	180	179	17.653	34.806	17.622 1.025999
	200	199	17.013	34.732	16.979 1.026187
	250	249	13.976	34.498	13.939 1.026917
	300	298	11.452	34.393	11.413 1.027567
	350	348	9.457	34.351	9.417 1.028119
	400	397	8.040	34.340	7.998 1.028569
	450	447	7.294	34.391	7.249 1.028951
	500	497	6.732	34.391	6.684 1.029263
	550	546	6.262	34.456	6.211 1.029608
	600	596	5.977	34.465	5.923 1.029883
	650	645	5.619	34.490	5.562 1.030180
	700	695	5.357	34.512	5.297 1.030462
	750	744	5.193	34.516	5.129 1.030716
	800	794	4.965	34.523	4.898 1.030979
	850	843	4.799	34.528	4.729 1.031232
	900	893	4.589	34.534	4.516 1.031493
	950	942	4.409	34.540	4.333 1.031749
	1000	992	4.260	34.543	4.180 1.032000
	1100	1091	3.917	34.552	3.832 1.032507
	1200	1189	3.663	34.563	3.571 1.033003
	1300	1288	3.380	34.571	3.283 1.033501
	1400	1387	3.124	34.582	3.021 1.033997
	1500	1485	2.970	34.590	2.860 1.034476
	1600	1584	2.779	34.598	2.663 1.034962
	1700	1683	2.583	34.607	2.461 1.035446
	1800	1781	2.471	34.614	2.342 1.035919
	1900	1880	2.323	34.621	2.188 1.036395
	2000	1978	2.226	34.626	2.084 1.036863
	2200	2175	2.042	34.635	1.885 1.037796
	2400	2371	1.883	34.647	1.711 1.038723
	2600	2568	1.784	34.654	1.596 1.039636
	2800	2764	1.697	34.654	1.492 1.040542
	3000	2961	1.618	34.666	1.396 1.041451
	3200	3156	1.578	34.671	1.337 1.042342
	3400	3352	1.553	34.675	1.292 1.043227
	3600	3547	1.539	34.677	1.258 1.044107
	3800	3743	1.518	34.680	1.216 1.044987
	4000	3938	1.492	34.684	1.169 1.045863
	4200	4133	1.493	34.686	1.148 1.046729
	4400	4328	1.507	34.687	1.138 1.047588
	4600	4522	1.524	34.686	1.131 1.048443
	4800	4717	1.543	34.687	1.125 1.049294
	5000	4911	1.565	34.687	1.122 1.050139

STC210	87/ 2/12	21:31	12-00.ON	135-58.8E	4710M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	20	27.171	34.327	27.166	1.022244
40	40	27.146	34.332	27.136	1.022343
60	59	27.134	34.334	27.119	1.022433
80	79	24.926	34.981	24.908	1.023696
100	99	23.275	34.997	23.253	1.024286
120	119	21.291	35.008	21.267	1.024944
140	139	20.065	34.945	20.038	1.025314
160	159	17.747	34.644	17.719	1.025766
180	179	15.778	34.642	15.749	1.026319
200	199	14.095	34.488	14.065	1.026662
250	249	10.872	34.394	10.841	1.027453
300	298	9.572	34.427	9.537	1.027934
350	348	8.689	34.454	8.651	1.028330
400	397	7.880	34.477	7.839	1.028702
450	447	7.326	34.481	7.281	1.029018
500	496	6.963	34.486	6.914	1.029303
550	546	6.392	34.478	6.341	1.029608
600	596	6.226	34.487	6.171	1.029865
650	645	5.825	34.493	5.767	1.030155
700	695	5.520	34.501	5.459	1.030431
750	744	5.267	34.508	5.203	1.030698
800	794	4.996	34.520	4.929	1.030972
850	843	4.777	34.524	4.707	1.031232
900	893	4.568	34.532	4.495	1.031494
950	942	4.426	34.535	4.349	1.031744
1000	992	4.331	34.532	4.251	1.031984
1100	1091	3.945	34.551	3.859	1.032502
1200	1189	3.624	34.563	3.533	1.033009
1300	1288	3.301	34.572	3.204	1.033512
1400	1387	3.071	34.580	2.969	1.034001
1500	1485	2.881	34.590	2.772	1.034488
1600	1584	2.721	34.597	2.606	1.034968
1700	1682	2.537	34.605	2.416	1.035451
1800	1781	2.439	34.612	2.311	1.035922
1900	1879	2.335	34.617	2.200	1.036391
2000	1978	2.227	34.628	2.085	1.036865
2200	2175	2.033	34.635	1.877	1.037797
2400	2371	1.896	34.645	1.724	1.038721
2600	2568	1.797	34.653	1.609	1.039634
2800	2764	1.708	34.658	1.503	1.040542
3000	2960	1.642	34.663	1.419	1.041442
3200	3156	1.585	34.667	1.344	1.042337
3400	3352	1.545	34.674	1.285	1.043231
3600	3547	1.520	34.677	1.240	1.044110
3800	3743	1.513	34.679	1.211	1.044990
4000	3938	1.511	34.682	1.188	1.045857
4200	4133	1.497	34.683	1.152	1.046725
4400	4327	1.514	34.684	1.145	1.047585
4600	4522	1.527	34.684	1.134	1.048441

STC211 87/ 2/13 02:37 11-59.7N 135-29.5E 4490M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 27.189 34.285 27.185 1.022206  
 40 40 27.162 34.289 27.152 1.022305  
 60 59 27.163 34.291 27.148 1.022391  
 80 79 27.136 34.311 27.116 1.022501  
 100 99 23.873 34.962 23.851 1.024083  
 120 119 22.266 35.013 22.241 1.024674  
 140 140 20.124 34.913 20.097 1.025279  
 160 159 19.055 34.837 19.026 1.025583  
 180 179 17.269 34.732 17.238 1.026036  
 200 199 15.530 34.635 15.498 1.026459  
 250 249 12.726 34.429 12.691 1.027122  
 300 298 10.399 34.418 10.363 1.027781  
 350 348 9.382 34.436 9.342 1.028199  
 400 397 8.412 34.478 8.369 1.028618  
 450 447 7.783 34.451 7.737 1.028923  
 500 497 7.300 34.454 7.250 1.029226  
 550 546 6.822 34.483 6.769 1.029548  
 600 596 6.198 34.493 6.143 1.029874  
 650 645 6.002 34.500 5.943 1.030134  
 700 695 5.731 34.465 5.669 1.030373  
 750 744 5.427 34.510 5.362 1.030678  
 800 794 5.227 34.514 5.158 1.030936  
 850 843 5.049 34.517 4.977 1.031191  
 900 893 4.784 34.523 4.709 1.031458  
 950 942 4.540 34.531 4.463 1.031725  
 1000 992 4.311 34.538 4.231 1.031988  
 1100 1091 3.885 34.554 3.800 1.032512  
 1200 1189 3.554 34.560 3.463 1.033014  
 1300 1288 3.327 34.571 3.230 1.033507  
 1400 1387 3.095 34.579 2.992 1.033998  
 1500 1485 2.924 34.587 2.815 1.034480  
 1600 1584 2.784 34.591 2.668 1.034954  
 1700 1683 2.619 34.602 2.497 1.035438  
 1800 1781 2.463 34.610 2.334 1.035917  
 1900 1880 2.330 34.619 2.195 1.036393  
 2000 1978 2.203 34.627 2.061 1.036867  
 2200 2175 2.016 34.637 1.860 1.037801  
 2400 2371 1.822 34.648 1.652 1.038733  
 2600 2568 1.710 34.655 1.524 1.039648  
 2800 2764 1.652 34.660 1.448 1.040551  
 3000 2960 1.602 34.665 1.380 1.041449  
 3200 3156 1.541 34.671 1.301 1.042346  
 3400 3352 1.522 34.673 1.262 1.043231  
 3600 3547 1.524 34.676 1.243 1.044109  
 3800 3742 1.532 34.677 1.230 1.044981  
 4000 3938 1.532 34.678 1.208 1.045851  
 4200 4133 1.521 34.681 1.175 1.046720  
 4400 4328 1.533 34.681 1.163 1.047579

STC212	87/ 2/13	07:47	11-59.8N	134-57.9E	4560M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	27.101	34.353	27.097 1.022285
	40	39	27.081	34.357	27.071 1.022381
	60	59	27.089	34.357	27.074 1.022465
	80	79	26.004	34.649	25.985 1.023113
	100	99	23.522	34.985	23.500 1.024205
	120	119	21.440	34.905	21.416 1.024824
	140	139	18.654	34.760	18.629 1.025539
	160	159	16.267	34.708	16.241 1.026168
	180	179	15.279	34.613	15.251 1.026409
	200	199	13.853	34.510	13.824 1.026730
	250	248	11.035	34.409	11.004 1.027433
	300	298	10.095	34.430	10.059 1.027844
	350	348	8.808	34.445	8.769 1.028301
	400	397	7.970	34.460	7.928 1.028674
	450	447	7.547	34.459	7.501 1.028966
	500	496	7.107	34.464	7.058 1.029263
	550	546	6.727	34.477	6.674 1.029557
	600	596	6.357	34.484	6.301 1.029844
	650	645	5.986	34.479	5.927 1.030120
	700	695	5.731	34.475	5.669 1.030382
	750	744	5.423	34.506	5.358 1.030675
	800	794	5.138	34.512	5.070 1.030947
	850	843	4.942	34.520	4.871 1.031207
	900	893	4.766	34.524	4.691 1.031463
	950	942	4.587	34.529	4.509 1.031717
	1000	992	4.496	34.533	4.415 1.031960
	1100	1090	4.045	34.547	3.958 1.032485
	1200	1189	3.714	34.557	3.622 1.032991
	1300	1288	3.406	34.568	3.308 1.033495
	1400	1387	3.088	34.580	2.985 1.034000
	1500	1485	2.867	34.590	2.759 1.034490
	1600	1584	2.708	34.597	2.593 1.034969
	1700	1683	2.543	34.602	2.422 1.035448
	1800	1781	2.430	34.612	2.302 1.035923
	1900	1879	2.275	34.622	2.141 1.036402
	2000	1978	2.184	34.627	2.043 1.036869
	2200	2175	2.013	34.635	1.857 1.037799
	2400	2371	1.835	34.647	1.664 1.038730
	2600	2568	1.739	34.653	1.552 1.039641
	2800	2764	1.678	34.658	1.474 1.040545
	3000	2960	1.633	34.664	1.410 1.041444
	3200	3156	1.600	34.667	1.359 1.042335
	3400	3351	1.564	34.670	1.303 1.043221
	3600	3547	1.518	34.676	1.238 1.044110
	3800	3742	1.499	34.680	1.198 1.044989
	4000	3938	1.488	34.682	1.165 1.045861
	4200	4133	1.495	34.683	1.150 1.046725
	4400	4327	1.514	34.683	1.145 1.047584

STC213	87/ 2/13	12:32	12-00.1N	134-29.7E	3400M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	27.044	34.434	27.039	1.022367
	40	26.881	34.468	26.871	1.022531
	60	27.018	34.353	27.003	1.022486
	80	27.018	34.348	26.998	1.022571
	100	23.462	34.996	23.440	1.024230
	120	20.504	34.883	20.481	1.025063
	140	18.833	34.836	18.807	1.025553
	160	17.068	34.755	17.041	1.026015
	180	15.609	34.629	15.580	1.026347
	200	14.582	34.549	14.552	1.026603
	250	11.567	34.408	11.535	1.027332
	300	9.479	34.417	9.445	1.027942
	350	8.590	34.449	8.552	1.028340
	400	7.923	34.454	7.881	1.028677
	450	7.325	34.449	7.280	1.028993
	500	6.809	34.472	6.761	1.029314
	550	6.213	34.469	6.163	1.029626
	600	5.975	34.485	5.921	1.029901
	650	5.790	34.492	5.732	1.030163
	700	5.592	34.502	5.530	1.030422
	750	5.410	34.507	5.345	1.030679
	800	5.154	34.514	5.086	1.030947
	850	4.895	34.521	4.824	1.031215
	900	4.761	34.525	4.686	1.031464
	950	4.586	34.531	4.508	1.031719
	1000	4.409	34.536	4.328	1.031975
	1100	4.035	34.547	3.949	1.032488
	1200	3.735	34.557	3.643	1.032990
	1300	3.371	34.568	3.274	1.033500
	1400	3.204	34.573	3.100	1.033979
	1500	2.970	34.584	2.860	1.034472
	1600	2.785	34.593	2.669	1.034957
	1700	2.626	34.601	2.504	1.035440
	1800	2.506	34.608	2.377	1.035910
	1900	2.386	34.613	2.250	1.036382
	2000	2.229	34.624	2.087	1.036861
	2200	2.059	34.633	1.902	1.037792
	2400	1.859	34.645	1.688	1.038726
	2600	1.713	34.656	1.527	1.039648
	2800	1.648	34.659	1.444	1.040551
	3000	1.611	34.666	1.389	1.041448
	3200	1.568	34.670	1.327	1.042341

STC214	87/ 2/13	17:46	11-58.7N	133-59.1E	5400M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	19	27.148	34.285	27.144	1.022219
20	40	27.106	34.289	27.096	1.022323
40	59	27.107	34.290	27.092	1.022408
60	79	26.842	34.398	26.823	1.022660
80	99	23.500	35.079	23.478	1.024282
100	119	21.972	35.075	21.947	1.024805
120	139	19.180	34.790	19.154	1.025428
140	159	17.488	34.760	17.460	1.025917
160	179	15.430	34.627	15.402	1.026386
180	199	13.866	34.473	13.837	1.026698
200	249	11.164	34.446	11.132	1.027438
250	298	9.763	34.411	9.728	1.027887
300	348	8.842	34.449	8.803	1.028299
350	397	8.217	34.451	8.175	1.028627
400	447	7.772	34.445	7.726	1.028921
450	497	7.194	34.447	7.145	1.029237
500	546	6.576	34.443	6.524	1.029552
550	596	6.235	34.478	6.180	1.029857
600	645	5.867	34.496	5.809	1.030150
650	695	5.731	34.473	5.669	1.030378
700	744	5.456	34.501	5.391	1.030668
750	794	5.252	34.506	5.183	1.030927
800	843	4.921	34.521	4.850	1.031211
850	893	4.742	34.527	4.668	1.031467
900	942	4.543	34.533	4.466	1.031726
950	992	4.260	34.539	4.180	1.031996
1000	1090	3.944	34.550	3.858	1.032501
1100	1189	3.653	34.560	3.561	1.033002
1200	1288	3.396	34.568	3.298	1.033496
1300	1387	3.173	34.576	3.069	1.033985
1400	1485	2.968	34.587	2.858	1.034474
1500	1584	2.781	34.595	2.665	1.034958
1600	1683	2.584	34.606	2.462	1.035445
1700	1781	2.442	34.614	2.314	1.035923
1800	1880	2.346	34.618	2.211	1.036391
1900	1978	2.266	34.625	2.123	1.036857
2000	2175	2.103	34.634	1.945	1.037786
2200	2371	1.946	34.641	1.773	1.038710
2400	2568	1.807	34.649	1.619	1.039629
2600	2764	1.717	34.656	1.512	1.040538
2800	2960	1.640	34.662	1.417	1.041440
3000	3156	1.588	34.668	1.347	1.042336
3200	3351	1.563	34.670	1.302	1.043221
3400	3547	1.550	34.672	1.269	1.044102
3600	3742	1.551	34.675	1.248	1.044976
3800	3938	1.563	34.675	1.238	1.045842
4000	4133	1.577	34.676	1.229	1.046706
4200	4327	1.596	34.675	1.224	1.047564
4400	4522	1.618	34.676	1.222	1.048417
4600	4717	1.641	34.677	1.220	1.049268
4800	4911	1.665	34.676	1.218	1.050112
5000	5105	1.691	34.675	1.218	1.050952

STC215	87/ 2/14	02:49	12-59.7N	133-58.6E	5550M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	27.143	34.325	27.139
	40	39	27.120	34.330	27.110
	60	60	27.123	34.330	27.108
	80	79	27.125	34.336	27.105
	100	99	23.995	35.081	23.973
	120	120	22.196	35.080	22.171
	140	139	20.272	34.965	20.245
	160	159	18.727	34.854	18.698
	180	179	16.148	34.672	16.119
	200	199	14.977	34.525	14.946
	250	248	12.737	34.447	12.702
	300	298	10.365	34.416	10.329
	350	348	8.379	34.374	8.342
	400	398	7.820	34.446	7.779
	450	447	7.432	34.452	7.387
	500	497	6.945	34.452	6.897
	550	546	6.482	34.448	6.430
	600	596	6.150	34.469	6.095
	650	645	5.947	34.490	5.888
	700	695	5.713	34.462	5.651
	750	744	5.483	34.512	5.417
	800	794	5.311	34.523	5.242
	850	843	5.127	34.526	5.054
	900	893	4.882	34.482	4.807
	950	942	4.590	34.517	4.512
	1000	992	4.456	34.536	4.375
	1100	1090	4.143	34.543	4.056
	1200	1189	3.861	34.553	3.767
	1300	1288	3.522	34.554	3.423
	1400	1387	3.259	34.563	3.154
	1500	1485	3.028	34.570	2.918
	1600	1584	2.760	34.586	2.644
	1700	1685	2.570	34.595	2.448
	1800	1781	2.409	34.603	2.281
	1900	1880	2.280	34.612	2.146
	2000	1978	2.156	34.622	2.015
	2200	2175	1.959	34.635	1.804
	2400	2371	1.836	34.645	1.665
	2600	2568	1.707	34.655	1.521
	2800	2764	1.644	34.660	1.440
	3000	2960	1.592	34.666	1.370
	3200	3156	1.561	34.670	1.321
	3400	3351	1.537	34.673	1.277
	3600	3547	1.534	34.675	1.253
	3800	3743	1.540	34.675	1.238
	4000	3938	1.551	34.676	1.226
	4200	4133	1.572	34.678	1.224
	4400	4328	1.594	34.676	1.222
	4600	4522	1.617	34.677	1.221
	4800	4717	1.641	34.677	1.220
	5000	4911	1.666	34.676	1.219
	5200	5105	1.691	34.677	1.218
	5400	5299	1.716	34.677	1.216

STC011	87 / 2/14 09:46	12-31.2N	133-30.8E	5660M	
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	27.075	34.337	27.071	1.022282
	40	27.053	34.341	27.043	1.022378
	60	27.058	34.340	27.043	1.022462
	80	27.061	34.341	27.041	1.022547
	100	23.425	35.096	23.403	1.024317
	120	21.355	35.025	21.331	1.024939
	140	19.423	34.847	19.397	1.025408
	160	16.757	34.709	16.730	1.026053
	180	15.857	34.648	15.828	1.026305
	200	14.111	34.552	14.081	1.026707
	250	11.867	34.466	11.834	1.027320
	300	9.742	34.316	9.707	1.027818
	350	8.630	34.376	8.592	1.028276
	400	8.001	34.435	7.959	1.028650
	450	7.577	34.453	7.531	1.028956
	500	6.890	34.451	6.842	1.029285
	550	6.452	34.459	6.401	1.029584
	600	6.131	34.468	6.076	1.029864
	650	5.886	34.481	5.827	1.030146
	700	5.631	34.492	5.569	1.030408
	750	5.366	34.501	5.301	1.030680
	800	5.150	34.513	5.082	1.030946
	850	5.009	34.518	4.937	1.031197
	900	4.842	34.523	4.767	1.031450
	950	4.649	34.538	4.571	1.031715
	1000	4.461	34.539	4.380	1.031970
	1100	4.082	34.547	3.995	1.032481
	1200	3.807	34.555	3.714	1.032978
	1300	3.524	34.562	3.425	1.033475
	1400	3.228	34.574	3.124	1.033978
	1500	2.989	34.583	2.879	1.034469
	1600	2.814	34.591	2.698	1.034951
	1700	2.670	34.600	2.547	1.035429
	1800	2.526	34.606	2.397	1.035906
	1900	2.400	34.613	2.264	1.036379
	2000	2.283	34.619	2.140	1.036850
	2200	2.094	34.630	1.937	1.037784
	2400	1.918	34.642	1.746	1.038713
	2600	1.780	34.651	1.592	1.039634
	2800	1.697	34.658	1.492	1.040542
	3000	1.631	34.663	1.409	1.041443
	3200	1.589	34.667	1.348	1.042336
	3400	1.565	34.670	1.304	1.043221
	3600	1.556	34.673	1.275	1.044102
	3800	1.556	34.674	1.253	1.044974
	4000	1.564	34.675	1.239	1.045842
	4200	1.578	34.677	1.230	1.046707
	4400	1.597	34.677	1.225	1.047565
	4600	1.618	34.676	1.222	1.048417
	4800	1.642	34.676	1.221	1.049266
	5000	1.666	34.676	1.219	1.050112
	5200	1.691	34.677	1.218	1.050953
	5400	1.717	34.676	1.217	1.051790
	5600	1.743	34.675	1.217	1.052623

STC216	87/ 2/14	17:04	11-59.7N	132-58.6E	5830M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	26.949	34.400	26.945 1.022369
	40	39	26.857	34.511	26.847 1.022569
	60	60	26.842	34.550	26.827 1.022689
	80	79	25.545	34.906	25.526 1.023449
	100	99	22.488	35.069	22.467 1.024568
	120	119	20.107	34.908	20.084 1.025188
	140	139	17.522	34.708	17.498 1.025782
	160	159	16.654	34.694	16.627 1.026067
	180	179	15.074	34.560	15.046 1.026415
	200	199	13.892	34.528	13.863 1.026735
	250	248	11.547	34.457	11.515 1.027374
	300	298	9.984	34.414	9.948 1.027852
	350	348	8.916	34.429	8.877 1.028271
	400	397	8.011	34.410	7.969 1.028628
	450	447	7.197	34.416	7.153 1.028985
	500	496	6.742	34.450	6.694 1.029306
	550	546	6.337	34.474	6.286 1.029612
	600	596	6.105	34.481	6.050 1.029878
	650	645	5.790	34.493	5.732 1.030160
	700	695	5.519	34.506	5.458 1.030435
	750	744	5.239	34.514	5.175 1.030707
	800	794	5.089	34.519	5.021 1.030959
	850	843	4.782	34.524	4.712 1.031232
	900	893	4.548	34.534	4.475 1.031498
	950	942	4.383	34.540	4.307 1.031753
	1000	992	4.213	34.541	4.134 1.032003
	1100	1090	3.815	34.555	3.730 1.032521
	1200	1189	3.503	34.567	3.413 1.033027
	1300	1288	3.304	34.574	3.207 1.033513
	1400	1387	3.040	34.584	2.938 1.034009
	1500	1485	2.879	34.590	2.770 1.034488
	1600	1584	2.714	34.600	2.599 1.034970
	1700	1682	2.590	34.607	2.468 1.035445
	1800	1781	2.447	34.615	2.319 1.035922
	1900	1879	2.342	34.621	2.207 1.036393
	2000	1978	2.241	34.626	2.099 1.036861
	2200	2175	2.048	34.636	1.891 1.037795
	2400	2371	1.911	34.644	1.739 1.038717
	2600	2568	1.796	34.652	1.608 1.039633
	2800	2764	1.701	34.657	1.496 1.040541
	3000	2960	1.640	34.662	1.417 1.041440
	3200	3156	1.591	34.667	1.350 1.042336
	3400	3351	1.560	34.672	1.299 1.043224
	3600	3547	1.547	34.674	1.266 1.044104
	3800	3742	1.551	34.675	1.248 1.044976
	4000	3938	1.559	34.677	1.234 1.045845
	4200	4133	1.575	34.677	1.227 1.046708
	4400	4327	1.594	34.676	1.222 1.047565
	4600	4522	1.616	34.677	1.220 1.048419
	4800	4717	1.640	34.677	1.219 1.049268
	5000	4911	1.665	34.677	1.218 1.050113
	5200	5105	1.690	34.676	1.217 1.050953
	5400	5299	1.715	34.677	1.215 1.051791

STC218	87/ 2/15	15:52	13-00.5N	131-59.1E	5800M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	26.777	34.578	26.773 1.022558
	40	39	26.643	34.605	26.633 1.022707
	60	59	26.636	34.610	26.621 1.022799
	80	79	26.582	34.627	26.563 1.022915
	100	99	25.498	34.950	25.475 1.023583
	120	119	23.181	35.080	23.155 1.024462
	140	139	20.252	34.942	20.225 1.025262
	160	159	18.650	34.827	18.621 1.025680
	180	179	16.468	34.679	16.438 1.026187
	200	199	15.219	34.621	15.188 1.026518
	250	249	11.650	34.351	11.617 1.027273
	300	298	10.073	34.373	10.037 1.027804
	350	348	9.067	34.413	9.028 1.028233
	400	397	8.011	34.406	7.969 1.028625
	450	447	7.381	34.427	7.336 1.028966
	500	497	6.780	34.445	6.732 1.029298
	550	546	6.525	34.457	6.473 1.029571
	600	596	6.195	34.479	6.140 1.029863
	650	645	5.955	34.490	5.896 1.030133
	700	698	5.631	34.485	5.569 1.030416
	750	744	5.393	34.495	5.328 1.030671
	800	794	5.232	34.502	5.163 1.030926
	850	843	4.993	34.509	4.921 1.031192
	900	893	4.808	34.515	4.733 1.031449
	950	942	4.575	34.527	4.497 1.031717
	1000	992	4.368	34.529	4.288 1.031974
	1100	1090	4.046	34.545	3.959 1.032483
	1200	1189	3.654	34.550	3.562 1.032993
	1300	1288	3.387	34.558	3.290 1.033489
	1400	1387	3.095	34.567	2.992 1.033988
	1500	1485	2.819	34.580	2.711 1.034489
	1600	1584	2.645	34.589	2.531 1.034971
	1700	1683	2.469	34.601	2.349 1.035456
	1800	1781	2.296	34.608	2.170 1.035937
	1900	1880	2.173	34.618	2.040 1.036412
	2000	1978	2.066	34.626	1.926 1.036884
	2200	2175	1.914	34.639	1.760 1.037816
	2400	2371	1.782	34.649	1.612 1.038739
	2600	2568	1.698	34.655	1.512 1.039649
	2800	2764	1.630	34.660	1.427 1.040554
	3000	2960	1.587	34.665	1.366 1.041451
	3200	3156	1.557	34.669	1.317 1.042342
	3400	3351	1.542	34.671	1.282 1.043226
	3600	3547	1.540	34.672	1.259 1.044105
	3800	3742	1.546	34.674	1.243 1.044976
	4000	3938	1.556	34.674	1.231 1.045844
	4200	4133	1.572	34.676	1.224 1.046706
	4400	4327	1.592	34.676	1.221 1.047565
	4600	4522	1.614	34.676	1.218 1.048417
	4800	4717	1.638	34.676	1.217 1.049267
	5000	4911	1.663	34.675	1.217 1.050111
	5200	5106	1.688	34.675	1.215 1.050953
	5400	5299	1.714	34.674	1.215 1.051789
	5600	5494	1.740	34.675	1.213 1.052624

STC219	87/ 2/15	01:01	11-59.5N	131-59.6E	5770M	
PRESSURE	DEPTH	T	S	POT-T	DENSITY	
	20	19	26.962	34.323	26.958	1.022307
	40	39	26.937	34.327	26.927	1.022405
	60	59	26.893	34.359	26.878	1.022528
	80	79	25.479	34.658	25.460	1.023282
	100	99	22.544	34.805	22.523	1.024350
	120	119	20.961	34.837	20.937	1.024904
	140	139	19.044	34.798	19.018	1.025469
	160	159	17.038	34.695	17.011	1.025976
	180	179	15.669	34.632	15.640	1.026336
	200	199	15.007	34.598	14.976	1.026548
	250	249	11.531	34.390	11.499	1.027327
	300	298	9.581	34.367	9.546	1.027885
	350	348	8.682	34.376	8.644	1.028268
	400	397	8.008	34.406	7.966	1.028626
	450	447	7.416	34.426	7.371	1.028960
	500	496	6.906	34.446	6.858	1.029280
	550	546	6.459	34.455	6.408	1.029579
	600	596	6.214	34.468	6.159	1.029852
	650	645	5.846	34.483	5.788	1.030144
	700	695	5.697	34.483	5.635	1.030395
	750	744	5.510	34.496	5.444	1.030656
	800	794	5.316	34.504	5.247	1.030916
	850	843	5.048	34.511	4.976	1.031186
	900	893	4.826	34.516	4.751	1.031447
	950	942	4.602	34.524	4.524	1.031712
	1000	992	4.450	34.533	4.369	1.031966
	1100	1090	4.100	34.544	4.013	1.032475
	1200	1189	3.821	34.554	3.728	1.032975
	1300	1288	3.505	34.564	3.406	1.033479
	1400	1387	3.213	34.573	3.109	1.033978
	1500	1486	2.992	34.583	2.882	1.034470
	1600	1584	2.814	34.593	2.698	1.034952
	1700	1683	2.621	34.601	2.499	1.035437
	1800	1781	2.485	34.608	2.356	1.035913
	1900	1880	2.346	34.617	2.211	1.036389
	2000	1978	2.223	34.623	2.081	1.036861
	2200	2175	2.038	34.634	1.881	1.037796
	2400	2371	1.867	34.644	1.696	1.038723
	2600	2568	1.758	34.653	1.571	1.039639
	2800	2764	1.688	34.657	1.483	1.040544
	3000	2960	1.624	34.663	1.402	1.041444
	3200	3156	1.588	34.668	1.347	1.042337
	3400	3351	1.561	34.671	1.300	1.043222
	3600	3547	1.550	34.672	1.269	1.044102
	3800	3743	1.543	34.675	1.241	1.044978
	4000	3938	1.554	34.676	1.229	1.045845
	4200	4133	1.569	34.678	1.221	1.046709
	4400	4328	1.591	34.676	1.220	1.047565
	4600	4522	1.613	34.677	1.217	1.048418
	4800	4717	1.638	34.675	1.217	1.049268
	5000	4911	1.662	34.676	1.216	1.050112
	5200	5105	1.687	34.676	1.214	1.050954
	5400	5299	1.713	34.675	1.214	1.051790
	5600	5493	1.739	34.676	1.212	1.052625

STC220	87/ 2/16	11:40	12-58.6N	129-58.9E	5920M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	20	26.742	34.322	26.738	1.022377
40	40	26.720	34.347	26.710	1.022489
60	59	26.711	34.385	26.696	1.022606
80	80	25.703	34.774	25.684	1.023301
100	99	22.490	35.060	22.469	1.024560
120	119	20.751	34.941	20.727	1.025040
140	139	18.767	34.796	18.741	1.025539
160	159	17.298	34.718	17.271	1.025931
180	179	15.934	34.650	15.905	1.026290
200	199	15.003	34.605	14.972	1.026554
250	249	11.856	34.353	11.823	1.027235
300	298	9.968	34.290	9.932	1.027759
350	348	8.512	34.380	8.474	1.028299
400	398	7.234	34.296	7.195	1.028659
450	447	6.349	34.327	6.308	1.029038
500	497	5.945	34.350	5.900	1.029341
550	546	6.018	34.430	5.968	1.029622
600	596	5.550	34.441	5.498	1.029922
650	645	5.122	34.411	5.068	1.030186
700	695	5.399	34.505	5.339	1.030450
750	744	5.123	34.569	5.059	1.030766
800	794	4.917	34.520	4.850	1.030983
850	843	4.698	34.528	4.628	1.031246
900	893	4.545	34.534	4.472	1.031500
950	942	4.394	34.536	4.318	1.031748
1000	991	4.273	34.543	4.193	1.031997
1100	1090	3.883	34.547	3.798	1.032507
1200	1190	3.539	34.559	3.448	1.033020
1300	1288	3.223	34.570	3.127	1.033520
1400	1387	3.030	34.575	2.928	1.034003
1500	1485	2.805	34.582	2.697	1.034492
1600	1584	2.668	34.591	2.554	1.034970
1700	1682	2.448	34.600	2.328	1.035459
1800	1781	2.269	34.611	2.143	1.035943
1900	1879	2.157	34.623	2.025	1.036418
2000	1978	2.056	34.630	1.917	1.036888
2200	2175	1.904	34.640	1.750	1.037817
2400	2371	1.779	34.647	1.609	1.038738
2600	2568	1.704	34.654	1.518	1.039648
2800	2764	1.655	34.659	1.451	1.040550
3000	2960	1.608	34.664	1.386	1.041447
3200	3156	1.583	34.666	1.342	1.042336
3400	3351	1.559	34.669	1.298	1.043222
3600	3547	1.549	34.672	1.268	1.044102
3800	3742	1.547	34.673	1.244	1.044975
4000	3938	1.557	34.675	1.232	1.045844
4200	4133	1.572	34.676	1.224	1.046708
4400	4328	1.591	34.676	1.220	1.047565
4600	4523	1.611	34.676	1.215	1.048421
4800	4717	1.634	34.676	1.213	1.049268
5000	4912	1.658	34.676	1.212	1.050116
5200	5105	1.682	34.676	1.210	1.050955
5400	5299	1.708	34.676	1.209	1.051792
5600	5493	1.734	34.675	1.207	1.052625
5800	5687	1.762	34.675	1.207	1.053454

STC221	87/ 2/16	22:04	11-59.4N	128-58.3E	5660M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	26.567	34.411	26.563 1.022499
	40	39	26.547	34.457	26.537 1.022626
	60	59	26.427	34.541	26.413 1.022813
	80	80	24.462	34.954	24.444 1.023816
	100	99	21.856	34.898	21.836 1.024616
	120	119	19.398	34.850	19.376 1.025330
	140	139	17.836	34.755	17.811 1.025741
	160	159	16.149	34.667	16.123 1.026164
	180	179	14.571	34.560	14.544 1.026525
	200	199	13.938	34.520	13.909 1.026720
	250	248	11.132	34.376	11.100 1.027390
	300	298	9.690	34.462	9.655 1.027941
	350	348	8.585	34.356	8.547 1.028268
	400	397	7.915	34.414	7.874 1.028646
	450	447	7.186	34.408	7.142 1.028980
	500	496	6.769	34.434	6.721 1.029290
	550	546	6.409	34.448	6.358 1.029581
	600	596	6.064	34.467	6.009 1.029873
	650	645	5.818	34.489	5.760 1.030152
	700	695	5.537	34.497	5.476 1.030425
	750	744	5.284	34.503	5.220 1.030692
	800	794	5.018	34.515	4.951 1.030966
	850	843	4.868	34.520	4.797 1.031218
	900	893	4.676	34.527	4.602 1.031476
	950	942	4.501	34.534	4.424 1.031734
	1000	991	4.237	34.540	4.158 1.032000
	1100	1090	3.960	34.547	3.874 1.032497
	1200	1189	3.657	34.560	3.565 1.033001
	1300	1288	3.386	34.563	3.289 1.033494
	1400	1387	3.107	34.576	3.004 1.033994
	1500	1485	2.928	34.586	2.819 1.034479
	1600	1590	2.691	34.595	2.576 1.034997
	1700	1682	2.546	34.605	2.425 1.035450
	1800	1781	2.448	34.613	2.320 1.035920
	1900	1879	2.340	34.615	2.205 1.036388
	2000	1978	2.197	34.625	2.055 1.036866
	2200	2175	2.007	34.636	1.851 1.037800
	2400	2371	1.866	34.644	1.695 1.038723
	2600	2568	1.739	34.653	1.552 1.039641
	2800	2764	1.672	34.659	1.468 1.040546
	3000	2960	1.620	34.663	1.398 1.041445
	3200	3156	1.584	34.666	1.343 1.042336
	3400	3351	1.554	34.670	1.293 1.043223
	3600	3547	1.544	34.672	1.263 1.044103
	3800	3742	1.542	34.674	1.240 1.044978
	4000	3937	1.555	34.675	1.230 1.045844
	4200	4133	1.570	34.675	1.222 1.046706
	4400	4327	1.591	34.675	1.220 1.047564
	4600	4522	1.613	34.675	1.217 1.048417
	4800	4717	1.636	34.675	1.215 1.049267
	5000	4911	1.661	34.674	1.215 1.050111
	5200	5105	1.685	34.675	1.212 1.050955
	5400	5299	1.711	34.675	1.212 1.051791
	5600	5493	1.737	34.675	1.210 1.052625

STC222	87/ 2/17 10:06	12-58.4N	127-57.0E	5230M	
PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	19	26.434	34.589	26.430	1.022676
40	40	26.408	34.594	26.398	1.022774
60	59	26.407	34.608	26.393	1.022870
80	79	26.457	34.770	26.438	1.023063
100	99	25.810	34.951	25.786	1.023488
120	119	23.244	35.095	23.218	1.024456
140	139	21.250	35.027	21.222	1.025056
160	159	19.721	34.934	19.691	1.025483
180	179	17.910	34.820	17.878	1.025947
200	199	16.596	34.735	16.563	1.026290
250	249	14.507	34.581	14.469	1.026866
300	298	11.492	34.396	11.453	1.027561
350	348	9.734	34.296	9.693	1.028028
400	397	8.760	34.431	8.716	1.028524
450	447	7.967	34.440	7.920	1.028886
500	497	7.118	34.452	7.069	1.029253
550	546	6.672	34.458	6.620	1.029551
600	596	6.345	34.467	6.289	1.029833
650	646	6.060	34.476	6.001	1.030109
700	695	5.832	34.490	5.769	1.030378
750	744	5.601	34.497	5.535	1.030643
800	794	5.353	34.508	5.284	1.030914
850	843	5.083	34.514	5.011	1.031184
900	893	4.873	34.516	4.798	1.031442
950	942	4.668	34.529	4.590	1.031706
1000	992	4.446	34.532	4.365	1.031966
1100	1091	4.110	34.541	4.023	1.032474
1200	1189	3.803	34.550	3.710	1.032974
1300	1288	3.509	34.559	3.410	1.033475
1400	1387	3.203	34.567	3.099	1.033975
1500	1485	2.965	34.576	2.855	1.034466
1600	1584	2.779	34.584	2.663	1.034949
1700	1683	2.602	34.597	2.480	1.035439
1800	1781	2.473	34.608	2.344	1.035914
1900	1880	2.257	34.621	2.123	1.036405
2000	1978	2.081	34.626	1.941	1.036883
2200	2175	1.947	34.637	1.792	1.037809
2400	2371	1.832	34.644	1.661	1.038728
2600	2568	1.735	34.651	1.548	1.039640
2800	2764	1.659	34.658	1.455	1.040547
3000	2960	1.608	34.661	1.386	1.041445
3200	3156	1.564	34.666	1.323	1.042339
3400	3352	1.535	34.672	1.275	1.043227
3600	3547	1.526	34.674	1.245	1.044107
3800	3743	1.534	34.674	1.232	1.044981
4000	3938	1.547	34.676	1.223	1.045846
4200	4133	1.564	34.677	1.216	1.046710
4400	4328	1.585	34.676	1.214	1.047565
4600	4522	1.607	34.677	1.211	1.048420
4800	4717	1.631	34.676	1.210	1.049268
5000	4911	1.654	34.677	1.208	1.050115
5200	5106	1.679	34.677	1.207	1.050957
5400	5300	1.709	34.676	1.210	1.051792
5600	5494	1.733	34.676	1.206	1.052628

STC223	87/ 2/17	21:55	11-58.4N	126-59.5E	5710M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	26.577	34.373	26.573 1.022467
	40	40	26.560	34.380	26.550 1.022565
	60	59	26.565	34.384	26.551 1.022652
	80	79	26.576	34.408	26.557 1.022752
	100	99	24.643	34.731	24.620 1.023678
	120	119	21.676	34.858	21.652 1.024723
	140	139	19.513	34.849	19.487 1.025387
	160	159	18.187	34.806	18.159 1.025780
	180	179	17.210	34.762	17.179 1.026074
	200	199	15.912	34.662	15.880 1.026392
	250	249	12.666	34.406	12.632 1.027117
	300	298	10.765	34.390	10.728 1.027694
	350	348	9.235	34.352	9.195 1.028158
	400	397	8.460	34.393	8.417 1.028543
	450	447	6.847	34.274	6.804 1.028925
	500	497	6.286	34.311	6.240 1.029263
	550	546	6.089	34.388	6.039 1.029579
	600	596	5.467	34.388	5.415 1.029893
	650	645	5.111	34.393	5.057 1.030172
	700	695	5.336	34.487	5.276 1.030444
	750	744	4.781	34.485	4.720 1.030745
	800	794	4.753	34.540	4.687 1.031020
	850	843	4.434	34.537	4.366 1.031288
	900	893	4.114	34.550	4.044 1.031567
	950	942	3.991	34.561	3.918 1.031820
	1000	992	3.850	34.564	3.774 1.032068
	1100	1091	3.621	34.571	3.538 1.032559
	1200	1189	3.449	34.582	3.359 1.033045
	1300	1288	3.220	34.579	3.124 1.033527
	1400	1387	3.086	34.590	2.983 1.034007
	1500	1485	2.879	34.591	2.770 1.034490
	1600	1584	2.754	34.596	2.639 1.034963
	1700	1683	2.587	34.597	2.465 1.035438
	1800	1781	2.435	34.606	2.307 1.035916
	1900	1880	2.258	34.616	2.124 1.036400
	2000	1978	2.143	34.627	2.002 1.036876
	2200	2175	1.961	34.639	1.806 1.037809
	2400	2371	1.813	34.648	1.643 1.038733
	2600	2568	1.735	34.654	1.548 1.039644
	2800	2764	1.672	34.660	1.468 1.040547
	3000	2960	1.615	34.664	1.393 1.041446
	3200	3156	1.584	34.667	1.343 1.042336
	3400	3352	1.551	34.670	1.291 1.043225
	3600	3547	1.543	34.673	1.262 1.044104
	3800	3742	1.544	34.675	1.242 1.044977
	4000	3938	1.554	34.676	1.229 1.045845
	4200	4133	1.570	34.675	1.222 1.046707
	4400	4327	1.591	34.676	1.220 1.047565
	4600	4522	1.612	34.676	1.216 1.048418
	4800	4717	1.635	34.676	1.214 1.049268
	5000	4911	1.659	34.676	1.213 1.050113
	5200	5105	1.683	34.676	1.210 1.050955
	5400	5299	1.708	34.677	1.209 1.051793
	5600	5493	1.733	34.676	1.206 1.052626

STC304 87/ 2/28 17:54 21-39.5N 122-17.6E 4800M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 24.129 34.797 24.125 1.023537  
 40 39 24.103 34.804 24.094 1.023637  
 60 59 24.103 34.804 24.090 1.023724  
 80 79 24.102 34.803 24.084 1.023809  
 100 99 23.982 34.795 23.960 1.023924  
 120 119 23.557 34.785 23.531 1.024129  
 140 139 22.733 34.832 22.703 1.024490  
 160 159 21.732 34.837 21.699 1.024864  
 180 179 20.377 34.879 20.342 1.025354  
 200 199 19.466 34.859 19.429 1.025668  
 250 249 18.376 34.829 18.331 1.026144  
 300 298 15.997 34.682 15.948 1.026828  
 350 348 13.967 34.555 13.915 1.027405  
 400 398 13.189 34.525 13.132 1.027768  
 450 447 10.991 34.439 10.934 1.028360  
 500 497 9.447 34.390 9.389 1.028826  
 550 546 8.537 34.401 8.477 1.029215  
 600 596 7.823 34.312 7.761 1.029487  
 650 645 6.460 34.231 6.399 1.029858  
 700 696 5.630 34.232 5.568 1.030207  
 750 744 5.450 34.392 5.385 1.030581  
 800 794 5.244 34.421 5.175 1.030861  
 850 843 5.069 34.449 4.997 1.031134  
 900 893 4.755 34.471 4.681 1.031422  
 950 942 4.247 34.465 4.172 1.031712  
 1000 992 3.846 34.490 3.770 1.032011  
 1100 1091 3.460 34.539 3.379 1.032555  
 1200 1189 3.271 34.556 3.183 1.033048  
 1300 1288 3.061 34.570 2.967 1.033541  
 1400 1387 2.910 34.588 2.809 1.034028  
 1500 1486 2.771 34.593 2.664 1.034504  
 1600 1584 2.616 34.600 2.502 1.034984  
 1700 1683 2.476 34.599 2.356 1.035454  
 1800 1781 2.369 34.605 2.242 1.035925  
 1900 1880 2.286 34.612 2.152 1.036393  
 2000 1978 2.217 34.617 2.075 1.036858  
 2200 2175 1.994 34.633 1.838 1.037800  
 2400 2372 1.821 34.649 1.651 1.038733  
 2600 2568 1.714 34.660 1.528 1.039651  
 2800 2764 1.669 34.663 1.465 1.040550  
 3000 2960 1.630 34.669 1.408 1.041448  
 3200 3156 1.607 34.672 1.365 1.042337  
 3400 3352 1.571 34.675 1.310 1.043224  
 3600 3547 1.554 34.680 1.273 1.044107  
 3800 3743 1.556 34.681 1.253 1.044980  
 4000 3938 1.562 34.682 1.237 1.045848  
 4200 4133 1.576 34.682 1.228 1.046712  
 4400 4328 1.590 34.684 1.219 1.047571  
 4600 4522 1.606 34.684 1.210 1.048426  
 4800 4717 1.624 34.685 1.204 1.049277

STC303	87/ 2/28	22:35	21-35.8N	122-06.1E	4410M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	24.003	34.767	23.999	1.023551
	40	23.978	34.772	23.969	1.023651
	60	23.958	34.769	23.945	1.023741
	80	23.161	34.776	23.144	1.024065
	100	21.421	34.814	21.401	1.024673
	120	20.798	34.837	20.774	1.024948
	140	20.119	34.806	20.092	1.025194
	160	19.795	34.810	19.765	1.025370
	180	18.228	34.771	18.196	1.025830
	200	17.288	34.711	17.254	1.026103
	250	16.463	34.690	16.422	1.026505
	300	14.690	34.595	14.644	1.027057
	350	13.032	34.507	12.983	1.027565
	400	10.950	34.446	10.899	1.028150
	450	10.654	34.418	10.598	1.028408
	500	10.089	34.444	10.029	1.028755
	550	8.989	34.417	8.927	1.029151
	600	7.826	34.401	7.763	1.029555
	650	6.690	34.424	6.628	1.029976
	700	6.177	34.435	6.112	1.030287
	750	5.591	34.428	5.525	1.030591
	800	5.370	34.437	5.301	1.030855
	850	5.300	34.452	5.226	1.031104
	900	4.901	34.465	4.826	1.031397
	950	4.752	34.468	4.673	1.031647
	1000	4.573	34.476	4.491	1.031905
	1100	3.883	34.495	3.798	1.032466
	1200	3.588	34.516	3.497	1.032976
	1300	3.211	34.556	3.115	1.033510
	1400	2.950	34.558	2.849	1.033999
	1500	2.760	34.579	2.653	1.034494
	1600	2.616	34.588	2.502	1.034974
	1700	2.504	34.598	2.383	1.035449
	1800	2.292	34.605	2.166	1.035935
	1900	2.187	34.615	2.054	1.036408
	2000	2.103	34.625	1.963	1.036879
	2200	1.925	34.640	1.771	1.037814
	2400	1.802	34.649	1.632	1.038735
	2600	1.730	34.656	1.543	1.039645
	2800	1.688	34.660	1.483	1.040545
	3000	1.664	34.666	1.441	1.041440
	3200	1.575	34.672	1.334	1.042341
	3400	1.557	34.676	1.296	1.043229
	3600	1.561	34.677	1.279	1.044104
	3800	1.557	34.679	1.254	1.044979
	4000	1.560	34.680	1.235	1.045848
	4200	1.567	34.683	1.219	1.046714
	4400	1.580	34.684	1.209	1.047573

STC302 87/ 3/ 1 02:27 21-36.1N 121-58.4E 3260M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 23.650 34.804 23.646 1.023684  
 40 39 23.614 34.809 23.605 1.023785  
 60 59 23.619 34.808 23.606 1.023869  
 80 79 23.614 34.807 23.597 1.023956  
 100 99 23.599 34.809 23.577 1.024048  
 120 119 23.488 34.805 23.462 1.024164  
 140 139 23.231 34.810 23.201 1.024330  
 160 159 23.078 34.808 23.044 1.024459  
 180 179 22.531 34.814 22.493 1.024708  
 200 199 21.502 34.816 21.462 1.025086  
 250 249 19.014 34.810 18.968 1.025966  
 300 298 16.792 34.725 16.742 1.026672  
 350 348 14.673 34.603 14.619 1.027287  
 400 398 13.554 34.538 13.496 1.027700  
 450 447 11.410 34.397 11.352 1.028248  
 500 497 10.016 34.399 9.956 1.028732  
 550 546 9.262 34.388 9.199 1.029081  
 600 596 8.494 34.369 8.428 1.029422  
 650 646 7.893 34.386 7.825 1.029758  
 700 695 6.513 34.356 6.447 1.030174  
 750 745 6.415 34.417 6.344 1.030464  
 800 794 5.209 34.428 5.141 1.030871  
 850 844 4.879 34.467 4.808 1.031174  
 900 893 4.761 34.480 4.686 1.031427  
 950 942 4.572 34.489 4.494 1.031688  
 1000 992 4.245 34.503 4.166 1.031970  
 1100 1091 3.634 34.514 3.551 1.032513  
 1200 1190 3.321 34.540 3.233 1.033029  
 1300 1288 3.189 34.562 3.094 1.033518  
 1400 1387 3.045 34.568 2.943 1.033996  
 1500 1486 2.881 34.572 2.751 1.034452  
 1600 1584 2.700 34.585 2.585 1.034961  
 1700 1683 2.614 34.589 2.492 1.035428  
 1800 1781 2.400 34.600 2.272 1.035917  
 1900 1880 2.320 34.613 2.185 1.036389  
 2000 1978 2.275 34.618 2.132 1.036850  
 2200 2175 1.931 34.639 1.776 1.037813  
 2400 2372 1.807 34.647 1.637 1.038734  
 2600 2568 1.723 34.656 1.536 1.039647  
 2800 2764 1.620 34.665 1.417 1.040559  
 3000 2960 1.616 34.668 1.394 1.041450

STC301	87/ 3/ 1	05:43	21-31.9N	121-48.0E	2210M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	24.133	34.567	24.129	1.023361
	40	24.035	34.675	24.026	1.023559
	60	24.039	34.697	24.026	1.023662
	80	24.076	34.748	24.058	1.023775
	100	24.078	34.759	24.056	1.023870
	120	24.004	34.753	23.977	1.023973
	140	23.496	34.750	23.466	1.024207
	160	22.336	34.804	22.303	1.024669
	180	21.386	34.781	21.350	1.025006
	200	19.744	34.792	19.706	1.025544
	250	17.992	34.711	17.948	1.026150
	300	14.624	34.493	14.578	1.026993
	350	11.762	34.478	11.716	1.027797
	400	10.520	34.435	10.471	1.028221
	450	9.281	34.409	9.230	1.028646
	500	8.839	34.403	8.783	1.028940
	550	8.271	34.409	8.212	1.029264
	600	7.518	34.403	7.457	1.029607
	650	6.512	34.409	6.451	1.029989
	700	6.268	34.422	6.203	1.030262
	750	6.147	34.424	6.078	1.030508
	800	5.818	34.431	5.746	1.030788
	850	5.394	34.450	5.320	1.031091
	900	4.989	34.464	4.913	1.031384
	950	4.796	34.474	4.717	1.031646
	1000	4.326	34.494	4.246	1.031952
	1100	3.881	34.513	3.796	1.032479
	1200	3.608	34.532	3.517	1.032986
	1300	3.269	34.540	3.173	1.033490
	1400	3.051	34.566	2.949	1.033993
	1500	2.894	34.580	2.785	1.034478
	1600	2.767	34.588	2.651	1.034955
	1700	2.627	34.596	2.505	1.035434
	1800	2.560	34.602	2.430	1.035897
	1900	2.378	34.612	2.242	1.036381
	2000	2.356	34.606	2.212	1.036830

PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	19	23.798	34.814	23.794	1.023647
40	39	23.687	34.829	23.678	1.023779
60	59	23.442	34.889	23.429	1.023982
80	79	23.378	34.924	23.361	1.024114
100	99	23.356	34.928	23.334	1.024209
120	119	23.297	34.957	23.271	1.024336
140	139	22.153	34.892	22.124	1.024702
160	159	20.944	34.903	20.912	1.025132
180	179	19.288	34.857	19.255	1.025625
200	199	18.392	34.818	18.356	1.025912
250	248	16.422	34.747	16.381	1.026558
300	298	14.941	34.637	14.895	1.027034
350	348	13.576	34.526	13.525	1.027466
400	397	12.318	34.417	12.263	1.027863
450	447	10.881	34.310	10.824	1.028281
500	497	9.807	34.353	9.748	1.028733
550	546	7.787	34.187	7.730	1.029169
600	596	7.081	34.182	7.022	1.029500
650	645	6.457	34.191	6.396	1.029827
700	695	6.141	34.319	6.077	1.030200
750	745	5.523	34.266	5.457	1.030474
800	794	4.937	34.315	4.870	1.030820
850	843	4.627	34.378	4.558	1.031137
900	893	4.284	34.440	4.213	1.031459
950	942	3.962	34.470	3.889	1.031752
1000	992	3.821	34.483	3.745	1.032009
1100	1091	3.388	34.511	3.307	1.032540
1200	1190	3.125	34.535	3.039	1.033050
1300	1288	2.991	34.566	2.898	1.033545
1400	1387	2.859	34.579	2.759	1.034027
1500	1486	2.673	34.585	2.567	1.034511
1600	1584	2.473	34.595	2.361	1.034998
1700	1683	2.378	34.603	2.259	1.035469
1800	1781	2.289	34.607	2.163	1.035937
1900	1880	2.206	34.617	2.073	1.036407
2000	1978	2.101	34.624	1.961	1.036879
2200	2175	1.978	34.635	1.823	1.037804
2400	2372	1.865	34.644	1.694	1.038724
2600	2568	1.779	34.653	1.591	1.039636
2800	2764	1.720	34.658	1.515	1.040539
3000	2960	1.653	34.664	1.430	1.041440
3200	3156	1.595	34.670	1.354	1.042337
3400	3352	1.585	34.674	1.324	1.043221
3600	3547	1.565	34.676	1.283	1.044102
3800	3743	1.559	34.679	1.256	1.044977
4000	3938	1.561	34.681	1.236	1.045847
4200	4133	1.572	34.681	1.224	1.046710
4400	4328	1.587	34.682	1.216	1.047571
4600	4522	1.605	34.683	1.209	1.048425
4800	4717	1.626	34.682	1.206	1.049273

STC306 87/ 3/ 1 20:46 21-43.8N 122-38.9E 4710M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 23.259 34.830 23.255 1.023817  
 40 39 23.231 34.835 23.222 1.023916  
 60 59 23.250 34.835 23.237 1.023996  
 80 79 23.170 34.848 23.153 1.024117  
 100 99 22.277 34.905 22.256 1.024503  
 120 119 21.394 34.895 21.370 1.024829  
 140 139 20.746 34.888 20.718 1.025088  
 160 159 19.947 34.877 19.916 1.025380  
 180 179 19.578 34.879 19.544 1.025567  
 200 199 19.008 34.862 18.971 1.025788  
 250 248 17.038 34.775 16.996 1.026432  
 300 298 15.161 34.653 15.114 1.026998  
 350 348 13.883 34.548 13.831 1.027418  
 400 397 12.872 34.455 12.816 1.027780  
 450 448 11.208 34.338 11.150 1.028243  
 500 497 9.140 34.204 9.083 1.028734  
 550 546 8.238 34.184 8.179 1.029094  
 600 596 7.227 34.165 7.167 1.029465  
 650 645 6.433 34.172 6.372 1.029815  
 700 695 6.157 34.192 6.093 1.030098  
 750 748 5.631 34.259 5.563 1.030560  
 800 794 5.532 34.280 5.462 1.030709  
 850 843 5.236 34.301 5.163 1.030994  
 900 893 5.005 34.348 4.929 1.031292  
 950 942 4.652 34.405 4.574 1.031611  
 1000 992 4.257 34.444 4.178 1.031921  
 1100 1091 3.569 34.494 3.487 1.032504  
 1200 1189 3.151 34.523 3.064 1.033035  
 1300 1288 2.841 34.539 2.749 1.033544  
 1400 1387 2.521 34.564 2.425 1.034057  
 1500 1492 2.360 34.581 2.257 1.034576  
 1600 1584 2.301 34.589 2.191 1.035014  
 1700 1683 2.272 34.594 2.155 1.035477  
 1800 1781 2.157 34.608 2.033 1.035954  
 1900 1880 2.050 34.619 1.919 1.036429  
 2000 1978 1.962 34.624 1.824 1.036897  
 2200 2175 1.854 34.638 1.701 1.037823  
 2400 2371 1.773 34.648 1.604 1.038739  
 2600 2568 1.702 34.656 1.516 1.039650  
 2800 2764 1.639 34.663 1.436 1.040555  
 3000 2960 1.603 34.667 1.381 1.041451  
 3200 3156 1.556 34.672 1.316 1.042345  
 3400 3352 1.554 34.675 1.293 1.043227  
 3600 3547 1.548 34.676 1.267 1.044106  
 3800 3743 1.551 34.678 1.248 1.044979  
 4000 3938 1.553 34.681 1.228 1.045849  
 4200 4133 1.566 34.682 1.218 1.046713  
 4400 4328 1.583 34.682 1.212 1.047570  
 4600 4522 1.606 34.682 1.210 1.048424

STC312	87/ 3 / 3	09:03	25-12.4N	128-27.9E	7280M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	21.082	34.896	21.078 1.024481
	40	39	21.033	34.906	21.025 1.024589
	60	59	21.033	34.906	21.021 1.024675
	80	79	20.786	34.889	20.770 1.024817
	100	99	20.497	34.870	20.478 1.024967
	120	119	20.425	34.862	20.402 1.025067
	140	139	20.338	34.855	20.311 1.025173
	160	159	20.243	34.849	20.212 1.025281
	180	179	19.735	34.823	19.701 1.025482
	200	199	18.933	34.815	18.896 1.025772
	250	248	17.718	34.803	17.674 1.026288
	300	298	16.277	34.721	16.228 1.026792
	350	348	15.286	34.659	15.231 1.027194
	400	397	13.945	34.553	13.886 1.027629
	450	447	12.491	34.443	12.429 1.028069
	500	497	10.893	34.319	10.830 1.028509
	550	546	9.633	34.258	9.568 1.028915
	600	596	8.627	34.227	8.561 1.029288
	650	645	7.426	34.203	7.360 1.029690
	700	695	6.836	34.208	6.768 1.030011
	750	744	6.261	34.234	6.191 1.030343
	800	794	5.517	34.244	5.447 1.030684
	850	844	5.130	34.307	5.058 1.031014
	900	893	4.931	34.363	4.855 1.031314
	950	942	4.470	34.363	4.393 1.031602
	1000	992	4.298	34.394	4.218 1.031877
	1100	1091	3.983	34.464	3.897 1.032428
	1200	1189	3.361	34.500	3.272 1.032992
	1300	1288	3.088	34.522	2.994 1.033499
	1400	1387	2.842	34.541	2.742 1.033999
	1500	1486	2.666	34.558	2.560 1.034491
	1600	1584	2.432	34.558	2.321 1.034974
	1700	1683	2.260	34.580	2.143 1.035466
	1800	1781	2.179	34.596	2.055 1.035942
	1900	1880	2.101	34.605	1.969 1.036411
	2000	1978	2.027	34.616	1.888 1.036881
	2200	2175	1.874	34.632	1.720 1.037816
	2400	2372	1.791	34.643	1.621 1.038733
	2600	2568	1.735	34.652	1.548 1.039641
	2800	2764	1.676	34.659	1.472 1.040546
	3000	2960	1.625	34.665	1.403 1.041446
	3200	3156	1.588	34.670	1.347 1.042339
	3400	3352	1.567	34.673	1.306 1.043223
	3600	3547	1.558	34.677	1.276 1.044104
	3800	3743	1.560	34.679	1.257 1.044978
	4000	3938	1.564	34.680	1.239 1.045846
	4200	4133	1.575	34.681	1.227 1.046711
	4400	4328	1.584	34.682	1.213 1.047570
	4600	4522	1.598	34.683	1.203 1.048426
	4800	4717	1.615	34.683	1.195 1.049277
	5000	4911	1.637	34.684	1.191 1.050123
	5200	5106	1.659	34.683	1.187 1.050965
	5400	5300	1.684	34.684	1.186 1.051804
	5600	5494	1.709	34.683	1.183 1.052636
	5800	5688	1.736	34.684	1.182 1.053468
	6000	5881	1.764	34.682	1.182 1.054292
	6200	6074	1.792	34.682	1.181 1.055113
	6400	6268	1.820	34.682	1.179 1.055932
	6500	6364	1.835	34.681	1.179 1.056338

STC313	87/ 3/ 3	14:37	25-21.1N	128-21.7E	5960M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	21.282	34.869	21.278	1.024405
	40	21.177	34.899	21.169	1.024544
	60	21.179	34.901	21.167	1.024632
	80	21.181	34.901	21.165	1.024718
	100	21.181	34.904	21.161	1.024808
	120	20.682	34.863	20.658	1.024999
	140	20.453	34.859	20.426	1.025146
	160	19.887	34.855	19.857	1.025380
	180	19.369	34.861	19.335	1.025607
	200	18.618	34.838	18.582	1.025870
	250	17.390	34.789	17.347	1.026358
	300	15.915	34.698	15.866	1.026859
	350	15.106	34.644	15.051	1.027223
	400	13.745	34.536	13.686	1.027659
	450	12.397	34.434	12.335	1.028082
	500	10.851	34.362	10.788	1.028550
	550	9.866	34.282	9.801	1.028893
	600	8.237	34.181	8.173	1.029317
	650	7.271	34.248	7.206	1.029749
	700	6.262	34.239	6.197	1.030120
	750	5.631	34.279	5.563	1.030560
	800	5.082	34.276	5.015	1.030768
	850	5.012	34.366	4.940	1.031077
	900	4.511	34.366	4.438	1.031371
	950	4.175	34.384	4.101	1.031657
	1000	4.027	34.419	3.949	1.031932
	1100	3.507	34.450	3.425	1.032477
	1200	3.084	34.474	2.998	1.033006
	1300	2.979	34.533	2.886	1.033522
	1400	2.768	34.549	2.669	1.034016
	1500	2.622	34.562	2.517	1.034499
	1600	2.453	34.574	2.342	1.034984
	1700	2.360	34.582	2.241	1.035456
	1800	2.232	34.602	2.107	1.035940
	1900	2.132	34.610	2.000	1.036411
	2000	2.057	34.617	1.918	1.036879
	2200	1.915	34.631	1.761	1.037808
	2400	1.803	34.643	1.633	1.038731
	2600	1.720	34.653	1.533	1.039644
	2800	1.665	34.657	1.461	1.040546
	3000	1.614	34.664	1.392	1.041446
	3200	1.574	34.669	1.333	1.042339
	3400	1.558	34.673	1.297	1.043225
	3600	1.553	34.675	1.272	1.044104
	3800	1.554	34.676	1.251	1.044977
	4000	1.562	34.677	1.237	1.045844
	4200	1.572	34.679	1.224	1.046709
	4400	1.585	34.680	1.214	1.047569
	4600	1.601	34.681	1.206	1.048424
	4800	1.618	34.681	1.198	1.049274
	5000	1.637	34.682	1.191	1.050122
	5200	1.660	34.681	1.188	1.050963
	5400	1.684	34.681	1.186	1.051801
	5600	1.709	34.682	1.183	1.052635
	5800	1.735	34.681	1.181	1.053465

PRESSURE	DEPTH	T	S	POT-T	DENSITY
20	19	21.204	34.902	21.200	1.024451
40	39	21.161	34.907	21.153	1.024554
60	59	21.163	34.907	21.151	1.024641
80	79	21.161	34.905	21.145	1.024727
100	99	21.156	34.903	21.136	1.024815
120	119	21.147	34.901	21.123	1.024901
140	139	20.664	34.871	20.637	1.025098
160	159	20.213	34.876	20.182	1.025310
180	179	19.415	34.861	19.381	1.025596
200	199	18.726	34.843	18.690	1.025846
250	248	17.602	34.815	17.559	1.026325
300	298	16.733	34.764	16.683	1.026717
350	348	15.096	34.643	15.041	1.027224
400	397	13.994	34.547	13.935	1.027615
450	447	12.777	34.449	12.714	1.028016
500	497	11.422	34.371	11.357	1.028448
550	546	10.144	34.330	10.077	1.028879
600	596	8.314	34.293	8.249	1.029392
650	645	7.086	34.205	7.022	1.029743
700	695	6.546	34.264	6.479	1.030098
750	744	6.107	34.309	6.038	1.030424
800	794	5.561	34.290	5.491	1.030714
850	844	5.341	34.347	5.267	1.031017
900	893	4.943	34.383	4.867	1.031327
950	942	4.539	34.417	4.462	1.031635
1000	992	4.165	34.441	4.086	1.031931
1100	1091	3.745	34.456	3.661	1.032453
1200	1189	3.199	34.470	3.112	1.032989
1300	1288	2.891	34.507	2.799	1.033511
1400	1387	2.674	34.526	2.576	1.034009
1500	1486	2.506	34.554	2.402	1.034507
1600	1584	2.360	34.570	2.250	1.034992
1700	1683	2.278	34.583	2.161	1.035466
1800	1781	2.209	34.599	2.084	1.035941
1900	1880	2.117	34.609	1.985	1.036412
2000	1978	2.020	34.619	1.881	1.036884
2200	2175	1.884	34.632	1.730	1.037814
2400	2372	1.775	34.644	1.606	1.038735
2600	2568	1.692	34.654	1.506	1.039649
2800	2764	1.637	34.661	1.434	1.040554
3000	2960	1.596	34.666	1.374	1.041451
3200	3156	1.569	34.670	1.328	1.042341
3400	3352	1.551	34.672	1.291	1.043225
3600	3547	1.547	34.675	1.266	1.044105
3800	3743	1.539	34.676	1.237	1.044979
4000	3938	1.549	34.679	1.224	1.045848
4200	4133	1.558	34.681	1.211	1.046713
4400	4328	1.572	34.681	1.201	1.047572
4600	4522	1.588	34.681	1.193	1.048427
4800	4717	1.610	34.681	1.190	1.049276

STC315 87/ 3/ 4 01:58 25-37.0N 128-08.2E 3020M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 19 20.657 34.885 20.654 1.024588  
 40 40 20.630 34.888 20.622 1.024685  
 60 59 20.634 34.889 20.622 1.024771  
 80 79 20.634 34.888 20.618 1.024858  
 100 99 20.616 34.886 20.596 1.024947  
 120 119 20.606 34.886 20.583 1.025038  
 140 139 20.597 34.887 20.570 1.025127  
 160 159 20.577 34.875 20.546 1.025210  
 180 179 20.204 34.858 20.169 1.025385  
 200 199 19.727 34.821 19.689 1.025571  
 250 249 17.859 34.791 17.815 1.026244  
 300 298 16.726 34.762 16.676 1.026717  
 350 348 15.419 34.661 15.364 1.027164  
 400 397 14.160 34.560 14.100 1.027588  
 450 447 12.685 34.457 12.622 1.028042  
 500 497 11.119 34.348 11.055 1.028489  
 550 547 9.967 34.317 9.901 1.028903  
 600 596 8.181 34.282 8.117 1.029405  
 650 645 6.794 34.240 6.731 1.029815  
 700 695 6.126 34.232 6.062 1.030134  
 750 744 5.912 34.317 5.844 1.030457  
 800 794 5.440 34.332 5.370 1.030764  
 850 843 5.106 34.377 5.034 1.031073  
 900 893 4.622 34.410 4.549 1.031391  
 950 942 4.373 34.430 4.297 1.031668  
 1000 992 4.137 34.445 4.059 1.031939  
 1100 1091 3.695 34.485 3.612 1.032482  
 1200 1189 3.282 34.501 3.194 1.033002  
 1300 1288 2.978 34.517 2.885 1.033509  
 1400 1387 2.714 34.536 2.616 1.034012  
 1500 1486 2.593 34.543 2.488 1.034488  
 1600 1585 2.457 34.564 2.345 1.034978  
 1700 1683 2.308 34.579 2.190 1.035460  
 1800 1781 2.204 34.594 2.079 1.035937  
 1900 1880 2.127 34.605 1.995 1.036408  
 2000 1978 2.052 34.614 1.913 1.036877  
 2200 2175 1.929 34.628 1.774 1.037805  
 2400 2371 1.840 34.636 1.669 1.038720  
 2600 2568 1.735 34.648 1.548 1.039639  
 2800 2764 1.617 34.661 1.414 1.040556

STC316	87/ 3/ 4	05:08	25-44.7N	128-01.2E	2250M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	21.271	34.913	21.267 1.024442
	40	40	21.255	34.917	21.247 1.024537
	60	59	21.258	34.916	21.246 1.024621
	80	79	21.256	34.916	21.240 1.024709
	100	99	21.255	34.916	21.235 1.024796
	120	119	21.235	34.913	21.211 1.024886
	140	139	20.738	34.856	20.711 1.025065
	160	159	20.356	34.864	20.325 1.025262
	180	179	19.964	34.876	19.930 1.025462
	200	199	19.050	34.852	19.013 1.025770
	250	248	17.789	34.802	17.745 1.026270
	300	298	17.123	34.783	17.072 1.026637
	350	348	15.813	34.697	15.757 1.027102
	400	397	14.359	34.582	14.299 1.027561
	450	447	13.251	34.492	13.186 1.027951
	500	497	11.794	34.391	11.727 1.028391
	550	546	10.117	34.302	10.050 1.028863
	600	596	8.942	34.238	8.875 1.029244
	650	645	8.076	34.287	8.007 1.029653
	700	695	6.775	34.284	6.707 1.030079
	750	745	5.914	34.324	5.846 1.030463
	800	794	5.442	34.346	5.372 1.030775
	850	844	5.069	34.341	4.997 1.031050
	900	893	4.765	34.373	4.691 1.031343
	950	942	4.497	34.391	4.420 1.031621
	1000	992	4.163	34.419	4.084 1.031914
	1100	1091	3.713	34.475	3.630 1.032472
	1200	1190	3.265	34.496	3.177 1.033001
	1300	1288	2.993	34.513	2.900 1.033504
	1400	1387	2.767	34.541	2.668 1.034009
	1500	1486	2.570	34.546	2.465 1.034492
	1600	1585	2.431	34.560	2.320 1.034978
	1700	1683	2.336	34.574	2.218 1.035453
	1800	1781	2.218	34.592	2.093 1.035934
	1900	1880	2.095	34.604	1.964 1.036412
	2000	1978	1.981	34.615	1.843 1.036887
	2200	2175	1.887	34.627	1.733 1.037809

STC317 87/ 3/ 4 07:51 25-53.8N 127-55.2E 1660M  
 PRESSURE DEPTH T S POT-T DENSITY  
 20 20 21.196 34.905 21.192 1.024456  
 40 39 21.093 34.899 21.085 1.024567  
 60 59 20.761 34.868 20.749 1.024720  
 80 79 20.586 34.862 20.570 1.024850  
 100 99 20.533 34.870 20.514 1.024958  
 120 119 20.440 34.864 20.417 1.025065  
 140 139 20.317 34.854 20.290 1.025178  
 160 159 20.285 34.850 20.254 1.025270  
 180 179 20.032 34.853 19.998 1.025427  
 200 199 19.470 34.815 19.433 1.025633  
 250 248 18.354 34.826 18.309 1.026147  
 300 298 17.191 34.768 17.140 1.026609  
 350 348 15.318 34.652 15.263 1.027181  
 400 397 14.085 34.563 14.025 1.027606  
 450 447 13.002 34.479 12.938 1.027993  
 500 497 11.658 34.402 11.592 1.028427  
 550 546 10.514 34.319 10.446 1.028803  
 600 596 9.273 34.285 9.204 1.029224  
 650 645 8.344 34.231 8.274 1.029564  
 700 695 6.879 34.286 6.811 1.030065  
 750 745 5.827 34.329 5.760 1.030480  
 800 794 5.288 34.345 5.219 1.030795  
 850 843 4.586 34.355 4.517 1.031124  
 900 893 4.486 34.408 4.414 1.031407  
 950 942 4.302 34.441 4.227 1.031685  
 1000 992 4.035 34.454 3.957 1.031958  
 1100 1091 3.580 34.495 3.498 1.032505  
 1200 1189 3.096 34.501 3.010 1.033026  
 1300 1288 2.945 34.527 2.852 1.033521  
 1400 1387 2.708 34.527 2.610 1.034006  
 1500 1486 2.552 34.542 2.448 1.034492  
 1600 1584 2.431 34.553 2.320 1.034969

STC324	87/ 3/ 5	11:56	29-20.5N	131-41.2E	5000M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	19	19.846	34.839	19.843	1.024768
20	39	18.983	34.850	18.976	1.025087
40	59	18.893	34.855	18.882	1.025201
60	79	18.878	34.857	18.863	1.025294
80	99	18.876	34.857	18.858	1.025382
100	119	18.876	34.858	18.854	1.025471
120	139	18.878	34.857	18.852	1.025557
140	159	18.868	34.857	18.839	1.025646
160	179	18.861	34.857	18.828	1.025736
180	199	18.854	34.858	18.817	1.025826
200	248	18.845	34.857	18.799	1.026045
250	298	17.933	34.826	17.880	1.026471
300	348	16.920	34.780	16.861	1.026903
350	397	16.018	34.705	15.953	1.027280
400	447	14.968	34.637	14.898	1.027689
450	497	13.595	34.530	13.522	1.028129
500	546	12.350	34.418	12.274	1.028523
550	596	10.509	34.305	10.435	1.029016
600	646	9.668	34.373	9.591	1.029448
650	695	8.844	34.357	8.765	1.029803
700	745	7.892	34.354	7.813	1.030185
750	794	6.542	34.364	6.465	1.030630
800	844	5.853	34.367	5.776	1.030960
850	893	5.160	34.373	5.083	1.031289
900	942	4.493	34.387	4.416	1.031618
950	992	4.046	34.408	3.968	1.031920
1000	1091	3.479	34.423	3.398	1.032460
1100	1190	3.208	34.445	3.121	1.032968
1200	1288	2.986	34.472	2.893	1.033472
1300	1387	2.790	34.495	2.691	1.033970
1400	1486	2.575	34.523	2.470	1.034473
1500	1584	2.437	34.539	2.325	1.035029
1600	1683	2.330	34.557	2.212	1.035439
1700	1782	2.236	34.570	2.111	1.035915
1800	1880	2.153	34.582	2.021	1.036387
1900	1978	2.047	34.598	1.908	1.036865
2000	2175	1.908	34.617	1.754	1.037799
2200	2372	1.791	34.634	1.621	1.038726
2400	2568	1.692	34.649	1.506	1.039645
2600	2764	1.613	34.659	1.410	1.040555
2800	2960	1.563	34.666	1.342	1.041455
3000	3156	1.541	34.670	1.301	1.042345
3200	3352	1.529	34.673	1.269	1.043230
3400	3547	1.536	34.674	1.255	1.044106
3600	3743	1.544	34.676	1.242	1.044978
3800	3938	1.562	34.676	1.237	1.045843
4000	4133	1.580	34.677	1.232	1.046706
4200	4328	1.599	34.677	1.227	1.047565
4400	4523	1.620	34.678	1.224	1.048418
4600	4717	1.642	34.679	1.221	1.049269

STC323	87/ 3/ 5	15:59	29-29.0N	131-33.7E	4130M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	21.153	34.845	21.149 1.024422
	40	39	21.090	34.849	21.082 1.024529
	60	59	21.067	34.849	21.055 1.024623
	80	79	20.996	34.844	20.980 1.024726
	100	99	20.505	34.836	20.486 1.024940
	120	119	20.063	34.872	20.040 1.025171
	140	139	19.807	34.870	19.780 1.025326
	160	159	19.617	34.867	19.587 1.025460
	180	179	19.422	34.864	19.388 1.025596
	200	199	19.111	34.859	19.074 1.025761
	250	248	18.865	34.855	18.819 1.026038
	300	298	17.825	34.790	17.772 1.026470
	350	348	16.872	34.766	16.813 1.026904
	400	397	15.568	34.670	15.504 1.027357
	450	447	14.531	34.597	14.462 1.027756
	500	497	12.845	34.487	12.775 1.028255
	550	546	11.256	34.353	11.185 1.028689
	600	596	10.276	34.387	10.202 1.029123
	650	646	8.798	34.377	8.725 1.029602
	700	695	7.131	34.329	7.061 1.030060
	750	745	6.277	34.324	6.207 1.030412
	800	794	5.430	34.350	5.360 1.030779
	850	844	4.923	34.364	4.852 1.031088
	900	893	4.688	34.387	4.614 1.031364
	950	942	4.238	34.395	4.163 1.031657
	1000	992	3.899	34.394	3.823 1.031928
	1100	1091	3.382	34.424	3.302 1.032473
	1200	1190	3.039	34.462	2.954 1.033003
	1300	1288	2.847	34.488	2.755 1.033502
	1400	1387	2.630	34.514	2.533 1.034005
	1500	1486	2.490	34.533	2.386 1.034492
	1600	1585	2.362	34.549	2.252 1.034979
	1700	1683	2.254	34.565	2.137 1.035456
	1800	1781	2.171	34.576	2.047 1.035928
	1900	1880	2.056	34.593	1.925 1.036407
	2000	1978	1.969	34.605	1.831 1.036880
	2200	2175	1.826	34.626	1.673 1.037817
	2400	2372	1.716	34.642	1.548 1.038742
	2600	2568	1.638	34.653	1.453 1.039657
	2800	2764	1.587	34.661	1.385 1.040561
	3000	2960	1.543	34.667	1.323 1.041460
	3200	3156	1.533	34.670	1.293 1.042347
	3400	3352	1.524	34.673	1.264 1.043231
	3600	3547	1.527	34.674	1.246 1.044107
	3800	3743	1.536	34.676	1.234 1.044979
	4000	3938	1.550	34.676	1.225 1.045846

STC322	87/ 3/ 5	20:02	29-35.7N	131-27.5E	3870M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	19	21.249	34.843	21.245 1.024394
	40	39	21.219	34.844	21.211 1.024491
	60	59	21.220	34.845	21.208 1.024578
	80	79	21.214	34.845	21.198 1.024667
	100	99	21.138	34.837	21.118 1.024768
	120	119	21.052	34.831	21.028 1.024875
	140	139	20.961	34.829	20.933 1.024984
	160	159	20.775	34.829	20.743 1.025123
	180	179	20.560	34.816	20.525 1.025257
	200	199	20.162	34.841	20.124 1.025471
	250	248	19.192	34.819	19.146 1.025927
	300	298	17.532	34.771	17.480 1.026528
	350	348	16.579	34.721	16.521 1.026940
	400	397	15.461	34.663	15.397 1.027376
	450	447	13.684	34.539	13.618 1.027895
	500	497	12.414	34.469	12.345 1.028328
	550	546	11.438	34.463	11.366 1.028739
	600	596	9.394	34.386	9.324 1.029282
	650	645	7.878	34.357	7.810 1.029738
	700	695	6.308	34.340	6.243 1.030192
	750	745	5.491	34.315	5.426 1.030516
	800	794	5.022	34.361	4.955 1.030845
	850	844	4.740	34.387	4.670 1.031130
	900	893	4.279	34.405	4.208 1.031432
	950	943	3.947	34.400	3.874 1.031699
	1000	992	3.669	34.409	3.594 1.031969
	1100	1091	3.341	34.446	3.261 1.032495
	1200	1190	3.077	34.472	2.991 1.033005
	1300	1288	2.788	34.494	2.697 1.033514
	1400	1387	2.628	34.510	2.531 1.034002
	1500	1486	2.400	34.543	2.297 1.034514
	1600	1584	2.322	34.555	2.212 1.034986
	1700	1683	2.212	34.571	2.096 1.035465
	1800	1781	2.118	34.583	1.995 1.035940
	1900	1880	2.039	34.595	1.908 1.036411
	2000	1978	1.961	34.605	1.823 1.036881
	2200	2175	1.852	34.621	1.699 1.037810
	2400	2372	1.754	34.637	1.585 1.038733
	2600	2568	1.675	34.648	1.489 1.039647
	2800	2764	1.609	34.657	1.406 1.040554
	3000	2960	1.572	34.663	1.351 1.041451
	3200	3156	1.543	34.668	1.303 1.042343
	3400	3352	1.525	34.671	1.265 1.043229
	3600	3547	1.525	34.675	1.244 1.044108
	3800	3743	1.534	34.676	1.232 1.044979

STC321	87/ 3/ 5	23:31	29-41.7N	131-20.4E	3050M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	21.159	34.848	21.155	1.024423
	40	21.139	34.850	21.131	1.024517
	60	21.138	34.850	21.126	1.024604
	80	21.103	34.843	21.087	1.024695
	100	20.970	34.831	20.950	1.024810
	120	20.533	34.813	20.510	1.025002
	140	20.504	34.815	20.477	1.025098
	160	20.132	34.816	20.101	1.025285
	180	19.186	34.827	19.153	1.025629
	200	18.424	34.782	18.388	1.025877
	250	17.669	34.762	17.625	1.026269
	300	16.506	34.687	16.456	1.026712
	350	14.675	34.613	14.621	1.027295
	400	12.867	34.467	12.811	1.027790
	450	12.083	34.471	12.022	1.028173
	500	11.492	34.443	11.427	1.028490
	550	10.140	34.364	10.073	1.028907
	600	8.208	34.358	8.144	1.029461
	650	6.465	34.299	6.404	1.029910
	700	5.760	34.325	5.698	1.030260
	750	5.119	34.356	5.056	1.030599
	800	4.446	34.381	4.383	1.030934
	850	4.016	34.393	3.951	1.031227
	900	3.681	34.408	3.614	1.031509
	950	3.620	34.415	3.550	1.031751
	1000	3.359	34.434	3.287	1.032026
	1100	3.099	34.466	3.021	1.032540
	1200	2.875	34.488	2.791	1.033042
	1300	2.698	34.505	2.608	1.033534
	1400	2.484	34.532	2.388	1.034081
	1500	2.374	34.546	2.272	1.034516
	1600	2.261	34.562	2.152	1.034998
	1700	2.159	34.577	2.043	1.035477
	1800	2.066	34.590	1.943	1.035952
	1900	1.997	34.599	1.867	1.036421
	2000	1.946	34.605	1.808	1.036883
	2200	1.834	34.623	1.681	1.037814
	2400	1.743	34.639	1.574	1.038736
	2600	1.655	34.650	1.470	1.039651
	2800	1.602	34.657	1.399	1.040555
	3000	1.547	34.665	1.327	1.041457

STC331	87/ 3/7	17:16	32-26.4N	137-18.5E	4010M
PRESSURE	DEPTH	T	S	POT-T	DENSITY
	20	15.786	34.720	15.783	1.025670
	40	15.752	34.748	15.746	1.025788
	60	15.734	34.755	15.724	1.025886
	80	15.580	34.749	15.567	1.026005
	100	15.453	34.751	15.437	1.026123
	120	15.318	34.747	15.299	1.026238
	140	14.237	34.627	14.216	1.026472
	160	13.577	34.556	13.554	1.026646
	180	13.026	34.517	13.001	1.026817
	200	11.908	34.451	11.882	1.027077
	250	10.086	34.338	10.056	1.027550
	300	8.560	34.311	8.528	1.028011
	350	7.415	34.278	7.380	1.028390
	400	6.590	34.263	6.553	1.028727
	450	5.928	34.269	5.888	1.029052
	500	5.125	34.292	5.084	1.029404
	550	4.669	34.317	4.625	1.029711
	600	4.073	34.346	4.028	1.030036
	650	3.731	34.381	3.684	1.030334
	700	3.558	34.399	3.508	1.030598
	750	3.420	34.414	3.367	1.030856
	800	3.295	34.425	3.239	1.031109
	850	3.140	34.443	3.081	1.031371
	900	3.005	34.458	2.943	1.031629
	950	2.883	34.475	2.819	1.031885
	1000	2.776	34.487	2.709	1.032137
	1100	2.600	34.511	2.527	1.032635
	1200	2.453	34.531	2.373	1.033126
	1300	2.344	34.547	2.258	1.033608
	1400	2.210	34.564	2.118	1.034095
	1500	2.098	34.579	1.999	1.034576
	1600	2.012	34.591	1.906	1.035051
	1700	1.924	34.604	1.812	1.035527
	1800	1.869	34.612	1.749	1.035995
	1900	1.802	34.622	1.675	1.036463
	2000	1.748	34.630	1.614	1.036929
	2200	1.651	34.643	1.501	1.037853
	2400	1.585	34.652	1.419	1.038769
	2600	1.526	34.662	1.344	1.039679
	2800	1.490	34.668	1.290	1.040580
	3000	1.473	34.671	1.254	1.041472
	3200	1.469	34.674	1.231	1.042359
	3400	1.475	34.675	1.217	1.043240
	3600	1.487	34.676	1.207	1.044115
	3800	1.503	34.677	1.202	1.044986
	4000	1.518	34.677	1.194	1.045853