Preliminary Report
of
The Hakuho Maru Cruise
KH-95-1

12 May – 12 June 1995

Studies on the Kuroshio and Deep Currents
in the Western North Pacific

Ocean Research Institute
University of Tokyo
1996

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by
The Scientific Members of the Cruise
Edited by
Masaki KAWABE

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Preface

The Cruise KH-95-1 of R.V. Hakuho Maru was carried out for 32 days from May 12 to June 12 in 1995 with a stop at Kagoshima between May 21 and May 26, composed of leg 1 (Tokyo to Kagoshima) and leg 2 (Kagoshima to Tokyo). The observation was done by 31 scientists from nine universities, 28 in leg 1 and 22 in leg 2.

One of the main subjects of this cruise is to observe volume and heat transports of the Kuroshio. In leg 1 we observed the Kuroshio off Shikoku with CTD (conductivity-temperature-depth probe), XBT (expendable bathythermograph), and a towed ADCP (acoustic Doppler current profiler). This is an observation in the research project ASUKA (Affiliated Surveys of the Kuroshio off Cape Ashizuri) directed by Dr. S. Imawaki. A similar observation except a towed ADCP had been made at KH-94-3 in September 1994, in which nine moorings were recovered and deployed. The present observation was made at the middle time point until the final recovery of the moorings in November 1995. This enhances an importance of this observation. In leg 2 we recovered and deployed moorings of multipath IES (inverted echo sounder) which were designed as monitoring systems of the Kuroshio current over the Izu Ridge. These measurements of the Kuroshio south of Shikoku and over the Izu Ridge were made as part of the International Cooperative Research Programme on Global Ocean Observing System sponsored by the Ministry of Education, Science, Sports and Culture, Japan.

The other main subject is to study deep currents and distributions of typical water masses in the eastern

region of the Izu Ridge. For this purpose, we did mooring works at the Japan Trench and made many casts of CTD and XBT along a rectangle of 140°30'E-156°E and 30°N-34°N in leg 2. The deep currents coming from the South Pacific flow in this rectangle area. The North Pacific Intermediate Water and the Subtropical Mode Water are formed just north of this area and spread over the area mainly due to an advection by the subtropical gyre in the North Pacific. Therefore, the observation data in this cruise are quite valuable for study of the ocean general circulations.

Most of the planned observations were well done in this cruise. I thank Captain Y. Jinno and the crews of Hakuho Maru for their cooperation throughout the cruise and the scientists aboard for their efforts to have high-quality datasets.

Masaki Kawabe
Chief scientist
of the Cruise KH-95-1

1. Objectives of the cruise

Study objectives are as follows.

1) To measure volume and heat transports of the Kuroshio and its countercurrent at the ASUKA line off Cape Ashizuri in Shikoku, Japan
(CTD at AS01-AS26, XBT at XAS01-XAS26, current measurements with a towed ADCP)

2) To study observing systems of volume and heat transports of the Kuroshio and water temperatures over the Izu Ridge
(moorings of multipath IES and current meter at S1-S4 and IESA-IESC, XBT at XS1-XS4 and XIESA-XIESC)

3) To study deep circulations and water masses in the eastern region of the Izu Ridge (moored current meters at TR1-TR3, CTD at PC01-PC60)

4) To study the distribution, flow, and mixing of the Subtropical Mode Water
(CTD at PC01-PC60, XBT at X01-X64)

5) To study the energy balance at the sea surface and water temperature in the ocean upper layer in the western North Pacific (XBT at X01-X64)

6) To estimate variations of Kuroshio transport in a surface layer using data from satellites
(receiving NOAA AVHRR data at Hakuho Maru)

7) To study the effects of continental aerosol particles on the large-scale distribution of aerosol

2. Summary of the measurements

$CTDO_2$, Water Sample

[Casts]

$CTDO_2$ casts down to the sea bottom were carried out at 88 stations: 28 at the ASUKA line (leg 1) and 60 over and east of the Izu Ridge (leg 2). Water samples were collected at almost all the casts: those for the measurement of conductivity and oxygen were at all the sampled stations, and those for nutrients were at 60 stations.

The continuous $CTDO_2$ data at AS04 are deleted in the final dataset, since the conductivities during the lowering stage of the cast are awfully bad. Still, the data from water samples and CTD at the sampling time at AS04 are available. The $CTDO_2$ casts at AS21 and AS25 were replaced by XBT due to lack of ship time.

[Instruments]

The CTD is Sea-Bird Electronics instrument equipped with a dissolved oxygen sensor. The conductivity sensor is manufactured by Sea-Bird Electronics Inc. (SBE 4) who claims a resolution of 0.0004 mmho/cm and an accuracy of ±0.003 mmho/cm. The temperature sensor is manufactured by Sea-Bird Electronics Inc. (SBE 3) who claims a resolution of 0.0002°C and an initial accuracy of ±0.002°C. The pressure sensor is manufactured by Paroscientific Digiquartz (Model 4xK) with a resolution of 0.001% of full scale and an accuracy of ±0.015% of full scale (6000 db range). The oxygen sensor is manufactured by Sea-Bird Electronics Inc. (SBE 13).

Waters were sampled from 12-liter Niskin bottles mounted at 24 places on a Sea-Bird Electronics Carousel

Water Sampler (SBE 32).

[CTD Data Collection]

Full signals of frequency, digitized 24 times per second and sent from the underwater CTD unit SBE 9 plus (Sea-Bird Electronics Inc.), were received with the onboard unit SBE 11 plus and converted to output sequences of IEEE-488 (GPIB). The data were collected with the Sea-Bird Electronics CTD operating software, SEASOFT Version 4.207, using an IBM-compatible personal computer JD1994DX2-66 (PROSIDE Corp.) with a 215 MByte hard disc which was connected to the onboard unit by a GPIB cable. The full signals of frequency were put into the hard disc during the lowering stage of cast and then were stored in magnetic optical dicks at the deepest point of the cast.

[CTDO_2 Calibration]

The conductivity, temperature, and oxygen sensors of CTDO_2 were calibrated by Sea-Bird Electronics Inc. just before the cruise. The obtained calibration coefficients for conductivity and temperature were used in the CTD operating software SEASOFT. The oxygen sensor was renewed.

The conductivity data were moreover calibrated at sea using the data from the analysis of water samples collected at each station. The ratio of conductivity from water sample to that from CTD, called cell factor (CF), was calculated for each water sample. The cell factor is close to 1, but a little changes vertically. The depth dependance was expressed by the following polynomials of pressure P (db),

$$CF = 1.000237 - 0.7299904\times10^{-7}\cdot P + 0.1052790\times10^{-10}\cdot P^2$$

for leg 1,

$$CF = 1.000272 + 0.3101236\times10^{-7}\cdot P - 0.4497815\times10^{-10}\cdot P^2 + 0.9424885\times10^{-14}\cdot P^3 - 0.5407104\times10^{-18}\cdot P^4$$

for PC01-PC30 in leg 2,

$$CF = 1.000261 + 0.7023192\times10^{-8}\cdot P - 0.2032413\times10^{-10}\cdot P^2 + 0.2885484\times10^{-14}\cdot P^3$$

for PC31-PC60 in leg 2.

Final calibration for conductivity data was made with the cell factors computed from the above equations.

For the pressure data, the zero point was corrected; that is, the value indicated by the pressure sensor in the air was subtracted from the pressure values measured in the sea. The value in the air was -2.1 db for both leg 1 and leg 2.

The oxygen data were calibrated along the method in the WOCE (World Ocean Circulation Experiment) Operations Manual, WOCE Hydrographic Programme Office Report WHPO 91-1, WOCE Report No. 68/91. The algorithm for converting the polarographic oxygen sensor oxygen current and probe temperature measurements to oxygen is

$$O_x = \left[A(O_c + B\frac{dO_c}{dt}) + C\right] O_x^*(T,S)e^{D[T+E(T_o-T)]+FP}$$

where O_x is oxygen (ml/l), O_c is the oxygen current measurement (mA), T_0 is the oxygen sensor temperature (°C), T, S and P are CTD temperature (°C), salinity (psu) and pressure (db), $O_x^*(T,S)$ is the oxygen saturation value for T and S, and t is time (sec). Six parameters A-F were determined with a nonlinear least squares fitting to the water-sample oxygen values measured by titration. The fitting procedure was done for each of the three groups of CTD stations, AS01-AS26, PC01-PC30, and PC31-PC58. The results of the parameters and the root mean squares of the difference

between the calculated oxygen sensor value and the titrated water sample value are as follows.

group	*A*	*B*	*C*	*D*	*E*	*F*	RMS
AS01-AS26	2.54	15.94	-0.0008	-0.0031	1.40	0.00015	0.04
PC01-PC30	2.60	17.49	0.0025	-0.0031	1.40	0.00015	0.03
PC31-PC56	2.62	20.85	0.0013	-0.0030	1.45	0.00014	0.03

The values of E are too large for every groups, though it should be between 0 and 1.

[Water-Sample Analysis]

Conductivities of water samples were measured with a Guildline Portasal Model 8410 salinometer which was standardized by IAPSO Standard Sea Water Batch P-124 (AS01-AS06, PC01, PC18) and P-127 (other stations). The measurement was done in a laboratory in which air temperature was controlled (±1°C) and maintained to a little lower than water temperature in the salinometer water bath.

Oxygens of water samples were measured using an automated titration instrument. Nutrients were measured with a Bran Luebe auto analyzer.

XBT

We made 47 casts of XBT in leg 1 with T-7 XBT probes (AS21X, AS25X, XAS01-XAS26) and 71 casts in leg 2 with T-5 probes (XIESA-XIESC, XS1-XS4, X01-X30, X32) and T-7 probes (X31, X33-X64).

The depth of a falling XBT probe, z (m), was converted from the elapse time after the probe reaches the sea surface, t (sec), using the following equations:

$$z = 6.828 \cdot t - 0.00182 \cdot t^2 \quad \text{for T-5 probes}$$

(provided by the XBT manufacturer)

$$z = 6.691 \cdot t - 0.00225 \cdot t^2 \quad \text{for T-7 probes}$$

(new equation authorized by UNESCO/IOC).

However, the old equation for T-7 probes

$$z = 6.472 \cdot t - 0.00216 \cdot t^2$$

was used for T-7 in leg 2, since the data in leg 2 were processed during the cruise when the new equation had not been authorized.

Mooring

[Izu Ridge]

Three moorings of multipath IES were recovered at IESA-IESC, and four similar moorings were deployed at S1-S4 just east of Miyake-jima.

[34°N at the Japan Trench]

The mooring of current meters at TR1 was recovered, and a little different mooring was deployed. Recovery of the mooring at TR2 failed unfortunately, but a mooring of current meters were newly deployed at TR3.

Towed ADCP

The velocity measurement by towed ADCP was started at 9:25 on 18 May from Sta. AS26 toward the shore along the ASUKA line. The ship speed was selected to be nine knot. The measurement was initially successful, but the signal stopped at 21:15 (26°44'N, 136°12'E). The towed ADCP was promptly recovered and checked on board. The causes for the shutdown were a cutoff of the cable

for data transfer and a blowout of a fuse in the ADCP. The ship still moved toward the shore during the repair, then the ADCP was deployed again at 8:35 on 19 May (28°21'N, 135°22'E), and the measurement was resumed. The ship speed was decreased to eight knot in order to reduce a possibility of a cuttoff of the cable. At 21:57 (30°17'N, 134°23'E), the towed body of ADCP inclined with a rolling angle of 17°, since a float came off. However, the measurement was continued to Sta. AS01, and the instrument was recovered there at 14:02 on 20 May.

In this measurement, we obtained the data of current velocity in the surface layer over three quarters of the ASUKA line between AS01 and AS26.

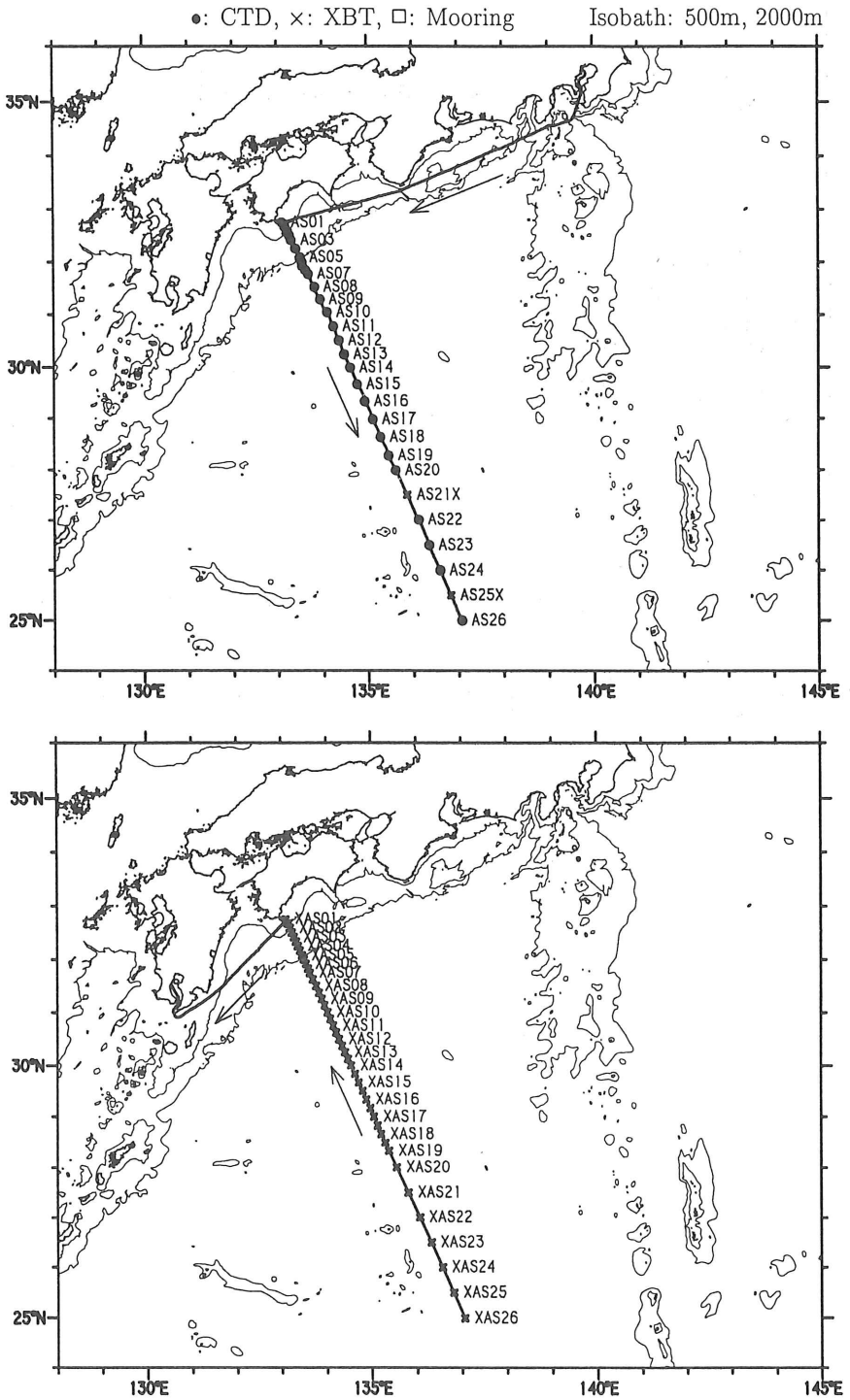
3. List of Scientists Aboard

KAWABE, Masaki	Ocean Research Institute, University of Tokyo
FUJIO, Shinzou	Ocean Research Institute, University of Tokyo
YANAGIMOTO, Daigo	Ocean Research Institute, University of Tokyo
KITAGAWA, Shoji	Ocean Research Institute, University of Tokyo
WATANABE, Masaharu	Ocean Research Institute, University of Tokyo
OKA, Eitaro	Ocean Research Institute, University of Tokyo
HASHIMOTO, Tsuyoshi	Ocean Research Institute, University of Tokyo
YAMADA Shingi	Ocean Research Institute, University of Tokyo
SUGA, Toshio*2	Faculty of Science, Tohoku University
TONOUCHI, Masayuki	Faculty of Science, Tohoku University
HAMASHIMA, Michihiro*1	Center for Atmospheric and Oceanic Studies, Tohoku University
MURAKAMI, Hiroshi*1	Center for Atmospheric and Oceanic Studies, Tohoku University
KAWAMIYA, Michio	Center for Climate System Research, University of Tokyo
TAKEUCHI, Tomoyoshi*2	University of Electro-Communications
KISHIDA, Tomoyuki*2	University of Electro-Communications
TOKUDA, Masafumi*1	Faculty of Science, Science University of Tokyo
ISOZAKI, Yuichi	Tokyo University of Mercantile Marine
HATANO, Takayuki	Kobe University of Mercantile Marine
GODA, Noriaki*1	Faculty of Engineering, Hiroshima University
SUZUKI, Maki*1	Faculty of Engineering, Hiroshima University
TSUJIMOTO, Shinsuke*1	Faculty of Engineering, Hiroshima University
IMAWAKI, Shiro*1	Research Institute for Applied Mechanics, Kyushu University
UMATANI, Shin-ichiro	Research Institute for Applied Mechanics, Kyushu University
AOKI, Shigeru	Research Institute for Applied Mechanics, Kyushu University
UCHIDA, Hiroshi	Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
HASHIBE, Yuji	Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
ICHIKAWA, Hiroshi*1	Faculty of Fisheries, Kagoshima University
NINOMIYA, Mitsuhisa	Faculty of Fisheries, Kagoshima University
HAMA, Kazuhiro	Faculty of Fisheries, Kagoshima University
ICHIKAWA, Toshihiro*1	Faculty of Science, Kagoshima University
KAWAMURA, Nobuko	Faculty of Science, Kagoshima University

*1 Participating Leg-1
*2 Participating Leg-2

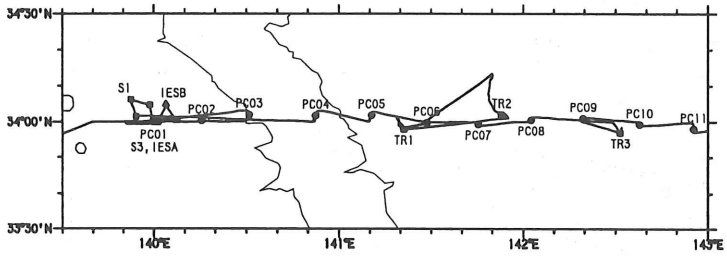
4. Track Charts

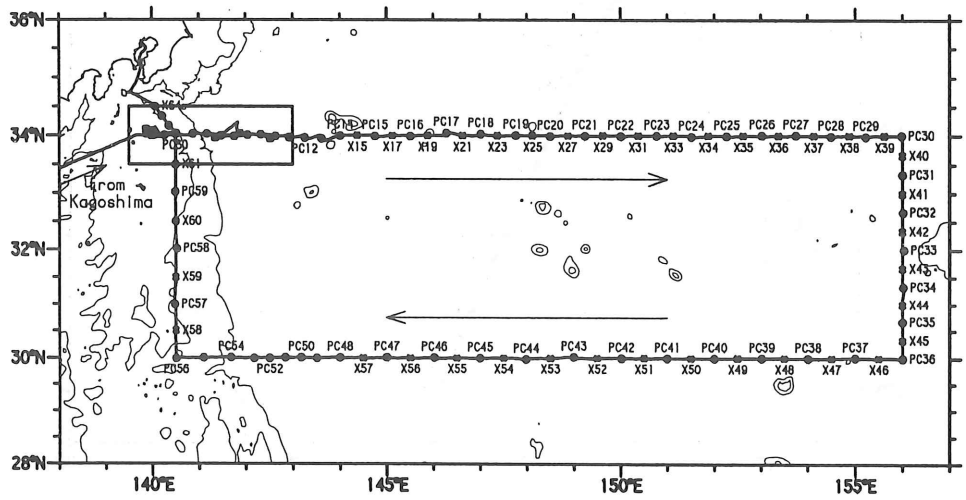
Leg–1 (ASUKA line)



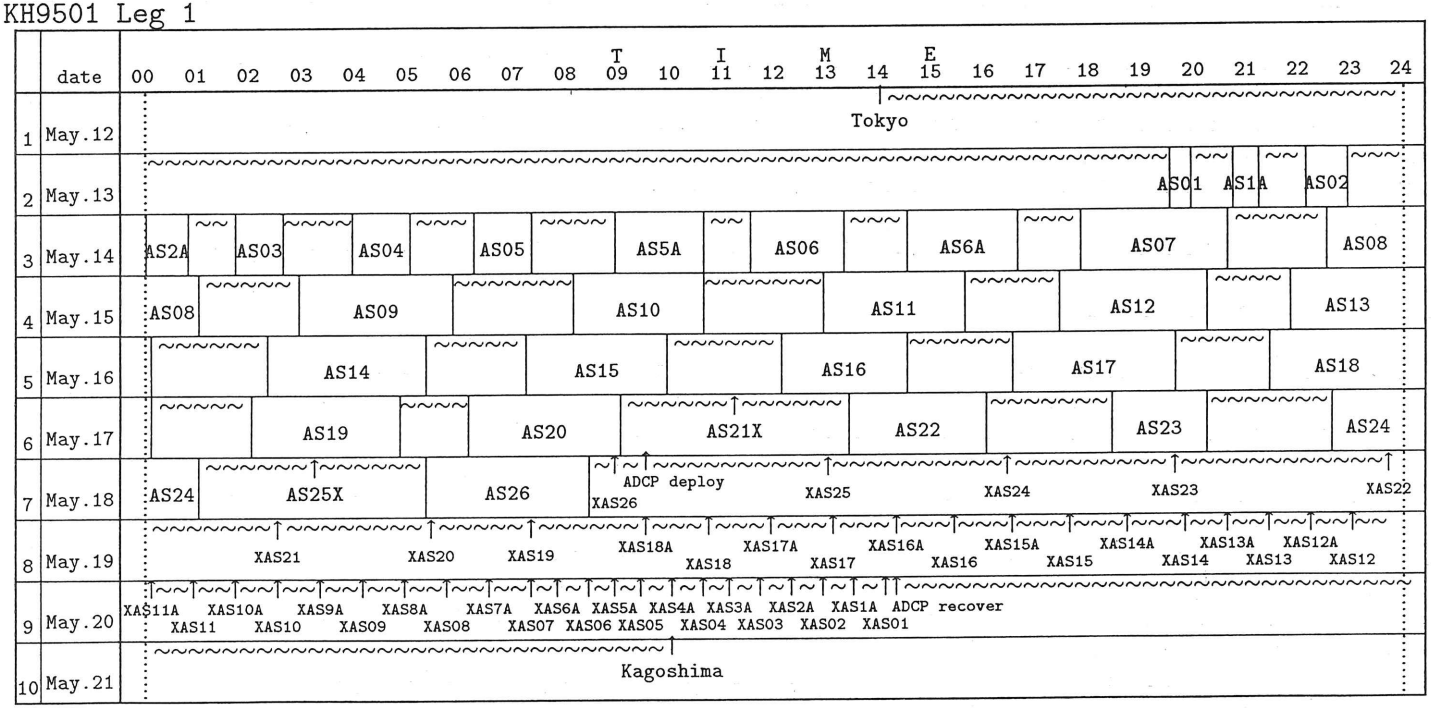
Leg–2

●: CTD, ×: XBT, □: Mooring　　Isobath: 2000m, 4000m

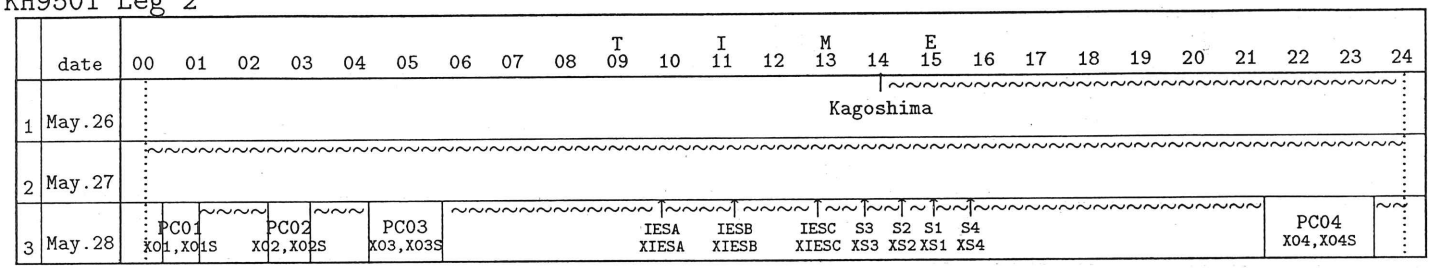


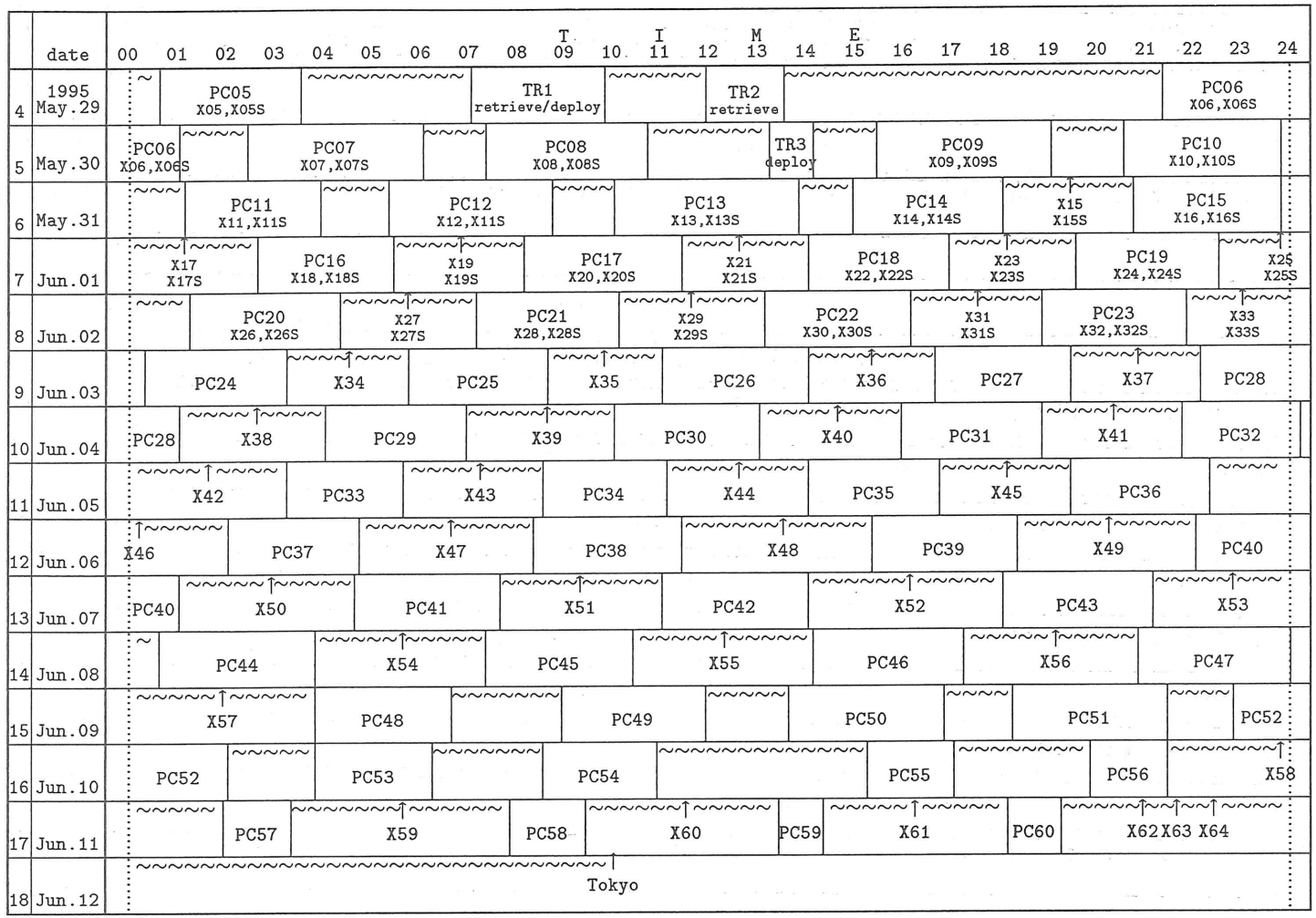


KH9501 Leg 1



KH9501 Leg 2




date
00 01 02 03 04 05 06 07 08 T 09 10 I 11 12 M 13 14 E 15 16 17 18 19 20 21 22 23 24
4 1995 May.29
PC05 X05,X05S
TR1 retrieve/deploy
TR2 retrieve
PC06 X06,X06S
5 May.30
PC06 X06,X06S
PC07 X07,X07S
PC08 X08,X08S
TR3 deploy
PC09 X09,X09S
PC10 X10,X10S
6 May.31
PC11 X11,X11S
PC12 X12,X11S
PC13 X13,X13S
PC14 X14,X14S
X15 X15S
PC15 X16,X16S
7 Jun.01
X17 X17S
PC16 X18,X18S
X19 X19S
PC17 X20,X20S
X21 X21S
PC18 X22,X22S
X23 X23S
PC19 X24,X24S
X25 X25S
8 Jun.02
PC20 X26,X26S
X27 X27S
PC21 X28,X28S
X29 X29S
PC22 X30,X30S
X31 X31S
PC23 X32,X32S
X33 X33S
9 Jun.03
PC24
X34
PC25
X35
PC26
X36
PC27
X37
PC28
10 Jun.04
PC28
X38
PC29
X39
PC30
X40
PC31
X41
PC32
11 Jun.05
X42
PC33
X43
PC34
X44
PC35
X45
PC36
12 Jun.06
X46
PC37
X47
PC38
X48
PC39
X49
PC40
13 Jun.07
PC40
X50
PC41
X51
PC42
X52
PC43
X53
14 Jun.08
PC44
X54
PC45
X55
PC46
X56
PC47
15 Jun.09
X57
PC48
PC49
PC50
PC51
PC52
16 Jun.10
PC52
PC53
PC54
PC55
PC56
X58
17 Jun.11
PC57
X59
PC58
X60
PC59
X61
PC60
X62 X63 X64
18 Jun.12
Tokyo

6. Summary of Observation Stations

STNNBR: Station number
TYPE: CTD=CTDO only, ROS=CTDO plus Rosette water sampler
MOR=Mooring, XBT=XBT, ADCP=towed acoustic doppler current profiler
CODE: BE=Beginning of cast or mooring deployment, BO=Bottom time for cast,
EN=Time cast completed
DE=Time mooring, or XBT was deployed, RE=Time mooring was recovered
BOTDEP: Bottom depth in meters
MAXPRS: Maximum pressure in decibars
PARAM: Sampling Parameters: S=Salinity, O=Dissolved oxygen, N=Nutrients

KH9501 Leg 1

STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
AS01	ROS	05/13/95	10:29	BE	32°44.91'N	133°05.96'E	173		
AS01	ROS	05/13/95	10:44	BO	32°44.82'N	133°06.01'E	141	123	S,O,N
AS01	ROS	05/13/95	10:53	EN	32°44.72'N	133°06.12'E	234		
AS01A	ROS	05/13/95	11:42	BE	32°39.86'N	133°09.24'E	345		
AS01A	ROS	05/13/95	11:56	BO	32°39.95'N	133°09.44'E	217	204	S,O
AS01A	ROS	05/13/95	12:12	EN	32°39.85'N	133°09.24'E	327		
AS02	ROS	05/13/95	13:04	BE	32°34.81'N	133°12.07'E	572		
AS02	ROS	05/13/95	13:30	BO	32°34.98'N	133°13.03'E	814	723	S,O,N
AS02	ROS	05/13/95	13:50	EN	32°35.04'N	133°13.39'E	828		
AS02A	ROS	05/13/95	15:00	BE	32°30.16'N	133°14.68'E	744		
AS02A	ROS	05/13/95	15:24	BO	32°30.38'N	133°15.58'E	725	713	S,O
AS02A	ROS	05/13/95	15:48	EN	32°30.35'N	133°16.09'E	719		
AS03	ROS	05/13/95	16:42	BE	32°24.69'N	133°17.23'E	965		
AS03	ROS	05/13/95	17:10	BO	32°24.92'N	133°17.98'E	954	893	S,O,N
AS03	ROS	05/13/95	17:33	EN	32°25.01'N	133°18.44'E	949		
AS04	ROS	05/13/95	18:53	BE	32°14.94'N	133°23.05'E	1164		
AS04	ROS	05/13/95	19:32	BO	32°15.39'N	133°23.71'E	1146	1125	S,O
AS04	ROS	05/13/95	19:58	EN	32°15.49'N	133°23.90'E	1127		
AS05	ROS	05/13/95	21:10	BE	32°04.86'N	133°29.09'E	1952		
AS05	ROS	05/13/95	22:08	BO	32°05.40'N	133°29.72'E	1839	1806	S,O,N
AS05	ROS	05/13/95	22:16	EN	32°05.42'N	133°29.76'E	1831		
AS05A	ROS	05/13/95	23:51	BE	31°59.77'N	133°31.73'E	2334		
AS05A	ROS	05/14/95	00:50	BO	32°00.22'N	133°31.97'E	2278	2232	S,O
AS05A	ROS	05/14/95	01:34	EN	32°00.54'N	133°32.31'E	2259		
AS06	ROS	05/14/95	02:28	BE	31°54.96'N	133°32.85'E	2820		
AS06	ROS	05/14/95	03:37	BO	31°55.38'N	133°32.53'E	2934	2943	S,O
AS06	ROS	05/14/95	04:18	EN	31°55.66'N	133°32.61'E	2905		
AS06A	ROS	05/14/95	05:28	BE	31°50.15'N	133°36.87'E	3604		
AS06A	ROS	05/14/95	06:44	BO	31°50.71'N	133°36.97'E	3759	3760	S,O
AS06A	ROS	05/14/95	07:33	EN	31°50.82'N	133°36.89'E	3744		
AS07	ROS	05/14/95	08:46	BE	31°45.42'N	133°39.81'E	4406		
AS07	ROS	05/14/95	10:27	BO	31°46.54'N	133°40.25'E	4315	4327	S,O,N
AS07	ROS	05/14/95	11:32	EN	31°46.76'N	133°40.13'E	5471		
AS08	ROS	05/14/95	13:28	BE	31°30.60'N	133°48.28'E	4851		
AS08	ROS	05/14/95	14:58	BO	31°31.70'N	133°48.61'E	4852	4923	S,O
AS08	ROS	05/14/95	16:02	EN	31°32.22'N	133°49.16'E	8341		
AS09	ROS	05/14/95	17:55	BE	31°15.40'N	133°55.82'E	4548		
AS09	ROS	05/14/95	19:35	BO	31°17.25'N	133°56.02'E	4549	4542	S,O
AS09	ROS	05/14/95	20:51	EN	31°17.89'N	133°56.17'E	4544		
AS10	ROS	05/14/95	23:07	BE	31°00.88'N	134°04.64'E	7920		
AS10	ROS	05/15/95	00:36	BO	31°02.51'N	134°05.60'E	4450	4426	S,O,N
AS10	ROS	05/15/95	01:38	EN	31°02.84'N	134°06.21'E	4631		
AS11	ROS	05/15/95	03:55	BE	30°45.11'N	134°12.07'E	4607		
AS11	ROS	05/15/95	05:32	BO	30°46.37'N	134°13.98'E	4452	4514	S,O
AS11	ROS	05/15/95	06:39	EN	30°46.70'N	134°14.87'E	4454		
AS12	ROS	05/15/95	08:26	BE	30°30.16'N	134°20.30'E	4548		
AS12	ROS	05/15/95	10:04	BO	30°30.39'N	134°21.25'E	4510	4599	S,O,N
AS12	ROS	05/15/95	11:13	EN	30°30.23'N	134°21.76'E	4509		
AS13	ROS	05/15/95	12:48	BE	30°14.56'N	134°28.01'E	4442		
AS13	ROS	05/15/95	14:11	BO	30°14.49'N	134°28.16'E	4414	4542	S,O

STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
AS13	ROS	05/15/95	15:08	EN	30°14.22′N	134°28.60′E	4358		
AS14	CTD	05/15/95	17:17	BE	30°00.00′N	134°35.96′E	4630		
AS14	CTD	05/15/95	18:56	BO	29°59.17′N	134°36.02′E	4414		
AS14	CTD	05/15/95	20:15	EN	29°58.88′N	134°36.07′E	4553		
AS15	CTD	05/15/95	22:10	BE	29°40.02′N	134°45.86′E	4607		
AS15	CTD	05/15/95	23:56	BO	29°39.49′N	134°45.38′E	4450		
AS15	CTD	05/16/95	00:54	EN	29°39.41′N	134°45.35′E	4646		
AS16	CTD	05/16/95	03:04	BE	29°19.87′N	134°56.09′E	4851		
AS16	CTD	05/16/95	04:31	BO	29°19.62′N	134°55.62′E	4842		
AS16	CTD	05/16/95	05:30	EN	29°19.33′N	134°55.63′E	4844		
AS17	ROS	05/16/95	07:29	BE	28°59.24′N	135°07.44′E	4856		
AS17	ROS	05/16/95	09:15	BO	28°58.85′N	135°06.50′E	4740	4656	S,O,N
AS17	ROS	05/16/95	10:34	EN	28°58.11′N	135°06.32′E	4849		
AS18	ROS	05/16/95	12:26	BE	28°39.22′N	135°17.41′E	4951		
AS18	ROS	05/16/95	14:02	BO	28°38.42′N	135°16.80′E	4950	5005	S,O,N
AS18	ROS	05/16/95	15:09	EN	28°38.21′N	135°16.41′E	4943		
AS19	ROS	05/16/95	17:00	BE	28°17.90′N	135°27.89′E	7359		
AS19	ROS	05/16/95	18:35	BO	28°16.46′N	135°27.63′E	4919	5064	S,O
AS19	ROS	05/16/95	19:45	EN	28°16.10′N	135°27.14′E	5330		
AS20	ROS	05/16/95	21:08	BE	27°59.83′N	135°37.02′E	5717		
AS20	ROS	05/16/95	22:53	BO	27°59.13′N	135°36.88′E	5260	5339	S,O,N
AS20	ROS	05/17/95	00:00	EN	27°59.01′N	135°37.21′E	5307		
AS21X	XBT	05/17/95	02:11	BE	27°30.00′N	135°52.00′E	5300		
AS22	ROS	05/17/95	04:20	BE	26°59.85′N	136°06.00′E	5219		
AS22	ROS	05/17/95	05:51	BO	27°00.19′N	136°06.87′E	5715	4721	S,O,N
AS22	ROS	05/17/95	06:59	EN	27°00.80′N	136°07.40′E	4719		
AS23	ROS	05/17/95	09:20	BE	26°29.93′N	136°20.98′E	4656		
AS23	ROS	05/17/95	10:27	BO	26°29.60′N	136°20.51′E	4821	3008	S,O,N
AS23	ROS	05/17/95	11:09	EN	26°29.37′N	136°20.41′E	4642		
AS24	ROS	05/17/95	13:35	BE	25°59.84′N	136°34.95′E	4763		
AS24	ROS	05/17/95	14:56	BO	25°59.70′N	136°34.91′E	4863	4866	S,O,N
AS24	ROS	05/17/95	16:00	EN	25°59.21′N	136°34.95′E	4802		
AS25X	XBT	05/17/95	18:10	BE	25°30.00′N	136°49.00′E	5000		
AS26	ROS	05/17/95	20:15	BE	24°59.74′N	137°03.18′E	4959		
AS26	ROS	05/17/95	22:15	BO	24°59.88′N	137°03.85′E	5162	5163	S,O,N
AS26	ROS	05/17/95	23:19	EN	24°59.96′N	137°03.64′E	5309		
ASUKA	ADCP	05/18/95	00:30	DE	25°00.81′N	137°03.74′E	5351		
XAS26	XBT	05/17/95	23:53	DE	24°59.58′N	137°03.61′E	5375		
XAS25	XBT	05/18/95	03:58	DE	25°30.05′N	136°48.93′E	5255		
XAS24	XBT	05/18/95	07:24	DE	26°00.28′N	136°33.93′E	4940		
XAS23	XBT	05/18/95	10:39	DE	26°30.05′N	136°19.13′E	5136		
XAS22	XBT	05/18/95	14:43	DE	26°59.92′N	136°04.20′E	4771		
XAS22	XBT	05/18/95	14:45	DE	27°00.38′N	136°03.99′E	4563		
XAS21	XBT	05/18/95	17:28	DE	27°30.08′N	135°49.01′E	4716		
XAS20	XBT	05/18/95	20:23	DE	28°00.25′N	135°33.79′E	4715		
XAS19	XBT	05/18/95	22:18	DE	28°19.98′N	135°23.63′E	5027		
XAS18A	XBT	05/19/95	00:33	DE	28°29.87′N	135°18.47′E	5006		
XAS18	XBT	05/19/95	01:48	DE	28°39.82′N	135°12.90′E	4742		
XAS17A	XBT	05/19/95	03:00	DE	28°50.07′N	135°08.42′E	4917		
XAS17	XBT	05/19/95	04:09	DE	29°00.04′N	135°03.41′E	4948		
XAS16A	XBT	05/19/95	05:18	DE	29°10.07′N	134°58.23′E	4746		
XAS16	XBT	05/19/95	06:27	DE	29°20.06′N	134°53.09′E	4810		
XAS15A	XBT	05/19/95	07:35	DE	29°30.02′N	134°47.97′E	4604		
XAS15	XBT	05/19/95	08:42	DE	29°40.10′N	134°42.80′E	4742		
XAS14A	XBT	05/19/95	09:49	DE	29°50.11′N	134°37.66′E	4742		
XAS14	XBT	05/19/95	10:55	DE	29°59.95′N	134°32.53′E	4670		
XAS13A	XBT	05/19/95	11:46	DE	30°07.50′N	134°28.66′E	4605		
XAS13	XBT	05/19/95	12:36	DE	30°15.05′N	134°24.76′E	4542		
XAS12A	XBT	05/19/95	13:25	DE	30°22.54′N	134°20.92′E	5610		
XAS12	XBT	05/19/95	14:16	DE	30°29.99′N	134°16.96′E	4543		
XAS11A	XBT	05/19/95	15:07	DE	30°37.77′N	134°12.95′E	4411		
XAS11	XBT	05/19/95	15:55	DE	30°45.09′N	134°09.16′E	4450		
XAS10A	XBT	05/19/95	16:44	DE	30°52.62′N	134°05.23′E	4440		
XAS10	XBT	05/19/95	17:30	DE	31°00.08′N	134°01.35′E	4442		
XAS09A	XBT	05/19/95	18:16	DE	31°07.72′N	133°57.40′E	4506		
XAS09	XBT	05/19/95	19:02	DE	31°15.07′N	133°53.50′E	4554		

STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
XAS08A	XBT	05/19/95	19:48	DE	31°22.28′N	133°49.71′E	4710		
XAS08	XBT	05/19/95	20:39	DE	31°30.17′N	133°45.67′E	4859		
XAS07A	XBT	05/19/95	21:26	DE	31°37.57′N	133°41.60′E	4847		
XAS07	XBT	05/19/95	22:13	DE	31°44.86′N	133°37.50′E	4446		
XAS06A	XBT	05/19/95	22:43	DE	31°49.82′N	133°35.22′E	3715		
XAS06	XBT	05/19/95	23:17	DE	31°55.17′N	133°32.38′E	2807		
XAS05A	XBT	05/19/95	23:48	DE	31°59.95′N	133°29.84′E	2411		
XAS05	XBT	05/20/95	00:19	DE	32°04.81′N	133°27.27′E	2126		
XAS04A	XBT	05/20/95	00:52	DE	32°09.91′N	133°24.57′E	1457		
XAS04	XBT	05/20/95	01:26	DE	32°15.04′N	133°21.83′E	1254		
XAS03A	XBT	05/20/95	01:58	DE	32°19.87′N	133°19.27′E	1203		
XAS03	XBT	05/20/95	02:32	DE	32°24.91′N	133°16.69′E	955		
XAS02A	XBT	05/20/95	03:06	DE	32°30.12′N	133°14.07′E	813		
XAS02	XBT	05/20/95	03:40	DE	32°35.02′N	133°11.37′E	574		
XAS01A	XBT	05/20/95	04:15	DE	32°39.99′N	133°08.77′E	213		
XAS01	XBT	05/20/95	04:51	DE	32°45.00′N	133°05.91′E	151		
ASUKA	ADCP	05/20/95	05:02	RE	32°45.74′N	133°05.62′E	133		

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STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
X01	XBT	05/27/95	15:16	DE	34°00.38′N	139°59.85′E	1088		
X01S	XBT	05/27/95	15:23	DE	34°00.47′N	139°59.86′E	1090		
PC01	ROS	05/27/95	15:24	BE	34°00.47′N	139°59.86′E	1091		
PC01	ROS	05/27/95	15:38	BO	34°00.59′N	139°59.93′E	1095	1067	S,O,N
PC01	ROS	05/27/95	15:59	EN	34°00.72′N	140°00.07′E	1098		
PC02	ROS	05/27/95	17:15	BE	34°00.09′N	140°15.22′E	1167		
X02	XBT	05/27/95	17:19	DE	34°00.24′N	140°15.35′E	1179		
X02S	XBT	05/27/95	17:25	DE	34°00.32′N	140°15.50′E	1185		
PC02	ROS	05/27/95	17:41	BO	34°00.28′N	140°15.60′E	1188	1161	S,O
PC02	ROS	05/27/95	18:04	EN	34°00.25′N	140°15.81′E	1196		
PC03	ROS	05/27/95	19:08	BE	34°03.00′N	140°30.00′E	2050		
X03	XBT	05/27/95	19:08	DE	34°00.40′N	140°30.30′E	2045		
X03S	XBT	05/27/95	19:14	DE	34°00.68′N	140°30.36′E	2071		
PC03	ROS	05/27/95	20:01	BO	34°02.00′N	140°31.00′E	2105	2076	S,O,N
PC03	ROS	05/27/95	20:35	EN	34°02.45′N	140°30.54′E	2132		
IESA	MOR	05/28/95	00:43	RE	33°59.81′N	140°01.09′E	1060		
XIESA	XBT	05/28/95	00:45	DE	33°59.82′N	140°01.08′E	1060		
IESB	MOR	05/28/95	02:10	RE	34°04.89′N	140°03.87′E	1264		
XIESB	XBT	05/28/95	02:10	DE	34°04.89′N	140°03.86′E	1264		
IESC	MOR	05/28/95	03:44	RE	34°00.33′N	140°07.40′E	1035		
XIESC	XBT	05/28/95	03:46	DE	34°00.34′N	140°07.33′E	1037		
S3	MOR	05/28/95	04:40	DE	33°59.94′N	139°59.99′E	1071		
XS3	XBT	05/28/95	04:40	DE	33°59.93′N	139°59.99′E	1071		
S2	MOR	05/28/95	05:20	DE	34°04.69′N	139°58.68′E	1197		
XS2	XBT	05/28/95	05:21	DE	34°04.74′N	139°58.65′E	1196		
S1	MOR	05/28/95	05:57	DE	34°06.24′N	139°52.51′E	1116		
XS1	XBT	05/28/95	05:57	DE	34°06.26′N	139°52.48′E	1116		
S4	MOR	05/28/95	06:37	DE	34°01.47′N	139°54.27′E	1175		
XS4	XBT	05/28/95	06:37	DE	34°01.48′N	139°54.27′E	1174		
PC04	ROS	05/28/95	12:10	BE	33°59.91′N	140°51.82′E	3206		
X04	XBT	05/28/95	12:13	DE	34°00.23′N	140°51.90′E	3245		
X04S	XBT	05/28/95	12:21	DE	34°00.47′N	140°51.97′E	3287		
PC04	ROS	05/28/95	13:22	BO	34°01.71′N	140°52.48′E	3427	3332	S,O,N
PC04	ROS	05/28/95	14:16	EN	34°02.36′N	140°52.89′E	3402		
PC05	ROS	05/28/95	15:38	BE	33°59.95′N	141°10.01′E	4652		
X05	XBT	05/28/95	15:51	DE	34°00.44′N	141°09.91′E	4629		
X05S	XBT	05/28/95	15:59	DE	34°00.68′N	141°09.96′E	4691		
PC05	ROS	05/28/95	17:22	BO	34°01.80′N	141°10.66′E	4799	4895	S,O
PC05	ROS	05/28/95	18:30	EN	34°02.50′N	141°11.17′E	4870		
TR1	MOR	05/28/95	20:30	RE	33°58.54′N	141°20.75′E	6250		
TR1	MOR	05/29/95	00:45	DE	33°57.78′N	141°21.08′E	6226		
TR2	MOR	05/29/95	02:57	RE	34°02.04′N	141°52.92′E	8962		
PC06	CTD	05/29/95	12:23	BE	34°00.17′N	141°28.38′E	7117		
X06	XBT	05/29/95	12:31	DE	34°00.20′N	141°28.45′E	7174		
X06S	XBT	05/29/95	12:39	DE	34°00.22′N	141°28.53′E	7177		
PC06	CTD	05/29/95	14:34	BO	33°59.75′N	141°28.51′E	7174		

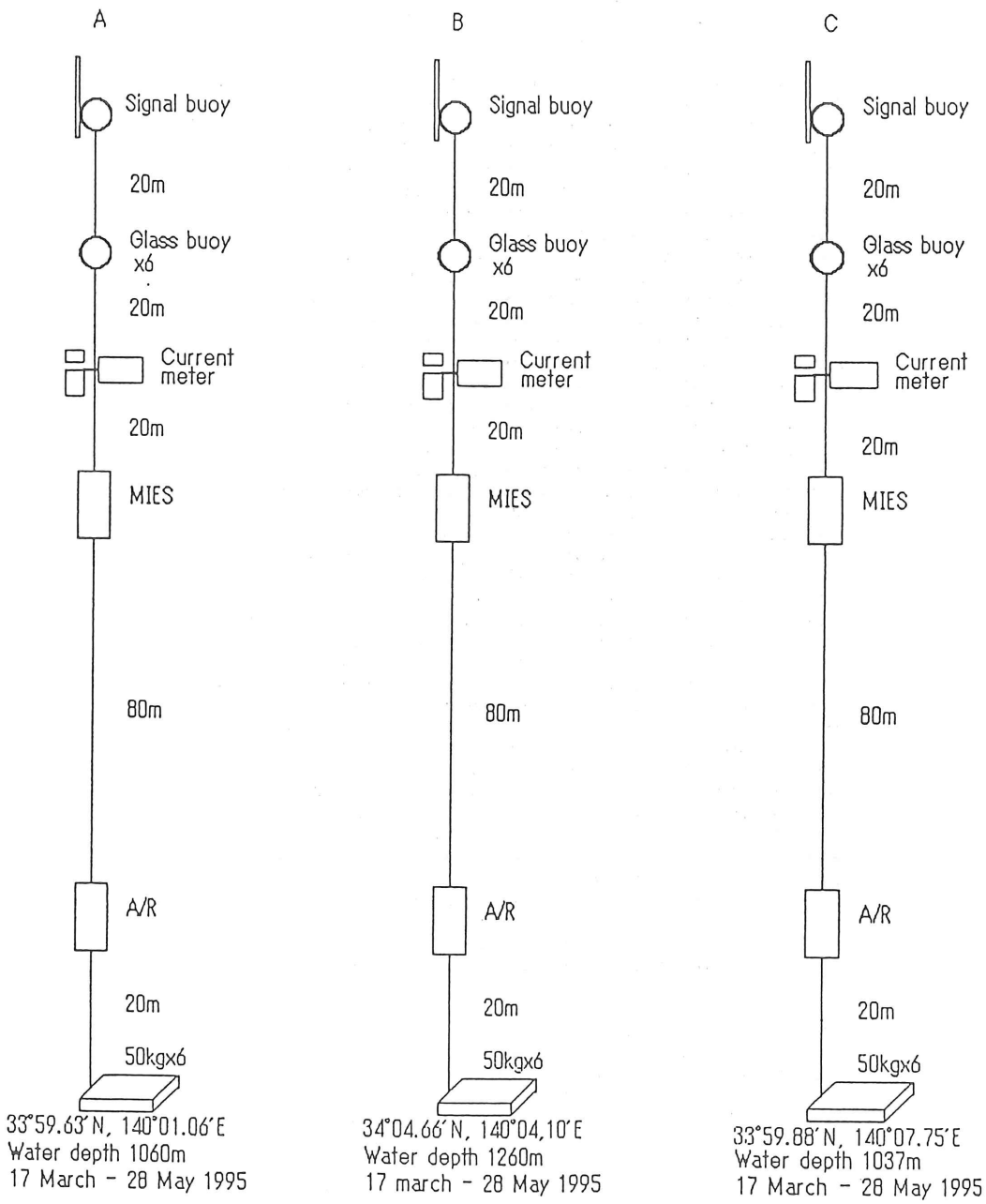
STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
PC06	CTD	05/29/95	16:01	EN	33°59.82′N	141°28.86′E	7179		
PC07	ROS	05/29/95	17:24	BE	33°59.62′N	141°45.48′E	7850		
X07	XBT	05/29/95	17:28	DE	33°59.50′N	141°45.51′E	7858		
X07S	XBT	05/29/95	17:38	DE	33°59.29′N	141°45.57′E	7851		
PC07	ROS	05/29/95	19:22	BO	33°59.25′N	141°45.39′E	7792	6507	S,O,N
PC07	ROS	05/29/95	21:02	EN	33°59.09′N	141°45.50′E	7747		
PC08	ROS	05/29/95	22:19	BE	33°59.98′N	142°02.83′E	8984		
X08	XBT	05/29/95	22:29	DE	34°00.07′N	142°02.84′E	8983		
X08A	XBT	05/29/95	22:35	DE	34°00.16′N	142°02.82′E	8983		
X08S	XBT	05/29/95	22:44	DE	34°00.23′N	142°02.78′E	8985		
PC08	ROS	05/30/95	00:20	BO	34°00.46′N	142°02.61′E	8982	6504	S,O,N
PC08	ROS	05/30/95	01:45	EN	34°01.10′N	142°02.70′E	8983		
TR3	MOR	05/30/95	05:09	DE	33°56.91′N	142°31.50′E	6076		
PC09	ROS	05/30/95	06:26	BE	34°00.30′N	142°18.84′E	7255		
X09	XBT	05/30/95	06:34	DE	34°00.45′N	142°18.89′E	7199		
X09S	XBT	05/30/95	06:40	DE	34°00.60′N	142°18.98′E	7057		
PC09	ROS	05/30/95	08:40	BO	34°00.99′N	142°19.51′E	6857	6508	S,O
PC09	ROS	05/30/95	10:02	EN	34°01.05′N	142°20.19′E	6711		
PC10	ROS	05/30/95	11:33	BE	33°59.96′N	142°37.12′E	5817		
X10	XBT	05/30/95	11:35	DE	34°00.05′N	142°37.31′E	5807		
X10S	XBT	05/30/95	11:42	DE	34°00.08′N	142°37.39′E	5806		
PC10	ROS	05/30/95	13:34	BO	33°59.30′N	142°37.80′E	5834	5965	S,O,N
PC10	ROS	05/30/95	14:49	EN	33°59.01′N	142°37.69′E	5854		
PC11	ROS	05/30/95	16:09	BE	33°59.61′N	142°55.29′E	5079		
X11	XBT	05/30/95	16:11	DE	33°59.56′N	142°55.29′E	5080		
X11S	XBT	05/30/95	16:18	DE	33°59.24′N	142°55.35′E	5079		
PC11	ROS	05/30/95	17:49	BO	33°58.07′N	142°55.41′E	5073	5153	S,O
PC11	ROS	05/30/95	18:54	EN	33°57.29′N	142°55.40′E	5101		
X12	XBT	05/30/95	20:19	DE	33°59.72′N	143°15.38′E	5420		
PC12	ROS	05/30/95	20:20	BE	33°59.80′N	143°15.36′E	5418		
X12S	XBT	05/30/95	20:28	DE	33°59.42′N	143°15.37′E	5419		
PC12	ROS	05/30/95	22:05	BO	33°57.74′N	143°15.49′E	5411	5513	S,O,N
PC12	ROS	05/30/95	23:41	EN	33°56.27′N	143°15.84′E	5398		
PC13	ROS	05/31/95	01:01	BE	34°00.07′N	143°35.73′E	5253		
X13	XBT	05/31/95	01:06	DE	33°59.83′N	143°35.88′E	5252		
X13A	XBT	05/31/95	01:11	DE	33°59.53′N	143°36.03′E	5247		
X13S	XBT	05/31/95	01:18	DE	33°59.09′N	143°36.15′E	5240		
PC13	ROS	05/31/95	02:58	BO	33°56.80′N	143°36.88′E	5191	5316	S,O
PC13	ROS	05/31/95	04:50	EN	33°55.06′N	143°37.03′E	5153		
PC14	ROS	05/31/95	05:52	BE	34°00.11′N	144°00.16′E	5439		
X14	XBT	05/31/95	06:01	DE	34°00.04′N	144°00.24′E	5440		
X14A	XBT	05/31/95	06:06	DE	34°00.03′N	144°00.22′E	5439		
X14S	XBT	05/31/95	06:13	DE	34°00.03′N	144°00.28′E	5439		
X14SA	XBT	05/31/95	06:16	DE	34°00.06′N	144°00.29′E	5439		
PC14	ROS	05/31/95	07:38	BO	33°59.70′N	144°00.70′E	5435	5532	S,O,N
PC14	ROS	05/31/95	09:01	EN	33°59.54′N	144°00.66′E	5434		
X15	XBT	05/31/95	10:20	DE	33°59.99′N	144°22.50′E	5250		
X15S	XBT	05/31/95	10:26	DE	34°00.00′N	144°23.58′E	5289		
PC15	ROS	05/31/95	11:40	BE	34°00.08′N	144°45.51′E	5737		
X16	XBT	05/31/95	11:44	DE	34°00.08′N	144°45.50′E	5736		
X16S	XBT	05/31/95	11:51	DE	34°00.03′N	144°45.60′E	5737		
PC15	ROS	05/31/95	13:31	BO	33°59.23′N	144°45.28′E	5738	5864	S,O
PC15	ROS	05/31/95	14:46	EN	33°58.39′N	144°45.23′E	5730		
X17	XBT	05/31/95	16:07	DE	33°59.95′N	145°07.50′E	5729		
X17S	XBT	05/31/95	16:14	DE	33°59.85′N	145°08.53′E	5752		
PC16	ROS	05/31/95	17:35	BE	33°59.92′N	145°30.14′E	5778		
X18	XBT	05/31/95	17:36	DE	33°59.89′N	145°30.22′E	5775		
X18S	XBT	05/31/95	17:43	DE	33°59.79′N	145°30.26′E	5775		
PC16	ROS	05/31/95	19:20	BO	33°59.28′N	145°30.56′E	5775	5887	S,O,N
PC16	ROS	05/31/95	20:25	EN	33°58.92′N	145°30.48′E	5777		
X19	XBT	05/31/95	21:49	DE	34°00.03′N	145°52.50′E	4040		
X19S	XBT	05/31/95	21:57	DE	34°00.06′N	145°53.60′E	3688		
PC17	ROS	05/31/95	23:08	BE	34°00.24′N	146°15.11′E	5682		
X20	XBT	05/31/95	23:14	DE	34°00.56′N	146°15.29′E	5695		
X20S	XBT	05/31/95	23:20	DE	34°00.84′N	146°15.44′E	5706		
PC17	ROS	06/01/95	01:04	BO	34°02.63′N	146°16.88′E	5736	5853	S,O,N

STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
PC17	ROS	06/01/95	02:26	EN	34°03.34′N	146°17.95′E	5750		
X21	XBT	06/01/95	03:35	DE	34°00.03′N	146°37.57′E	5748		
X21S	XBT	06/01/95	03:41	DE	34°00.06′N	146°38.58′E	5763		
PC18	ROS	06/01/95	05:02	BE	34°00.38′N	147°00.27′E	5772		
X22	XBT	06/01/95	05:06	DE	34°00.50′N	147°00.34′E	5771		
X22S	XBT	06/01/95	05:13	DE	34°00.61′N	147°00.44′E	5770		
PC18	ROS	06/01/95	06:46	BO	34°01.61′N	147°01.10′E	5772	5908	S,O,N
PC18	ROS	06/01/95	07:56	EN	34°02.09′N	147°01.55′E	5774		
X23	XBT	06/01/95	09:11	DE	34°00.03′N	147°22.50′E	5966		
X23S	XBT	06/01/95	09:18	DE	34°00.10′N	147°23.50′E	5970		
PC19	ROS	06/01/95	10:35	BE	34°00.11′N	147°45.52′E	6045		
X24	XBT	06/01/95	10:37	DE	34°00.17′N	147°45.60′E	6044		
X24S	XBT	06/01/95	10:44	DE	34°00.19′N	147°45.68′E	6043		
PC19	ROS	06/01/95	12:18	BO	34°00.36′N	147°45.98′E	6041	6004	S,O,N
PC19	ROS	06/01/95	13:35	EN	34°00.10′N	147°46.18′E	6044		
X25	XBT	06/01/95	14:51	DE	34°00.00′N	148°07.54′E	5354		
X25S	XBT	06/01/95	14:58	DE	33°59.97′N	148°08.45′E	5447		
PC20	ROS	06/01/95	16:12	BE	33°59.99′N	148°30.24′E	6134		
X26	XBT	06/01/95	16:19	DE	34°00.01′N	148°30.40′E	6133		
X26A	XBT	06/01/95	16:23	DE	34°00.01′N	148°30.49′E	6134		
X26S	XBT	06/01/95	16:30	DE	33°59.94′N	148°30.58′E	6133		
PC20	ROS	06/01/95	18:06	BO	33°59.30′N	148°30.00′E	6135	6004	S,O
PC20	ROS	06/01/95	19:15	EN	33°59.25′N	148°29.42′E	6128		
X27	XBT	06/01/95	20:41	DE	33°59.95′N	148°52.51′E	6158		
X27S	XBT	06/01/95	20:48	DE	33°59.92′N	148°53.56′E	6160		
PC21	ROS	06/01/95	22:06	BE	33°59.86′N	149°15.09′E	6140		
X28	XBT	06/01/95	22:14	DE	33°59.79′N	149°15.07′E	6141		
X28S	XBT	06/01/95	22:21	DE	33°59.76′N	149°15.05′E	6141		
PC21	ROS	06/01/95	23:52	BO	33°59.71′N	149°14.62′E	6142	6004	S,O,N
PC21	ROS	06/02/95	01:06	EN	33°59.69′N	149°14.01′E	6137		
X29	XBT	06/02/95	02:35	DE	34°00.04′N	149°37.51′E	6099		
X29S	XBT	06/02/95	02:42	DE	34°00.01′N	149°38.29′E	6113		
PC22	ROS	06/02/95	04:05	BE	33°59.90′N	150°00.17′E	5986		
X30	XBT	06/02/95	04:10	DE	33°59.88′N	150°00.18′E	5985		
X30S	XBT	06/02/95	04:16	DE	33°59.86′N	150°00.20′E	5985		
PC22	ROS	06/02/95	05:53	BO	33°59.44′N	150°00.42′E	5989	6005	S,O
PC22	ROS	06/02/95	07:06	EN	33°59.05′N	150°00.21′E	6000		
X31	XBT	06/02/95	08:27	DE	34°00.04′N	150°22.60′E	5958		
X31S	XBT	06/02/95	08:30	DE	34°00.00′N	150°23.82′E	5986		
PC23	ROS	06/02/95	09:47	BE	34°00.11′N	150°45.64′E	5948		
X32	XBT	06/02/95	09:50	DE	34°00.15′N	150°45.71′E	5961		
X32S	XBT	06/02/95	09:57	DE	34°00.16′N	150°45.81′E	5964		
PC23	ROS	06/02/95	11:32	BO	33°59.99′N	150°46.44′E	5966	6004	S,O,N
PC23	ROS	06/02/95	12:50	EN	33°59.91′N	150°46.80′E	5967		
X33	XBT	06/02/95	14:01	DE	34°00.05′N	151°07.95′E	5906		
X33S	XBT	06/02/95	14:05	DE	34°00.06′N	151°09.07′E	5902		
PC24	ROS	06/02/95	15:20	BE	33°59.82′N	151°30.36′E	5961		
PC24	ROS	06/02/95	17:03	BO	33°58.97′N	151°31.08′E	5952	6003	S,O
PC24	ROS	06/02/95	18:12	EN	33°58.54′N	151°31.28′E	5950		
X34	XBT	06/02/95	19:31	DE	34°00.05′N	151°52.58′E	6006		
PC25	ROS	06/02/95	20:42	BE	34°00.03′N	152°15.29′E	5974		
PC25	ROS	06/02/95	22:26	BO	33°59.63′N	152°16.33′E	5984	6008	S,O,N
PC25	ROS	06/02/95	23:37	EN	33°59.31′N	152°16.50′E	5981		
X35	XBT	06/03/95	00:49	DE	34°00.12′N	152°37.53′E	6011		
PC26	ROS	06/03/95	02:00	BE	34°00.21′N	153°00.15′E	5986		
PC26	ROS	06/03/95	03:49	BO	34°00.47′N	153°01.20′E	5965	6003	S,O,N
PC26	ROS	06/03/95	04:59	EN	34°00.30′N	153°01.63′E	5967		
X36	XBT	06/03/95	06:17	DE	34°00.00′N	153°22.63′E	5962		
PC27	ROS	06/03/95	07:34	BE	34°00.10′N	153°45.25′E	5862		
PC27	ROS	06/03/95	09:21	BO	34°00.53′N	153°45.25′E	5855	5984	S,O,N
PC27	ROS	06/03/95	10:22	EN	34°00.45′N	153°45.34′E	5851		
X37	XBT	06/03/95	11:45	DE	34°00.01′N	154°07.54′E	5582		
PC28	ROS	06/03/95	13:03	BE	33°59.83′N	154°30.00′E	5804		
PC28	ROS	06/03/95	14:52	BO	33°59.33′N	154°29.47′E	5804	5936	S,O,N
PC28	ROS	06/03/95	16:01	EN	33°59.09′N	154°29.13′E	5807		
X38	XBT	06/03/95	17:34	DE	34°00.03′N	154°52.68′E	5816		

STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
PC29	ROS	06/03/95	18:55	BE	33°59.80′N	155°14.73′E	5803		
PC29	ROS	06/03/95	20:41	BO	33°59.00′N	155°13.56′E	5796	5947	S,O,N
PC29	ROS	06/03/95	21:51	EN	33°58.82′N	155°13.14′E	5795		
X39	XBT	06/03/95	23:28	DE	34°00.03′N	155°37.48′E	5731		
PC30	ROS	06/04/95	00:51	BE	34°00.09′N	155°59.90′E	5641		
PC30	ROS	06/04/95	02:39	BO	34°00.31′N	155°59.14′E	5639	5759	S,O,N
PC30	ROS	06/04/95	03:50	EN	34°00.34′N	155°58.73′E	5641		
X40	XBT	06/04/95	05:24	DE	33°40.03′N	155°59.95′E	5682		
PC31	ROS	06/04/95	06:42	BE	33°20.08′N	156°00.11′E	5550		
PC31	ROS	06/04/95	08:27	BO	33°19.99′N	156°00.25′E	5550	5656	S,O,N
PC31	ROS	06/04/95	09:33	EN	33°20.16′N	156°00.20′E	5552		
X41	XBT	06/04/95	11:05	DE	33°00.00′N	156°00.09′E	5257		
PC32	ROS	06/04/95	12:27	BE	32°40.07′N	156°00.03′E	4755		
PC32	ROS	06/04/95	14:00	BO	32°40.41′N	156°00.94′E	4774	4826	S,O,N
PC32	ROS	06/04/95	14:59	EN	32°40.83′N	156°01.24′E	4791		
X42	XBT	06/04/95	16:37	DE	32°19.92′N	156°00.00′E	4722		
PC33	ROS	06/04/95	18:13	BE	32°00.14′N	156°00.40′E	4473		
PC33	ROS	06/04/95	19:39	BO	32°00.38′N	156°02.08′E	4445	4502	S,O,N
PC33	ROS	06/04/95	20:35	EN	32°00.40′N	156°02.51′E	4434		
X43	XBT	06/04/95	22:10	DE	31°40.10′N	156°00.02′E	4385		
PC34	ROS	06/04/95	23:31	BE	31°20.07′N	156°00.08′E	4747		
PC34	ROS	06/05/95	01:06	BO	31°19.91′N	156°01.23′E	4710	4816	S,O,N
PC34	ROS	06/05/95	02:06	EN	31°19.64′N	156°01.73′E	4685		
X44	XBT	06/05/95	03:38	DE	31°00.00′N	156°00.02′E	4896		
PC35	ROS	06/05/95	05:04	BE	30°39.92′N	156°00.04′E	5507		
PC35	ROS	06/05/95	06:42	BO	30°40.62′N	156°00.16′E	5506	5617	S,O,N
PC35	ROS	06/05/95	07:45	EN	30°40.01′N	156°00.27′E	5501		
X45	XBT	06/05/95	09:10	DE	30°19.99′N	156°00.01′E	5675		
PC36	ROS	06/05/95	10:30	BE	30°00.09′N	156°00.10′E	5759		
PC36	ROS	06/05/95	12:14	BO	29°59.86′N	156°00.15′E	5760	5893	S,O,N
PC36	ROS	06/05/95	13:23	EN	29°59.66′N	156°00.25′E	5763		
X46	XBT	06/05/95	15:15	DE	29°59.99′N	155°29.91′E	5782		
PC37	ROS	06/05/95	17:02	BE	30°00.21′N	154°59.76′E	5623		
PC37	ROS	06/05/95	18:39	BO	30°00.54′N	154°59.84′E	5673	5740	S,O,N
PC37	ROS	06/05/95	19:46	EN	30°00.71′N	154°59.92′E	5643		
X47	XBT	06/05/95	21:36	DE	29°59.99′N	154°29.97′E	5834		
PC38	ROS	06/05/95	23:16	BE	30°00.03′N	153°59.87′E	5851		
PC38	ROS	06/06/95	01:07	BO	29°59.90′N	154°00.25′E	5844	5980	S,O,N
PC38	ROS	06/06/95	02:23	EN	30°00.02′N	154°00.02′E	5833		
X48	XBT	06/06/95	04:25	DE	30°00.02′N	153°29.90′E	5783		
PC39	ROS	06/06/95	06:15	BE	30°00.14′N	153°00.04′E	5864		
PC39	ROS	06/06/95	08:01	BO	30°00.10′N	153°00.80′E	5850	5988	S,O,N
PC39	ROS	06/06/95	09:14	EN	30°00.24′N	153°01.25′E	5850		
X49	XBT	06/06/95	11:09	DE	30°00.07′N	152°29.95′E	5918		
PC40	ROS	06/06/95	12:58	BE	29°59.59′N	152°00.14′E	5937		
PC40	ROS	06/06/95	14:49	BO	29°59.93′N	152°00.02′E	5935	6003	S,O,N
PC40	ROS	06/06/95	15:58	EN	30°00.18′N	152°00.31′E	5937		
X50	XBT	06/06/95	17:55	DE	30°00.02′N	151°30.00′E	5950		
PC41	ROS	06/06/95	19:36	BE	29°59.94′N	150°59.82′E	5963		
PC41	ROS	06/06/95	21:25	BO	29°59.97′N	150°59.52′E	5957	6006	S,O,N
PC41	ROS	06/06/95	22:34	EN	30°00.30′N	150°59.62′E	5960		
X51	XBT	06/07/95	00:21	DE	30°00.17′N	150°29.97′E	6037		
PC42	ROS	06/07/95	02:05	BE	30°00.04′N	150°00.09′E	5894		
PC42	ROS	06/07/95	04:00	BO	29°59.91′N	150°00.86′E	5872	6036	S,O,N
PC42	ROS	06/07/95	05:06	EN	29°59.90′N	150°01.29′E	5865		
X52	XBT	06/07/95	07:11	DE	30°00.01′N	149°29.94′E	6102		
PC43	ROS	06/07/95	09:04	BE	30°00.11′N	149°00.27′E	6120		
PC43	ROS	06/07/95	10:53	BO	30°01.21′N	148°59.88′E	6119	6003	S,O,N
PC43	ROS	06/07/95	12:07	EN	30°01.43′N	148°59.68′E	6122		
X53	XBT	06/07/95	13:54	DE	29°59.94′N	148°29.99′E	6112		
PC44	ROS	06/07/95	15:37	BE	29°59.89′N	147°59.72′E	6144		
PC44	ROS	06/07/95	17:29	BO	29°58.82′N	147°58.82′E	6140	6007	S,O,N
PC44	ROS	06/07/95	18:51	EN	29°57.95′N	147°59.21′E	6140		
X54	XBT	06/07/95	20:37	DE	30°00.02′N	147°29.95′E	6189		
PC45	ROS	06/07/95	22:20	BE	30°00.10′N	146°59.88′E	6157		
PC45	ROS	06/08/95	00:06	BO	30°00.03′N	146°59.90′E	6155	5979	S,O,N

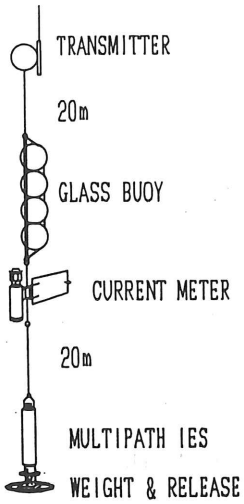
STNNBR	TYPE	DATE	GMT	CODE	LATITUDE	LONGITUDE	BOTDEP	MAXPRS	PARAM
PC45	ROS	06/08/95	01:27	EN	29°59.48′N	147°00.04′E	6153		
X55	XBT	06/08/95	03:18	DE	29°59.96′N	146°30.02′E	6092		
PC46	ROS	06/08/95	05:05	BE	30°00.06′N	146°00.09′E	6117		
PC46	ROS	06/08/95	06:54	BO	30°00.55′N	146°00.86′E	6120	6003	S,O,N
PC46	ROS	06/08/95	08:09	EN	30°00.90′N	146°01.10′E	6123		
X56	XBT	06/08/95	10:04	DE	30°00.03′N	145°30.01′E	5863		
PC47	ROS	06/08/95	11:48	BE	30°00.07′N	144°59.82′E	5915		
PC47	ROS	06/08/95	13:40	BO	30°00.67′N	145°00.20′E	5928	6070	S,O,N
PC47	ROS	06/08/95	14:59	EN	30°00.82′N	145°00.52′E	5933		
X57	XBT	06/08/95	16:54	DE	29°59.91′N	144°29.97′E	5804		
PC48	ROS	06/08/95	18:45	BE	30°00.07′N	143°59.97′E	5639		
PC48	ROS	06/08/95	20:26	BO	30°00.42′N	144°00.25′E	5617	5740	S,O,N
PC48	ROS	06/08/95	21:32	EN	30°00.66′N	144°00.74′E	5679		
PC49	ROS	06/08/95	23:50	BE	30°00.23′N	143°30.43′E	5582		
PC49	ROS	06/09/95	01:37	BO	29°59.87′N	143°30.47′E	5581	5707	S,O,N
PC49	ROS	06/09/95	02:53	EN	29°59.76′N	143°30.54′E	5584		
PC50	ROS	06/09/95	04:34	BE	30°00.12′N	143°09.95′E	6017		
PC50	ROS	06/09/95	06:30	BO	30°00.49′N	143°10.43′E	5959	6004	S,O,N
PC50	ROS	06/09/95	07:44	EN	30°00.68′N	143°10.68′E	5955		
PC51	ROS	06/09/95	09:10	BE	30°00.02′N	142°50.00′E	7660		
PC51	ROS	06/09/95	11:05	BO	30°00.37′N	142°50.03′E	7569	6005	S,O,N
PC51	ROS	06/09/95	12:24	EN	30°00.31′N	142°50.29′E	7518		
PC52	ROS	06/09/95	13:49	BE	29°59.88′N	142°29.90′E	8368		
PC52	ROS	06/09/95	15:41	BO	29°59.56′N	142°30.22′E	8445	6004	S,O,N
PC52	ROS	06/09/95	17:01	EN	29°59.25′N	142°30.62′E	8471		
PC53	ROS	06/09/95	18:48	BE	30°00.03′N	142°10.12′E	4882		
PC53	ROS	06/09/95	20:17	BO	29°59.60′N	142°10.41′E	4968	4968	S,O,N
PC53	ROS	06/09/95	21:15	EN	29°59.44′N	142°10.79′E	5053		
PC54	ROS	06/09/95	23:33	BE	30°00.18′N	141°40.23′E	4284		
PC54	ROS	06/10/95	01:00	BO	30°00.49′N	141°40.72′E	4285	4340	S,O,N
PC54	ROS	06/10/95	01:59	EN	30°00.55′N	141°41.24′E	4285		
PC55	ROS	06/10/95	06:16	BE	30°00.10′N	141°05.36′E	3534		
PC55	ROS	06/10/95	07:27	BO	30°00.12′N	141°06.02′E	3549	3546	S,O,N
PC55	ROS	06/10/95	08:07	EN	30°00.03′N	141°06.35′E	3559		
PC56	ROS	06/10/95	10:50	BE	29°59.82′N	140°30.13′E	2479		
PC56	ROS	06/10/95	11:47	BO	29°59.29′N	140°30.19′E	2472	2477	S,O,N
PC56	ROS	06/10/95	12:25	EN	29°59.34′N	140°30.24′E	2473		
X58	XBT	06/10/95	14:47	DE	30°30.04′N	140°30.03′E	900		
PC57	CTD	06/10/95	16:57	BE	30°59.90′N	140°29.70′E	2189		
PC57	CTD	06/10/95	17:47	BO	30°59.71′N	140°29.01′E	2192	2176	
PC57	CTD	06/10/95	18:18	EN	30°59.69′N	140°28.67′E	2210		
X59	XBT	06/10/95	20:40	DE	31°29.66′N	140°30.05′E	2012		
PC58	CTD	06/10/95	22:50	BE	32°00.12′N	140°30.26′E	2170		
PC58	CTD	06/10/95	23:47	BO	32°00.84′N	140°31.46′E	2107	2169	
PC58	CTD	06/11/95	00:25	EN	32°00.95′N	140°32.02′E	2202		
X60	XBT	06/11/95	02:33	DE	32°30.02′N	140°30.10′E	2018		
PC59	CTD	06/11/95	04:29	BE	33°00.60′N	140°29.80′E	1216		
PC59	CTD	06/11/95	05:02	BO	33°01.34′N	140°29.53′E	1120	1167	
PC59	CTD	06/11/95	05:22	EN	33°01.76′N	140°29.28′E	1106		
X61	XBT	06/11/95	07:14	DE	33°29.99′N	140°29.92′E	1048		
PC60	CTD	06/11/95	09:09	BE	34°00.58′N	140°29.60′E	2009		
PC60	CTD	06/11/95	09:50	BO	34°01.43′N	140°29.53′E	1917	1867	
PC60	CTD	06/11/95	10:15	EN	34°01.94′N	140°29.63′E	3541		
X62	XBT	06/11/95	11:55	DE	34°10.00′N	140°21.25′E	8053		
X63	XBT	06/11/95	12:38	DE	34°20.00′N	140°12.61′E	2318		
X64	XBT	06/11/95	13:23	DE	34°30.00′N	140°03.99′E	2515		

7. Mooring Systems



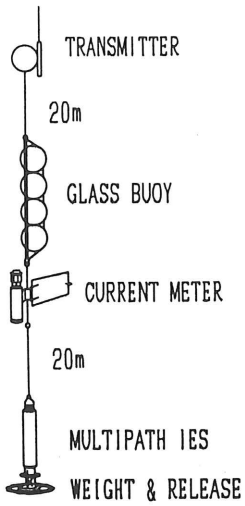
Moorings of multipath inverted echo sounders and current meters recovered at IESA-IESC on the Izu Ridge.

S1



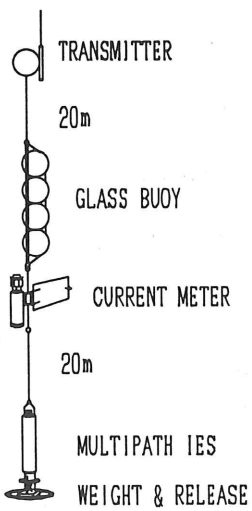
34° 06.2' N, 139° 52.5' E
WATER DEPTH 1116m
28 MAY 1995 - 29 NOV. 1995

S2



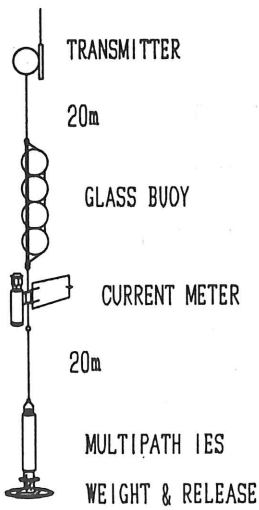
34° 04.7' N, 139° 58.7' E
WATER DEPTH 1197m
28 MAY 1995 - 29 NOV. 1195

S3



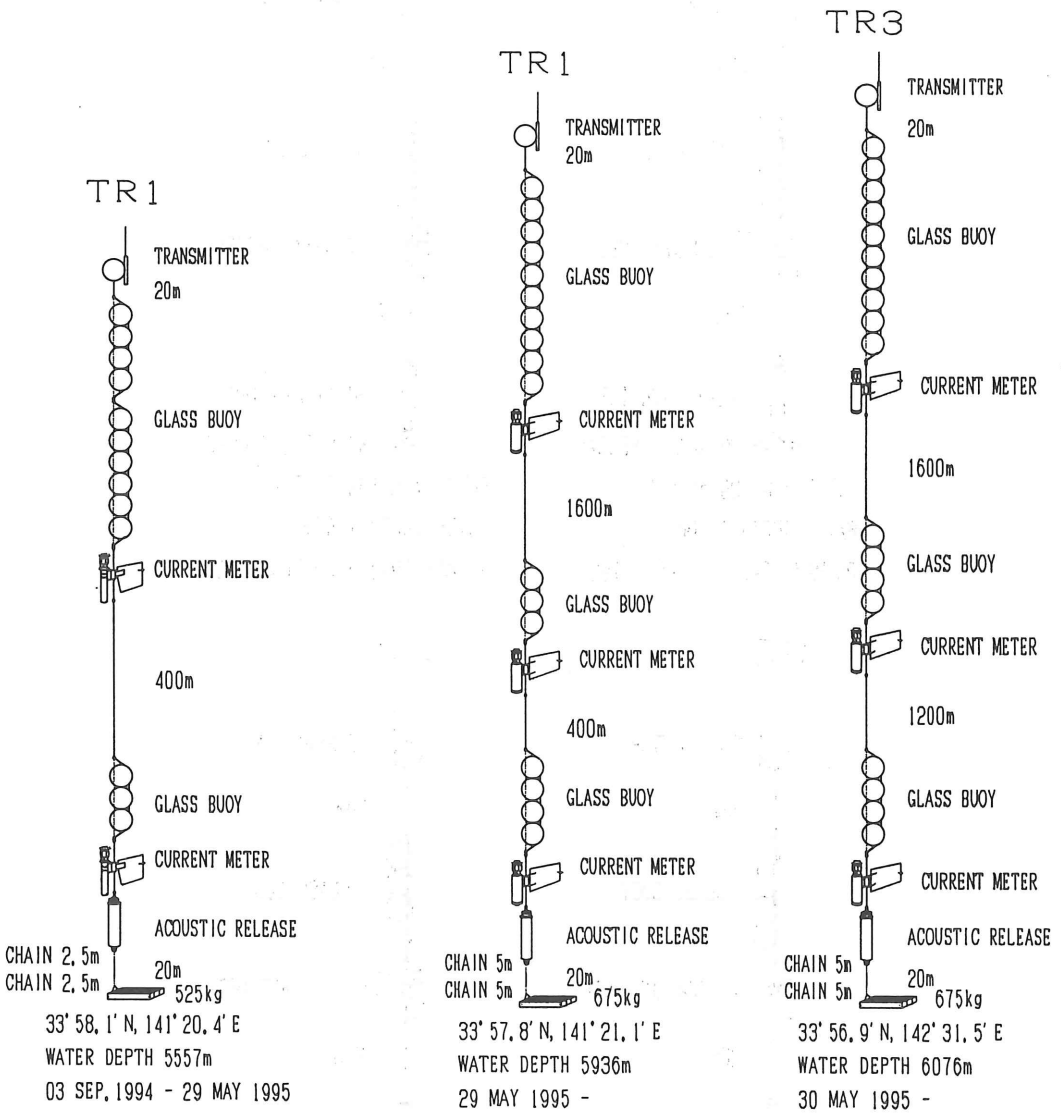
33° 59.9' N, 140° 00.0' E
WATER DEPTH 1071m
28 MAY 1995 - 29 NOV. 1995

S4



34° 01.5' N, 139° 54.3' E
WATER DEPTH 1175m
28 MAY 1995 - 29 NOV. 1995

Moorings of multipath inverted echo sounders and current meters deployed at S1-S4 east of Miyake-jima on the Izu Ridge.



Moorings of current meters at the Japan Trench recovered at TR1 and deployed at TR1 and TR3.

8. CTDO_2 Data

AS01 32°44.82′N, 133°06.01′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	19.2976	34.4995	6.0602
20.0	18.9273	34.4683	5.9665
30.0	18.4881	34.5441	5.4349
50.0	17.9404	34.6283	5.1931
75.0	17.1498	34.6703	4.9615
100.0	16.7614	34.6890	4.7954
123.0	16.6996	34.6859	4.8073

AS02 32°34.98′N, 133°13.03′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.4302	34.7057	5.0610
20.0	22.3805	34.7093	5.0354
30.0	22.3223	34.7142	5.0188
50.0	21.8376	34.7166	4.9404
75.0	20.6210	34.7800	4.6070
100.0	19.7448	34.7486	4.7537
150.0	17.6155	34.7192	4.4704
200.0	16.7029	34.6945	4.4281
300.0	10.7690	34.4037	3.1459
400.0	8.6747	34.3121	3.0466
500.0	6.7780	34.2717	2.4771
600.0	5.7203	34.2721	2.1164
700.0	5.2113	34.2939	1.9332
723.0	5.0391	34.3020	1.8651

AS03 32°24.92′N, 133°17.98′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.9330	34.7323	4.8810
20.0	23.9353	34.7325	4.8559
30.0	23.9008	34.7283	4.8296
50.0	23.6128	34.7344	4.7201
75.0	22.8271	34.7291	4.5963
100.0	21.7101	34.7851	4.5380
150.0	19.4813	34.8285	4.0856
200.0	17.7726	34.8076	4.2835
300.0	13.7306	34.5503	3.7550
400.0	10.5483	34.3827	3.3153
500.0	7.5409	34.2317	2.8636
600.0	5.8903	34.2669	2.1123
700.0	4.6653	34.3041	1.6812
800.0	4.1731	34.3472	1.5565
893.0	3.5739	34.4084	1.5129

AS1A 32°39.95′N, 133°09.44′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	19.7489	33.9299	5.8776
20.0	19.6667	34.0153	5.9022
30.0	19.5758	34.1838	5.9258
50.0	18.2068	34.6360	5.3237
75.0	17.2674	34.7190	4.7117
100.0	17.0532	34.6959	4.8653
150.0	16.6816	34.6934	4.7947
200.0	14.7289	34.5966	4.3250
204.0	14.6381	34.5921	4.4076

AS2A 32°30.38′N, 133°15.58′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.4737	34.7557	4.8888
20.0	23.2241	34.7590	4.8868
30.0	22.8886	34.7622	4.8694
50.0	22.4807	34.7362	4.8970
75.0	21.2843	34.6911	4.8561
100.0	20.4201	34.8133	4.3413
150.0	19.2580	34.7978	4.3841
200.0	17.6875	34.7969	4.2376
300.0	12.9650	34.5158	3.6020
400.0	7.9505	34.2839	2.7886
500.0	6.5687	34.2630	2.4594
600.0	5.5179	34.2650	2.0609
700.0	4.7477	34.3052	1.7623
713.0	4.6963	34.3078	1.7524

AS05 32°05.40′N, 133°29.72′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.8907	34.7162	4.8152
20.0	23.8953	34.7161	4.8087
30.0	23.9032	34.7159	4.8134
50.0	23.8495	34.7189	4.7842
75.0	22.9489	34.7714	4.3744
100.0	22.2950	34.8343	4.4206
150.0	20.6638	34.8521	4.4802
200.0	18.2498	34.8031	4.1525
300.0	15.1592	34.6391	4.0844
400.0	11.9584	34.4166	3.9241
500.0	9.2997	34.2598	3.5714
600.0	7.0999	34.2070	2.7627
700.0	5.9926	34.2854	2.0872
800.0	4.5135	34.3124	1.6115
900.0	3.9650	34.3601	1.4755
1000.0	3.5563	34.4024	1.4787
1100.0	3.2632	34.4414	1.5477
1200.0	2.9935	34.4773	1.6730
1300.0	2.7741	34.5050	1.8022
1400.0	2.6350	34.5225	1.9012
1500.0	2.4729	34.5436	2.0426
1600.0	2.3305	34.5618	2.1758
1700.0	2.2026	34.5783	2.3205
1800.0	2.1070	34.5915	2.4294
1806.0	2.1053	34.5917	2.4415

AS5A 32°00.22′N, 133°31.97′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.0646	34.7104	4.8106
20.0	24.0648	34.7101	4.8103
30.0	24.0655	34.7102	4.8136
50.0	24.0526	34.7113	4.7908
75.0	23.5131	34.7486	4.4924
100.0	22.1614	34.8324	4.3030
150.0	19.9835	34.8700	4.6714
200.0	18.2038	34.7976	4.1324
300.0	15.2839	34.6557	4.2445
400.0	12.4605	34.4451	4.0401
500.0	9.5377	34.2730	3.6591
600.0	7.3458	34.2117	2.9058
700.0	5.5319	34.2329	1.9478
800.0	4.6121	34.3094	1.5723
900.0	3.8879	34.3643	1.4798
1000.0	3.4922	34.4149	1.5112
1100.0	3.2030	34.4500	1.5774
1200.0	2.9420	34.4838	1.7008
1300.0	2.7597	34.5061	1.8010
1400.0	2.6387	34.5218	1.8866
1500.0	2.5009	34.5383	1.9702
1600.0	2.3626	34.5566	2.1266
1700.0	2.2598	34.5719	2.2636
1800.0	2.1122	34.5904	2.4197
1900.0	2.0086	34.6040	2.5475
2000.0	1.9475	34.6135	2.6636
2232.0	1.7754	34.6367	2.9534

AS6A 31°50.71′N, 133°36.97′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.2444	34.7374	4.7920
20.0	24.2120	34.7364	4.8003
30.0	24.1978	34.7359	4.7883
50.0	24.0745	34.7264	4.7675
75.0	23.2881	34.7958	4.6905
100.0	22.5865	34.7731	4.4369
150.0	20.4084	34.8529	4.1602
200.0	18.9121	34.8229	4.1202
300.0	14.1196	34.5707	3.9100
400.0	11.8249	34.4018	3.9548
500.0	9.1644	34.2661	3.4959
600.0	6.7492	34.1648	2.7654
700.0	5.6581	34.2096	2.1879
800.0	4.7419	34.2826	1.5897
900.0	4.1071	34.3473	1.4730
1000.0	3.6425	34.3972	1.4881
1100.0	3.2913	34.4398	1.5484
1200.0	3.0603	34.4674	1.6053
1300.0	2.7909	34.5012	1.7560
1400.0	2.6115	34.5241	1.8750
1500.0	2.4171	34.5487	2.0462
1600.0	2.2869	34.5661	2.1791
1700.0	2.1680	34.5818	2.2950
1800.0	2.0892	34.5930	2.4205
1900.0	2.0154	34.6036	2.5377
2000.0	1.9418	34.6138	2.6375
2500.0	1.6749	34.6513	3.1117
3000.0	1.5405	34.6712	3.3896
3500.0	1.5015	34.6805	3.5445
3760.0	1.5203	34.6814	3.5598

AS06 31°55.38′N, 133°32.53′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.1172	34.7226	4.8138
20.0	24.1154	34.7225	4.8040
30.0	24.1171	34.7225	4.8018
50.0	24.0948	34.7219	4.7903
75.0	23.9987	34.7296	4.7335
100.0	22.4098	34.8082	4.5479
150.0	20.4895	34.8552	3.9455
200.0	17.9829	34.8035	4.0814
300.0	15.0168	34.6347	4.2686
400.0	12.3843	34.4407	3.9597
500.0	9.0813	34.2492	3.5480
600.0	6.9007	34.1650	2.8365
700.0	5.7101	34.2000	2.2024
800.0	4.6350	34.3004	1.5248
900.0	4.0229	34.3559	1.5116
1000.0	3.5497	34.4065	1.4937
1100.0	3.2084	34.4488	1.5566
1200.0	2.9665	34.4795	1.6790
1300.0	2.7613	34.5052	1.7820
1400.0	2.5519	34.5317	1.9346
1500.0	2.4296	34.5472	2.0394
1600.0	2.2859	34.5664	2.1805
1700.0	2.1803	34.5806	2.3093
1800.0	2.0821	34.5939	2.4477
1900.0	1.9823	34.6080	2.5902
2000.0	1.9112	34.6179	2.7031
2500.0	1.6476	34.6545	3.1629
2943.0	1.4973	34.6749	3.4890

AS07 31°46.54′N, 133°40.25′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.3510	34.7252	4.7642
20.0	24.3628	34.7252	4.7668
30.0	24.3647	34.7254	4.7570
50.0	24.3320	34.7263	4.7468
75.0	23.6323	34.7949	4.5488
100.0	21.7078	34.7073	4.5456
150.0	20.1530	34.6625	4.8050
200.0	18.8674	34.7563	4.5140
300.0	14.9080	34.6176	3.9683
400.0	11.4254	34.3820	3.9186
500.0	8.8038	34.2414	3.3934
600.0	6.6538	34.1611	2.7466
700.0	5.5495	34.2379	2.0563
800.0	4.7694	34.2857	1.6068
900.0	4.0404	34.3534	1.4363
1000.0	3.5979	34.4043	1.5125
1100.0	3.3123	34.4365	1.5229
1200.0	3.0507	34.4695	1.6120
1300.0	2.7800	34.5040	1.7831
1400.0	2.5695	34.5294	1.9116
1500.0	2.4002	34.5512	2.0580
1600.0	2.2711	34.5681	2.1795
1700.0	2.1585	34.5832	2.3223
1800.0	2.0779	34.5943	2.4208
1900.0	2.0057	34.6044	2.5131
2000.0	1.9441	34.6132	2.6314
2500.0	1.6952	34.6491	3.0699
3000.0	1.5525	34.6694	3.3494
3500.0	1.5132	34.6791	3.5070
4000.0	1.5416	34.6817	3.5621
4327.0	1.5641	34.6830	3.5898

AS08 31°31.70′N, 133°48.61′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	24.3176	34.7239	4.8076
30.0	24.3191	34.7232	4.7866
50.0	24.3164	34.7233	4.7806
75.0	23.5215	34.7224	4.7740
100.0	23.0805	34.7990	4.4913
150.0	21.5209	34.8051	4.0555
200.0	18.6042	34.7566	4.0207
300.0	15.2061	34.6267	3.8587
400.0	12.4863	34.4784	3.5549
500.0	9.9825	34.3336	3.4082
600.0	7.4332	34.2955	2.4474
700.0	5.3660	34.2101	2.0201
800.0	4.6824	34.3001	1.6764
900.0	3.9176	34.3652	1.4842
1000.0	3.5156	34.4124	1.4943
1100.0	3.1935	34.4518	1.5637
1200.0	2.9923	34.4768	1.6503
1300.0	2.7654	34.5033	1.7568
1400.0	2.6104	34.5245	1.8694
1500.0	2.4678	34.5419	1.9674
1600.0	2.3408	34.5583	2.0779
1700.0	2.2334	34.5727	2.2100
1800.0	2.1365	34.5858	2.3209
1900.0	2.0580	34.5978	2.4464
2000.0	1.9897	34.6075	2.5413
2500.0	1.7627	34.6410	2.9410
3000.0	1.5903	34.6656	3.2792
3500.0	1.5401	34.6760	3.4376
4000.0	1.5552	34.6804	3.5035
4500.0	1.5941	34.6823	3.5368
4923.0	1.6247	34.6847	3.6095

AS09 31°17.25′N, 133°56.02′E

P(db)	T(°C)	S(psu)	O(ml/l)
150.0	21.9823	34.8276	4.9218
200.0	20.0707	34.7898	3.9793
300.0	15.9631	34.6774	3.9559
400.0	12.6896	34.4914	3.5031
500.0	9.9805	34.3573	3.2572
600.0	6.9676	34.2247	2.5485
700.0	5.5232	34.2765	1.9412
800.0	4.5412	34.2813	1.6100
900.0	3.9763	34.3599	1.4894
1000.0	3.5380	34.4093	1.4855
1100.0	3.2122	34.4484	1.5394
1200.0	2.9452	34.4818	1.6526
1300.0	2.7494	34.5070	1.7751
1400.0	2.5586	34.5286	1.8567
1500.0	2.4033	34.5495	2.0051
1600.0	2.2492	34.5690	2.1473
1700.0	2.1479	34.5804	2.1984
1800.0	2.0753	34.5899	2.2878
1900.0	2.0012	34.6003	2.3579
2000.0	1.9489	34.6083	2.4537
2500.0	1.7809	34.6363	2.8090
3000.0	1.6416	34.6598	3.1876
3500.0	1.5340	34.6769	3.4449
4000.0	1.5457	34.6810	3.5050
4500.0	1.5856	34.6831	3.5587
4542.0	1.5857	34.6836	3.5351

AS10 31°02.51′N, 134°05.60′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	24.1215	34.7124	4.7632
30.0	24.1245	34.7121	4.7645
50.0	23.8436	34.7260	4.7226
75.0	23.2277	34.8008	4.5410
100.0	22.2564	34.7412	4.5434
150.0	21.0836	34.6864	4.5211
200.0	19.7064	34.7240	4.2417
300.0	16.2051	34.6660	3.8984
400.0	13.5806	34.5351	3.8667
500.0	11.1578	34.4104	3.4808
600.0	8.3050	34.3092	2.7617
700.0	6.2179	34.2129	2.3116
800.0	4.7452	34.2262	1.6397
900.0	4.3288	34.3391	1.4557
1000.0	3.6732	34.3850	1.4157
1100.0	3.4029	34.4272	1.5134
1200.0	3.1061	34.4630	1.5873
1300.0	2.8744	34.4912	1.6782
1400.0	2.6831	34.5129	1.7441
1500.0	2.5302	34.5331	1.8871
1600.0	2.3810	34.5533	2.0252
1700.0	2.2809	34.5670	2.1529
1800.0	2.1697	34.5826	2.2841
1900.0	2.0635	34.5966	2.3973
2000.0	1.9751	34.6090	2.5287
2500.0	1.7169	34.6462	2.9837
3000.0	1.5638	34.6685	3.2859
3500.0	1.5195	34.6783	3.4527
4000.0	1.5413	34.6818	3.4976
4426.0	1.5776	34.6828	3.5488

AS11 30°46.37′N, 134°13.98′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	23.6160	34.7388	4.7927
30.0	23.6141	34.7394	4.7910
50.0	23.6162	34.7399	4.7800
75.0	23.6178	34.7421	4.7732
100.0	22.8647	34.8015	4.4722
150.0	21.3748	34.8463	4.3881
200.0	20.4937	34.8728	4.6480
300.0	18.4055	34.8570	4.4852
400.0	14.7504	34.5987	3.8953
500.0	12.1087	34.4523	3.6411
600.0	9.8645	34.3145	3.3113
700.0	6.2421	34.2248	2.2113
800.0	4.9667	34.2182	1.6754
900.0	4.4980	34.3231	1.5375
1000.0	3.8814	34.3730	1.4324
1100.0	3.5688	34.4071	1.4497
1200.0	3.2527	34.4467	1.5347
1300.0	2.9658	34.4727	1.5661
1400.0	2.7596	34.5054	1.7373
1500.0	2.6116	34.5249	1.8709
1600.0	2.4346	34.5477	2.0135
1700.0	2.3163	34.5634	2.1418
1800.0	2.1946	34.5786	2.2401
1900.0	2.0950	34.5929	2.3861
2000.0	2.0071	34.6055	2.5052
2500.0	1.7342	34.6441	2.9533
3000.0	1.5685	34.6676	3.2903
3500.0	1.5211	34.6781	3.4474
4000.0	1.5408	34.6819	3.5048
4500.0	1.5825	34.6834	3.5456
4514.0	1.5839	34.6832	3.5557

AS12 30°30.39′N, 134°21.25′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	23.6935	34.7402	4.8001
30.0	23.6866	34.7402	4.8070
50.0	23.6445	34.7421	4.7909
75.0	23.0995	34.7580	4.7183
100.0	22.6840	34.7929	4.4304
150.0	21.3133	34.8450	4.3754
200.0	20.1261	34.8740	4.7602
300.0	18.8625	34.9006	4.7282
400.0	17.0798	34.7586	4.2531
500.0	14.2069	34.5763	3.7029
600.0	10.9010	34.3313	3.7741
700.0	8.2906	34.2116	3.1207
800.0	6.6914	34.2869	2.2755
900.0	5.1274	34.2706	1.7076
1000.0	4.4157	34.3187	1.4533
1100.0	3.8125	34.3813	1.4392
1200.0	3.4045	34.4257	1.4495
1300.0	3.1515	34.4587	1.5651
1400.0	2.9145	34.4779	1.5465
1500.0	2.7403	34.5080	1.7632
1600.0	2.5550	34.5316	1.8881
1700.0	2.4212	34.5499	2.0242
1800.0	2.2777	34.5669	2.1396
1900.0	2.1486	34.5857	2.3064
2000.0	2.0568	34.5988	2.4280
2500.0	1.7658	34.6405	2.9193
3000.0	1.5958	34.6643	3.2483
3500.0	1.5258	34.6771	3.4431
4000.0	1.5427	34.6813	3.5032
4500.0	1.5862	34.6829	3.5279
4599.0	1.5959	34.6833	3.5612

AS13 30°14.49′N, 134°28.16′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	23.7760	34.7283	4.8073
30.0	23.6288	34.7294	4.7924
50.0	22.9932	34.7428	4.6892
75.0	21.3708	34.8424	4.5472
100.0	20.8629	34.8598	4.7499
150.0	20.4841	34.8745	4.7799
200.0	19.9556	34.9032	5.0065
300.0	18.5999	34.8705	4.5205
400.0	16.8166	34.7606	4.2756
500.0	14.7130	34.6038	4.0631
600.0	11.2589	34.3668	3.7613
700.0	8.5174	34.2152	3.2739
800.0	6.7651	34.1838	2.6038
900.0	5.1882	34.2609	1.7305
1000.0	4.5604	34.2922	1.5194
1100.0	3.9335	34.3684	1.3898
1200.0	3.5783	34.4093	1.4635
1300.0	3.1738	34.4462	1.4761
1400.0	2.9671	34.4722	1.5409
1500.0	2.7310	34.5008	1.6542
1600.0	2.6050	34.5256	1.8559
1700.0	2.4665	34.5442	1.9830
1800.0	2.3094	34.5650	2.1386
1900.0	2.2073	34.5787	2.2502
2000.0	2.1026	34.5925	2.3785
2500.0	1.7895	34.6373	2.8741
3000.0	1.6115	34.6629	3.2090
3500.0	1.5337	34.6765	3.4231
4000.0	1.5422	34.6812	3.4977
4500.0	1.5803	34.6832	3.5432
4542.0	1.5847	34.6834	3.5365

AS14 29°59.17′N, 134°36.02′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	22.6310	34.7001	4.8913
30.0	21.6303	34.6982	4.9309
50.0	21.2762	34.7115	4.9955
75.0	20.5307	34.8095	4.9258
100.0	20.2161	34.8351	4.9065
150.0	19.7442	34.8612	4.8338
200.0	19.0587	34.9168	4.9358
300.0	18.0951	34.8756	4.7525
400.0	17.0429	34.7890	4.5311
500.0	15.1534	34.6356	4.2723
600.0	12.5157	34.4426	4.0991
700.0	9.6104	34.2635	3.5795
800.0	7.2327	34.1933	2.8632
900.0	5.8212	34.2086	2.1827
1000.0	4.7100	34.2415	1.6883
1100.0	4.0976	34.3294	1.4420
1200.0	3.6128	34.3864	1.3719
1300.0	3.3000	34.4269	1.4014
1400.0	3.0112	34.4647	1.5257
1500.0	2.8582	34.4927	1.6725
1600.0	2.6810	34.5150	1.7877
1700.0	2.4992	34.5366	1.8869
1800.0	2.3536	34.5583	2.0924
1900.0	2.2109	34.5757	2.1935
2000.0	2.1218	34.5890	2.3163
2500.0	1.7806	34.6377	2.8790
3000.0	1.6003	34.6635	3.2418
3500.0	1.5314	34.6760	3.4204
4000.0	1.5391	34.6810	3.5044
4500.0	1.5769	34.6830	3.5571
4505.0	1.5772	34.6831	3.5268

AS15 29°39.49′N, 134°45.38′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	21.2228	34.6906	5.1077
30.0	21.2230	34.6903	5.1002
50.0	21.1533	34.7112	5.1104
75.0	20.0449	34.8081	5.0669
100.0	19.1664	34.8319	5.2744
150.0	18.4586	34.9011	5.1400
200.0	18.2317	34.8913	5.1802
300.0	18.0348	34.8897	5.1578
400.0	17.7167	34.8738	4.9036
500.0	15.4740	34.6556	4.1939
600.0	12.7027	34.4624	3.9180
700.0	9.6088	34.2637	3.5685
800.0	7.4128	34.1901	2.9524
900.0	5.8725	34.1944	2.2250
1000.0	4.7730	34.2870	1.6828
1100.0	3.9802	34.3437	1.4256
1200.0	3.5722	34.3967	1.4093
1300.0	3.2192	34.4378	1.4476
1400.0	2.9666	34.4765	1.6071
1500.0	2.7767	34.5007	1.7038
1600.0	2.6034	34.5241	1.8639
1700.0	2.4528	34.5426	1.9691
1800.0	2.3039	34.5632	2.1280
1900.0	2.1678	34.5812	2.2961
2000.0	2.0726	34.5941	2.4096
2500.0	1.7660	34.6383	2.9213
3000.0	1.5894	34.6633	3.2542
3500.0	1.5297	34.6750	3.4176
4000.0	1.5428	34.6792	3.4995
4500.0	1.5789	34.6815	3.5607
4584.0	1.5859	34.6817	3.5513

AS16 29°19.62′N, 134°55.62′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	20.5803	34.7299	5.2153
30.0	20.5144	34.7406	5.1793
50.0	19.8984	34.8600	4.7389
75.0	19.3408	34.8785	4.9991
100.0	18.8312	34.8990	4.8226
150.0	18.3647	34.8990	5.1164
200.0	18.2065	34.8894	5.1346
300.0	18.0076	34.8931	5.0899
400.0	17.2866	34.8258	4.6076
500.0	15.0384	34.6284	4.1503
600.0	12.0904	34.4188	3.8037
700.0	8.6020	34.2355	3.1161
800.0	6.7332	34.1827	2.6793
900.0	5.1194	34.2134	1.8824
1000.0	4.4025	34.2853	1.5516
1100.0	3.7579	34.3567	1.3707
1200.0	3.3716	34.4096	1.3828
1300.0	3.1168	34.4543	1.5455
1400.0	2.8973	34.4850	1.6663
1500.0	2.7017	34.5118	1.8063
1600.0	2.4963	34.5379	1.9633
1700.0	2.3607	34.5554	2.0768
1800.0	2.2543	34.5696	2.1954
1900.0	2.1383	34.5854	2.3274
2000.0	2.0497	34.5978	2.4602
2500.0	1.7708	34.6383	2.9216
3000.0	1.5790	34.6645	3.2887
3500.0	1.5264	34.6752	3.4241
4000.0	1.5405	34.6794	3.4953
4500.0	1.5834	34.6809	3.5307
4921.0	1.6230	34.6823	3.5379

AS17 28°58.85′N, 135°06.50′E

P(db)	T(°C)	S(psu)	O(ml/l)
20.0	21.5117	34.7154	5.0745
30.0	21.5091	34.7155	5.0473
50.0	19.8762	34.8190	5.1442
75.0	19.2470	34.8722	4.8907
100.0	18.7582	34.8771	5.2232
150.0	18.3035	34.8825	5.1365
200.0	18.1734	34.8869	5.1270
300.0	17.9298	34.8911	5.0048
400.0	16.8959	34.7758	4.4070
500.0	14.3734	34.5777	4.0089
600.0	11.2133	34.3580	3.7860
700.0	8.3959	34.2076	3.3405
800.0	6.4629	34.1763	2.5643
900.0	5.1327	34.2622	1.8413
1000.0	4.1520	34.3207	1.4906
1100.0	3.7538	34.3725	1.4279
1200.0	3.3767	34.4214	1.4465
1300.0	3.1071	34.4471	1.4327
1400.0	2.8613	34.4794	1.5458
1500.0	2.7006	34.5074	1.7093
1600.0	2.5157	34.5353	1.9344
1700.0	2.4127	34.5494	2.0369
1800.0	2.2603	34.5694	2.1768
1900.0	2.1568	34.5829	2.2935
2000.0	2.0589	34.5969	2.4379
2500.0	1.7564	34.6403	2.9361
3000.0	1.5777	34.6647	3.2840
3500.0	1.5272	34.6753	3.4265
4000.0	1.5366	34.6799	3.5196
4500.0	1.5739	34.6818	3.5593
4656.0	1.5888	34.6825	3.5918

AS18 28°38.42′N, 135°16.80′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.9299	34.7679	5.1218
20.0	20.9322	34.7680	5.1224
30.0	20.9310	34.7710	5.1150
50.0	19.6707	34.9499	4.8742
75.0	19.1849	34.9479	4.9139
100.0	18.8375	34.9342	4.8291
150.0	18.2549	34.8882	4.6917
200.0	17.8930	34.8801	4.9379
300.0	16.7700	34.7763	4.5535
400.0	14.6888	34.6012	4.2114
500.0	12.1677	34.4303	3.8317
600.0	9.3932	34.2635	3.4263
700.0	6.9180	34.1689	2.7676
800.0	5.6756	34.2174	2.0763
900.0	4.5662	34.3048	1.6001
1000.0	3.8168	34.3652	1.3988
1100.0	3.3906	34.4092	1.3889
1200.0	3.0812	34.4588	1.5543
1300.0	2.8369	34.4910	1.6576
1400.0	2.6587	34.5139	1.7869
1500.0	2.5059	34.5358	1.9516
1600.0	2.3836	34.5520	2.0543
1700.0	2.2396	34.5703	2.1882
1800.0	2.1482	34.5832	2.3051
1900.0	2.0665	34.5949	2.4221
2000.0	1.9837	34.6062	2.5340
2500.0	1.7181	34.6440	2.9747
3000.0	1.5663	34.6657	3.2885
3500.0	1.5194	34.6758	3.4560
4000.0	1.5329	34.6798	3.5140
4500.0	1.5716	34.6818	3.5518
5000.0	1.6243	34.6828	3.5802
5005.0	1.6249	34.6828	3.5481

AS19 28°16.46′N, 135°27.63′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.7526	34.8407	5.1384
20.0	20.7549	34.8405	5.1490
30.0	20.7567	34.8406	5.1296
50.0	19.4239	34.9461	5.0906
75.0	18.8707	34.9406	4.8424
100.0	18.4956	34.9064	4.9319
150.0	18.0898	34.8928	5.0348
200.0	17.9071	34.8928	4.9992
300.0	16.8840	34.7879	4.5713
400.0	14.8567	34.6173	4.1513
500.0	12.1671	34.4230	3.8699
600.0	9.4846	34.2538	3.5648
700.0	7.1695	34.1910	2.7418
800.0	5.7330	34.2383	2.0474
900.0	4.5668	34.3079	1.6012
1000.0	3.8452	34.3664	1.4443
1100.0	3.4171	34.4174	1.4395
1200.0	3.1471	34.4446	1.4086
1300.0	2.8579	34.4794	1.5396
1400.0	2.6376	34.5113	1.7216
1500.0	2.4857	34.5319	1.8610
1600.0	2.3603	34.5495	1.9674
1700.0	2.2424	34.5676	2.1497
1800.0	2.1339	34.5846	2.3238
1900.0	2.0283	34.6003	2.4951
2000.0	1.9574	34.6106	2.5623
2500.0	1.6728	34.6494	3.0569
3000.0	1.5483	34.6678	3.3109
3500.0	1.5132	34.6764	3.4426
4000.0	1.5342	34.6797	3.5024
4500.0	1.5697	34.6818	3.5455
5000.0	1.6238	34.6829	3.5801
5064.0	1.6319	34.6829	3.5973

AS20 27°59.13′N, 135°36.88′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	21.3327	34.8151	5.0965
20.0	21.3315	34.8158	5.0644
30.0	21.0396	34.8503	5.0826
50.0	19.9897	34.9187	5.0988
75.0	19.2322	34.9316	4.8403
100.0	18.7804	34.9372	4.9448
150.0	18.1199	34.8839	4.7116
200.0	17.5380	34.8439	4.6944
300.0	16.4101	34.7443	4.4663
400.0	13.9689	34.5471	4.1348
500.0	11.4048	34.3638	3.8840
600.0	8.4399	34.2349	3.0930
700.0	6.3563	34.1983	2.4191
800.0	5.0281	34.2593	1.7596
900.0	4.1866	34.3289	1.4791
1000.0	3.4826	34.4030	1.4118
1100.0	3.1782	34.4444	1.4969
1200.0	2.9789	34.4699	1.5784
1300.0	2.7664	34.4949	1.6575
1400.0	2.5513	34.5251	1.8421
1500.0	2.3734	34.5493	2.0085
1600.0	2.2645	34.5639	2.1204
1700.0	2.1476	34.5817	2.3024
1800.0	2.0499	34.5960	2.4386
1900.0	1.9812	34.6061	2.5486
2000.0	1.9149	34.6165	2.6642
2500.0	1.6892	34.6479	3.0509
3000.0	1.5660	34.6658	3.2812
3500.0	1.5303	34.6747	3.4267
4000.0	1.5253	34.6800	3.5352
4500.0	1.5667	34.6818	3.5684
5000.0	1.6220	34.6828	3.5782
5339.0	1.6654	34.6831	3.5932

AS22 27°00.19′N, 136°06.87′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.1151	34.7094	4.9939
20.0	22.0725	34.7095	4.9861
30.0	21.9651	34.7277	4.9679
50.0	21.3662	34.8066	4.9350
75.0	20.0979	34.8720	4.6262
100.0	19.8887	34.8812	4.6282
150.0	19.2768	34.9018	4.7242
200.0	18.7796	34.8886	4.5995
300.0	17.4603	34.8198	4.4158
400.0	15.2685	34.6466	4.1020
500.0	12.3446	34.4415	3.6675
600.0	9.3221	34.2505	3.5031
700.0	6.9003	34.1543	2.8130
800.0	5.3328	34.1799	2.0585
900.0	4.6494	34.2297	1.6867
1000.0	3.9226	34.3261	1.3544
1100.0	3.5162	34.3817	1.3175
1200.0	3.1539	34.4331	1.3573
1300.0	2.9370	34.4632	1.4365
1400.0	2.7726	34.4866	1.5077
1500.0	2.5909	34.5127	1.6518
1600.0	2.3523	34.5480	1.9191
1700.0	2.2520	34.5631	2.0503
1800.0	2.1355	34.5815	2.2248
1900.0	2.0401	34.5968	2.4062
2000.0	1.9552	34.6104	2.5650
2500.0	1.7464	34.6430	2.9391
3000.0	1.6146	34.6610	3.1980
3500.0	1.5444	34.6730	3.3909
4000.0	1.5390	34.6787	3.4953
4500.0	1.5717	34.6816	3.5610
4721.0	1.5955	34.6817	3.5316

AS23 26°29.60′N, 136°20.51′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.4047	34.7033	4.9909
20.0	22.1641	34.7005	4.9631
30.0	21.9397	34.7266	4.9685
50.0	20.9190	34.9007	5.0667
75.0	19.9866	34.8923	4.6768
100.0	19.5804	34.9035	4.7927
150.0	19.1197	34.9284	4.9173
200.0	18.8425	34.9188	5.0035
300.0	17.5731	34.8361	4.4896
400.0	15.7444	34.6843	4.2314
500.0	13.2996	34.4983	3.9440
600.0	9.9619	34.2711	3.6467
700.0	7.4895	34.1631	3.0046
800.0	5.9882	34.1632	2.3415
900.0	4.7909	34.2242	1.7361
1000.0	4.0817	34.3085	1.4132
1100.0	3.4768	34.3883	1.2960
1200.0	3.1797	34.4286	1.3492
1300.0	2.9295	34.4711	1.5313
1400.0	2.7031	34.5003	1.6309
1500.0	2.4926	34.5265	1.7625
1600.0	2.3429	34.5490	1.9229
1700.0	2.2891	34.5577	1.9943
1800.0	2.1802	34.5751	2.1801
1900.0	2.0281	34.5984	2.4097
2000.0	1.9601	34.6099	2.5418
2500.0	1.7598	34.6425	2.9440
3000.0	1.6190	34.6607	3.1905
3008.0	1.6190	34.6606	3.1944

AS24 25°59.70′N, 136°34.91′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.5872	34.9951	4.7545
20.0	24.5777	34.9945	4.7403
30.0	22.5873	35.0507	4.7026
50.0	21.1014	35.0013	4.6871
75.0	20.0276	34.9503	4.7163
100.0	19.6038	34.9527	4.6519
150.0	18.8318	34.9347	4.7768
200.0	18.2029	34.8895	4.6573
300.0	17.0711	34.7991	4.5181
400.0	14.5730	34.5917	4.0594
500.0	11.8801	34.4001	3.8524
600.0	8.8295	34.2163	3.3734
700.0	6.8686	34.1675	2.7203
800.0	5.4946	34.1971	2.0607
900.0	4.6237	34.2445	1.6539
1000.0	3.8391	34.3480	1.3676
1100.0	3.4044	34.4020	1.3408
1200.0	3.0805	34.4451	1.4121
1300.0	2.8494	34.4769	1.4939
1400.0	2.6735	34.4997	1.5661
1500.0	2.4971	34.5246	1.7101
1600.0	2.3121	34.5543	1.9959
1700.0	2.1750	34.5785	2.2273
1800.0	2.0864	34.5935	2.3994
1900.0	2.0212	34.6032	2.4923
2000.0	1.9662	34.6124	2.6060
2500.0	1.7291	34.6439	2.9891
3000.0	1.5949	34.6634	3.2394
3500.0	1.5309	34.6744	3.4070
4000.0	1.5443	34.6784	3.4823
4500.0	1.5745	34.6811	3.5280
4866.0	1.6095	34.6820	3.5549

AS26 24°59.88′N, 137°03.85′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	26.3881	34.7725	4.5175
20.0	26.3806	34.7808	4.5113
30.0	25.9696	34.8906	4.6178
50.0	23.9467	34.9804	4.6446
75.0	22.1338	35.0059	4.4985
100.0	20.9647	34.9724	4.6260
150.0	19.4791	34.9351	4.5256
200.0	18.2051	34.8789	4.5666
300.0	16.1414	34.7179	4.3370
400.0	13.6006	34.5115	4.1186
500.0	11.0320	34.3208	3.9332
600.0	8.0331	34.1541	3.2878
700.0	5.9419	34.1366	2.3170
800.0	5.0817	34.2020	1.7306
900.0	4.3986	34.3000	1.3462
1000.0	4.0894	34.3589	1.3184
1100.0	3.7104	34.4143	1.3556
1200.0	3.3332	34.4391	1.3647
1300.0	3.0430	34.4696	1.4462
1400.0	2.8251	34.4935	1.5518
1500.0	2.5724	34.5261	1.7737
1600.0	2.4101	34.5563	2.0365
1700.0	2.2797	34.5729	2.1840
1800.0	2.2009	34.5854	2.3191
1900.0	2.1158	34.5985	2.4482
2000.0	2.0383	34.6094	2.5605
2500.0	1.7753	34.6414	2.9373
3000.0	1.6301	34.6596	3.1979
3500.0	1.5615	34.6715	3.3700
4000.0	1.5321	34.6792	3.5079
4500.0	1.5646	34.6820	3.5728
5000.0	1.6178	34.6829	3.5988
5163.0	1.6382	34.6830	3.6153

PC01 34°00.59′N, 139°59.93′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.1549	34.6946	5.1055
20.0	22.0824	34.6918	5.0760
30.0	21.8049	34.6785	5.0177
50.0	19.2804	34.7678	4.3522
75.0	17.4799	34.7271	4.3967
100.0	16.9528	34.7092	4.4605
150.0	15.7484	34.6654	4.2496
200.0	13.8971	34.5606	3.9326
300.0	10.6894	34.3893	3.4064
400.0	7.1759	34.2506	2.6220
500.0	5.2708	34.2795	2.0926
600.0	4.4254	34.2898	1.7667
700.0	3.8858	34.3397	1.5356
800.0	3.3842	34.3654	1.2080
900.0	3.2790	34.4186	1.5826
1000.0	2.7713	34.4633	1.2886
1067.0	2.7189	34.4901	1.6306

PC02 34°00.28′N, 140°15.60′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	21.0322	34.6209	5.1464
20.0	20.7979	34.5890	5.1421
30.0	20.6650	34.6203	4.9366
50.0	19.4837	34.6523	4.8815
75.0	18.1398	34.6890	4.7539
100.0	17.3480	34.7110	4.5688
150.0	15.5283	34.6516	4.0651
200.0	14.3470	34.5787	3.9956
300.0	10.6149	34.3925	3.2413
400.0	8.5575	34.3080	2.9685
500.0	5.9438	34.2480	2.2195
600.0	4.2985	34.2780	1.6038
700.0	3.6662	34.3159	1.2197
800.0	3.3635	34.3765	1.2268
900.0	3.0810	34.4040	1.1131
1000.0	2.8532	34.4325	1.0485
1100.0	2.7074	34.4614	1.1194
1161.0	2.7301	34.4730	1.3257

PC03 34°02.00′N, 140°31.00′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.2831	34.7322	4.8539
20.0	23.2845	34.7331	4.8421
30.0	22.9350	34.7088	4.8807
50.0	21.1546	34.6331	4.6030
75.0	20.2760	34.5325	4.6827
100.0	19.5688	34.7035	4.5711
150.0	17.5588	34.7347	4.2082
200.0	14.6997	34.6035	3.8443
300.0	11.8940	34.4444	3.5468
400.0	8.9922	34.2911	3.1341
500.0	6.6214	34.2127	2.4676
600.0	5.0888	34.2934	1.8869
700.0	4.1735	34.3273	1.5211
800.0	3.6074	34.3563	1.3069
900.0	3.2915	34.3880	1.1884
1000.0	3.1147	34.4199	1.2616
1100.0	2.8426	34.4491	1.1224
1200.0	2.6575	34.4701	1.0950
1300.0	2.4887	34.4940	1.0972
1400.0	2.3726	34.5145	1.1796
1500.0	2.2889	34.5308	1.2483
1600.0	2.2007	34.5475	1.3770
1700.0	2.1178	34.5637	1.4843
1800.0	2.0751	34.5724	1.5683
1900.0	1.9969	34.5874	1.7025
2000.0	1.9383	34.5969	1.8576
2076.0	1.8974	34.6040	1.9352

PC04 34°01.71′N, 140°52.48′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.4141	34.7600	5.0111
20.0	23.4187	34.7602	4.9722
30.0	23.4144	34.7607	4.9552
50.0	23.4108	34.7598	4.9211
75.0	22.7707	34.7121	4.8450
100.0	22.2540	34.7214	4.7580
150.0	20.6800	34.8549	4.6274
200.0	18.5011	34.7848	4.2051
300.0	15.2413	34.6422	4.1812
400.0	12.0007	34.4257	3.7861
500.0	8.6514	34.2880	2.9987
600.0	6.6608	34.2126	2.5571
700.0	4.8762	34.0992	2.1528
800.0	4.2101	34.2016	1.4635
900.0	3.6949	34.2985	1.1168
1000.0	3.4588	34.3571	1.2272
1100.0	3.1645	34.4211	1.2898
1200.0	2.8716	34.4452	1.1889
1300.0	2.6936	34.4669	1.1145
1400.0	2.4879	34.4959	1.1224
1500.0	2.3470	34.5206	1.2112
1600.0	2.2462	34.5407	1.3309
1700.0	2.1438	34.5590	1.4715
1800.0	2.0804	34.5712	1.5825
1900.0	1.9918	34.5870	1.7569
2000.0	1.9326	34.5985	1.8601
2500.0	1.6649	34.6429	2.5909
3000.0	1.5349	34.6643	3.0179
3332.0	1.4923	34.6720	3.2315

PC05 34°01.80′N, 141°10.66′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.4987	34.7240	4.8584
20.0	23.5009	34.7242	4.8341
30.0	23.4994	34.7245	4.8264
50.0	23.5019	34.7249	4.8197
75.0	22.8425	34.8037	4.4454
100.0	21.7418	34.7564	4.4476
150.0	20.0560	34.8290	4.3871
200.0	18.8720	34.8558	4.7088
300.0	16.5306	34.7244	4.3078
400.0	13.9767	34.5523	4.1099
500.0	10.8002	34.3684	3.5090
600.0	7.9427	34.1211	3.7712
700.0	6.1884	34.0946	2.9272
800.0	5.7524	34.2595	2.1905
900.0	4.2557	34.2718	1.5123
1000.0	3.8156	34.3254	1.2952
1100.0	3.5038	34.3858	1.4008
1200.0	3.1695	34.4033	1.1257
1300.0	2.8681	34.4509	1.1751
1400.0	2.6360	34.4760	1.0871
1500.0	2.4743	34.4974	1.1179
1600.0	2.3368	34.5226	1.2222
1700.0	2.2461	34.5402	1.3208
1800.0	2.1362	34.5612	1.4687
1900.0	2.0412	34.5787	1.6480
2000.0	1.9625	34.5930	1.8197
2500.0	1.6848	34.6400	2.5107
3000.0	1.5435	34.6632	2.9955
3500.0	1.4876	34.6742	3.2776
4000.0	1.4499	34.6829	3.5268
4500.0	1.4621	34.6869	3.6602
4895.0	1.5009	34.6877	3.6698

PC06 33°59.75′N, 141°28.51′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.2810	34.6638	4.8859
20.0	23.2797	34.6635	4.8645
30.0	23.2754	34.6625	4.8652
50.0	22.8274	34.7387	4.5810
75.0	21.6084	34.7644	4.5133
100.0	20.3574	34.7888	4.4235
150.0	19.1445	34.8241	4.5481
200.0	18.1715	34.8226	4.4480
300.0	16.3761	34.7222	4.4495
400.0	14.4064	34.5806	4.3405
500.0	11.9205	34.3941	4.2527
600.0	9.1482	34.2089	3.8259
700.0	7.2131	34.1381	3.2510
800.0	6.1343	34.2503	2.3152
900.0	4.3419	34.2090	1.5568
1000.0	3.8798	34.2752	1.2109
1100.0	3.5023	34.3390	1.0884
1200.0	3.2617	34.3839	1.1634
1300.0	3.0304	34.4281	1.1676
1400.0	2.8055	34.4543	1.0296
1500.0	2.6286	34.4830	1.1705
1600.0	2.4591	34.5071	1.1162
1700.0	2.3542	34.5279	1.2220
1800.0	2.2283	34.5501	1.3600
1900.0	2.1268	34.5668	1.5716
2000.0	2.0695	34.5772	1.6800
2500.0	1.7381	34.6339	2.4669
3000.0	1.5812	34.6590	2.9287
3500.0	1.4999	34.6727	3.2278
4000.0	1.4698	34.6807	3.4614
4500.0	1.4736	34.6855	3.6628
5000.0	1.5101	34.6880	3.7233
5500.0	1.5596	34.6897	3.7832
6000.0	1.6194	34.6911	3.8087
6500.0	1.6864	34.6922	3.8306
6504.0	1.6870	34.6921	3.8538

PC07 33°59.25′N, 141°45.39′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.4783	34.7134	4.9271
20.0	22.0257	34.7374	4.9340
30.0	20.7518	34.7773	4.9657
50.0	19.1607	34.8190	5.0844
75.0	18.5889	34.8595	5.1144
100.0	18.1878	34.8983	5.0393
150.0	17.7856	34.8838	5.0624
200.0	17.5200	34.8525	5.2040
300.0	17.0574	34.8358	4.9960
400.0	15.1324	34.6400	4.2346
500.0	12.6761	34.4730	4.1222
600.0	9.9956	34.2836	3.8620
700.0	7.3846	34.1310	3.3441
800.0	5.8993	34.1563	2.5275
900.0	4.5136	34.1423	1.6316
1000.0	4.2315	34.2510	1.5024
1100.0	3.7965	34.3588	1.5605
1200.0	3.5207	34.3903	1.4216
1300.0	3.1578	34.4196	1.1014
1400.0	2.8496	34.4464	0.9740
1500.0	2.6709	34.4763	1.0318
1600.0	2.4902	34.5053	1.1008
1700.0	2.3394	34.5276	1.2162
1800.0	2.2345	34.5446	1.3215
1900.0	2.1572	34.5617	1.5185
2000.0	2.0711	34.5771	1.6401
2500.0	1.7677	34.6290	2.3259
3000.0	1.5869	34.6583	2.8795
3500.0	1.5121	34.6712	3.1927
4000.0	1.4744	34.6802	3.4413
4500.0	1.4753	34.6854	3.6112
5000.0	1.5081	34.6879	3.7218
5500.0	1.5605	34.6893	3.7571
6000.0	1.6205	34.6908	3.8155
6500.0	1.6875	34.6919	3.7918
6507.0	1.6885	34.6920	3.8114

PC08 34°00.46′N, 142°02.61′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.0150	34.6306	5.2748
20.0	19.9836	34.7024	5.2687
30.0	19.9699	34.7047	5.2692
50.0	19.6263	34.7735	5.2833
75.0	18.4409	34.8677	5.0511
100.0	18.0999	34.8752	4.8788
150.0	17.7036	34.8592	4.8236
200.0	17.3171	34.8307	4.7189
300.0	16.1433	34.7244	4.3816
400.0	14.6854	34.6051	4.1996
500.0	12.6831	34.4606	4.0182
600.0	10.0460	34.2808	3.8713
700.0	8.2090	34.1980	3.3294
800.0	6.3706	34.1067	2.9410
900.0	5.4050	34.2470	1.9925
1000.0	4.5859	34.3122	1.7135
1100.0	3.9402	34.3587	1.5510
1200.0	3.4363	34.3875	1.3124
1300.0	3.1463	34.4253	1.2502
1400.0	2.8453	34.4569	1.1883
1500.0	2.6053	34.4869	1.0776
1600.0	2.4853	34.5043	1.1203
1700.0	2.3621	34.5241	1.1662
1800.0	2.2692	34.5419	1.2704
1900.0	2.1648	34.5613	1.4568
2000.0	2.0759	34.5761	1.6257
2500.0	1.7624	34.6299	2.3336
3000.0	1.5988	34.6567	2.8370
3500.0	1.5165	34.6713	3.1824
4000.0	1.4873	34.6788	3.3945
4500.0	1.4833	34.6846	3.5763
5000.0	1.5109	34.6879	3.6917
5500.0	1.5615	34.6894	3.7304
6000.0	1.6211	34.6908	3.7621
6500.0	1.6888	34.6919	3.8068
6504.0	1.6893	34.6920	3.8097

PC09 34°00.99′N, 142°19.51′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.7853	34.6660	5.1809
20.0	20.5629	34.7174	5.1696
30.0	20.5127	34.7196	5.1867
50.0	19.6632	34.8261	5.2314
75.0	18.8474	34.9114	5.1705
100.0	18.5158	34.9114	5.0215
150.0	18.0054	34.9047	4.9870
200.0	17.6095	34.8581	4.9968
300.0	17.1514	34.8441	5.0870
400.0	15.5581	34.6697	4.3239
500.0	13.3524	34.5039	4.0993
600.0	10.8986	34.3446	3.9902
700.0	8.9405	34.2664	3.3507
800.0	6.8697	34.1823	2.7690
900.0	5.4152	34.2112	2.0477
1000.0	4.3669	34.3372	1.6481
1100.0	3.8435	34.3797	1.5491
1200.0	3.4436	34.4017	1.3809
1300.0	3.1992	34.4349	1.5072
1400.0	2.9246	34.4561	1.3198
1500.0	2.6362	34.4771	1.0142
1600.0	2.4856	34.5059	1.0743
1700.0	2.3752	34.5239	1.1717
1800.0	2.2593	34.5422	1.3123
1900.0	2.1641	34.5609	1.4315
2000.0	2.0794	34.5757	1.5412
2500.0	1.7690	34.6298	2.3165
3000.0	1.6027	34.6568	2.8608
3500.0	1.5235	34.6706	3.1730
4000.0	1.4836	34.6794	3.4025
4500.0	1.4840	34.6845	3.5695
5000.0	1.5100	34.6879	3.6871
5500.0	1.5592	34.6899	3.7437
6000.0	1.6183	34.6910	3.7841
6500.0	1.6857	34.6922	3.8091
6508.0	1.6868	34.6922	3.8010

PC10 33°59.30′N, 142°37.80′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.1804	34.7180	5.2067
20.0	20.0022	34.7342	5.2206
30.0	19.9725	34.7373	5.2360
50.0	19.8531	34.7594	5.2243
75.0	18.9747	34.8648	5.0826
100.0	18.3973	34.8875	4.9829
150.0	18.1616	34.8972	5.0831
200.0	18.0122	34.8967	5.1052
300.0	17.5994	34.8646	4.9220
400.0	16.3097	34.7377	4.3508
500.0	13.6968	34.5372	4.0310
600.0	11.2875	34.3607	3.9490
700.0	8.5038	34.2018	3.4116
800.0	6.3833	34.1319	2.8696
900.0	4.6157	34.1393	1.7769
1000.0	4.5295	34.3187	1.6915
1100.0	3.8947	34.3719	1.5459
1200.0	3.4116	34.3956	1.3256
1300.0	3.0594	34.4226	0.9614
1400.0	2.8046	34.4529	0.9407
1500.0	2.6148	34.4815	0.9798
1600.0	2.4922	34.5068	1.0845
1700.0	2.3593	34.5252	1.2155
1800.0	2.2381	34.5478	1.3547
1900.0	2.1594	34.5618	1.4575
2000.0	2.0447	34.5819	1.6561
2500.0	1.7468	34.6322	2.3481
3000.0	1.5815	34.6590	2.8847
3500.0	1.5131	34.6715	3.1662
4000.0	1.4748	34.6801	3.4115
4500.0	1.4799	34.6849	3.5916
5000.0	1.5049	34.6885	3.7044
5500.0	1.5514	34.6904	3.7647
5965.0	1.6071	34.6917	3.8182

PC11 33°58.07′N, 142°55.41′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.0613	34.7753	5.1891
20.0	20.0193	34.7730	5.2131
30.0	19.9889	34.7724	5.2280
50.0	19.9353	34.7743	5.2308
75.0	19.8268	34.7790	5.2339
100.0	19.1119	34.8288	5.2507
150.0	18.0637	34.8766	5.0382
200.0	17.6879	34.8630	5.0891
300.0	17.1814	34.8346	4.8517
400.0	15.8257	34.6961	4.2373
500.0	12.7367	34.4585	4.1186
600.0	8.4732	34.0513	4.8730
700.0	6.2767	33.9889	3.9265
800.0	4.9217	34.0068	2.7493
900.0	4.3092	34.2128	1.5004
1000.0	4.0179	34.2832	1.3882
1100.0	3.4759	34.3378	1.0066
1200.0	3.2340	34.3792	0.9471
1300.0	3.0191	34.4146	0.9437
1400.0	2.7379	34.4607	0.9446
1500.0	2.5794	34.4860	1.0459
1600.0	2.4640	34.5056	1.1252
1700.0	2.3321	34.5299	1.2333
1800.0	2.2204	34.5502	1.3554
1900.0	2.1368	34.5653	1.4866
2000.0	2.0393	34.5825	1.6497
2500.0	1.7208	34.6361	2.4047
3000.0	1.5736	34.6599	2.8926
3500.0	1.4876	34.6739	3.2232
4000.0	1.4535	34.6821	3.4623
4500.0	1.4614	34.6866	3.6068
5000.0	1.4851	34.6903	3.7468
5153.0	1.4997	34.6908	99.9999

PC12 33°57.74′N, 143°15.49′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.2633	34.7533	4.8820
20.0	22.2650	34.7541	4.8803
30.0	22.2662	34.7541	4.8812
50.0	22.2671	34.7547	4.8756
75.0	22.1578	34.7516	4.8681
100.0	21.4453	34.7677	4.4580
150.0	19.0762	34.8217	4.0935
200.0	18.0210	34.8547	4.5582
300.0	15.8718	34.6942	4.0823
400.0	12.6263	34.4740	3.7748
500.0	8.2452	34.0384	4.5998
600.0	6.2374	34.0332	3.3720
700.0	5.0852	34.1000	2.2819
800.0	4.5121	34.2092	1.6376
900.0	4.1167	34.2564	1.3880
1000.0	3.7438	34.3181	1.2035
1100.0	3.2889	34.3729	1.0320
1200.0	3.0179	34.4123	1.0575
1300.0	2.7876	34.4452	0.9935
1400.0	2.6073	34.4747	1.0149
1500.0	2.4791	34.4961	1.0531
1600.0	2.3617	34.5190	1.1518
1700.0	2.2280	34.5433	1.3089
1800.0	2.1373	34.5614	1.4421
1900.0	2.0730	34.5762	1.5762
2000.0	1.9850	34.5911	1.7337
2500.0	1.7059	34.6380	2.4479
3000.0	1.5543	34.6622	2.9345
3500.0	1.4801	34.6748	3.2527
4000.0	1.4539	34.6821	3.4584
4500.0	1.4613	34.6866	3.6267
5000.0	1.4948	34.6891	3.7385
5500.0	1.5440	34.6910	3.7992
5513.0	1.5454	34.6911	3.8133

PC13 33°56.80′N, 143°36.88′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.1493	34.7561	4.9442
20.0	22.1108	34.7566	4.9256
30.0	22.0672	34.7579	4.9140
50.0	21.5536	34.7264	4.8927
75.0	18.9514	34.6176	4.6049
100.0	17.9579	34.6958	4.5194
150.0	14.1320	34.5831	4.8740
200.0	12.4361	34.4954	4.7836
300.0	9.8541	34.2354	4.5800
400.0	6.7507	34.0073	3.9222
500.0	5.2483	34.0558	2.7708
600.0	4.7758	34.1454	1.9710
700.0	4.3324	34.2062	1.5661
800.0	3.9414	34.3031	1.3343
900.0	3.5693	34.3520	1.2072
1000.0	3.2091	34.3921	1.0894
1100.0	3.0519	34.4244	1.1168
1200.0	2.7701	34.4495	0.9631
1300.0	2.5701	34.4777	1.0212
1400.0	2.4478	34.5012	1.0766
1500.0	2.3822	34.5141	1.1219
1600.0	2.2671	34.5362	1.2373
1700.0	2.1682	34.5553	1.3784
1800.0	2.0654	34.5742	1.5050
1900.0	1.9797	34.5889	1.6703
2000.0	1.9097	34.6017	1.8562
2500.0	1.6839	34.6408	2.5054
3000.0	1.5334	34.6643	2.9771
3500.0	1.4919	34.6733	3.2187
4000.0	1.4838	34.6791	3.3743
4500.0	1.4686	34.6859	3.5917
5000.0	1.4926	34.6894	3.7290
5316.0	1.5255	34.6902	99.9999

PC14 33°59.70′N, 144°00.70′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	17.9937	34.4486	5.6392
20.0	17.4889	34.4709	5.5687
30.0	17.0941	34.4884	5.4334
50.0	13.5325	34.5336	4.7455
75.0	12.4491	34.4698	4.5457
100.0	11.7132	34.4246	4.5953
150.0	9.7705	34.2359	4.4386
200.0	8.6157	34.1584	3.9847
300.0	6.8766	34.1337	3.0916
400.0	5.1864	34.0593	2.7196
500.0	4.9104	34.1850	1.9317
600.0	4.4029	34.2462	1.5732
700.0	3.8446	34.2824	1.2133
800.0	3.4886	34.3280	1.1049
900.0	3.2711	34.3841	1.1176
1000.0	3.0437	34.4224	1.1760
1100.0	2.7962	34.4520	1.0260
1200.0	2.6069	34.4757	1.0216
1300.0	2.4757	34.5000	1.0811
1400.0	2.3646	34.5193	1.1530
1500.0	2.2480	34.5378	1.2434
1600.0	2.1443	34.5584	1.4003
1700.0	2.0631	34.5738	1.5760
1800.0	1.9847	34.5868	1.6626
1900.0	1.9129	34.5998	1.8230
2000.0	1.8445	34.6117	1.9853
2500.0	1.6091	34.6508	2.6969
3000.0	1.4869	34.6692	3.1005
3500.0	1.4312	34.6791	3.3875
4000.0	1.4225	34.6847	3.5620
4500.0	1.4451	34.6881	3.6647
5000.0	1.4876	34.6899	3.7393
5500.0	1.5383	34.6914	3.7945
5532.0	1.5424	34.6914	99.9999

PC15 33°59.23′N, 144°45.28′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	18.2751	34.5300	5.5963
20.0	18.0537	34.5261	5.5883
30.0	17.2917	34.5689	5.3334
50.0	14.7969	34.6036	5.1571
75.0	13.5801	34.5723	4.7622
100.0	12.9986	34.5410	5.1662
150.0	11.9806	34.4868	5.3744
200.0	10.1870	34.2795	4.4512
300.0	7.4774	34.1146	3.4745
400.0	6.1528	34.1033	2.9717
500.0	5.0975	34.1494	2.1747
600.0	4.3299	34.2053	1.5226
700.0	3.9668	34.2698	1.2942
800.0	3.6546	34.3414	1.2472
900.0	3.2908	34.3831	1.1541
1000.0	2.9994	34.4203	1.0473
1100.0	2.7956	34.4499	1.0230
1200.0	2.6145	34.4772	1.0310
1300.0	2.4845	34.4991	1.0817
1400.0	2.3447	34.5221	1.1786
1500.0	2.2156	34.5470	1.3274
1600.0	2.1170	34.5641	1.4619
1700.0	2.0401	34.5785	1.6081
1800.0	1.9547	34.5935	1.7734
1900.0	1.8756	34.6064	1.9451
2000.0	1.8110	34.6172	2.0802
2500.0	1.6199	34.6488	2.6383
3000.0	1.5175	34.6657	3.0240
3500.0	1.4617	34.6761	3.2910
4000.0	1.4480	34.6823	3.4773
4500.0	1.4637	34.6860	3.6004
5000.0	1.4982	34.6887	3.6841
5500.0	1.5461	34.6905	3.7767
5864.0	1.5873	34.6918	99.9999

PC16 33°59.28′N, 145°30.56′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	17.4572	34.4875	5.6719
20.0	17.3589	34.4963	5.6440
30.0	16.4520	34.6052	5.5080
50.0	14.7285	34.5990	5.0379
75.0	13.5784	34.5658	4.8527
100.0	13.0275	34.5387	4.7655
150.0	11.7371	34.4398	4.3084
200.0	10.3612	34.2869	4.7320
300.0	8.1420	34.1026	3.9384
400.0	5.7924	34.0653	2.9242
500.0	4.8892	34.1275	2.1075
600.0	4.3498	34.2113	1.5585
700.0	3.9748	34.2943	1.3478
800.0	3.5584	34.3390	1.1605
900.0	3.3026	34.3869	1.1591
1000.0	3.0574	34.4267	1.1790
1100.0	2.8269	34.4499	1.0737
1200.0	2.6293	34.4734	1.0273
1300.0	2.4574	34.5022	1.0803
1400.0	2.3368	34.5226	1.1790
1500.0	2.2389	34.5409	1.2698
1600.0	2.1470	34.5580	1.3898
1700.0	2.0700	34.5728	1.5302
1800.0	1.9946	34.5862	1.6624
1900.0	1.9336	34.5972	1.7965
2000.0	1.8733	34.6075	1.9392
2500.0	1.6403	34.6462	2.5874
3000.0	1.5278	34.6648	2.9989
3500.0	1.4716	34.6753	3.3010
4000.0	1.4553	34.6817	3.4487
4500.0	1.4635	34.6862	3.6027
5000.0	1.4969	34.6887	3.7036
5500.0	1.5484	34.6902	3.6859
5887.0	1.5903	34.6917	3.8247

PC17 34°02.63′N, 146°16.88′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.4536	34.6657	5.3793
20.0	20.1447	34.6756	5.1896
30.0	20.0823	34.6928	5.0519
50.0	19.2651	34.7064	4.8416
75.0	18.1387	34.7084	4.5385
100.0	17.4023	34.7534	4.4263
150.0	15.2063	34.6384	4.0721
200.0	13.6202	34.5690	4.7134
300.0	11.0092	34.3724	4.2387
400.0	8.3921	34.2811	2.9297
500.0	3.9067	33.8576	3.1642
600.0	4.7082	34.1473	1.9670
700.0	4.2155	34.2299	1.4541
800.0	3.8863	34.2999	1.3245
900.0	3.5439	34.3479	1.1502
1000.0	3.2785	34.3848	1.1075
1100.0	3.0436	34.4207	1.0911
1200.0	2.8158	34.4509	1.0457
1300.0	2.6055	34.4787	1.0273
1400.0	2.4725	34.5020	1.0936
1500.0	2.3589	34.5198	1.1554
1600.0	2.2494	34.5401	1.2917
1700.0	2.1591	34.5597	1.4563
1800.0	2.0690	34.5761	1.5887
1900.0	1.9732	34.5919	1.7943
2000.0	1.8779	34.6077	1.9693
2500.0	1.6645	34.6431	2.5497
3000.0	1.5453	34.6624	2.9448
3500.0	1.4814	34.6742	3.2391
4000.0	1.4583	34.6811	3.4441
4500.0	1.4639	34.6861	3.6011
5000.0	1.4975	34.6888	3.7102
5500.0	1.5472	34.6907	3.7649
5853.0	1.5863	34.6917	3.8079

PC18 34°01.61′N, 147°01.10′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	21.4970	34.9201	5.0389
20.0	20.6452	34.8456	5.0510
30.0	20.2454	34.8086	5.0863
50.0	19.3996	34.8503	5.1812
75.0	18.5261	34.8719	5.1515
100.0	17.9441	34.8817	5.0940
150.0	17.4696	34.8481	5.0186
200.0	17.3048	34.8625	5.1258
300.0	16.6654	34.7880	4.5743
400.0	14.4362	34.5898	4.0607
500.0	11.4541	34.4043	4.3017
600.0	8.1226	34.1710	3.3094
700.0	5.9546	34.0645	3.0021
800.0	4.8147	34.1399	1.9830
900.0	4.2304	34.2109	1.4903
1000.0	3.7964	34.2853	1.1767
1100.0	3.4515	34.3419	0.9625
1200.0	3.1881	34.3861	0.9157
1300.0	2.9620	34.4267	1.0599
1400.0	2.7701	34.4516	1.0198
1500.0	2.5989	34.4814	1.0336
1600.0	2.4465	34.5071	1.0915
1700.0	2.3175	34.5303	1.2308
1800.0	2.2260	34.5494	1.3661
1900.0	2.1091	34.5698	1.4894
2000.0	2.0276	34.5850	1.6537
2500.0	1.7236	34.6353	2.3896
3000.0	1.5754	34.6594	2.8727
3500.0	1.5076	34.6714	3.1892
4000.0	1.4705	34.6801	3.4125
4500.0	1.4686	34.6853	3.5846
5000.0	1.4963	34.6886	3.7269
5500.0	1.5445	34.6905	3.7922
5908.0	1.5930	34.6918	3.8361

PC19 34°00.36′N, 147°45.98′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.0287	34.7948	5.2616
20.0	19.6367	34.8066	5.2508
30.0	19.4162	34.8034	5.2636
50.0	19.0885	34.8428	5.2769
75.0	18.0462	34.8946	4.8599
100.0	17.7470	34.8690	4.9673
150.0	17.4025	34.8471	5.1365
200.0	17.2478	34.8439	5.0240
300.0	16.8762	34.8108	4.8278
400.0	15.8993	34.7014	4.3342
500.0	13.5081	34.5220	4.0945
600.0	11.0539	34.3808	3.5003
700.0	8.1506	34.1522	3.7915
800.0	5.6520	34.0256	3.0360
900.0	4.9591	34.1402	2.0729
1000.0	4.2862	34.2054	1.5010
1100.0	3.8618	34.2793	1.2148
1200.0	3.4359	34.3437	1.0473
1300.0	3.1647	34.3888	1.0057
1400.0	2.9199	34.4279	0.9724
1500.0	2.7288	34.4613	1.0037
1600.0	2.5723	34.4883	1.0674
1700.0	2.4232	34.5132	1.1422
1800.0	2.3090	34.5331	1.2389
1900.0	2.2043	34.5547	1.4187
2000.0	2.1248	34.5682	1.5225
2500.0	1.7975	34.6250	2.2066
3000.0	1.6114	34.6552	2.7785
3500.0	1.5255	34.6699	3.1253
4000.0	1.4842	34.6791	3.3330
4500.0	1.4839	34.6841	3.5322
5000.0	1.5106	34.6876	3.6551
5500.0	1.5528	34.6901	3.7480
6000.0	1.6049	34.6921	3.8443
6004.0	1.6051	34.6921	3.8171

PC20 33°59.30′N, 148°30.00′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	19.7802	34.7945	5.2609
20.0	19.7315	34.7978	5.2621
30.0	19.5697	34.8097	5.2704
50.0	19.3375	34.8315	5.2522
75.0	18.0187	34.8840	5.0566
100.0	17.6029	34.8589	4.8698
150.0	17.3414	34.8445	5.0091
200.0	17.2252	34.8505	5.1114
300.0	17.0235	34.8477	5.0894
400.0	15.7606	34.6914	4.2368
500.0	13.3237	34.5087	4.0177
600.0	12.0674	34.4735	4.4329
700.0	9.2884	34.2585	3.4432
800.0	6.7802	34.0963	3.3233
900.0	5.5749	34.1562	2.2487
1000.0	4.4840	34.1828	1.6474
1100.0	4.0174	34.2712	1.2922
1200.0	3.6648	34.3196	1.1331
1300.0	3.3152	34.3686	1.0417
1400.0	3.0884	34.4011	0.9643
1500.0	2.8919	34.4454	0.8726
1600.0	2.6614	34.4732	0.9724
1700.0	2.5121	34.4973	1.0277
1800.0	2.3581	34.5249	1.1522
1900.0	2.2560	34.5438	1.3093
2000.0	2.1687	34.5596	1.4227
2500.0	1.8131	34.6227	2.1808
3000.0	1.6255	34.6533	2.7508
3500.0	1.5418	34.6680	3.0961
4000.0	1.4995	34.6774	3.3313
4500.0	1.4955	34.6833	3.4801
5000.0	1.5159	34.6870	3.6352
5500.0	1.5551	34.6896	3.7427
6000.0	1.6063	34.6919	3.8370
6004.0	1.6067	34.6918	3.8390

PC21 33°59.71′N, 149°14.62′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.2046	34.8292	5.2080
20.0	20.1360	34.8244	5.2070
30.0	19.9823	34.8139	5.2112
50.0	18.8772	34.8692	5.2326
75.0	17.8925	34.8792	4.7962
100.0	17.5671	34.8556	4.9367
150.0	17.3026	34.8514	5.0309
200.0	17.1809	34.8539	5.0839
300.0	16.9765	34.8508	5.1224
400.0	15.3552	34.6551	4.2023
500.0	13.2702	34.5034	4.0485
600.0	10.8550	34.3403	3.8241
700.0	7.0322	33.9596	4.6541
800.0	6.1061	34.1151	2.8580
900.0	4.7982	34.1173	2.0457
1000.0	4.3164	34.2231	1.5139
1100.0	3.8264	34.2899	1.1935
1200.0	3.5280	34.3397	1.1483
1300.0	3.2666	34.3841	1.0893
1400.0	2.9662	34.4254	1.0367
1500.0	2.7712	34.4543	1.0191
1600.0	2.5750	34.4859	1.0058
1700.0	2.4344	34.5100	1.0925
1800.0	2.3234	34.5308	1.2025
1900.0	2.2195	34.5511	1.3168
2000.0	2.1430	34.5661	1.4516
2500.0	1.7965	34.6250	2.2206
3000.0	1.6195	34.6542	2.7593
3500.0	1.5311	34.6690	3.1059
4000.0	1.4959	34.6777	3.3390
4500.0	1.4929	34.6831	3.5084
5000.0	1.5164	34.6868	3.6202
5500.0	1.5550	34.6897	3.7340
6000.0	1.6060	34.6916	3.8369
6004.0	1.6063	34.6917	3.8391

PC22 33°59.44′N, 150°00.42′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.0395	34.8185	5.2263
20.0	19.9653	34.8226	5.2351
30.0	19.9860	34.8353	5.2264
50.0	19.9571	34.8533	5.2255
75.0	19.3936	34.8683	5.2390
100.0	18.3262	34.8731	5.2072
150.0	17.5690	34.8587	4.9899
200.0	17.3087	34.8508	5.0576
300.0	16.9850	34.8390	5.0323
400.0	15.0127	34.6277	4.1139
500.0	12.4999	34.4532	4.0470
600.0	9.5431	34.2051	4.5230
700.0	6.9097	34.1132	3.2242
800.0	5.5198	34.1103	2.4686
900.0	4.7040	34.1760	1.7591
1000.0	4.3597	34.2689	1.5909
1100.0	3.7900	34.3154	1.2694
1200.0	3.4299	34.3622	1.1175
1300.0	3.1446	34.4030	1.0888
1400.0	2.8838	34.4421	1.0607
1500.0	2.6517	34.4769	1.0320
1600.0	2.4586	34.5059	1.1142
1700.0	2.3501	34.5260	1.2141
1800.0	2.2792	34.5392	1.2945
1900.0	2.2210	34.5504	1.3776
2000.0	2.1414	34.5650	1.4667
2500.0	1.7613	34.6301	2.3165
3000.0	1.6012	34.6564	2.8101
3500.0	1.5210	34.6702	3.1512
4000.0	1.4865	34.6785	3.3579
4500.0	1.4841	34.6840	3.5440
5000.0	1.5035	34.6880	3.6446
5500.0	1.5454	34.6905	3.7562
6000.0	1.6025	34.6920	3.8344
6005.0	1.6029	34.6921	3.8664

PC23 33°59.99′N, 150°46.44′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.4277	34.8973	5.2553
20.0	20.4254	34.8978	5.2264
30.0	20.2859	34.9064	5.2101
50.0	19.4278	34.9350	5.1142
75.0	18.3162	34.9020	4.7604
100.0	17.7823	34.8552	4.5850
150.0	17.3425	34.8465	4.9997
200.0	17.1780	34.8479	5.0464
300.0	16.4590	34.7681	4.3486
400.0	14.1962	34.5707	4.0275
500.0	11.4433	34.3806	3.9853
600.0	6.5010	33.8607	5.5287
700.0	6.5587	34.2015	2.4603
800.0	4.9731	34.1167	2.1520
900.0	4.6645	34.2256	1.7259
1000.0	3.9921	34.2693	1.3002
1100.0	3.6063	34.3294	1.1324
1200.0	3.2890	34.3679	1.0325
1300.0	3.0497	34.4163	1.0823
1400.0	2.8293	34.4455	1.0128
1500.0	2.6327	34.4737	1.0161
1600.0	2.5037	34.4963	1.0577
1700.0	2.3536	34.5246	1.1757
1800.0	2.2421	34.5451	1.2930
1900.0	2.1464	34.5627	1.4412
2000.0	2.0529	34.5798	1.5960
2500.0	1.7437	34.6326	2.3372
3000.0	1.5793	34.6589	2.8728
3500.0	1.5105	34.6714	3.1697
4000.0	1.4766	34.6795	3.3951
4500.0	1.4809	34.6844	3.5506
5000.0	1.5041	34.6882	3.6730
5500.0	1.5472	34.6906	3.7804
6000.0	1.6002	34.6923	3.8481
6004.0	1.6007	34.6923	3.8032

PC24 33°58.97′N, 151°31.08′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.4492	34.7326	5.1425
20.0	20.4471	34.7332	5.1147
30.0	20.3684	34.7381	5.1313
50.0	19.9672	34.7757	4.9808
75.0	19.0913	34.8905	4.8084
100.0	18.4084	34.8461	4.5636
150.0	17.8525	34.8639	4.6264
200.0	17.4492	34.8493	4.7562
300.0	16.0045	34.7078	4.1464
400.0	13.4386	34.5205	3.9025
500.0	10.2396	34.3050	3.4827
600.0	6.3358	33.9498	3.5861
700.0	5.3680	34.0841	2.5876
800.0	4.7228	34.1838	1.8368
900.0	4.1152	34.2565	1.3670
1000.0	3.6709	34.3016	1.1246
1100.0	3.4251	34.3585	1.1168
1200.0	3.1659	34.3951	1.0567
1300.0	2.9251	34.4294	0.9892
1400.0	2.6944	34.4630	0.9920
1500.0	2.5305	34.4918	1.0366
1600.0	2.3931	34.5154	1.1281
1700.0	2.3061	34.5315	1.1990
1800.0	2.2090	34.5496	1.3202
1900.0	2.1280	34.5650	1.4337
2000.0	2.0529	34.5791	1.5604
2500.0	1.7280	34.6348	2.3775
3000.0	1.5693	34.6598	2.8823
3500.0	1.4964	34.6729	3.1935
4000.0	1.4715	34.6800	3.3949
4500.0	1.4776	34.6846	3.5609
5000.0	1.4989	34.6885	3.6897
5500.0	1.5473	34.6904	3.7794
6000.0	1.6002	34.6921	3.8403
6003.0	1.6005	34.6923	3.8122

PC25 33°59.63′N, 152°16.33′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.5402	34.7159	5.1755
20.0	20.5394	34.7165	5.1702
30.0	20.5408	34.7166	5.1447
50.0	20.2983	34.7603	5.1153
75.0	19.5830	34.8364	4.7543
100.0	18.6883	34.8928	4.7083
150.0	18.1287	34.8723	4.6302
200.0	17.6615	34.8457	4.5331
300.0	15.3521	34.6599	4.0545
400.0	12.5743	34.5160	5.8417
500.0	9.7261	34.2321	4.1229
600.0	5.5858	33.9134	3.8839
700.0	4.6189	33.9958	2.6014
800.0	4.6866	34.1771	1.8360
900.0	3.9562	34.2250	1.2535
1000.0	3.5830	34.3081	1.0615
1100.0	3.3098	34.3758	1.0791
1200.0	3.0574	34.4086	1.0271
1300.0	2.8754	34.4389	1.0303
1400.0	2.6895	34.4630	0.9923
1500.0	2.5066	34.4934	1.0362
1600.0	2.3854	34.5147	1.1090
1700.0	2.2625	34.5381	1.2364
1800.0	2.1525	34.5593	1.3928
1900.0	2.0532	34.5778	1.5344
2000.0	1.9900	34.5896	1.6652
2500.0	1.7261	34.6347	2.3621
3000.0	1.5828	34.6578	2.8334
3500.0	1.5190	34.6703	3.1161
4000.0	1.4812	34.6789	3.3605
4500.0	1.4833	34.6841	3.5347
5000.0	1.5049	34.6879	3.6727
5500.0	1.5443	34.6903	3.7722
6000.0	1.5917	34.6927	3.8857
6008.0	1.5913	34.6929	3.8896

PC26 34°00.47′N, 153°01.20′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.5936	34.7248	5.1422
20.0	20.5084	34.7222	5.1156
30.0	20.4965	34.7208	5.1138
50.0	20.4569	34.7272	5.1044
75.0	20.2903	34.7483	5.0308
100.0	19.4580	34.8346	4.6794
150.0	18.7402	34.8757	4.7959
200.0	18.1850	34.8734	4.7720
300.0	15.4946	34.6697	3.9931
400.0	13.0996	34.5553	5.1727
500.0	9.9510	34.2415	4.6433
600.0	7.0729	33.9966	4.0380
700.0	5.3942	34.0569	2.7236
800.0	4.8211	34.1798	1.8897
900.0	4.1284	34.2411	1.3897
1000.0	3.7905	34.2969	1.1518
1100.0	3.4164	34.3563	1.0996
1200.0	3.1946	34.3952	1.0711
1300.0	2.9289	34.4344	1.0716
1400.0	2.7298	34.4634	1.0402
1500.0	2.5277	34.4925	1.0601
1600.0	2.4108	34.5148	1.1513
1700.0	2.2833	34.5363	1.2227
1800.0	2.1927	34.5534	1.3405
1900.0	2.1080	34.5693	1.4719
2000.0	2.0403	34.5828	1.6330
2500.0	1.7334	34.6341	2.3578
3000.0	1.5779	34.6589	2.8565
3500.0	1.5120	34.6711	3.1498
4000.0	1.4818	34.6788	3.3587
4500.0	1.4823	34.6841	3.5362
5000.0	1.5091	34.6877	3.6461
5500.0	1.5489	34.6900	3.7566
6000.0	1.6001	34.6923	3.8389
6003.0	1.6005	34.6922	3.8198

PC27 34°00.53′N, 153°45.25′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	19.7442	34.7696	5.3247
20.0	19.6933	34.7675	5.3055
30.0	19.4449	34.7848	5.3091
50.0	18.6036	34.8262	5.2904
75.0	17.8852	34.8771	4.8574
100.0	17.5959	34.8591	5.0724
150.0	17.3605	34.8534	5.0910
200.0	17.2706	34.8534	5.1182
300.0	17.0767	34.8471	5.0544
400.0	15.5235	34.6704	4.1408
500.0	13.0687	34.4883	3.9645
600.0	10.3818	34.3173	3.6680
700.0	7.3335	34.1143	3.3747
800.0	5.4733	34.0517	2.8578
900.0	4.7624	34.1382	1.9719
1000.0	4.1510	34.2425	1.3616
1100.0	3.7127	34.3131	1.1792
1200.0	3.3761	34.3659	1.0945
1300.0	3.1348	34.4008	1.0499
1400.0	2.9391	34.4360	1.0785
1500.0	2.7057	34.4638	0.9692
1600.0	2.5227	34.4929	1.0536
1700.0	2.3958	34.5162	1.1207
1800.0	2.2726	34.5385	1.2476
1900.0	2.1755	34.5577	1.3736
2000.0	2.0836	34.5741	1.5174
2500.0	1.7815	34.6269	2.2185
3000.0	1.5961	34.6567	2.8131
3500.0	1.5134	34.6708	3.1387
4000.0	1.4819	34.6788	3.3559
4500.0	1.4862	34.6838	3.5142
5000.0	1.5148	34.6869	3.6467
5500.0	1.5520	34.6899	3.7484
5984.0	1.5928	34.6926	3.8777

PC28 33°59.33′N, 154°29.47′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	19.9043	34.7263	5.2222
20.0	19.8453	34.7487	5.2289
30.0	19.6760	34.7649	5.2051
50.0	19.0371	34.7999	4.8984
75.0	18.5106	34.8211	4.5548
100.0	18.0001	34.8071	4.8525
150.0	17.5658	34.8274	4.7059
200.0	17.1515	34.8119	4.6639
300.0	15.7560	34.6874	4.4487
400.0	13.9148	34.5481	4.1070
500.0	12.6659	34.4721	4.1262
600.0	10.5437	34.3129	3.8914
700.0	8.1003	34.1892	3.3929
800.0	5.5807	34.0760	2.6670
900.0	4.6486	34.1323	1.8490
1000.0	4.1615	34.2189	1.4134
1100.0	3.7101	34.2830	1.0265
1200.0	3.4291	34.3363	0.9137
1300.0	3.1392	34.3938	1.0232
1400.0	2.8868	34.4279	0.9623
1500.0	2.7020	34.4607	0.9615
1600.0	2.5395	34.4911	1.0245
1700.0	2.3935	34.5154	1.1167
1800.0	2.2688	34.5386	1.2456
1900.0	2.1778	34.5556	1.3579
2000.0	2.0985	34.5707	1.4669
2500.0	1.7716	34.6286	2.2736
3000.0	1.5942	34.6564	2.7980
3500.0	1.5102	34.6709	3.1313
4000.0	1.4737	34.6797	3.3711
4500.0	1.4765	34.6846	3.5596
5000.0	1.5024	34.6880	3.6729
5500.0	1.5431	34.6905	3.7935
5936.0	1.5886	34.6924	3.8519

PC29 33°59.00′N, 155°13.56′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	19.7046	34.7306	5.2263
20.0	19.6991	34.7301	5.1958
30.0	19.6958	34.7293	5.1917
50.0	19.5907	34.7358	5.1048
75.0	18.3967	34.7661	4.7156
100.0	17.5103	34.7507	4.5784
150.0	16.2584	34.7154	4.2530
200.0	14.8883	34.6362	4.2742
300.0	13.5927	34.6141	5.5640
400.0	11.9150	34.4555	5.1297
500.0	9.3617	34.1343	4.9093
600.0	6.9379	34.0262	3.5983
700.0	5.0865	33.9949	2.9355
800.0	4.1379	34.0258	1.9095
900.0	4.1567	34.2112	1.4042
1000.0	3.7881	34.2789	1.1510
1100.0	3.4076	34.3322	0.9765
1200.0	3.1180	34.3733	0.9222
1300.0	2.9497	34.4152	0.9115
1400.0	2.7233	34.4558	0.9309
1500.0	2.5584	34.4840	0.9767
1600.0	2.4297	34.5073	1.0857
1700.0	2.3039	34.5296	1.1761
1800.0	2.2022	34.5504	1.3240
1900.0	2.1165	34.5661	1.4360
2000.0	2.0351	34.5814	1.5828
2500.0	1.7270	34.6329	2.2892
3000.0	1.5741	34.6589	2.8589
3500.0	1.5009	34.6719	3.1470
4000.0	1.4706	34.6800	3.4001
4500.0	1.4795	34.6846	3.5412
5000.0	1.5045	34.6876	3.6758
5500.0	1.5445	34.6907	3.7716
5947.0	1.5881	34.6924	3.8579

PC30 34°00.31′N, 155°59.14′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	18.3757	34.5923	5.6960
20.0	18.2806	34.6090	5.6763
30.0	16.4396	34.6098	5.4357
50.0	14.8619	34.5999	5.5358
75.0	13.8841	34.5999	5.4923
100.0	13.5422	34.5918	5.6404
150.0	12.9291	34.5429	5.1354
200.0	12.2826	34.4977	5.6615
300.0	9.9045	34.1979	5.4841
400.0	7.6859	34.0465	3.9895
500.0	5.3530	33.9586	3.1339
600.0	4.7755	34.0148	2.4198
700.0	4.2711	34.1193	1.6230
800.0	3.9202	34.2113	1.2318
900.0	3.5334	34.2671	0.9847
1000.0	3.3303	34.3428	0.9731
1100.0	3.0957	34.3859	0.9407
1200.0	2.8790	34.4182	0.8962
1300.0	2.7127	34.4522	0.9205
1400.0	2.5435	34.4815	0.9522
1500.0	2.4059	34.5079	1.0252
1600.0	2.2859	34.5295	1.1375
1700.0	2.1689	34.5509	1.2841
1800.0	2.0744	34.5712	1.4546
1900.0	1.9935	34.5872	1.6630
2000.0	1.9156	34.6008	1.8521
2500.0	1.6732	34.6411	2.4916
3000.0	1.5378	34.6635	2.9775
3500.0	1.4739	34.6747	3.2484
4000.0	1.4541	34.6812	3.4491
4500.0	1.4690	34.6853	3.5959
5000.0	1.4955	34.6886	3.7075
5500.0	1.5384	34.6909	3.8235
5759.0	1.5615	34.6924	3.8186

PC31 33°19.99′N, 156°00.25′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	19.0913	34.6401	5.6209
20.0	18.7278	34.6314	5.6672
30.0	17.8312	34.6729	5.5182
50.0	15.4103	34.6483	4.5345
75.0	14.2257	34.6016	4.6820
100.0	13.7858	34.5871	4.9735
150.0	12.9168	34.5354	4.9551
200.0	12.0848	34.4747	5.1151
300.0	9.7910	34.2307	4.7299
400.0	7.4447	34.1398	3.2932
500.0	5.6198	34.0735	2.7245
600.0	4.7054	34.1290	1.9583
700.0	4.2632	34.2178	1.4805
800.0	3.7522	34.2787	1.0753
900.0	3.4010	34.3343	0.8911
1000.0	3.1521	34.3817	0.9365
1100.0	2.9084	34.4224	0.8249
1200.0	2.7080	34.4542	0.8519
1300.0	2.5737	34.4776	0.8480
1400.0	2.4202	34.5061	0.9546
1500.0	2.2813	34.5319	1.2194
1600.0	2.1812	34.5503	1.3272
1700.0	2.0877	34.5679	1.4608
1800.0	2.0107	34.5828	1.6069
1900.0	1.9407	34.5952	1.7671
2000.0	1.8807	34.6051	1.8856
2500.0	1.6258	34.6469	2.5710
3000.0	1.5143	34.6661	3.0314
3500.0	1.4538	34.6768	3.3184
4000.0	1.4408	34.6830	3.4872
4500.0	1.4591	34.6866	3.6113
5000.0	1.4876	34.6897	3.7517
5500.0	1.5314	34.6920	3.8350
5656.0	1.5445	34.6929	3.8746

PC32 32°40.41′N, 156°00.94′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	18.7763	34.6316	5.7900
20.0	16.5207	34.6257	5.7102
30.0	15.7304	34.6184	5.5481
50.0	14.6506	34.6087	5.2455
75.0	13.9276	34.5926	4.9791
100.0	13.7723	34.6090	5.5897
150.0	13.5653	34.6065	5.7406
200.0	13.1766	34.5828	5.6932
300.0	11.8302	34.4495	5.5412
400.0	9.6157	34.2065	4.6961
500.0	7.0493	33.9939	4.1944
600.0	5.6643	34.0607	2.8643
700.0	4.8339	34.1476	1.9354
800.0	4.1909	34.2218	1.3591
900.0	3.7381	34.3079	1.1843
1000.0	3.3778	34.3707	1.1291
1100.0	3.1034	34.3994	0.9847
1200.0	2.8915	34.4282	0.9637
1300.0	2.6912	34.4601	0.9888
1400.0	2.5410	34.4879	1.0246
1500.0	2.4031	34.5106	1.0963
1600.0	2.2875	34.5327	1.2186
1700.0	2.1703	34.5545	1.3507
1800.0	2.0844	34.5706	1.4849
1900.0	1.9945	34.5865	1.5969
2000.0	1.9242	34.5992	1.8207
2500.0	1.6682	34.6420	2.4940
3000.0	1.5311	34.6634	2.9524
3500.0	1.4615	34.6761	3.2646
4000.0	1.4522	34.6816	3.4435
4500.0	1.4705	34.6852	3.5565
4826.0	1.4476	34.6911	3.7924

PC33 32°00.38′N, 156°02.08′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	20.6990	34.7908	5.2741
20.0	19.0790	34.8134	5.2876
30.0	18.5082	34.8335	5.1926
50.0	17.9633	34.8692	4.8951
75.0	17.6631	34.8625	5.0008
100.0	17.4448	34.8558	5.0946
150.0	17.2881	34.8551	5.2285
200.0	17.1969	34.8522	5.2353
300.0	16.3574	34.7437	4.2486
400.0	13.8835	34.6000	5.1364
500.0	11.3133	34.3601	4.4540
600.0	8.7230	34.1997	3.5819
700.0	6.4861	34.1088	3.0022
800.0	5.1842	34.1544	2.0891
900.0	4.4152	34.2097	1.5510
1000.0	3.8130	34.2783	1.1987
1100.0	3.5017	34.3392	1.1060
1200.0	3.1653	34.3844	0.9988
1300.0	2.9096	34.4242	0.9655
1400.0	2.6958	34.4578	0.9375
1500.0	2.5427	34.4847	1.0004
1600.0	2.3978	34.5126	1.1094
1700.0	2.2828	34.5344	1.2068
1800.0	2.1709	34.5554	1.3501
1900.0	2.0915	34.5703	1.4722
2000.0	2.0061	34.5851	1.6269
2500.0	1.6830	34.6395	2.4484
3000.0	1.5341	34.6630	2.9158
3500.0	1.4605	34.6760	3.2849
4000.0	1.4423	34.6830	3.4599
4500.0	1.4421	34.6880	3.6932
4502.0	1.4405	34.6882	3.6914

PC34 31°19.91′N, 156°01.23′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.6451	35.0010	5.0063
20.0	22.6268	35.0005	5.0022
30.0	22.3179	35.0448	5.0356
50.0	21.0558	35.0999	4.9942
75.0	19.6810	35.0450	4.9661
100.0	19.0782	35.0064	4.8912
150.0	17.9330	34.8821	4.9938
200.0	17.3489	34.8406	5.1334
300.0	16.8994	34.8246	5.0331
400.0	15.5368	34.6679	4.4560
500.0	13.3474	34.4949	4.2919
600.0	10.5218	34.2860	4.0571
700.0	7.5481	34.0817	3.5661
800.0	5.7161	34.0600	2.7649
900.0	4.8551	34.1585	1.9303
1000.0	4.1253	34.2204	1.3547
1100.0	3.6596	34.2850	1.0156
1200.0	3.3516	34.3434	0.9362
1300.0	3.1111	34.3963	1.0168
1400.0	2.8733	34.4401	1.0360
1500.0	2.6246	34.4722	0.9773
1600.0	2.4815	34.4989	1.0680
1700.0	2.3404	34.5248	1.1671
1800.0	2.2291	34.5449	1.2744
1900.0	2.1065	34.5679	1.4751
2000.0	2.0245	34.5827	1.5948
2500.0	1.7046	34.6371	2.3757
3000.0	1.5435	34.6612	2.8888
3500.0	1.4658	34.6751	3.2395
4000.0	1.4565	34.6814	3.3910
4500.0	1.4844	34.6842	3.5443
4816.0	1.5023	34.6861	3.5824

PC35 30°40.62′N, 156°00.16′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.1048	35.0011	5.1124
20.0	21.9621	35.0048	5.1191
30.0	20.4049	34.9966	5.1018
50.0	18.9558	34.9163	5.2277
75.0	18.0806	34.8885	5.0431
100.0	17.6575	34.8675	5.0058
150.0	17.2831	34.8476	5.1489
200.0	17.1309	34.8453	5.2179
300.0	16.9925	34.8430	5.2352
400.0	16.0844	34.7322	4.4446
500.0	13.8028	34.5352	4.5598
600.0	11.5979	34.3585	4.4305
700.0	8.6431	34.1870	3.6373
800.0	5.8927	34.0340	3.1357
900.0	4.8427	34.1011	2.1022
1000.0	4.2748	34.2148	1.4538
1100.0	3.7451	34.2888	1.1207
1200.0	3.3808	34.3538	1.0325
1300.0	3.1060	34.3964	0.9778
1400.0	2.8672	34.4350	0.9740
1500.0	2.6479	34.4690	0.9920
1600.0	2.4714	34.5003	1.0635
1700.0	2.3438	34.5231	1.1339
1800.0	2.2411	34.5430	1.2314
1900.0	2.1386	34.5622	1.3587
2000.0	2.0419	34.5802	1.5214
2500.0	1.7187	34.6349	2.3459
3000.0	1.5566	34.6601	2.8483
3500.0	1.4756	34.6742	3.2169
4000.0	1.4553	34.6813	3.4346
4500.0	1.4766	34.6847	3.5219
5000.0	1.5096	34.6874	3.6320
5500.0	1.5137	34.6930	3.9062
5617.0	1.5244	34.6938	3.9234

PC36 29°59.86′N, 156°00.15′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.9144	34.9011	5.0226
20.0	21.3038	34.9034	5.0439
30.0	20.9023	34.9187	5.0930
50.0	18.8382	34.9091	5.1944
75.0	17.7202	34.8707	4.8625
100.0	17.2908	34.8487	5.0118
150.0	17.1456	34.8491	5.1996
200.0	17.0551	34.8457	5.1482
300.0	16.7689	34.8088	5.1452
400.0	15.7878	34.6983	4.5316
500.0	13.5683	34.5304	4.3233
600.0	10.7396	34.3245	3.9894
700.0	7.6235	34.1168	3.5640
800.0	5.2591	34.0179	2.7773
900.0	4.5734	34.1069	1.8290
1000.0	4.1506	34.1987	1.2317
1100.0	3.7169	34.2853	0.9837
1200.0	3.4107	34.3521	0.8618
1300.0	3.1019	34.4033	0.8194
1400.0	2.8441	34.4367	0.8079
1500.0	2.6456	34.4720	0.9295
1600.0	2.4771	34.5022	1.0010
1700.0	2.3683	34.5306	1.1386
1800.0	2.2258	34.5555	1.3222
1900.0	2.1066	34.5768	1.5525
2000.0	1.9974	34.5909	1.6638
2500.0	1.7000	34.6427	2.5978
3000.0	1.5760	34.6624	2.9786
3500.0	1.5062	34.6728	3.2083
4000.0	1.4766	34.6799	3.4343
4500.0	1.4750	34.6851	3.5660
5000.0	1.4908	34.6892	3.7450
5500.0	1.5167	34.6930	3.8939
5893.0	1.5507	34.6952	3.9843

PC37 30°00.54′N, 154°59.84′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.1388	34.8783	5.0122
20.0	20.5686	34.8813	5.0322
30.0	20.4845	34.9508	5.0144
50.0	19.1141	34.9027	5.2521
75.0	17.8813	34.8765	4.8592
100.0	17.3828	34.8514	5.1360
150.0	17.1865	34.8526	5.2416
200.0	17.0700	34.8448	5.2015
300.0	16.8636	34.8334	5.0666
400.0	15.2099	34.6479	4.3040
500.0	12.9401	34.4697	4.4417
600.0	10.0905	34.2611	3.9992
700.0	7.2303	34.0655	3.5968
800.0	5.2321	34.0159	2.7520
900.0	4.6229	34.1089	1.7976
1000.0	4.1439	34.2021	1.2957
1100.0	3.7303	34.2858	1.0177
1200.0	3.3685	34.3485	0.9295
1300.0	3.1052	34.3988	1.0010
1400.0	2.8279	34.4421	0.9759
1500.0	2.6248	34.4731	0.9530
1600.0	2.4833	34.4980	1.0300
1700.0	2.3339	34.5252	1.1284
1800.0	2.2145	34.5486	1.2244
1900.0	2.1062	34.5697	1.4186
2000.0	2.0092	34.5863	1.5659
2500.0	1.6994	34.6408	2.5058
3000.0	1.5650	34.6620	2.9464
3500.0	1.4970	34.6737	3.2268
4000.0	1.4644	34.6808	3.3924
4500.0	1.4669	34.6860	3.6025
5000.0	1.4847	34.6897	3.7666
5500.0	1.5176	34.6930	3.8858
5740.0	1.5365	34.6944	3.9101

PC38 29°59.90′N, 154°00.25′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.5055	34.8552	5.0743
20.0	21.5034	34.9372	5.0779
30.0	21.1912	34.9470	5.1134
50.0	19.8046	34.9178	5.2894
75.0	18.3841	34.8945	5.3398
100.0	17.5414	34.8542	5.1490
150.0	17.2103	34.8540	5.2668
200.0	17.0919	34.8444	5.2034
300.0	16.7261	34.8130	5.0303
400.0	15.0566	34.6387	4.4057
500.0	12.8047	34.4578	4.5087
600.0	10.1574	34.2913	3.8136
700.0	6.9603	34.0532	3.4507
800.0	5.4016	34.0335	2.6394
900.0	4.6058	34.1144	1.8293
1000.0	4.1239	34.2125	1.2643
1100.0	3.7031	34.2905	1.0445
1200.0	3.3465	34.3538	0.9061
1300.0	3.0680	34.4035	0.8700
1400.0	2.8104	34.4467	0.8441
1500.0	2.6124	34.4810	0.9353
1600.0	2.4666	34.5062	1.0053
1700.0	2.2980	34.5363	1.1712
1800.0	2.1909	34.5557	1.3010
1900.0	2.0965	34.5729	1.4529
2000.0	2.0192	34.5880	1.6559
2500.0	1.7161	34.6366	2.3769
3000.0	1.5726	34.6601	2.8852
3500.0	1.5045	34.6728	3.1993
4000.0	1.4774	34.6801	3.4276
4500.0	1.4804	34.6846	3.5572
5000.0	1.5022	34.6885	3.7069
5500.0	1.5330	34.6917	3.8614
5980.0	1.5789	34.6943	3.9354

PC39 30°00.10′N, 153°00.80′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.8045	35.0268	4.8420
20.0	24.4821	35.0034	4.8470
30.0	23.2789	35.0094	4.8416
50.0	21.3524	35.0805	4.8500
75.0	20.2858	35.0656	4.9136
100.0	19.4713	34.9878	4.5996
150.0	18.3502	34.9045	4.7137
200.0	17.6713	34.8539	4.7641
300.0	16.6383	34.7835	4.6740
400.0	14.7025	34.6037	4.2703
500.0	12.4336	34.4393	4.2488
600.0	9.6613	34.2417	3.8910
700.0	6.7171	34.0432	3.5975
800.0	5.2780	34.0469	2.6808
900.0	4.5193	34.1445	1.6936
1000.0	4.0066	34.2298	1.2108
1100.0	3.6125	34.3079	0.9800
1200.0	3.3228	34.3589	0.9021
1300.0	3.0527	34.4027	0.9456
1400.0	2.8353	34.4450	0.8721
1500.0	2.6226	34.4811	0.9310
1600.0	2.4589	34.5026	1.0289
1700.0	2.3183	34.5327	1.1532
1800.0	2.1970	34.5551	1.3012
1900.0	2.0904	34.5757	1.5416
2000.0	1.9991	34.5894	1.6617
2500.0	1.6990	34.6401	2.5133
3000.0	1.5637	34.6622	2.9753
3500.0	1.5038	34.6729	3.2251
4000.0	1.4725	34.6804	3.4368
4500.0	1.4746	34.6852	3.5843
5000.0	1.4949	34.6888	3.7472
5500.0	1.5291	34.6923	3.8867
5988.0	1.5817	34.6944	3.9538

PC40 29°59.93′N, 152°00.02′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.9170	35.0180	4.8166
20.0	24.8784	35.0207	4.8017
30.0	23.8573	35.0815	4.8424
50.0	21.5148	35.0911	4.8587
75.0	19.8569	35.0392	4.7979
100.0	18.9537	34.9390	4.4943
150.0	17.7938	34.8689	4.9218
200.0	17.2221	34.8445	5.2472
300.0	16.8284	34.8214	5.0183
400.0	14.5304	34.5816	4.4508
500.0	12.3044	34.4362	4.0630
600.0	9.5078	34.2175	4.0354
700.0	6.7534	34.0588	3.4449
800.0	5.0351	34.0386	2.5016
900.0	4.4450	34.1413	1.6759
1000.0	4.0058	34.2374	1.2577
1100.0	3.6251	34.3078	1.0366
1200.0	3.2638	34.3686	0.8974
1300.0	3.0004	34.4133	0.8956
1400.0	2.7655	34.4516	0.9169
1500.0	2.5696	34.4893	0.9686
1600.0	2.4449	34.5198	1.1082
1700.0	2.2947	34.5435	1.2413
1800.0	2.1876	34.5619	1.3915
1900.0	2.0632	34.5811	1.6029
2000.0	1.9818	34.5944	1.7522
2500.0	1.7027	34.6406	2.5098
3000.0	1.5580	34.6628	2.9790
3500.0	1.4964	34.6738	3.2482
4000.0	1.4692	34.6808	3.4438
4500.0	1.4754	34.6852	3.5657
5000.0	1.4994	34.6885	3.7187
5500.0	1.5344	34.6916	3.8383
6000.0	1.5872	34.6941	3.9055
6003.0	1.5875	34.6941	3.8671

PC41 29°59.97′N, 150°59.52′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.2206	34.8783	4.9212
20.0	23.4573	34.8894	4.9527
30.0	22.3557	34.8427	4.9361
50.0	20.1734	34.9357	5.0182
75.0	18.7157	34.9146	5.1417
100.0	17.9072	34.8736	5.0175
150.0	17.4471	34.8480	5.0140
200.0	16.9655	34.8016	4.7804
300.0	15.9407	34.7071	4.4260
400.0	14.1195	34.5597	4.2874
500.0	11.9251	34.4090	4.1481
600.0	9.2316	34.2351	3.6516
700.0	6.5210	34.0599	3.3141
800.0	5.0118	34.0524	2.5006
900.0	4.4581	34.1460	1.6792
1000.0	3.9324	34.2438	1.1894
1100.0	3.5133	34.3239	1.0080
1200.0	3.1860	34.3813	0.9268
1300.0	2.9021	34.4284	0.9356
1400.0	2.7349	34.4559	0.9302
1500.0	2.5460	34.4918	0.9713
1600.0	2.4004	34.5202	1.0839
1700.0	2.2686	34.5429	1.2332
1800.0	2.1417	34.5608	1.3730
1900.0	2.0521	34.5782	1.5349
2000.0	1.9723	34.5951	1.7763
2500.0	1.6798	34.6409	2.4826
3000.0	1.5534	34.6633	2.9935
3500.0	1.4956	34.6742	3.2841
4000.0	1.4710	34.6810	3.4537
4500.0	1.4747	34.6850	3.5646
5000.0	1.5004	34.6884	3.6999
5500.0	1.5327	34.6918	3.8468
6000.0	1.5889	34.6940	3.8834
6006.0	1.5898	34.6938	3.8997

PC42 29°59.91′N, 150°00.86′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.0521	34.7770	5.1613
20.0	20.7472	34.8987	5.0857
30.0	19.9154	34.9363	5.1412
50.0	18.8102	34.9365	5.2641
75.0	18.0363	34.8903	5.2012
100.0	17.6570	34.8714	5.0776
150.0	17.4446	34.8579	5.2080
200.0	17.2426	34.8454	5.2038
300.0	17.0809	34.8454	5.2740
400.0	16.8946	34.8338	5.0483
500.0	15.3096	34.6556	4.3393
600.0	11.7353	34.3934	4.0016
700.0	7.9663	34.1185	3.6021
800.0	5.4718	34.0413	2.7256
900.0	4.7445	34.0948	1.9857
1000.0	4.1481	34.2058	1.3030
1100.0	3.7073	34.2897	1.0340
1200.0	3.3546	34.3509	0.9349
1300.0	3.0802	34.3986	0.9708
1400.0	2.8460	34.4390	0.9777
1500.0	2.6439	34.4716	0.9622
1600.0	2.4880	34.5023	0.9998
1700.0	2.3401	34.5283	1.1233
1800.0	2.1926	34.5543	1.3094
1900.0	2.0930	34.5736	1.5121
2000.0	2.0130	34.5912	1.7877
2500.0	1.6934	34.6392	2.4624
3000.0	1.5685	34.6625	3.0048
3500.0	1.5068	34.6726	3.2364
4000.0	1.4750	34.6805	3.4324
4500.0	1.4803	34.6846	3.5752
5000.0	1.4959	34.6890	3.7505
5500.0	1.5377	34.6913	3.8525
6000.0	1.5901	34.6938	3.9069
6036.0	1.5951	34.6940	3.9168

PC43 30°01.21′N, 148°59.88′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.7967	34.9160	5.0120
20.0	22.7827	34.9824	4.9770
30.0	21.8517	35.0223	5.0832
50.0	20.0112	35.0292	4.8953
75.0	19.0906	34.9455	5.0617
100.0	18.3298	34.9097	4.8639
150.0	17.6723	34.8637	5.1846
200.0	17.3924	34.8487	5.1247
300.0	16.8353	34.8074	4.7897
400.0	15.0131	34.6257	4.3501
500.0	12.5484	34.4472	4.1065
600.0	9.7313	34.2603	3.7232
700.0	6.7878	34.0670	3.3825
800.0	4.9697	34.0394	2.4194
900.0	4.3836	34.1490	1.6189
1000.0	3.9169	34.2423	1.2181
1100.0	3.6089	34.3082	1.0507
1200.0	3.2906	34.3715	0.8806
1300.0	3.0309	34.4122	0.8270
1400.0	2.8027	34.4527	0.8543
1500.0	2.6191	34.4841	0.9280
1600.0	2.4897	34.5062	1.0265
1700.0	2.3468	34.5309	1.1758
1800.0	2.2031	34.5549	1.3470
1900.0	2.1147	34.5740	1.5733
2000.0	2.0180	34.5895	1.7353
2500.0	1.7343	34.6376	2.5025
3000.0	1.5937	34.6600	2.9659
3500.0	1.5310	34.6710	3.1854
4000.0	1.4932	34.6785	3.3827
4500.0	1.4940	34.6835	3.5554
5000.0	1.5097	34.6877	3.6800
5500.0	1.5423	34.6913	3.8053
6000.0	1.5913	34.6938	3.8934
6003.0	1.5916	34.6938	3.8992

PC44 29°58.82′N, 147°58.82′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.2189	34.6958	5.0377
20.0	21.9397	34.8464	5.0785
30.0	20.4828	34.8686	5.0237
50.0	18.7849	34.8460	5.3933
75.0	18.0189	34.8801	4.9325
100.0	17.6979	34.8612	5.2383
150.0	17.2093	34.8409	5.1101
200.0	17.1132	34.8431	5.1106
300.0	16.7278	34.8102	4.8218
400.0	14.7421	34.6080	4.1623
500.0	12.1828	34.4400	4.3971
600.0	9.4621	34.2168	3.7960
700.0	6.6031	34.0661	3.0373
800.0	5.3271	34.0680	2.4504
900.0	4.5396	34.1346	1.7471
1000.0	4.0128	34.2355	1.1824
1100.0	3.6178	34.3150	0.9827
1200.0	3.3532	34.3651	0.9126
1300.0	3.0531	34.4139	0.8704
1400.0	2.8408	34.4595	0.9471
1500.0	2.6529	34.4950	1.0795
1600.0	2.4933	34.5225	1.2073
1700.0	2.3279	34.5440	1.3532
1800.0	2.2461	34.5568	1.4557
1900.0	2.1094	34.5793	1.7319
2000.0	2.0068	34.5960	1.9273
2500.0	1.7567	34.6368	2.5744
3000.0	1.6091	34.6585	2.9363
3500.0	1.5347	34.6704	3.1701
4000.0	1.4972	34.6779	3.3693
4500.0	1.4935	34.6835	3.5511
5000.0	1.5131	34.6874	3.6667
5500.0	1.5484	34.6906	3.7767
6000.0	1.5955	34.6936	3.8957
6007.0	1.5965	34.6934	3.8995

PC45 30°00.03′N, 146°59.90′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.8610	34.6469	5.0760
20.0	21.4006	34.8035	5.1287
30.0	20.0767	34.8494	5.0617
50.0	19.3055	34.8455	5.1867
75.0	18.3405	34.8774	5.0993
100.0	17.9031	34.8735	5.0318
150.0	17.5050	34.8595	5.1625
200.0	17.2264	34.8527	5.1514
300.0	16.7801	34.8044	4.8311
400.0	14.9072	34.6201	4.2276
500.0	12.3145	34.4374	4.0598
600.0	9.4789	34.2190	3.7900
700.0	6.9340	34.0816	3.2000
800.0	5.2795	34.0321	2.7937
900.0	4.4181	34.1442	1.5672
1000.0	3.9825	34.2468	1.1463
1100.0	3.6047	34.3178	0.9745
1200.0	3.2109	34.3821	0.9387
1300.0	3.0131	34.4286	0.8945
1400.0	2.7618	34.4560	0.9415
1500.0	2.6515	34.4914	1.0229
1600.0	2.4802	34.5239	1.2242
1700.0	2.3213	34.5452	1.3332
1800.0	2.2104	34.5633	1.5142
1900.0	2.1241	34.5780	1.7158
2000.0	2.0292	34.5937	1.8932
2500.0	1.7610	34.6368	2.5871
3000.0	1.6231	34.6568	2.9010
3500.0	1.5470	34.6691	3.1304
4000.0	1.5082	34.6775	3.3644
4500.0	1.4995	34.6831	3.5207
5000.0	1.5144	34.6874	3.6570
5500.0	1.5490	34.6905	3.7756
5979.0	1.5934	34.6934	3.8855

PC46 30°00.55′N, 146°00.86′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.0105	34.6183	5.1599
20.0	21.7141	34.6671	5.0955
30.0	20.7955	34.7343	5.1019
50.0	20.0435	34.7918	5.1035
75.0	18.8684	34.8877	4.7435
100.0	18.3859	34.8983	5.0444
150.0	17.9765	34.8995	5.0330
200.0	17.5457	34.8443	4.6815
300.0	16.5859	34.7618	4.6088
400.0	14.8672	34.6165	4.1741
500.0	11.9676	34.4344	3.8786
600.0	8.7807	34.1926	3.7595
700.0	5.8755	34.0372	3.0669
800.0	4.7049	34.0741	2.1138
900.0	4.3210	34.1831	1.4589
1000.0	3.8713	34.2640	1.0851
1100.0	3.5052	34.3398	0.8828
1200.0	3.1776	34.3924	0.8570
1300.0	2.9249	34.4446	0.9039
1400.0	2.7406	34.4735	0.9569
1500.0	2.5723	34.5069	1.1567
1600.0	2.4398	34.5269	1.2473
1700.0	2.3169	34.5467	1.3879
1800.0	2.1794	34.5660	1.4925
1900.0	2.0708	34.5820	1.6990
2000.0	1.9867	34.5952	1.8445
2500.0	1.7145	34.6392	2.5692
3000.0	1.5925	34.6592	2.9608
3500.0	1.5274	34.6703	3.1862
4000.0	1.4906	34.6784	3.3692
4500.0	1.4852	34.6841	3.5402
5000.0	1.5046	34.6878	3.6888
5500.0	1.5441	34.6907	3.7715
6000.0	1.5940	34.6935	3.8966
6003.0	1.5945	34.6934	3.8982

PC47 30°00.67′N, 145°00.20′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	21.9651	34.5982	5.1135
20.0	21.8074	34.6362	5.1025
30.0	21.0798	34.7221	5.0823
50.0	20.5257	34.7537	5.1445
75.0	19.3807	34.8647	4.9322
100.0	18.5604	34.8915	4.9463
150.0	18.0921	34.8897	4.9570
200.0	17.8221	34.8879	4.9746
300.0	16.8119	34.7882	4.5617
400.0	14.4611	34.5905	4.0517
500.0	11.7759	34.3951	4.0254
600.0	9.2836	34.2854	3.1230
700.0	8.1512	34.2615	3.0217
800.0	5.9304	34.0602	3.1217
900.0	4.7487	34.1402	1.8261
1000.0	4.1610	34.2176	1.3139
1100.0	3.6867	34.2961	1.0091
1200.0	3.3968	34.3576	0.9093
1300.0	3.1124	34.4123	0.8958
1400.0	2.8431	34.4552	0.9404
1500.0	2.6675	34.4871	1.0310
1600.0	2.4961	34.5196	1.2015
1700.0	2.3175	34.5414	1.2814
1800.0	2.2029	34.5582	1.4087
1900.0	2.1207	34.5726	1.5428
2000.0	2.0229	34.5900	1.7948
2500.0	1.7313	34.6377	2.5213
3000.0	1.5860	34.6594	2.9064
3500.0	1.5127	34.6720	3.2183
4000.0	1.4780	34.6798	3.4100
4500.0	1.4791	34.6847	3.5585
5000.0	1.5085	34.6878	3.6528
5500.0	1.5529	34.6900	3.7478
6000.0	1.6047	34.6926	3.8431
6070.0	1.6146	34.6927	3.8380

PC48 30°00.42′N, 144°00.25′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.5763	34.6682	5.0462
20.0	22.4854	34.6999	5.0580
30.0	20.6631	34.8701	5.1027
50.0	19.7136	34.8326	5.1509
75.0	18.7567	34.8495	5.2657
100.0	18.0732	34.8983	4.9072
150.0	17.7482	34.8780	5.0827
200.0	17.4993	34.8656	5.1454
300.0	17.1481	34.8495	5.1085
400.0	15.8935	34.7003	4.3555
500.0	13.6053	34.5263	4.1217
600.0	11.0089	34.3527	3.8246
700.0	7.9236	34.1440	3.4568
800.0	5.4904	34.0114	2.9783
900.0	4.6817	34.0859	2.0355
1000.0	4.0983	34.2134	1.3315
1100.0	3.6916	34.2976	1.1197
1200.0	3.3184	34.3611	1.0164
1300.0	3.0878	34.4009	0.9658
1400.0	2.8225	34.4418	0.9578
1500.0	2.6386	34.4722	0.9821
1600.0	2.5061	34.4981	1.0249
1700.0	2.3642	34.5308	1.2080
1800.0	2.2335	34.5537	1.3965
1900.0	2.1315	34.5710	1.5444
2000.0	2.0369	34.5866	1.7349
2500.0	1.7244	34.6348	2.3888
3000.0	1.5722	34.6594	2.8702
3500.0	1.4998	34.6730	3.2125
4000.0	1.4726	34.6801	3.4351
4500.0	1.4731	34.6852	3.5846
5000.0	1.5005	34.6881	3.6799
5500.0	1.5473	34.6905	3.7654
5740.0	1.5714	34.6917	3.7614

PC49 29°59.87′N, 143°30.47′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.7676	34.8825	4.8962
20.0	23.2304	34.9181	4.9184
30.0	21.8239	34.9831	4.9389
50.0	19.2908	34.8648	5.0836
75.0	18.4085	34.8929	5.1941
100.0	18.0317	34.9019	4.9704
150.0	17.6670	34.8760	5.0806
200.0	17.3232	34.8561	5.2754
300.0	17.1882	34.8566	5.2373
400.0	16.9602	34.8483	5.2209
500.0	14.5552	34.5942	4.1271
600.0	11.4747	34.3797	3.9161
700.0	8.1457	34.1511	3.5956
800.0	5.5146	34.0286	2.8522
900.0	4.7570	34.1200	1.9775
1000.0	4.1794	34.2174	1.4091
1100.0	3.6917	34.2995	1.1188
1200.0	3.3658	34.3543	1.0004
1300.0	3.0395	34.4072	0.9559
1400.0	2.8243	34.4434	0.9165
1500.0	2.6307	34.4750	0.9657
1600.0	2.4924	34.4983	1.0404
1700.0	2.3650	34.5242	1.1488
1800.0	2.2217	34.5490	1.3023
1900.0	2.1179	34.5692	1.4933
2000.0	2.0343	34.5851	1.6864
2500.0	1.7280	34.6375	2.5160
3000.0	1.5860	34.6575	2.8399
3500.0	1.5081	34.6720	3.2108
4000.0	1.4766	34.6797	3.3992
4500.0	1.4721	34.6850	3.5772
5000.0	1.4971	34.6885	3.6962
5500.0	1.5443	34.6909	3.7811
5707.0	1.5697	34.6913	3.7923

PC50 30°00.49′N, 143°10.43′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.0115	34.9039	4.8763
20.0	22.7541	35.0694	4.8817
30.0	22.6755	35.0572	4.9194
50.0	21.0493	35.0107	4.8455
75.0	19.7941	34.9667	4.8228
100.0	19.1279	34.9432	4.7795
150.0	18.1152	34.8954	4.9036
200.0	17.4939	34.8536	4.8911
300.0	17.0742	34.8435	5.1072
400.0	16.0179	34.7147	4.4523
500.0	13.5714	34.5268	4.0460
600.0	11.1781	34.3678	3.7761
700.0	7.6504	34.1245	3.4548
800.0	5.7028	34.0559	2.8087
900.0	4.6898	34.1228	1.8935
1000.0	4.2066	34.2032	1.3271
1100.0	3.7167	34.2897	0.9850
1200.0	3.4399	34.3460	0.9128
1300.0	3.1772	34.3969	0.8740
1400.0	2.8898	34.4406	0.8995
1500.0	2.6960	34.4725	0.9266
1600.0	2.5131	34.5046	1.0735
1700.0	2.3641	34.5334	1.2251
1800.0	2.2129	34.5592	1.5145
1900.0	2.1274	34.5757	1.6894
2000.0	2.0298	34.5895	1.8121
2500.0	1.7302	34.6350	2.4255
3000.0	1.5827	34.6586	2.8811
3500.0	1.5121	34.6718	3.2163
4000.0	1.4813	34.6791	3.3939
4500.0	1.4838	34.6840	3.5561
5000.0	1.5098	34.6875	3.6689
5500.0	1.5532	34.6898	3.7619
6000.0	1.6104	34.6919	3.8109
6004.0	1.6109	34.6919	3.7675

PC51 30°00.37′N, 142°50.03′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.8309	34.8078	5.0436
20.0	21.1782	34.9660	5.0004
30.0	20.0344	34.8756	5.0841
50.0	19.3893	34.9410	4.8370
75.0	18.5957	34.9170	4.8012
100.0	18.0622	34.8913	4.9146
150.0	17.5025	34.8512	5.0899
200.0	17.2688	34.8510	5.2269
300.0	17.0262	34.8453	5.1778
400.0	15.9783	34.7093	4.2782
500.0	13.4556	34.5135	4.0784
600.0	10.2141	34.2874	3.7797
700.0	7.3832	34.0896	3.5622
800.0	5.5477	34.0338	2.8146
900.0	4.5276	34.1316	1.6863
1000.0	4.1014	34.2164	1.2401
1100.0	3.6969	34.3025	0.9902
1200.0	3.3929	34.3601	0.9017
1300.0	3.0965	34.4131	0.9014
1400.0	2.8788	34.4523	0.9599
1500.0	2.6487	34.4833	0.9839
1600.0	2.4830	34.5050	1.0578
1700.0	2.3118	34.5330	1.2449
1800.0	2.2055	34.5545	1.3858
1900.0	2.1150	34.5727	1.5709
2000.0	2.0282	34.5885	1.8062
2500.0	1.7502	34.6352	2.5089
3000.0	1.6048	34.6575	2.9005
3500.0	1.5295	34.6701	3.1492
4000.0	1.4950	34.6781	3.3565
4500.0	1.4865	34.6838	3.5178
5000.0	1.5139	34.6868	3.6339
5500.0	1.5634	34.6888	3.6953
6000.0	1.6238	34.6905	3.7365
6005.0	1.6244	34.6906	3.6774

PC52 29°59.56′N, 142°30.22′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.5171	34.8113	4.9178
20.0	22.9558	34.8621	4.9253
30.0	21.9511	34.8781	4.9949
50.0	19.8365	34.8575	5.1144
75.0	19.0150	34.8974	5.0443
100.0	18.4661	34.9238	5.1147
150.0	18.0072	34.8994	5.0301
200.0	17.6884	34.8726	4.9754
300.0	16.9228	34.8015	4.7123
400.0	15.3726	34.6556	4.2809
500.0	13.1703	34.4910	4.1666
600.0	10.1943	34.2781	3.8503
700.0	7.5104	34.0828	3.6995
800.0	5.5362	34.0246	2.9405
900.0	4.6702	34.1061	1.9261
1000.0	4.1750	34.2028	1.3431
1100.0	3.7645	34.2836	1.0215
1200.0	3.4440	34.3527	0.9189
1300.0	3.1499	34.4091	0.9110
1400.0	2.9519	34.4423	0.9629
1500.0	2.7666	34.4838	1.1395
1600.0	2.5577	34.5034	1.1252
1700.0	2.4483	34.5315	1.4132
1800.0	2.3114	34.5495	1.4957
1900.0	2.1927	34.5683	1.6626
2000.0	2.0949	34.5817	1.8079
2500.0	1.7650	34.6326	2.4941
3000.0	1.6043	34.6574	2.9043
3500.0	1.5276	34.6701	3.1435
4000.0	1.4877	34.6787	3.3595
4500.0	1.4817	34.6839	3.5263
5000.0	1.5116	34.6873	3.6409
5500.0	1.5616	34.6890	3.6965
6000.0	1.6219	34.6907	3.7515
6004.0	1.6223	34.6909	3.7532

PC53 29°59.60′N, 142°10.41′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.5695	34.6275	4.9061
20.0	23.2038	34.7527	4.9394
30.0	21.6509	35.0310	4.8917
50.0	20.2090	34.9890	4.7825
75.0	19.0267	34.8988	5.0003
100.0	18.4444	34.9203	4.8503
150.0	17.9704	34.8971	5.0247
200.0	17.6040	34.8649	5.0571
300.0	17.0782	34.8319	4.9566
400.0	15.4151	34.6617	4.2640
500.0	13.1568	34.4886	4.1887
600.0	10.1481	34.2759	3.9082
700.0	7.2509	34.0914	3.2602
800.0	5.5827	34.0233	2.9340
900.0	4.5932	34.1199	1.7732
1000.0	4.1818	34.2047	1.3314
1100.0	3.7539	34.2876	0.9851
1200.0	3.4185	34.3525	0.8960
1300.0	3.1125	34.4125	0.8880
1400.0	2.9094	34.4485	0.9474
1500.0	2.7702	34.4750	1.0450
1600.0	2.5319	34.5082	1.1454
1700.0	2.3905	34.5340	1.3229
1800.0	2.2742	34.5535	1.4857
1900.0	2.1542	34.5718	1.6696
2000.0	2.0550	34.5855	1.7379
2500.0	1.7296	34.6374	2.5316
3000.0	1.5967	34.6582	2.8966
3500.0	1.5178	34.6706	3.1519
4000.0	1.4776	34.6792	3.3533
4500.0	1.4733	34.6847	3.5417
4968.0	1.5029	34.6875	3.6736

PC54 30°00.49′N, 141°40.72′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.8084	34.9167	4.8661
20.0	22.9491	34.9317	4.9030
30.0	21.7994	34.9357	4.9010
50.0	20.8465	34.9211	5.0104
75.0	19.8623	34.9726	4.7260
100.0	19.0079	34.9097	4.8036
150.0	18.2156	34.8802	4.8711
200.0	17.8802	34.8812	4.9048
300.0	17.0932	34.8345	5.0083
400.0	15.5122	34.6666	4.3053
500.0	12.9334	34.4705	4.1724
600.0	10.1825	34.2765	3.9418
700.0	7.3093	34.1043	3.2047
800.0	5.6784	34.0778	2.5208
900.0	4.7573	34.1464	1.6230
1000.0	4.1072	34.2381	1.1989
1100.0	3.6600	34.3128	0.9749
1200.0	3.2963	34.3854	0.9172
1300.0	3.0478	34.4231	0.9309
1400.0	2.8301	34.4625	0.9787
1500.0	2.6628	34.4861	1.0453
1600.0	2.5046	34.5131	1.1781
1700.0	2.3545	34.5365	1.3038
1800.0	2.2253	34.5575	1.4855
1900.0	2.1187	34.5738	1.6179
2000.0	2.0269	34.5886	1.7968
2500.0	1.7200	34.6390	2.7228
3000.0	1.5913	34.6594	3.0239
3500.0	1.5191	34.6707	3.1793
4000.0	1.4833	34.6788	3.3642
4340.0	1.4715	34.6833	3.4791

PC55 30°00.12′N, 141°06.02′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.1775	34.8109	3.3844
20.0	23.1523	34.8118	4.9715
30.0	22.8025	34.7815	4.9989
50.0	20.7709	34.9272	5.0102
75.0	19.5790	34.9111	4.9948
100.0	18.6178	34.9128	4.9069
150.0	17.9921	34.8967	4.9927
200.0	17.6226	34.8700	5.0147
300.0	17.0438	34.8266	4.9360
400.0	15.3791	34.6564	4.3571
500.0	12.7839	34.4589	4.2169
600.0	9.5752	34.2330	3.8519
700.0	6.6139	34.0429	3.4125
800.0	5.1998	34.0541	2.4804
900.0	4.5519	34.1381	1.7105
1000.0	4.0410	34.2352	1.1934
1100.0	3.6925	34.3044	1.0011
1200.0	3.2780	34.3762	0.9184
1300.0	3.0203	34.4209	0.9205
1400.0	2.8532	34.4516	0.9619
1500.0	2.6572	34.4824	1.0157
1600.0	2.4670	34.5107	1.1381
1700.0	2.3397	34.5352	1.2877
1800.0	2.1970	34.5576	1.4707
1900.0	2.0927	34.5769	1.7839
2000.0	2.0102	34.5906	1.9310
2500.0	1.7200	34.6377	2.5798
3000.0	1.5626	34.6620	3.0352
3500.0	1.4805	34.6740	3.2432
3546.0	1.4667	34.6758	3.2975

PC56 29°59.29′N, 140°30.19′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.5653	34.7205	4.8628
20.0	23.5589	34.7212	4.8756
30.0	23.5626	34.7214	4.8777
50.0	22.8827	34.8335	4.8908
75.0	21.2638	34.9577	4.9175
100.0	20.1198	34.8535	4.6692
150.0	19.1283	34.8765	4.7605
200.0	18.5116	34.8730	4.6950
300.0	16.9099	34.7764	4.4450
400.0	14.8288	34.6121	4.2085
500.0	12.6168	34.4502	4.0118
600.0	9.6109	34.2644	3.5814
700.0	6.9085	34.1327	2.9865
800.0	5.4423	34.1251	2.3723
900.0	4.7607	34.1816	1.7841
1000.0	4.1480	34.2719	1.4284
1100.0	3.7549	34.3249	1.2776
1200.0	3.3457	34.3945	1.2723
1300.0	3.0057	34.4385	1.2420
1400.0	2.9155	34.4530	1.2763
1500.0	2.6076	34.4923	1.2779
1600.0	2.4427	34.5196	1.4223
1700.0	2.3142	34.5428	1.6291
1800.0	2.1650	34.5658	1.7875
1900.0	2.0473	34.5843	1.9556
2000.0	1.9676	34.5974	2.1121
2477.0	1.6335	34.6468	2.6726

PC57 30°59.71′N, 140°29.01′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.7757	34.7123	4.9668
20.0	22.7893	34.7194	4.9708
30.0	22.7484	34.7569	4.9807
50.0	21.6861	34.9032	5.0671
75.0	19.5167	34.8678	5.0716
100.0	18.3961	34.8453	5.1135
150.0	17.2670	34.8344	5.0387
200.0	16.9770	34.8240	4.9042
300.0	16.0250	34.7149	4.4679
400.0	14.7134	34.6028	4.3047
500.0	12.7231	34.4596	4.1897
600.0	9.6044	34.2576	3.4985
700.0	7.7331	34.1369	3.5853
800.0	6.0062	34.1364	2.4791
900.0	4.6424	34.1608	1.7115
1000.0	4.1370	34.2508	1.4262
1100.0	3.9722	34.3356	1.4690
1200.0	3.5960	34.3982	1.4820
1300.0	3.1574	34.4284	1.3473
1400.0	2.9458	34.4594	1.4142
1500.0	2.6521	34.4922	1.3761
1600.0	2.4136	34.5277	1.5188
1700.0	2.2490	34.5489	1.4501
1800.0	2.0634	34.5785	1.7246
1900.0	1.9524	34.5963	1.8951
2000.0	1.8889	34.6071	2.0407
2176.0	1.8158	34.6185	2.2122

PC58 32°00.84′N, 140°31.46′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	24.4753	34.5812	4.7462
20.0	24.4719	34.5806	4.7558
30.0	24.4768	34.5807	4.7316
50.0	24.4173	34.5812	4.7300
75.0	23.8634	34.7571	4.4158
100.0	23.0664	34.7895	4.5055
150.0	21.6336	34.8363	4.1248
200.0	19.3179	34.8232	4.2162
300.0	16.7425	34.7513	4.3014
400.0	13.7471	34.5512	3.7882
500.0	11.1257	34.4056	3.4059
600.0	8.7931	34.3118	2.9289
700.0	6.6279	34.2090	2.4796
800.0	5.3208	34.2642	1.8274
900.0	4.2988	34.3340	1.5463
1000.0	3.9565	34.3605	1.5529
1100.0	3.4885	34.4037	1.4758
1200.0	3.2440	34.4347	1.5067
1300.0	2.9883	34.4479	1.2998
1400.0	2.7559	34.4740	1.2740
1500.0	2.5244	34.5070	1.3396
1600.0	2.3380	34.5321	1.3489
1700.0	2.2235	34.5511	1.4279
1800.0	2.1206	34.5657	1.5530
1900.0	2.0197	34.5827	1.7368
2000.0	1.9376	34.5967	1.9031
2169.0	1.7959	34.6201	2.2284

PC59 33°01.34′N, 140°29.53′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	23.2613	34.5391	4.9048
20.0	23.1524	34.5449	4.9085
30.0	22.9910	34.5486	4.9205
50.0	20.9995	34.6702	4.7456
75.0	19.2499	34.6636	4.2854
100.0	19.1473	34.7650	4.4439
150.0	17.8411	34.7254	4.3401
200.0	16.1270	34.6754	4.0486
300.0	12.6498	34.4880	3.6158
400.0	9.8470	34.3266	3.3731
500.0	7.3457	34.2442	2.6397
600.0	6.1718	34.2740	2.2434
700.0	4.7453	34.3046	1.7399
800.0	3.8673	34.3341	1.2880
900.0	3.2675	34.3715	0.9854
1000.0	3.0098	34.4187	1.0896
1100.0	2.8568	34.4435	1.1898
1167.0	2.8722	34.4513	1.2788

PC60 34°01.43′N, 140°29.53′E

P(db)	T(°C)	S(psu)	O(ml/l)
10.0	22.5864	34.3933	5.0594
20.0	21.2156	34.3960	5.0832
30.0	20.9282	34.4115	5.1243
50.0	19.3924	34.4942	4.5004
75.0	16.6580	34.6909	4.3003
100.0	15.5334	34.6517	4.0591
150.0	13.9022	34.5541	3.9111
200.0	12.0548	34.4473	3.6619
300.0	9.6920	34.3087	3.4298
400.0	7.9016	34.2698	2.7440
500.0	5.8781	34.2482	2.0633
600.0	4.7528	34.2359	1.8094
700.0	4.3958	34.2941	1.6336
800.0	4.0494	34.3209	1.4915
900.0	3.5916	34.3471	1.2731
1000.0	3.1356	34.4069	1.2435
1100.0	2.9824	34.4578	1.5493
1200.0	2.7010	34.4794	1.3382
1300.0	2.5079	34.4930	1.1108
1400.0	2.4128	34.5062	1.1418
1500.0	2.3313	34.5216	1.2026
1600.0	2.2628	34.5341	1.2944
1700.0	2.2042	34.5454	1.3986
1800.0	2.0735	34.5705	1.5459
1867.0	2.0441	34.5766	1.5896

9. Nutrients Data

Data on phosphate, nitrate, nitrite, and silicate

The sea water samples for the nutrient analyses were collected from various depths from surface to near bottom at 70 selected stations. Phosphate, nitrate, nitrite, and phosphate were determined by the automatic analysis using Bran Luebe auto analyzer. Most of the analyses were carried out on board immediately after sampling. All of the nutrient analyses were done by T. Ichikawa and N. Kawamura.

Leg 1	phosphate	nitrate	nitrite	silicate	Leg 2	phosphate	nitrate	nitrite	silicate
AS01	○	○	○	○	PC01	○	○	△	○
AS02	△	○	○	○	PC03	○	○	△	○
AS03	△	○	○	○	PC04	○	○	△	○
AS05	△	○	○	○	PC07	○	○	△	○
AS07	○	○	○	○	PC08	○	○	△	○
AS10	△	○	○	○	PC10	○	○	△	○
AS12	△	○	○	○	PC12	○	○	△	○
AS17	△	○	○	○	PC14	○	○	△	○
AS18	○	○	△	○	PC16	○	○	△	○
AS20	○	○	△	○	PC17	○	○	△	○
AS22	○	○	△	○	PC18	○	○	△	○
AS23	○	○	△	○	PC19	○	○	△	○
AS24	○	○	△	○	PC21	○	○	△	○
AS26	○	○	△	○	PC23	×	○	×	○
					PC25 - PC50	×	○	×	○
					PC51 - PC56	×	×	×	○

○ Auto analyzer
△ Manual analysis
× No data

AS01

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.9	0.03	0	0.04
10	1.1	0.02	0	0.04
20	1.3	0.08	2	0.04
32	2.0	0.22	2	0.04
53	2.9	0.49	3	0.04
75	4.8	0.29	4	0.04
–	5.6	0.28	5	0.04
122	6.5	0.36	5	0.04

AS02

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.03	0	0.05
15	0.0	0.00	0	0.05
21	0.0	0.00	0	0.05
29	0.0	0.02	0	0.05
48	0.7	0.07	1	0.09
75	2.4	0.18	2	0.14
100	2.9	0.24	3	0.19
123	4.7	0.09	4	0.28
151	5.9	0.08	5	0.33
173	6.5	0.07	6	0.28
199	8.5	0.10	8	0.46
251	13.9	0.09	17	0.56
300	28.6	0.03	42	1.16
350	32.9	0.03	52	1.44
401	34.1	0.02	55	1.25
450	40.4	0.02	70	1.53
499	42.7	0.03	76	1.53
549	45.3	0.02	84	1.53
599	47.2	0.00	91	1.95
648	48.4	0.00	93	2.14
699	49.7	0.01	98	2.04
724	50.5	0.01	101	2.18

AS03

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
10	0.0	0.00	0	0.00
20	0.0	0.00	0	0.05
28	0.0	0.00	0	0.05
49	0.2	0.00	0	0.14
73	1.1	0.15	1	0.14
99	1.1	0.26	1	0.19
125	1.9	0.27	2	0.23
147	3.6	0.05	4	0.33
175	4.6	0.02	5	0.37
198	4.6	0.02	5	0.42
249	7.6	0.02	11	0.60
300	12.0	0.00	19	0.93
349	15.8	0.00	27	1.21
398	16.6	0.00	30	1.02
447	24.4	0.00	52	1.77
548	32.9	0.00	83	2.14
648	37.4	0.00	106	2.32
699	38.3	0.00	106	2.42
747	38.6	0.00	111	2.37
799	41.5	0.00	118	2.51
864	42.2	0.00	126	2.65

AS05

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	–	0.00	0	0.00
11	–	0.00	0	0.00
21	–	0.00	0	0.00
31	–	0.00	0	0.00
52	–	0.00	0	0.05
76	–	0.00	1	0.09
99	–	0.00	2	0.14
149	–	0.06	2	0.23
200	–	0.14	5	0.28
299	–	0.04	12	0.56
399	–	0.02	23	0.79
499	–	0.01	39	1.25
599	–	0.00	67	1.49
699	–	0.00	91	1.58
799	–	0.00	109	2.18
899	–	0.00	125	2.32
999	–	0.00	130	1.90
1199	–	0.00	141	2.35
1399	–	0.00	145	2.04
1499	–	0.00	149	2.14
1600	–	0.00	151	2.18
1669	–	0.00	151	2.00
1808	–	0.00	152	2.09

AS07

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.07
12	0.0	0.00	0	0.07
20	0.0	0.00	0	0.07
48	0.0	0.00	0	0.09
98	1.1	0.07	1	0.12
148	0.0	0.74	1	0.12
197	3.6	0.15	4	0.19
299	11.7	0.14	14	0.37
396	17.6	0.01	25	0.49
498	23.9	0.00	44	0.70
597	30.3	0.00	63	1.00
699	35.4	0.00	85	1.18
797	37.9	0.00	98	1.35
898	40.5	0.00	113	0.98
997	40.2	0.00	128	1.09
1199	40.4	0.00	135	1.00
1398	40.2	0.00	141	–
1598	39.3	0.00	144	1.28
1798	38.2	0.00	145	1.21
1999	38.3	0.00	145	1.28
2498	38.0	0.00	143	1.18
3399	36.0	0.00	140	1.00
3499	35.9	0.00	140	1.05
3999	35.6	0.00	140	0.98
4332	35.3	0.00	139	1.02

AS10

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.05
22	0.0	0.05	0	0.07
49	0.3	0.29	1	0.09
97	0.9	0.32	1	0.12
147	1.3	0.45	1	0.14
197	2.6	0.08	2	0.19
298	6.4	0.03	8	0.37
398	10.0	0.02	15	0.42
498	15.5	0.00	29	0.70
599	22.1	0.00	49	1.12
698	27.9	0.00	66	0.86
798	32.9	0.00	86	0.93
898	35.1	0.00	99	1.44
998	36.4	0.00	114	1.05
1198	37.0	0.00	129	0.98
1399	37.0	0.00	135	1.46
1598	34.6	0.00	105	1.46
1798	–	–	–	–
1997	36.4	0.00	138	1.21
2999	35.0	0.00	135	0.84
3497	34.5	0.00	137	1.23
3997	34.9	0.00	137	1.35
4436	35.2	0.00	138	0.91

AS12

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.05
11	0.0	0.00	0	0.05
20	0.0	0.00	0	0.00
50	0.0	0.01	0	0.05
97	0.6	0.22	1	0.14
197	0.8	0.04	1	0.14
297	2.2	0.03	2	0.19
397	4.4	0.03	4	0.46
499	10.5	0.02	17	0.74
698	24.1	0.00	50	1.53
799	29.7	0.00	74	1.81
899	34.3	0.00	93	2.18
1000	37.5	0.00	106	2.23
1199	39.0	0.00	125	2.28
1398	39.5	0.00	137	2.51
1599	39.5	0.00	140	2.32
1797	39.0	0.00	144	2.37
1999	39.2	0.00	143	2.37
2497	37.6	0.00	142	2.32
2998	37.3	0.00	143	2.28
3498	37.5	0.00	143	2.18
3998	37.7	0.00	141	2.23
4501	38.1	0.00	140	2.28
5500	38.5	0.00	140	2.28

AS18

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.06
11	0.0	0.00	0	0.03
20	0.0	0.00	0	0.02
48	0.4	0.07	0	0.13
98	2.3	0.00	2	0.41
198	2.5	0.04	1	0.43
298	6.3	0.00	4	0.65
397	12.3	0.00	10	1.09
497	18.7	0.00	21	1.64
599	32.1	0.00	46	2.39
698	28.0	0.00	41	2.47
798	34.1	0.00	57	2.99
897	41.7	0.00	134	3.39
997	42.2	0.01	135	3.45
1199	43.6	0.02	136	3.53
1399	43.5	0.01	136	3.50
1598	43.5	0.01	137	3.51
1797	44.5	0.00	133	3.91
1998	45.0	0.02	138	3.65
2499	45.3	0.02	132	3.89
2999	46.6	0.03	110	4.00
3499	46.5	0.02	138	3.82
3997	47.0	0.00	125	4.01
4498	47.7	0.02	138	3.92
4999	49.0	0.00	134	0.00

AS20

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.05
11	0.0	0.00	0	0.06
20	0.0	0.01	1	0.08
49	0.0	0.00	1	0.08
99	2.4	0.09	2	0.25
201	4.4	0.00	3	0.35
299	9.7	0.00	10	0.77
398	15.9	0.00	21	1.22
498	19.4	0.01	27	1.48
598	28.3	0.00	52	2.14
698	35.3	0.00	75	2.66
848	39.8	0.00	96	2.98
998	42.0	0.03	116	3.12
1197	–	–	–	–
1397	41.8	0.02	132	3.09
1598	41.4	0.01	136	3.05
1797	41.2	0.02	131	3.02
1997	40.4	0.01	122	2.98
2498	40.9	0.00	131	3.00
2998	37.9	0.00	134	2.76
3497	37.4	0.00	134	2.72
3997	37.7	0.00	132	2.71
4497	37.2	0.00	133	2.68
4997	37.2	0.00	132	2.67
5341	36.7	0.00	133	2.63

AS22

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.01	0	0.00
12	0.0	0.01	1	0.00
22	0.0	0.00	1	0.03
49	0.3	0.12	1	0.08
99	1.2	0.03	1	0.16
199	1.9	0.02	2	0.23
299	4.8	0.00	5	0.48
399	8.6	0.04	11	0.79
499	18.0	0.03	26	1.48
599	23.9	0.01	45	1.89
698	31.0	0.01	63	2.38
798	38.1	0.03	91	2.86
899	39.9	0.01	100	2.98
998	42.2	0.02	116	3.10
1198	43.1	0.02	134	3.16
1397	42.7	0.02	137	3.16
1598	41.5	0.02	142	3.06
1799	40.5	0.02	144	2.98
1998	39.9	0.02	143	2.94
2498	38.5	0.00	142	2.86
2998	37.2	0.00	141	2.76
3499	36.8	0.02	141	2.74
3998	36.4	0.01	139	2.71
4498	36.1	0.02	139	2.68
4714	35.2	0.01	139	2.62

AS23

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
11	0.0	0.01	0	0.00
19	0.0	0.00	0	0.00
48	0.0	0.00	2	0.03
75	0.0	0.09	2	0.03
99	0.3	0.08	3	0.09
147	0.8	0.06	3	0.11
198	1.2	0.04	3	0.13
249	1.2	0.04	3	0.14
299	2.3	0.03	4	0.24
397	3.9	0.02	5	0.37
498	7.0	0.02	10	0.68
598	14.7	0.02	20	1.17
698	21.0	0.03	34	1.62
799	29.3	0.02	55	2.17
897	35.5	0.01	76	2.57
999	41.5	0.02	103	2.93
1199	43.0	0.02	115	3.05
1398	45.3	0.03	131	3.11
1598	43.9	0.02	138	3.08
1799	43.9	0.03	143	3.02
1998	42.6	0.02	143	2.95
2498	41.3	0.03	143	2.86
3000	39.0	0.00	142	2.74

AS24

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
21	0.0	0.00	0	0.00
50	0.0	0.01	0	0.00
98	0.0	0.22	0	0.07
195	1.8	0.00	0	0.21
298	6.1	0.00	7	0.57
398	11.3	0.00	15	0.95
499	15.8	0.02	22	1.27
597	23.2	0.00	40	1.81
697	29.5	0.01	57	2.21
799	37.9	0.00	84	2.73
899	41.1	0.00	104	2.95
998	43.5	0.00	111	3.05
1197	43.5	0.02	125	3.07
1398	43.4	0.02	139	3.05
1598	42.7	0.02	142	2.97
1798	41.3	0.03	140	2.90
1998	41.5	0.02	140	2.92
2498	41.4	0.03	140	2.86
2998	39.0	0.02	138	2.64
3497	38.8	0.03	138	2.66
3996	38.5	0.02	137	2.64
4496	38.2	0.03	137	2.62
4866	38.1	0.03	137	2.59

AS26

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.03	8	0.02
12	0.0	0.02	1	0.02
20	0.0	0.02	7	0.05
50	0.0	0.03	2	0.03
100	0.6	0.06	9	0.12
199	2.8	0.01	9	0.30
298	4.7	0.01	8	0.45
397	9.1	0.00	12	0.83
497	15.6	0.00	27	1.27
598	22.1	0.00	53	1.75
698	31.6	0.00	64	2.40
848	20.8	0.00	49	1.65
1197	42.6	0.00	131	3.07
1399	42.2	0.27	130	3.14
1598	–	–	–	–
1798	–	–	–	–
1997	39.9	0.33	141	2.93
2498	39.7	0.02	143	2.80
3497	37.6	0.02	139	2.67
3997	38.5	0.23	144	2.80
4497	36.6	0.03	138	2.64
4998	36.8	0.02	137	2.60
5165	36.3	0.02	137	2.61

PC01

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.02	1	0.12
11	0.0	0.03	1	0.07
20	0.0	0.05	1	0.09
49	3.5	0.13	4	0.37
99	6.2	0.07	7	0.54
150	5.3	0.01	7	0.48
200	13.0	0.00	18	1.00
249	16.4	0.00	24	1.26
299	21.4	0.00	37	1.64
350	27.9	0.03	57	2.15
400	34.5	0.02	80	2.60
449	36.1	0.00	87	2.74
499	38.6	0.00	98	2.93
599	40.2	0.00	109	3.03
698	42.2	0.00	121	3.17
798	43.3	0.01	130	3.24
899	42.1	0.00	131	3.16
999	43.3	0.01	145	3.22
1067	41.7	0.00	142	3.12

PC03

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.09
11	0.0	0.02	0	0.04
20	0.0	0.02	0	0.07
49	1.3	0.05	2	0.16
72	1.6	0.04	2	0.18
98	2.7	0.09	3	0.27
148	5.8	0.03	6	0.48
199	10.8	0.05	14	0.83
248	15.9	0.04	26	1.22
298	19.1	0.05	33	1.44
399	23.9	0.04	48	1.79
500	15.6	0.05	34	1.20
599	35.1	0.03	102	2.63
699	37.3	0.02	115	2.81
798	38.5	0.02	122	2.87
900	39.1	0.00	129	2.91
998	40.0	0.00	145	2.97
1099	40.1	0.00	145	2.97
1199	40.3	0.00	149	2.97
1299	40.2	0.01	152	2.97
1398	40.2	0.00	153	2.96
1600	39.5	0.01	155	2.92
1799	42.7	0.00	161	3.22
1999	41.8	0.01	160	3.14
2075	41.0	0.00	161	3.07

PC04

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
11	0.0	0.00	0	0.00
21	0.0	0.00	0	0.00
49	0.0	0.04	0	0.03
74	0.0	0.08	0	0.04
99	0.7	0.14	1	0.10
149	2.1	0.00	2	0.19
200	4.8	0.02	5	0.37
249	7.9	0.00	9	0.59
299	10.2	0.00	12	0.74
397	15.6	0.00	23	1.14
497	–	–	–	–
699	34.4	0.00	80	2.51
798	37.6	0.00	96	2.73
897	39.0	0.00	111	2.86
998	33.9	0.00	91	2.46
1397	40.4	0.00	144	2.91
1598	38.4	0.00	120	2.80
1793	–	–	–	–
1998	38.7	0.00	149	2.76
2498	36.7	0.00	146	2.61
2997	35.3	0.00	142	2.51
3333	35.0	0.00	139	2.44

PC07

Press (db)	NO3-N	NO2-N	SiO2-Si	PO4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
11	0.0	0.00	0	0.00
21	0.0	0.00	0	0.00
49	0.0	0.02	1	0.04
99	1.3	0.08	1	0.12
197	2.8	0.00	2	0.21
299	5.5	0.02	5	0.39
398	9.8	0.00	10	0.68
599	19.6	0.02	31	1.40
799	32.1	0.02	74	2.31
998	39.3	0.02	106	2.75
1199	39.5	0.00	119	2.79
1399	41.4	0.02	137	2.93
1597	41.9	0.00	145	2.93
1798	41.2	0.02	151	2.87
1998	40.3	0.02	151	2.83
2498	38.7	0.02	151	2.66
3498	36.2	0.00	144	2.48
4000	35.4	0.00	143	2.41
4498	35.0	0.00	141	2.38
5000	35.5	0.00	141	2.39
5499	34.4	0.02	136	2.35
6000	34.3	0.00	136	2.35
6510	34.3	0.00	134	2.31

PC08

Press (db)	NO3-N	NO2-N	SiO2-Si	PO4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
11	0.0	0.00	0	0.00
22	0.0	0.00	0	0.00
50	0.0	0.02	0	0.04
101	2.4	0.01	2	0.18
198	4.0	0.00	3	0.29
298	7.2	0.00	7	0.51
398	10.3	0.00	12	0.73
598	19.4	0.00	32	1.36
798	29.6	0.00	64	2.15
998	40.6	0.00	154	2.88
1198	36.8	0.00	103	2.66
1798	39.3	0.02	155	2.79
1998	39.5	0.00	123	2.82
2498	37.7	0.02	154	2.64
2998	38.3	0.02	153	2.69
3499	35.4	0.02	146	2.45
3998	34.9	0.02	145	2.40
4497	35.5	0.00	145	2.38
4998	36.5	0.00	149	2.55
5498	34.2	0.00	140	2.35
5998	33.9	0.00	139	2.33
6503	33.4	0.00	136	2.30

PC10

Press (db)	NO3-N	NO2-N	SiO2-Si	PO4-P
		(μg-atoms/l)		
0	0.0	0.01	0	0.00
21	0.0	0.00	0	0.00
50	0.0	0.00	0	0.00
199	0.0	0.02	0	0.00
299	1.6	0.03	1	0.12
400	2.9	0.03	2	0.21
548	6.8	0.00	6	0.47
698	14.1	0.02	18	1.00
848	23.5	0.02	41	1.67
998	33.9	0.03	79	2.43
1198	36.8	0.00	100	2.62
1398	39.7	0.00	121	2.79
1798	41.0	0.01	135	2.88
2498	39.6	0.00	147	2.81
2998	37.9	0.04	148	2.62
3498	35.8	0.01	145	2.51
3999	34.5	0.04	138	2.39
4497	34.3	0.01	134	2.36
4998	33.4	0.00	134	2.32
5498	33.0	0.00	131	2.29
5967	32.5	0.02	130	2.24

PC12

Press (db)	NO3-N	NO2-N	SiO2-Si	PO4-P
		(μg-atoms/l)		
0	0.0	0.01	0	0.02
11	0.0	0.01	0	0.01
21	0.0	0.01	0	0.01
51	0.3	0.05	1	0.06
99	2.2	0.08	2	0.17
199	5.5	0.00	3	0.26
300	6.9	0.00	7	0.49
398	14.1	0.00	19	1.00
500	17.0	0.00	29	1.24
599	28.6	0.00	58	2.05
698	33.0	0.00	75	2.37
849	37.7	0.00	99	2.68
1198	41.1	0.00	126	2.84
1398	41.0	0.00	138	2.90
1597	40.5	0.00	145	2.87
1798	40.2	0.00	149	2.81
1998	39.5	0.00	150	2.75
2497	37.1	0.00	148	2.58
3077	35.9	0.00	144	2.47
3498	35.2	0.00	141	2.42
3997	33.9	0.00	138	2.36
4497	34.2	0.00	136	2.34
4970	33.8	0.00	132	2.32
5517	32.8	0.00	130	2.28

PC14

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.01	1	0.05
10	0.0	0.01	1	0.05
20	0.0	0.01	1	0.07
49	6.9	0.41	9	0.57
98	13.8	0.00	21	1.02
198	21.3	0.00	39	1.54
296	26.5	0.00	55	1.94
397	32.0	0.00	72	2.32
498	36.1	0.00	88	2.53
596	37.9	0.00	103	2.69
697	39.1	0.00	112	2.77
847	39.9	0.00	121	2.80
997	40.1	0.00	129	2.83
1197	41.0	0.00	140	2.86
1398	41.1	0.00	147	2.84
1598	40.3	0.00	149	2.80
1798	40.5	0.00	151	2.74
1998	39.0	0.00	150	2.68
2498	36.9	0.00	148	2.53
2998	36.0	0.00	145	2.46
3497	35.0	0.00	141	2.39
3997	34.6	0.00	137	2.36
4498	34.6	0.00	135	2.35
5002	34.0	0.00	132	2.30
5530	32.8	0.00	130	2.25

PC16

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.02	3	0.08
11	0.6	0.02	3	0.09
20	0.9	0.04	3	0.07
49	8.3	0.00	10	0.59
97	11.1	0.00	15	0.85
198	15.8	0.00	25	1.40
296	23.9	0.00	45	2.41
397	31.0	0.00	66	3.13
547	37.3	0.00	94	2.77
696	40.0	0.00	112	2.83
847	41.2	0.00	125	2.92
997	43.1	0.00	132	3.16
1198	42.5	0.00	144	2.55
1398	42.3	0.00	151	2.94
1597	41.5	0.00	155	2.78
1797	40.9	0.00	156	2.88
1997	40.3	0.00	155	2.90
2497	37.9	0.00	152	2.48
2998	36.9	0.00	148	2.36
3496	36.3	0.00	145	2.13
3997	35.6	0.00	143	2.17
4497	36.9	0.00	143	2.19
4997	34.6	0.00	137	1.92
5496	33.9	0.00	138	2.12
5888	35.2	0.00	137	2.13

PC17

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
11	0.0	0.00	1	0.03
21	0.0	0.00	0	0.03
48	1.5	0.09	3	0.12
98	4.6	0.01	6	0.26
200	9.2	0.00	14	0.57
300	15.6	0.00	28	0.95
399	25.7	0.00	54	1.66
549	35.2	0.00	88	2.45
699	32.8	0.00	85	2.32
848	39.9	0.00	119	2.87
999	41.1	0.01	131	2.96
1199	42.1	0.01	142	3.02
1399	42.1	0.00	150	3.14
1598	41.2	0.01	155	3.06
1799	40.9	0.00	157	3.05
1999	40.5	0.01	157	3.00
2498	38.3	0.01	156	2.88
2998	37.5	0.01	150	2.72
3499	36.1	0.01	150	2.74
3999	35.0	0.00	147	2.70
4498	35.2	0.00	143	2.67
4999	35.2	0.00	142	2.67
5499	34.8	0.00	139	2.64
5853	34.1	0.00	139	2.62

PC18

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
12	0.0	0.00	0	0.00
22	0.0	0.00	0	0.00
50	0.0	0.03	0	0.03
99	1.7	0.01	1	0.12
198	2.2	0.00	2	0.13
299	4.9	0.00	4	0.31
398	11.1	0.00	14	0.74
548	20.7	0.00	37	1.55
698	21.8	0.00	46	1.64
848	36.4	0.00	94	2.78
998	39.7	0.00	115	3.05
1199	41.3	0.00	131	3.04
1397	41.3	0.00	143	3.14
1598	41.3	0.00	151	3.15
1798	40.6	0.00	154	3.14
1999	39.7	0.00	156	3.08
2498	38.1	0.00	155	2.90
2998	36.7	0.00	152	2.81
3498	36.4	0.00	149	2.71
3998	35.4	0.00	146	2.67
4498	34.9	0.00	143	2.62
4998	34.2	0.00	140	2.57
5492	34.0	0.00	138	2.54
5909	33.8	0.00	136	2.54

PC19

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.00	0	0.00
11	0.0	0.02	0	0.00
21	0.0	0.01	0	0.00
51	0.0	0.01	0	0.00
99	1.1	0.05	1	0.08
201	2.2	0.00	2	0.14
299	3.0	0.00	3	0.17
398	7.5	0.00	8	0.45
548	15.5	0.00	24	1.05
698	26.5	0.00	54	1.92
848	32.4	0.00	73	2.45
998	37.5	0.00	98	2.81
1199	40.5	0.00	122	3.04
1398	41.1	0.00	136	3.14
1597	41.1	0.00	146	3.18
1798	40.9	0.00	152	3.09
1998	39.7	0.00	153	3.12
2498	38.4	0.00	154	2.94
2998	37.5	0.00	150	2.79
3498	36.3	0.00	146	2.73
3998	35.6	0.00	145	2.62
4498	34.7	0.00	143	2.59
4998	34.3	0.00	140	2.60
5498	34.0	0.00	137	2.53
6005	33.3	0.00	134	2.50

PC21

Press (db)	NO_3-N	NO_2-N	SiO_2-Si	PO_4-P
		(μg-atoms/l)		
0	0.0	0.01	0	0.00
10	0.0	0.00	0	0.00
22	0.0	0.00	0	0.00
49	0.0	0.02	0	0.02
100	–	0.00	0	0.11
200	–	0.00	2	0.12
300	3.2	0.00	2	0.14
398	4.0	0.00	7	0.50
548	5.6	0.00	14	0.78
699	3.5	0.01	10	0.45
848	25.9	0.00	70	2.48
998	31.1	0.01	94	2.92
1199	33.0	0.00	113	3.05
1398	34.0	0.00	128	3.16
1598	34.7	0.00	135	3.26
1799	34.0	0.02	141	3.15
1998	33.3	0.00	143	3.11
2499	31.5	0.00	143	2.91
2998	30.2	0.01	140	2.79
3499	29.5	0.00	137	2.70
3999	28.3	0.04	134	2.64
4498	28.4	0.04	132	2.60
4998	27.8	0.04	131	2.56
5498	27.5	0.03	127	2.55
6004	27.2	0.02	124	2.53

PC23

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
12	0.0	0
21	0.0	0
49	0.0	0
99	1.4	2
199	2.1	2
300	4.5	4
398	10.4	12
548	18.3	31
698	29.9	64
849	34.1	82
999	38.0	102
1198	39.3	118
1399	40.6	131
1599	40.0	138
1799	40.0	141
1998	38.7	142
2498	–	–
2998	35.6	138
3499	34.6	135
3998	34.1	133
4498	33.3	131
4999	33.4	130
5498	32.7	126
6005	31.7	125

PC25

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
10	0.0	0
22	0.0	0
51	0.0	1
99	0.7	1
200	3.6	4
299	8.0	10
399	9.5	15
548	21.2	41
698	32.2	74
848	36.7	95
998	38.8	113
1198	40.2	126
1398	40.7	139
1598	40.8	145
1798	40.1	148
1998	39.6	150
2498	37.8	150
2998	36.1	146
3498	35.2	143
3997	35.0	141
4498	34.3	138
4997	33.7	136
5498	33.2	131
6010	32.7	128

PC26

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
22	0.0	0
48	0.0	0
97	0.7	2
197	1.9	2
297	7.2	9
397	9.3	14
547	19.3	35
697	32.4	75
848	36.1	89
998	38.6	107
1197	39.7	122
1398	40.4	134
1598	40.7	141
1797	40.0	146
1997	39.4	145
2498	37.3	144
2998	35.9	140
3498	35.4	138
3997	34.5	137
4498	34.0	134
4998	33.7	132
5497	33.2	129
6006	32.7	128

PC27

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
10	0.0	1
22	0.0	1
48	0.0	1
98	0.9	2
199	1.2	2
298	2.1	3
398	8.1	10
548	14.9	23
698	25.5	51
849	33.3	79
1000	38.5	105
1198	39.4	121
1399	40.5	133
1599	40.4	142
1799	40.3	148
1999	39.1	149
2499	–	–
2999	36.2	144
3500	35.0	141
3996	35.4	140
4497	34.4	136
4997	33.7	134
5379	33.6	134
5985	33.5	131

PC28

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	1
20	0.0	1
48	0.9	2
98	1.6	2
199	1.9	3
298	5.4	6
396	4.6	7
548	15.6	24
698	26.4	53
806	31.0	66
997	38.1	97
1197	41.7	88
1396	40.6	130
1598	40.8	136
1798	40.6	143
1998	39.2	144
2497	38.1	144
2997	35.6	141
3497	34.1	135
3998	34.8	136
4498	33.9	132
4998	33.6	129
5499	33.7	126
5937	32.7	125

PC29

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
20	0.0	0
50	0.0	1
98	1.8	4
197	7.5	12
297	4.9	8
398	7.5	13
548	20.2	40
698	–	–
847	37.2	96
998	37.8	109
1197	41.7	130
1398	41.2	138
1597	41.1	145
1797	40.5	150
1998	38.1	145
2498	36.2	145
2997	35.8	144
3497	33.8	140
3997	34.6	140
4497	33.8	135
4998	33.5	133
5487	32.7	130
5949	32.4	128

PC30

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
12	0.0	0
20	0.0	0
47	1.2	4
98	4.1	7
198	6.6	11
298	10.1	18
364	19.2	37
548	29.4	67
846	37.7	107
999	38.5	122
1198	38.8	132
1399	40.4	144
1698	39.6	152
1998	37.1	149
2498	36.1	149
2996	34.6	146
3497	33.3	142
3998	32.4	138
4489	32.0	136
4499	33.6	139
4998	32.7	134
5499	31.5	129
5760	32.4	132

PC31

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
21	0.0	0
50	2.6	5
98	6.5	10
197	8.1	13
296	15.4	26
397	24.7	48
548	34.6	79
697	38.9	100
847	41.3	116
999	42.5	128
1198	43.3	141
1397	42.9	148
1598	42.4	151
1799	41.6	153
1999	40.5	153
2497	38.6	151
2998	37.1	145
3498	34.8	141
3998	36.8	140
4497	36.3	136
4998	36.0	133
5498	35.7	130
5657	35.5	129

PC32

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
9	0.0	1
19	0.0	4
48	1.9	6
98	3.2	6
198	4.0	7
297	7.3	12
399	15.4	28
499	26.8	57
599	34.0	79
698	36.5	89
798	39.7	104
899	41.1	115
998	41.8	123
1199	42.9	138
1399	43.4	148
1597	42.6	154
1798	42.3	156
1998	41.1	156
2497	38.9	154
2998	37.8	152
3497	36.4	146
3998	35.7	144
4498	35.2	142
4826	34.0	133

PC33

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
20	0.0	0
50	0.0	0
98	0.0	1
147	0.0	1
199	0.5	1
299	2.4	4
399	4.5	9
499	11.2	20
600	18.0	36
700	26.4	58
798	31.8	78
899	36.0	98
999	37.4	109
1199	39.9	129
1398	39.7	140
1599	–	–
1799	39.5	149
1999	39.1	150
2499	36.6	148
2999	36.0	145
3500	34.5	140
3998	34.0	138
4506	33.4	132

PC34

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
10	0.0	0
19	0.0	0
49	0.0	1
99	0.0	1
199	1.2	2
300	1.6	3
398	4.6	8
499	10.0	18
598	16.9	32
698	21.6	42
798	29.2	66
899	34.2	90
999	35.9	102
1199	–	–
1399	39.3	133
1598	39.1	144
1798	–	–
1999	38.3	151
2498	35.9	150
2999	34.7	147
3498	33.8	145
3999	32.5	143
4498	32.4	142
4815	31.9	140

PC35

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
20	0.0	0
49	0.0	1
98	0.0	2
198	0.0	3
297	0.0	3
398	2.5	6
547	8.5	17
747	24.2	58
847	29.6	74
997	36.3	101
1197	39.0	124
1397	38.0	135
1597	40.1	147
1797	39.7	151
1997	38.3	152
2497	35.9	151
2998	34.3	149
3498	33.2	145
3997	32.4	143
4498	32.6	141
4999	31.4	137
5498	31.6	130
5619	31.9	131

PC36

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
20	0.0	0
50	0.0	1
99	2.3	1
199	2.2	2
299	2.3	3
398	4.8	8
548	11.7	22
699	23.1	51
849	30.9	79
999	36.2	104
1199	38.2	122
1399	39.5	136
1599	38.4	142
1798	37.6	147
1999	37.4	147
2500	34.1	143
2996	33.3	143
3499	32.7	141
3999	32.6	138
4498	32.0	136
4997	32.1	132
5498	31.3	127
5893	30.9	125

PC37

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
12	0.0	0
22	0.0	0
51	0.0	1
101	0.0	2
199	5.1	2
298	5.3	3
399	6.5	9
549	13.6	23
700	27.5	63
848	32.7	81
999	36.9	105
1199	38.3	125
1398	38.8	137
1597	38.9	145
1799	39.0	150
1998	37.7	151
2499	35.3	147
2999	33.7	144
3497	32.7	140
3997	32.1	139
4497	32.0	138
4997	31.6	134
5497	30.8	129
5740	30.9	127

PC38

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
10	0.0	0
21	0.0	0
49	0.0	1
99	0.0	2
200	0.0	2
301	7.9	4
398	9.0	10
549	14.9	25
698	24.2	49
848	33.0	80
997	37.1	102
1198	39.3	123
1397	39.8	136
1598	40.0	145
1798	35.4	150
1998	36.9	151
2498	31.8	149
2998	34.6	147
3498	34.4	142
3998	33.9	140
4498	33.4	137
4998	33.2	134
5498	32.5	130
5981	32.3	128

PC39

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
21	0.0	0
51	0.0	1
98	0.0	1
197	0.2	2
297	0.9	4
397	2.7	9
547	10.2	24
697	21.4	52
847	30.9	81
997	35.7	103
1197	37.6	123
1398	38.4	133
1598	38.6	141
1797	37.8	142
1997	37.3	143
2496	35.3	140
2997	33.8	136
3498	–	–
3998	33.7	133
4497	33.0	131
4997	33.1	127
5497	33.0	123
5989	32.9	121

PC40

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
20	0.0	0
48	0.0	0
98	1.4	2
197	2.4	3
298	3.8	4
398	9.5	10
549	21.1	34
697	29.8	59
848	36.8	85
997	40.6	105
1198	42.5	124
1397	42.9	136
1597	42.4	143
1798	41.8	146
1996	41.1	148
2498	38.5	143
2996	37.2	141
3497	36.5	138
3997	36.0	135
4497	35.4	133
4998	35.1	130
5497	34.6	126
6004	34.2	124

PC41

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
11	0.0	0
20	0.0	0
51	0.0	0
98	0.3	1
198	3.6	2
297	7.1	6
398	12.1	14
548	21.5	36
697	31.2	62
847	37.3	86
998	40.7	107
1198	42.0	124
1398	42.5	134
1598	42.8	141
1798	41.7	146
1997	40.4	146
2497	39.1	147
2997	37.2	139
3497	36.5	138
3998	35.9	134
4497	35.2	134
4997	35.2	130
5498	34.3	127
6008	34.3	125

PC42

Press (db)	NO_3+NO_2-N (μg-atoms/l)	SiO_2-Si (μg-atoms/l)
0	0.0	0
12	0.0	0
21	0.0	0
49	0.0	1
97	1.1	2
198	1.8	3
297	2.0	2
397	3.1	3
546	12.9	17
697	27.1	53
847	33.7	73
997	39.7	101
1198	41.6	123
1398	42.0	135
1597	42.3	143
1797	41.0	148
1997	40.4	148
2497	38.4	147
2998	36.9	140
3997	35.5	137
4496	35.3	135
4997	34.7	133
5497	34.3	130
6037	33.9	127

PC43

Press (db)	NO_3+NO_2-N (μg-atoms/l)	SiO_2-Si (μg-atoms/l)
0	0.0	0
12	0.0	0
21	0.0	0
49	0.0	0
98	0.0	0
200	0.4	1
298	0.6	2
398	1.8	3
549	5.9	8
698	13.5	23
848	24.0	51
999	32.1	80
1198	35.6	102
1399	38.7	131
1598	38.3	140
1798	37.9	142
1998	36.8	143
2499	34.8	139
2998	33.7	135
3499	33.1	133
3999	33.1	132
4499	32.4	130
4999	32.2	127
5499	32.0	123
6004	31.4	120

PC44

Press (db)	NO_3+NO_2-N (μg-atoms/l)	SiO_2-Si (μg-atoms/l)
0	0.0	0
10	0.0	0
19	0.0	0
48	0.0	1
97	–	2
197	1.4	3
297	2.6	5
396	7.0	10
547	14.3	24
696	23.1	47
846	31.7	77
998	36.1	105
1193	37.3	120
1198	38.0	121
1598	37.3	139
1799	36.9	142
1998	36.1	142
2498	34.1	139
2998	33.1	139
3498	32.5	138
3999	31.9	136
4499	31.5	134
4998	30.8	133
5499	30.7	129
6021	30.1	126

PC45

Press (db)	NO_3+NO_2-N (μg-atoms/l)	SiO_2-Si (μg-atoms/l)
0	0.0	0
12	0.0	0
21	0.0	0
50	0.0	0
100	0.0	0
200	–	2
301	1.5	2
398	2.4	3
549	6.7	9
699	12.7	20
849	24.4	49
998	31.8	77
1199	35.5	97
1398	37.7	128
1599	37.2	135
1798	36.7	140
1999	35.5	138
2499	–	–
2998	33.0	135
3498	32.5	134
3998	31.9	133
4488	32.1	132
4998	31.4	131
5498	31.1	128
5980	30.4	125

PC46

Press (db)	NO_3+NO_2-N (μg-atoms/l)	SiO_2-Si (μg-atoms/l)
0	0.0	0
10	0.0	0
22	0.0	0
50	0.0	1
98	–	2
198	–	2
297	4.8	5
397	8.2	10
547	17.9	32
697	27.0	57
848	33.8	85
997	37.6	104
1198	38.5	121
1397	38.8	131
1598	38.2	136
1797	37.5	141
1996	36.9	142
2497	34.8	141
2998	33.5	137
3497	32.9	137
3998	32.6	136
4498	31.6	133
3998	31.5	131
5497	31.2	128
6006	31.0	125

PC47

Press (db)	NO_3+NO_2-N (μg-atoms/l)	SiO_2-Si (μg-atoms/l)
0	0.0	0
11	0.0	0
21	0.0	0
48	0.0	1
98	0.0	2
199	–	2
300	–	4
400	10.9	12
549	18.7	30
699	24.9	50
849	30.8	67
1000	37.2	99
1199	39.7	116
1399	39.9	130
1598	40.0	137
1799	39.2	143
1998	38.8	145
2498	36.8	143
2999	38.5	144
3498	34.3	136
3999	33.7	133
4499	33.4	132
4999	33.2	129
5500	32.7	128
6071	32.4	126

PC48

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
20	0.0	0
50	0.0	0
98	0.0	1
198	0.3	2
296	0.4	2
398	2.6	6
548	10.8	22
698	19.7	45
848	27.0	67
988	32.4	94
1198	34.5	111
1397	35.2	123
1599	35.9	131
1799	35.0	135
2000	34.2	135
2499	32.4	133
3000	31.3	130
3499	31.0	127
3998	30.1	125
4499	29.8	122
4999	30.0	120
5499	29.4	118
5739	29.1	116

PC49

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
10	0.0	0
21	0.0	0
49	0.0	0
99	0.0	1
198	–	2
300	–	2
399	1.2	2
549	7.2	17
698	17.6	44
848	26.3	72
998	30.9	92
1199	33.2	116
1398	34.1	130
1598	34.0	137
1799	34.0	140
1998	32.4	140
2500	30.8	137
2998	29.7	137
3498	29.1	133
3998	28.4	131
4499	27.9	128
4999	27.7	126
5499	27.3	123
5707	27.7	122

PC50

Press (db)	NO_3+NO_2-N	SiO_2-Si
	(μg-atoms/l)	
0	0.0	0
22	0.0	0
50	0.0	0
97	0.0	1
199	–	2
297	2.1	2
397	3.2	7
548	9.6	21
698	19.7	47
847	27.8	73
998	33.0	98
1198	35.2	117
1398	36.0	128
1597	35.8	137
1797	35.1	141
1997	34.3	140
2498	33.2	142
2999	31.5	138
3498	30.9	136
3999	30.3	134
4497	30.2	132
4998	30.1	129
5498	30.0	127
6005	29.8	126

PC51

Press (db)	SiO_2-Si (μg-atoms/l)
0	0
10	0
20	0
50	0
98	1
200	2
299	2
399	7
549	20
698	42
849	72
999	95
1199	113
1399	125
1599	133
1798	138
1998	139
2499	134
3000	133
3498	–
3998	131
4499	129
4998	128
5499	126
6004	125

PC52

Press (db)	SiO_2-Si (μg-atoms/l)
0	0
20	0
48	0
98	0
198	1
299	3
398	–
549	23
699	41
848	72
997	93
1199	95
1398	126
1598	134
1799	136
1999	137
2498	136
2998	134
3498	135
3994	131
4498	128
4997	127
5498	125
6005	124

PC53

Press (db)	SiO_2-Si (μg-atoms/l)
0	0
12	0
19	0
48	0
96	1
197	2
300	3
398	8
498	14
597	25
698	42
797	61
898	82
998	94
1197	114
1398	125
1598	132
1798	135
1998	137
2498	135
2982	133
3497	133
3997	131
4496	128
4967	127

PC54

Press (db)	SiO_2-Si (μg-atoms/l)
0	0
11	0
21	0
49	0
99	1
150	2
200	2
299	5
399	12
499	18
600	27
698	47
799	65
898	80
999	96
1199	115
1399	127
1599	133
1799	138
1998	139
2499	134
2999	133
3498	133
3999	132
4341	130

PC55

Press (db)	SiO_2-Si (μg-atoms/l)
0	0
11	0
21	0
44	0
97	1
147	2
197	3
248	3
298	5
398	13
498	18
598	34
698	55
799	72
898	91
997	103
1198	122
1397	132
1597	139
1798	141
1998	139
2498	136
2997	133
3477	132
3547	130

PC56

Press (db)	SiO_2-Si (μg-atoms/l)
0	0
10	0
19	0
50	0
75	0
99	0
150	1
200	1
250	2
298	3
399	5
499	12
599	37
699	60
799	79
898	91
999	109
1099	119
1199	126
1299	134
1399	136
1599	148
1799	150
1999	150
2481	152

10. XBT Data

AS21X
27°30′N, 135°52′E

z(m)	T(°C)
0	21.08
10	21.01
20	20.96
30	20.96
50	20.77
75	19.38
100	18.99
150	18.32
200	17.93
300	16.05
400	14.08
500	11.83
600	9.01
700	6.66
800	5.34

AS25X
25°30′N, 136°49′E

z(m)	T(°C)
0	23.75
10	23.75
20	23.73
30	23.68
50	21.51
75	19.34
100	18.80
150	18.24
200	17.54
300	16.18
400	14.01
500	11.23
600	8.68
700	6.62
800	4.96

XAS01
32°45′N, 133°06′E

z(m)	T(°C)
0	21.50
10	21.50
20	21.16
30	20.05
50	19.23
75	18.50
100	18.12
150	16.04
200	15.69

XAS01A
32°40′N, 133°09′E

z(m)	T(°C)
0	23.41
10	23.34
20	23.28
30	23.19
50	21.89
75	20.64
100	18.58
150	17.37
200	15.26
300	11.10
400	11.35
500	11.49

XAS02
32°35′N, 133°11′E

z(m)	T(°C)
0	23.58
10	23.55
20	23.56
30	23.55
50	23.56
75	22.00
100	20.83
150	17.78
200	15.74
300	11.09
400	8.10
500	6.66
600	5.44
700	5.55
800	5.58

XAS02A
32°30′N, 133°14′E

z(m)	T(°C)
0	23.71
10	23.68
20	23.68
30	23.62
50	22.95
75	21.16
100	20.32
150	18.50
200	17.01
300	11.71
400	8.91
500	6.80
600	5.56
700	5.00
800	4.17
900	4.06

XAS03
32°25′N, 133°17′E

z(m)	T(°C)
0	23.64
10	23.64
20	23.62
30	23.21
50	22.61
75	21.70
100	20.35
150	17.99
200	15.73
300	12.85
400	8.70
500	7.00
600	5.66
700	4.75
800	4.26

XAS03A
32°20′N, 133°19′E

z(m)	T(°C)
0	23.79
10	23.79
20	23.77
30	23.71
50	22.96
75	21.58
100	19.77
150	17.83
200	16.18
300	12.85
400	9.04
500	6.76
600	5.54
700	4.47
800	3.90

XAS04
32°15′N, 133°22′E

z(m)	T(°C)
0	22.92
10	22.88
20	22.85
30	22.86
50	22.29
75	20.95
100	19.39
150	17.97
200	15.88
300	12.68
400	9.69
500	6.59
600	5.64
700	4.62
800	3.84

XAS04A
32°10′N, 133°25′E

z(m)	T(°C)
0	22.92
10	22.90
20	22.88
30	22.86
50	22.04
75	21.03
100	19.84
150	17.89
200	15.72
300	12.27
400	9.57
500	6.79
600	5.35
700	4.54
800	4.01

XAS05
32°05′N, 133°27′E

z(m)	T(°C)
0	23.41
10	23.36
20	23.34
30	22.75
50	22.06
75	21.48
100	19.94
150	17.64
200	15.59
300	12.46
400	9.25
500	6.58
600	5.33
700	4.60
800	3.93

XAS05A
31°60′N, 133°30′E

z(m)	T(°C)
0	22.79
10	22.79
20	22.77
30	22.79
50	22.10
75	21.11
100	19.81
150	17.42
200	15.78
300	12.73
400	9.55
500	7.60
600	5.20
700	4.51
800	3.96

XAS06
31°55′N, 133°32′E

z(m)	T(°C)
0	22.12
10	22.12
20	22.08
30	22.01
50	21.50
75	20.20
100	19.15
150	17.28
200	15.98
300	12.79
400	9.79
500	7.41
600	5.88
700	4.55
800	4.06

XAS06A
31°50′N, 133°35′E

z(m)	T(°C)
0	22.27
10	22.27
20	22.27
30	22.27
50	21.23
75	19.95
100	18.96
150	17.16
200	16.07
300	12.84
400	9.67
500	7.80
600	5.84
700	4.54
800	4.03

XAS07
31°45′N, 133°38′E

z(m)	T(°C)
0	22.77
10	22.74
20	22.74
30	22.74
50	21.32
75	20.11
100	19.30
150	17.46
200	15.79
300	13.21
400	9.63
500	7.92
600	5.93
700	4.54
800	4.04

XAS07A

31°38′N, 133°42′E

z(m)	T(°C)
0	22.77
10	22.79
20	22.77
30	22.77
50	21.74
75	20.52
100	19.53
150	17.68
200	16.33
300	13.68
400	10.48
500	7.65
600	6.15
700	4.77
800	4.02

XAS08

31°30′N, 133°46′E

z(m)	T(°C)
0	23.87
10	23.85
20	23.79
30	23.51
50	22.67
75	21.72
100	20.26
150	18.69
200	17.01
300	14.45
400	11.74
500	8.59
600	6.34
700	5.03
800	4.07

XAS08A

31°22′N, 133°50′E

z(m)	T(°C)
0	24.43
10	24.45
20	24.45
30	24.48
50	24.48
75	23.96
100	22.94
150	20.02
200	17.68
300	15.11
400	12.89
500	10.29
600	7.21
700	5.57
800	4.48

XAS09

31°15′N, 133°54′E

z(m)	T(°C)
0	24.15
10	24.17
20	24.19
30	24.19
50	24.21
75	23.79
100	22.80
150	20.72
200	19.31
300	16.87
400	14.11
500	10.92
600	8.25
700	6.43
800	4.90

XAS09A

31°08′N, 133°57′E

z(m)	T(°C)
0	23.70
10	23.71
20	23.73
30	23.73
50	23.75
75	23.68
100	22.68
150	20.51
200	19.67
300	17.75
400	15.51
500	11.70
600	9.03
700	6.51
800	5.07

XAS10

31°00′N, 134°01′E

z(m)	T(°C)
0	23.62
10	23.64
20	23.64
30	23.66
50	23.10
75	22.72
100	21.49
150	20.24
200	19.63
300	17.65
400	16.10
500	13.10
600	9.93
700	7.33
800	5.09

XAS10A

30°53′N, 134°05′E

z(m)	T(°C)
0	23.47
10	23.47
20	23.51
30	23.51
50	23.05
75	22.08
100	21.63
150	20.36
200	19.55
300	18.10
400	16.48
500	13.87
600	10.55
700	7.69
800	6.01
900	23.28

XAS11

30°45′N, 134°09′E

z(m)	T(°C)
0	22.79
10	22.83
20	22.81
30	22.83
50	22.59
75	21.91
100	21.28
150	20.33
200	19.41
300	18.22
400	16.38
500	14.39
600	11.01
700	8.44
800	6.93

XAS11A

30°38′N, 134°13′E

z(m)	T(°C)
0	22.43
10	22.45
20	22.45
30	22.47
50	22.35
75	21.30
100	20.92
150	20.23
200	19.49
300	18.17
400	16.63
500	14.25
600	11.48
700	8.92
800	6.10

XAS12

30°30′N, 134°17′E

z(m)	T(°C)
0	22.49
10	22.47
20	22.49
30	22.47
50	22.43
75	21.38
100	20.83
150	20.32
200	19.91
300	18.48
400	16.75
500	14.42
600	11.17
700	8.87
800	6.68

XAS12A

30°23′N, 134°21′E

z(m)	T(°C)
0	22.59
10	22.59
20	22.58
30	22.59
50	22.59
75	21.50
100	20.89
150	20.32
200	19.87
300	18.58
400	16.82
500	14.36
600	11.15
700	8.23
800	6.67

XAS13

30°15′N, 134°25′E

z(m)	T(°C)
0	23.14
10	23.19
20	23.14
30	23.01
50	22.59
75	21.46
100	20.92
150	20.28
200	19.77
300	18.09
400	16.73
500	14.38
600	11.65
700	8.62
800	6.45

XAS13A

30°08′N, 134°29′E

z(m)	T(°C)
0	22.86
10	22.88
20	22.88
30	22.88
50	21.58
75	21.20
100	20.73
150	20.02
200	19.43
300	18.11
400	16.66
500	14.59
600	11.55
700	9.20
800	6.79

XAS14

29°60′N, 134°33′E

z(m)	T(°C)
0	22.59
10	22.61
20	22.50
30	21.84
50	21.10
75	20.78
100	20.51
150	19.57
200	19.01
300	17.96
400	16.76
500	15.17
600	12.50
700	9.13
800	7.11

XAS14A

29°50′N, 134°38′E

z(m)	T(°C)
0	21.41
10	21.41
20	21.41
30	21.25
50	20.66
75	19.84
100	19.50
150	18.92
200	18.39
300	17.99
400	17.44
500	15.69
600	12.76
700	9.99
800	7.57

XAS15

29°40′N, 134°43′E

z(m)	T(°C)
0	20.95
10	20.93
20	20.74
30	20.65
50	19.81
75	19.25
100	18.84
150	18.27
200	18.16
300	18.06
400	17.78
500	16.10
600	13.42
700	9.92
800	6.97

XAS15A

29°30′N, 134°48′E

z(m)	T(°C)
0	22.95
10	22.90
20	22.19
30	21.00
50	20.61
75	19.80
100	19.13
150	18.30
200	18.24
300	18.07
400	17.93
500	16.22
600	12.53
700	9.53
800	7.04

XAS16

29°20′N, 134°53′E

z(m)	T(°C)
0	23.12
10	23.12
20	23.10
30	21.62
50	20.54
75	19.92
100	19.41
150	18.42
200	18.22
300	18.06
400	17.36
500	14.81
600	12.04
700	8.72
800	6.53

XAS16A

29°10′N, 134°58′E

z(m)	T(°C)
0	22.88
10	22.88
20	22.90
30	22.55
50	20.82
75	20.32
100	19.48
150	18.80
200	18.37
300	17.86
400	16.25
500	14.09
600	10.99
700	7.94
800	6.23

XAS17

29°00′N, 135°03′E

z(m)	T(°C)
0	21.43
10	21.41
20	21.37
30	21.35
50	20.87
75	20.20
100	20.02
150	19.13
200	18.42
300	17.58
400	15.59
500	13.14
600	10.15
700	8.17
800	7.42

XAS17A

28°50′N, 135°08′E

z(m)	T(°C)
0	21.87
10	21.86
20	21.81
30	21.72
50	20.90
75	20.24
100	19.33
150	18.49
200	18.17
300	17.52
400	15.38
500	12.48
600	9.54
700	7.20
800	5.67

XAS18

28°40′N, 135°13′E

z(m)	T(°C)
0	21.60
10	21.63
20	21.60
30	21.52
50	20.53
75	19.60
100	19.13
150	18.61
200	18.19
300	17.14
400	15.00
500	12.36
600	9.59
700	7.20
800	5.55

XAS18A

28°30′N, 135°18′E

z(m)	T(°C)
0	21.55
10	21.55
20	21.55
30	21.53
50	20.43
75	19.19
100	18.90
150	18.29
200	17.69
300	16.43
400	14.24
500	11.48
600	9.09
700	6.48
800	5.35

XAS19

28°20′N, 135°24′E

z(m)	T(°C)
0	21.13
10	21.13
20	21.13
30	21.13
50	20.91
75	19.57
100	18.97
150	18.22
200	17.87
300	16.58
400	14.53
500	12.07
600	8.61
700	6.78
800	5.41

XAS20

28°00′N, 135°34′E

z(m)	T(°C)
0	21.21
10	21.21
20	21.21
30	21.08
50	19.98
75	19.25
100	18.89
150	18.39
200	17.97
300	16.71
400	14.80
500	11.79
600	9.17
700	7.27
800	6.27

XAS21

27°30′N, 135°49′E

z(m)	T(°C)
0	20.70
10	20.70
20	20.70
30	20.72
50	20.40
75	18.74
100	18.49
150	18.14
200	17.86
300	16.65
400	14.61
500	11.61
600	9.60
700	6.89
800	5.23

XAS22

26°60′N, 136°04′E

z(m)	T(°C)
0	21.87
10	21.86
20	21.89
30	21.86
50	21.69
75	20.43
100	20.02
150	19.01
200	18.58
300	17.45
400	15.39
500	12.01
600	9.23
700	6.43
800	5.36
900	16.85

XAS23

26°30′N, 136°19′E

z(m)	T(°C)
0	22.19
10	22.20
20	22.20
30	22.22
50	21.86
75	20.13
100	19.86
150	19.26
200	18.80
300	17.17
400	15.48
500	12.58
600	9.64
700	7.30
800	5.73

XAS24

26°00′N, 136°34′E

z(m)	T(°C)
0	24.43
10	24.43
20	24.43
30	24.39
50	21.94
75	20.52
100	19.82
150	19.10
200	18.52
300	17.14
400	15.27
500	12.06
600	9.04
700	6.55
800	5.23

XAS25

25°30′N, 136°49′E

z(m)	T(°C)
0	23.43
10	23.43
20	23.40
30	23.07
50	19.63
75	18.96
100	18.65
150	18.02
200	17.36
300	15.46
400	13.33
500	10.92
600	8.25
700	6.04
800	4.93

XAS26

24°60′N, 137°04′E

z(m)	T(°C)
0	26.18
10	26.20
20	26.09
30	25.33
50	23.53
75	22.33
100	20.97
150	19.57
200	18.35
300	16.82
400	14.48
500	11.48
600	8.84
700	6.50
800	5.11

XIESA

33°60′N, 140°01′E

z(m)	T(°C)
0	21.79
10	21.87
20	21.48
30	20.95
50	18.78
75	17.56
100	16.87
150	16.28
200	15.02
300	11.77
400	8.69
500	6.13
600	5.18
700	4.45
800	3.97
900	3.50
1000	3.13
1100	2.81
1200	2.86

XIESB

34°05′N, 140°04′E

z(m)	T(°C)
0	22.03
10	22.08
20	21.88
30	21.48
50	19.40
75	19.26
100	17.58
150	16.11
200	14.76
300	12.61
400	8.53
500	5.97
600	4.85
700	4.11
800	3.61
900	3.38
1000	3.19
1100	2.91
1200	2.76
1300	2.70
1400	2.75

XIESC

34°00′N, 140°07′E

z(m)	T(°C)
0	21.55
10	21.65
20	21.62
30	21.48
50	20.70
75	18.56
100	17.64
150	16.31
200	14.22
300	11.06
400	7.63
500	5.53
600	4.61
700	3.84
800	3.48
900	3.28
1000	2.96
1100	2.88
1200	2.91

X01

34°00′N, 139°60′E

z(m)	T(°C)
0	22.13
10	22.15
20	22.12
30	21.91
50	19.76
75	17.90
100	16.98
150	16.37
200	14.80
300	11.69
400	7.97
500	5.37
600	4.44
700	4.02
800	3.39
900	3.25
1000	2.89
1100	2.76
1200	2.83
1300	2.86
1400	2.88
1500	2.89
1600	2.89
1700	2.89
1800	2.87
1900	2.86
2000	2.85

X02

34°00′N, 140°15′E

z(m)	T(°C)
0	21.06
10	20.95
20	20.74
30	20.58
50	19.76
75	18.25
100	17.57
150	15.67
200	14.24
300	10.70
400	8.61
500	6.00
600	4.31
700	3.59
800	3.34
900	3.08
1000	2.87
1100	2.76
1200	2.71
1300	2.79

X03

34°00′N, 140°30′E

z(m)	T(°C)
0	23.23
10	23.23
20	23.25
30	23.24
50	21.80
75	20.32
100	19.74
150	18.05
200	14.98
300	12.14
400	9.36
500	7.09
600	5.78
700	4.49
800	3.92
900	3.54
1000	3.15
1100	3.06
1200	2.83

X04

34°00′N, 140°52′E

z(m)	T(°C)
0	23.34
10	23.32
20	23.34
30	23.32
50	23.33
75	23.21
100	22.51
150	20.83
200	19.03
300	15.48
400	12.37
500	9.06
600	6.49
700	5.11
800	4.32
900	3.86
1000	3.53
1100	3.36
1200	2.93
1300	2.78
1400	2.63
1500	2.47
1600	2.36
1700	2.26
1800	2.18
1900	2.11
2000	2.07

X05

34°00′N, 141°10′E

z(m)	T(°C)
0	23.41
10	23.47
20	23.60
30	23.51
50	23.51
75	23.03
100	22.31
150	20.36
200	18.86
300	16.69
400	14.17
500	11.35
600	8.39
700	6.55
800	6.03
900	4.70
1000	3.93
1100	3.63
1200	3.24
1300	3.05
1400	2.83
1500	2.54
1600	2.43
1700	2.33
1800	2.25
1900	2.16
2000	2.08

X06

34°00′N, 141°28′E

z(m)	T(°C)
0	23.28
10	23.28
20	23.28
30	23.27
50	23.14
75	21.75
100	20.50
150	19.15
200	18.32
300	16.48
400	14.60
500	12.42
600	9.87
700	7.63
800	6.60
900	4.62
1000	4.15
1100	3.67
1200	3.38
1300	3.18
1400	2.96
1500	2.76
1600	2.59
1700	2.44
1800	2.34
1900	2.23
2000	2.16

X07

33°60′N, 141°46′E

z(m)	T(°C)
0	22.50
10	22.31
20	22.15
30	21.31
50	19.36
75	18.60
100	18.26
150	17.86
200	17.65
300	17.16
400	15.44
500	13.12
600	10.72
700	8.06
800	6.16
900	4.89
1000	4.33
1100	4.07
1200	3.62
1300	3.42
1400	2.99
1500	2.77
1600	2.57
1700	2.43
1800	2.32
1900	2.21
2000	2.13

X08

34°00′N, 142°03′E

z(m)	T(°C)
0	20.03
10	20.02
20	20.00
30	19.96
50	19.86
75	18.67
100	18.13
150	17.78
200	17.40
300	16.41
400	14.96
500	13.08
600	10.69
700	8.61
800	6.82
900	5.84
1000	5.21
1100	4.37
1200	3.96
1300	3.62
1400	3.34
1500	3.12
1600	2.94
1700	2.81
1800	2.64
1900	2.55
2000	2.44

X09

34°00′N, 142°19′E

z(m)	T(°C)
0	20.85
10	20.82
20	20.56
30	20.49
50	20.06
75	19.00
100	18.57
150	18.04
200	17.72
300	17.14
400	15.91
500	13.60
600	11.13
700	9.16
800	7.01
900	5.46
1000	4.62
1100	3.96
1200	3.54
1300	3.18
1400	3.00
1500	2.72
1600	2.57

X10

34°00′N, 142°37′E

z(m)	T(°C)
0	20.33
10	20.08
20	19.98
30	19.96
50	19.87
75	18.99
100	18.40
150	18.19
200	18.02
300	17.66
400	16.60
500	14.37
600	12.07
700	9.27
800	7.00
900	4.90
1000	4.68
1100	4.05
1200	3.58
1300	3.24
1400	2.95
1500	2.75
1600	2.60
1700	2.46
1800	2.33
1900	2.24
2000	2.13

X11

33°60′N, 142°55′E

z(m)	T(°C)
0	20.28
10	20.30
20	20.04
30	19.99
50	19.92
75	19.80
100	19.09
150	18.17
200	17.69
300	17.20
400	16.22
500	13.40
600	9.04
700	7.09
800	4.91
900	5.29
1000	4.28
1100	3.80
1200	3.63
1300	3.42
1400	3.24
1500	3.10
1600	2.95
1700	2.83
1800	2.71
1900	2.59
2000	2.49

X12

33°60′N, 143°15′E

z(m)	T(°C)
0	22.13
10	22.15
20	22.18
30	22.19
50	22.19
75	22.12
100	21.97
150	19.35
200	18.18
300	16.42
400	13.08
500	8.81
600	7.45
700	5.32
800	4.75
900	4.30
1000	3.90
1100	3.51
1200	3.27
1300	3.17
1400	3.06
1500	2.98
1600	2.93
1700	2.85
1800	2.75
1900	2.65
2000	2.59

X13

33°60′N, 143°36′E

z(m)	T(°C)
0	22.10
10	22.12
20	22.08
30	22.06
50	21.86
75	19.75
100	18.35
150	14.78
200	12.62
300	9.85
400	7.45
500	6.26
600	5.30
700	4.98
800	4.73
900	4.42
1000	3.94
1100	3.74
1200	3.53
1300	3.33
1400	3.11
1500	2.95
1600	2.89
1700	2.80
1800	2.65
1900	2.52

X14

34°00′N, 144°00′E

z(m)	T(°C)
0	17.48
10	17.44
20	17.43
30	17.24
50	13.75
75	12.52
100	11.77
150	9.92
200	8.49
300	6.84
400	5.25
500	5.01
600	4.47
700	4.03
800	3.54
900	3.36
1000	3.11
1100	2.90
1200	2.70
1300	2.55
1400	2.43
1500	2.32
1600	2.22
1700	2.11
1800	2.04

X15

33°60′N, 144°23′E

z(m)	T(°C)
0	17.92
10	17.81
20	17.41
30	17.30
50	15.18
75	13.75
100	12.93
150	11.38
200	9.83
300	7.70
400	4.32
500	4.84
600	4.24
700	3.91
800	3.65
900	3.32
1000	3.03
1100	2.81
1200	2.64
1300	2.49
1400	2.34
1500	2.25
1600	2.17
1700	2.10

X16

34°00′N, 144°46′E

z(m)	T(°C)
0	18.43
10	18.42
20	18.10
30	17.88
50	15.15
75	13.69
100	13.07
150	12.05
200	10.23
300	7.55
400	6.38
500	5.30
600	4.44
700	4.05
800	3.78
900	3.39
1000	3.09
1100	2.84
1200	2.69
1300	2.55
1400	2.42
1500	2.27
1600	2.17
1700	2.11
1800	2.04

X17

33°60′N, 145°08′E

z(m)	T(°C)
0	18.03
10	18.07
20	17.97
30	17.61
50	16.20
75	13.98
100	13.16
150	12.05
200	10.75
300	8.22
400	6.49
500	4.78
600	4.49
700	4.06
800	3.57
900	3.30
1000	3.04
1100	2.83
1200	2.62
1300	2.50
1400	2.37
1500	2.26
1600	2.18
1700	2.10
1800	2.01

X18

33°60′N, 145°30′E

z(m)	T(°C)
0	17.54
10	17.61
20	17.61
30	16.99
50	15.93
75	13.59
100	13.13
150	11.92
200	10.70
300	8.19
400	5.99
500	4.96
600	4.50
700	4.13
800	3.76
900	3.54
1000	3.36
1100	3.18
1200	3.20
1300	3.15
1400	3.06
1500	3.03
1600	2.96
1700	2.89
1800	2.84
1900	2.79
2000	2.72

X19

34°00′N, 145°53′E

z(m)	T(°C)
0	18.19
10	18.30
20	18.20
30	17.97
50	16.49
75	13.35
100	13.22
150	12.02
200	10.74
300	8.15
400	6.07
500	5.15
600	4.77
700	4.37
800	3.97
900	3.63
1000	3.51
1100	3.32
1200	3.13
1300	3.04
1400	2.91
1500	2.82
1600	2.73
1700	2.65
1800	2.57
1900	2.47

X20

34°01′N, 146°15′E

z(m)	T(°C)
0	20.43
10	20.40
20	20.14
30	20.09
50	19.61
75	18.42
100	17.73
150	16.00
200	13.91
300	11.42
400	8.76
500	5.10
600	4.91
700	4.42
800	3.94
900	3.71
1000	3.45
1100	3.19
1200	3.01
1300	2.83
1400	2.68
1500	2.60
1600	2.51
1700	2.45
1800	2.40
1900	2.37

X21

34°00′N, 146°38′E

z(m)	T(°C)
0	21.11
10	21.09
20	20.97
30	20.91
50	20.24
75	19.89
100	19.29
150	18.49
200	17.57
300	15.28
400	12.18
500	8.95
600	6.68
700	4.68
800	4.40
900	3.95
1000	3.50
1100	3.36
1200	3.17
1300	3.00
1400	2.85
1500	2.85
1600	3.00
1700	2.92
1800	2.81
1900	2.71

X22

34°01′N, 147°00′E

z(m)	T(°C)
0	21.36
10	21.44
20	21.00
30	20.55
50	19.92
75	18.70
100	18.05
150	17.48
200	17.25
300	16.85
400	14.97
500	12.30
600	8.86
700	6.45
800	5.24
900	4.59
1000	4.13
1100	3.79
1200	3.51
1300	3.32
1400	3.11
1500	2.96
1600	2.78
1700	2.65
1800	2.58
1900	2.51
2000	2.44

X23

34°00′N, 147°23′E

z(m)	T(°C)
0	20.83
10	20.87
20	20.66
30	19.75
50	19.19
75	18.18
100	17.92
150	17.45
200	17.26
300	16.98
400	15.86
500	13.56
600	11.11
700	8.14
800	5.68
900	4.86
1000	4.23
1100	3.81
1200	3.50
1300	3.24
1400	3.01
1500	2.88
1600	2.76
1700	2.66
1800	2.58
1900	2.48
2000	2.40

X24

34°00′N, 147°46′E

z(m)	T(°C)
0	20.02
10	20.02
20	19.66
30	19.42
50	19.19
75	18.16
100	17.82
150	17.43
200	17.27
300	16.93
400	16.10
500	13.93
600	11.39
700	9.11
800	6.12
900	5.26
1000	4.52
1100	4.16
1200	3.69
1300	3.46
1400	3.31
1500	3.11
1600	3.02
1700	2.89
1800	2.81
1900	2.73
2000	2.66

X25

34°00′N, 148°08′E

z(m)	T(°C)
0	19.64
10	19.65
20	19.50
30	19.31
50	18.96
75	17.89
100	17.71
150	17.39
200	17.22
300	17.00
400	16.31
500	14.35
600	12.65
700	10.33
800	7.87
900	6.01
1000	5.27
1100	4.56
1200	4.17
1300	3.90
1400	3.65
1500	3.47
1600	3.26
1700	3.06
1800	2.93
1900	2.82

X26

34°00′N, 148°30′E

z(m)	T(°C)
0	19.55
10	19.57
20	19.57
30	19.38
50	19.20
75	18.18
100	17.48
150	17.16
200	17.05
300	16.87
400	15.92
500	13.54
600	12.28
700	9.79
800	7.76
900	5.06
1000	4.87
1100	4.24
1200	3.93
1300	3.64
1400	3.42
1500	3.28
1600	3.13
1700	2.95
1800	2.82
1900	2.71
2000	2.61

X27

33°60′N, 148°53′E

z(m)	T(°C)
0	19.70
10	19.72
20	19.73
30	19.73
50	19.58
75	19.20
100	17.77
150	17.41
200	17.22
300	17.02
400	16.63
500	14.65
600	12.01
700	9.50
800	7.20
900	5.60
1000	4.90
1100	4.26
1200	3.92
1300	3.63
1400	3.39
1500	3.24
1600	3.08
1700	2.96
1800	2.83
1900	2.71

X28

33°60′N, 149°15′E

z(m)	T(°C)
0	20.06
10	20.09
20	20.13
30	20.06
50	19.45
75	17.95
100	17.60
150	17.31
200	17.17
300	16.97
400	15.72
500	13.64
600	11.39
700	8.37
800	6.63
900	5.11
1000	4.53
1100	4.22
1200	3.89
1300	3.72
1400	3.47
1500	3.30
1600	3.13
1700	3.00
1800	2.89
1900	2.81
2000	2.73

X29

34°00′N, 149°38′E

z(m)	T(°C)
0	20.13
10	20.14
20	20.09
30	20.02
50	19.87
75	18.50
100	17.85
150	17.39
200	17.18
300	16.91
400	15.67
500	13.10
600	10.36
700	8.20
800	6.07
900	4.77
1000	4.26
1100	3.70
1200	3.39
1300	3.16
1400	2.98
1500	2.76
1600	2.62
1700	2.49
1800	2.36
1900	2.25
2000	2.14

X30

33°60′N, 150°00′E

z(m)	T(°C)
0	20.03
10	20.06
20	20.03
30	19.94
50	19.95
75	19.30
100	18.33
150	17.61
200	17.30
300	17.01
400	15.34
500	12.77
600	10.15
700	7.59
800	5.29
900	4.92
1000	4.64
1100	3.93
1200	3.58
1300	3.22
1400	2.99
1500	2.78
1600	2.57
1700	2.41
1800	2.33
1900	2.27
2000	2.21

X31

34°00′N, 150°23′E

z(m)	T(°C)
0	20.52
10	20.55
20	20.48
30	20.41
50	19.67
75	18.24
100	17.80
150	17.39
200	17.13
300	16.29
400	13.87
500	11.01
600	7.87
700	5.79
800	4.86

X32

34°00′N, 150°46′E

z(m)	T(°C)
0	20.27
10	20.30
20	20.32
30	20.19
50	20.04
75	18.34
100	17.77
150	17.26
200	17.12
300	16.56
400	14.25
500	11.83
600	8.48
700	6.25
800	4.83
900	4.76
1000	4.31
1100	3.78
1200	3.46
1300	3.24
1400	3.01
1500	2.85
1600	2.84
1700	2.81
1800	2.75
1900	2.68
2000	2.67

X33

34°00′N, 151°08′E

z(m)	T(°C)
0	20.14
10	20.18
20	20.17
30	20.03
50	19.62
75	18.23
100	17.87
150	17.37
200	17.12
300	15.76
400	13.08
500	9.74
600	5.97
700	5.65
800	4.66

X34

34°00′N, 151°53′E

z(m)	T(°C)
0	20.13
10	20.16
20	20.16
30	20.03
50	19.68
75	18.96
100	18.44
150	17.84
200	17.06
300	14.53
400	12.12
500	7.57
600	5.82
700	4.66
800	3.95

X35

34°00′N, 152°38′E

z(m)	T(°C)
0	20.61
10	20.61
20	20.59
30	20.58
50	20.44
75	19.93
100	19.20
150	18.45
200	17.89
300	15.36
400	12.18
500	8.67
600	6.22
700	5.16
800	4.43

X36

34°00′N, 153°23′E

z(m)	T(°C)
0	20.56
10	20.56
20	20.48
30	20.41
50	20.14
75	19.81
100	19.13
150	18.37
200	17.76
300	16.32
400	13.97
500	11.17
600	8.55
700	5.93
800	4.95

X37

34°00′N, 154°08′E

z(m)	T(°C)
0	19.44
10	19.47
20	19.49
30	19.48
50	18.58
75	18.20
100	17.58
150	17.32
200	17.04
300	16.45
400	14.06
500	12.63
600	9.88
700	6.51
800	5.05

X38

34°00′N, 154°53′E

z(m)	T(°C)
0	19.55
10	19.55
20	19.44
30	19.41
50	19.25
75	18.93
100	18.17
150	17.73
200	16.93
300	14.99
400	12.65
500	10.31
600	7.86
700	5.31
800	4.55

X39

34°00′N, 155°37′E

z(m)	T(°C)
0	19.25
10	19.24
20	19.26
30	19.00
50	18.33
75	16.90
100	16.20
150	14.89
200	13.51
300	11.18
400	8.33
500	6.25
600	4.29
700	4.46
800	4.04

X40

33°40′N, 155°60′E

z(m)	T(°C)
0	18.37
10	18.36
20	16.83
30	16.01
50	14.81
75	13.71
100	13.44
150	12.98
200	12.06
300	9.00
400	7.24
500	5.31
600	4.55
700	3.94
800	3.48

X41

33°00′N, 156°00′E

z(m)	T(°C)
0	18.92
10	18.92
20	18.04
30	17.30
50	16.49
75	14.77
100	13.94
150	12.86
200	12.06
300	9.41
400	7.11
500	5.11
600	4.55
700	4.12
800	3.71

X42

32°20′N, 156°00′E

z(m)	T(°C)
0	19.35
10	19.37
20	19.40
30	19.12
50	18.63
75	17.20
100	15.06
150	14.05
200	13.61
300	12.77
400	11.29
500	8.14
600	5.98
700	5.03
800	4.28

X43

31°40′N, 156°00′E

z(m)	T(°C)
0	21.65
10	21.08
20	19.20
30	19.07
50	17.83
75	17.58
100	17.33
150	17.22
200	17.17
300	16.95
400	15.17
500	12.38
600	9.21
700	6.34
800	5.01

X44

31°00′N, 156°00′E

z(m)	T(°C)
0	22.81
10	22.72
20	22.68
30	22.41
50	20.86
75	19.75
100	18.75
150	17.68
200	17.31
300	16.98
400	15.44
500	12.69
600	10.12
700	7.18
800	5.22

X45

30°20′N, 156°00′E

z(m)	T(°C)
0	22.54
10	22.15
20	20.60
30	20.23
50	18.96
75	18.02
100	17.67
150	17.20
200	17.09
300	16.89
400	15.73
500	13.43
600	10.24
700	7.48
800	5.40

X46

29°60′N, 155°30′E

z(m)	T(°C)
0	22.94
10	22.95
20	21.17
30	19.97
50	18.71
75	17.83
100	17.39
150	17.14
200	16.98
300	16.45
400	14.46
500	12.12
600	9.49
700	6.25
800	4.87

X47

29°60′N, 154°30′E

z(m)	T(°C)
0	23.71
10	23.73
20	23.53
30	20.86
50	19.46
75	18.35
100	17.85
150	17.34
200	16.91
300	16.03
400	14.39
500	11.89
600	8.88
700	6.09
800	4.73

X48

30°00′N, 153°30′E

z(m)	T(°C)
0	24.64
10	24.57
20	24.01
30	23.60
50	21.07
75	20.28
100	18.96
150	17.70
200	17.17
300	16.62
400	14.33
500	11.87
600	9.13
700	6.47
800	5.19

X49

30°00′N, 152°30′E

z(m)	T(°C)
0	24.80
10	24.82
20	24.57
30	23.83
50	22.28
75	20.57
100	19.62
150	18.13
200	17.32
300	16.53
400	14.09
500	11.58
600	8.48
700	6.17
800	4.81

X50

30°00′N, 151°30′E

z(m)	T(°C)
0	24.25
10	24.28
20	24.00
30	21.61
50	20.52
75	19.00
100	18.14
150	17.48
200	17.12
300	16.74
400	14.48
500	11.81
600	8.74
700	5.85
800	4.68

X51

30°00′N, 150°30′E

z(m)	T(°C)
0	23.49
10	23.46
20	22.57
30	21.50
50	20.53
75	18.94
100	18.14
150	17.48
200	17.22
300	16.89
400	15.04
500	12.43
600	9.31
700	6.32
800	5.11

X52

30°00′N, 149°30′E

z(m)	T(°C)
0	24.58
10	24.52
20	22.88
30	21.20
50	20.35
75	18.90
100	18.24
150	17.65
200	17.37
300	17.07
400	16.70
500	13.69
600	10.52
700	7.39
800	5.22
900	898

X53

29°60′N, 148°30′E

z(m)	T(°C)
0	23.32
10	23.31
20	21.80
30	20.82
50	19.50
75	17.90
100	17.39
150	17.06
200	16.95
300	15.63
400	13.61
500	11.34
600	8.80
700	6.60
800	5.49

X54

30°00′N, 147°30′E

z(m)	T(°C)
0	23.01
10	23.02
20	22.75
30	22.15
50	20.05
75	18.49
100	17.90
150	17.44
200	17.22
300	17.06
400	15.27
500	12.22
600	9.45
700	6.44
800	4.97

X55

29°60′N, 146°30′E

z(m)	T(°C)
0	22.00
10	21.72
20	20.89
30	20.68
50	19.31
75	18.69
100	18.24
150	17.91
200	17.55
300	16.35
400	13.66
500	10.85
600	7.92
700	5.43
800	4.69

X56

30°00′N, 145°30′E

z(m)	T(°C)
0	21.87
10	21.90
20	21.26
30	20.97
50	19.92
75	19.16
100	18.53
150	18.05
200	17.46
300	16.41
400	14.01
500	10.79
600	8.23
700	5.58
800	4.70

X57

29°60′N, 144°30′E

z(m)	T(°C)
0	22.05
10	22.05
20	21.71
30	20.75
50	20.00
75	19.43
100	18.78
150	17.75
200	17.34
300	16.97
400	14.86
500	12.11
600	9.47
700	6.28
800	4.91

X58

30°30′N, 140°30′E

z(m)	T(°C)
0	22.79
10	22.84
20	22.86
30	21.97
50	20.47
75	19.15
100	18.43
150	17.56
200	16.97
300	15.54
400	13.59
500	11.41
600	9.71
700	6.28
800	5.15

X59

31°30′N, 140°30′E

z(m)	T(°C)
0	23.96
10	23.98
20	23.99
30	23.97
50	23.82
75	22.42
100	20.80
150	19.23
200	18.19
300	16.94
400	14.81
500	12.25
600	9.25
700	6.59
800	5.87

X60

32°30′N, 140°30′E

z(m)	T(°C)
0	23.75
10	23.78
20	23.79
30	23.74
50	22.21
75	21.26
100	19.68
150	18.34
200	16.62
300	13.79
400	11.08
500	7.93
600	6.30
700	4.79
800	4.17

X61

33°30′N, 140°30′E

z(m)	T(°C)
0	22.86
10	22.88
20	22.86
30	21.59
50	20.20
75	19.08
100	17.60
150	15.20
200	14.87
300	12.17
400	8.79
500	5.57
600	4.75
700	3.75
800	3.46

X62

34°10′N, 140°21′E

z(m)	T(°C)
0	21.52
10	21.54
20	21.15
30	19.38
50	18.28
75	16.69
100	15.95
150	14.39
200	12.38
300	8.85
400	6.82
500	5.40
600	4.67
700	3.89
800	3.36

X63

34°20′N, 140°13′E

z(m)	T(°C)
0	19.86
10	19.87
20	19.87
30	19.89
50	18.06
75	16.35
100	14.96
150	13.47
200	11.35
300	7.93
400	6.09
500	5.56
600	4.48
700	3.77
800	3.46

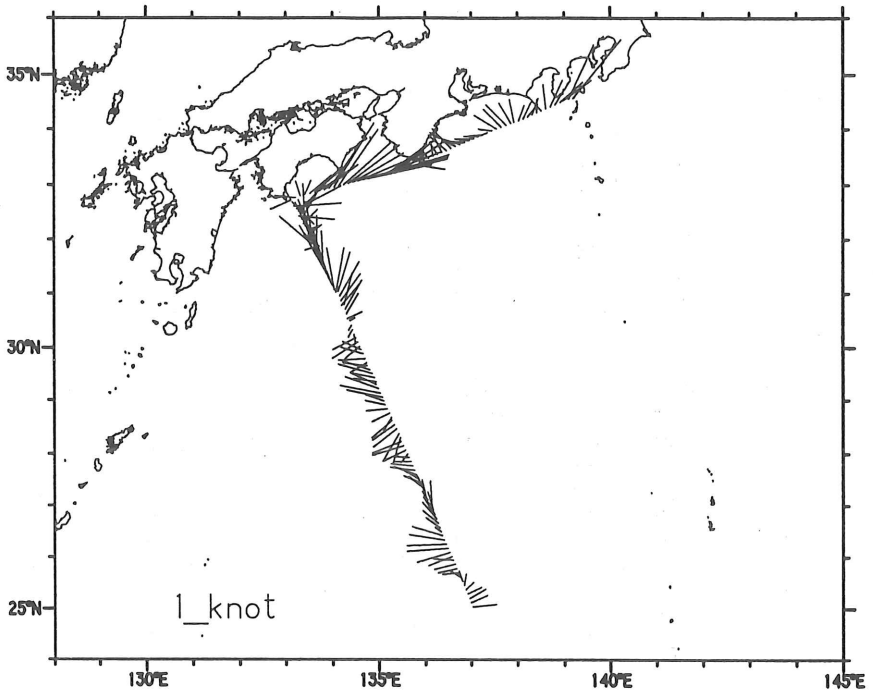
X64

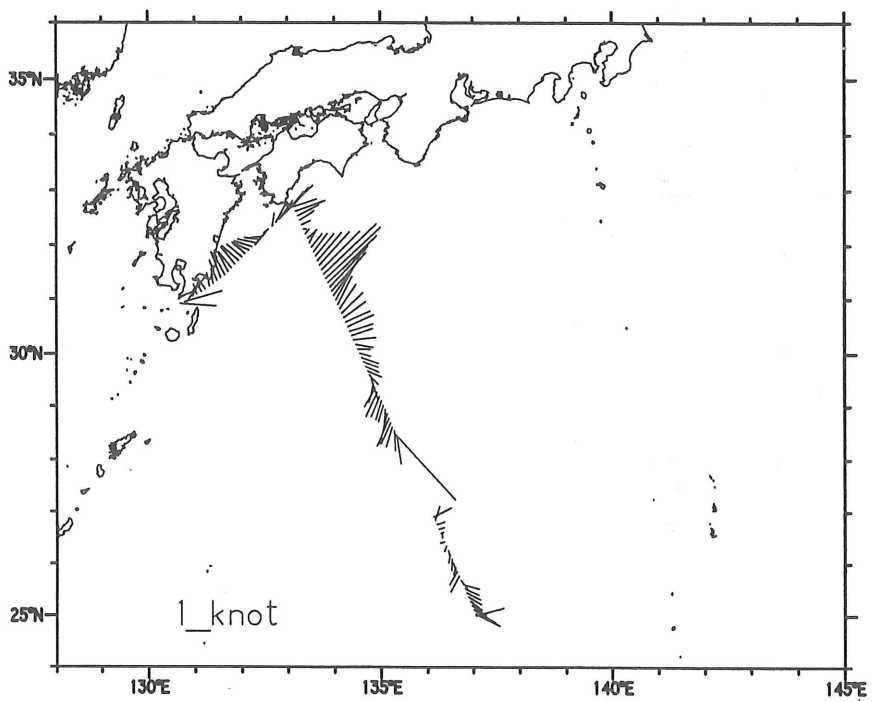
34°30′N, 140°04′E

z(m)	T(°C)
0	19.46
10	19.49
20	19.21
30	17.50
50	16.37
75	15.28
100	14.09
150	11.92
200	9.89
300	7.68
400	6.25
500	5.29
600	4.62
700	3.71
800	3.47

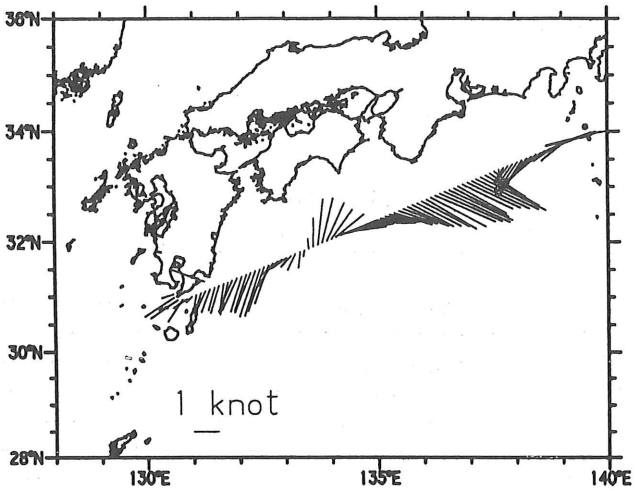
11. Charts of Surface Currents

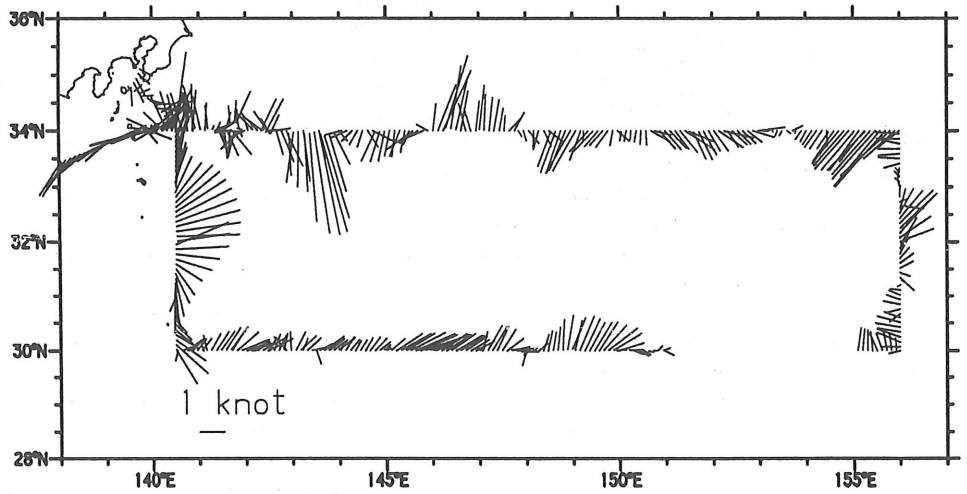
Leg–1: ADCP velocity at 50 m depth



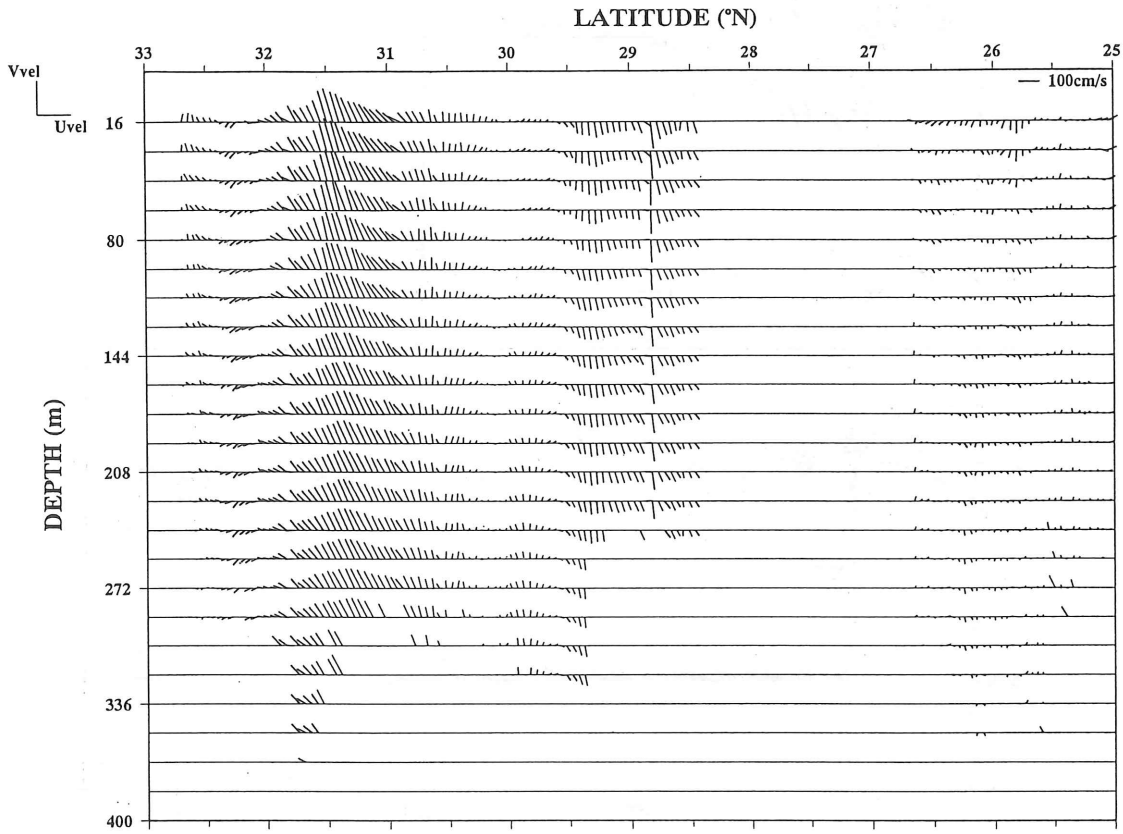


Leg–2: ADCP velocity at 50 m depth

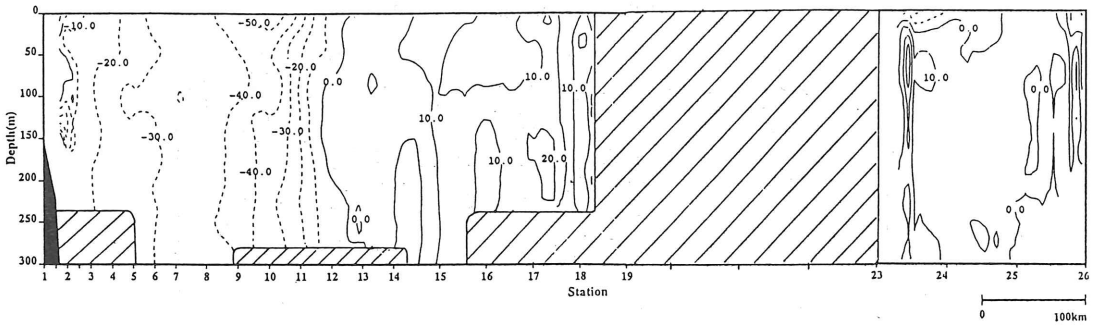




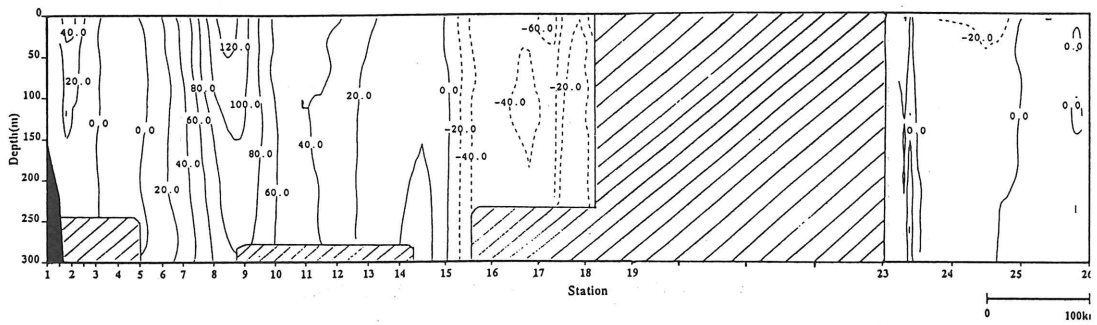
Results of towed ADCP



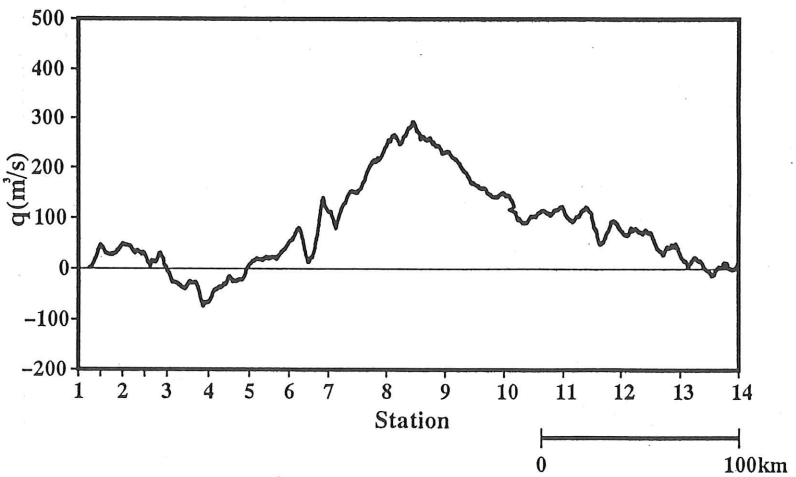
Stick diagram of current velocity at depths measured by towed ADCP. U_{vel} and V_{vel} are the velocity components parallel and perpendicular to the ASUKA line, respectively.



Vertical distribution of the velocity component parallel to the ASUKA line (cm s^{-1}). Positive means a rightward flow facing the ASUKA section from the upstream side of the Kuroshio.

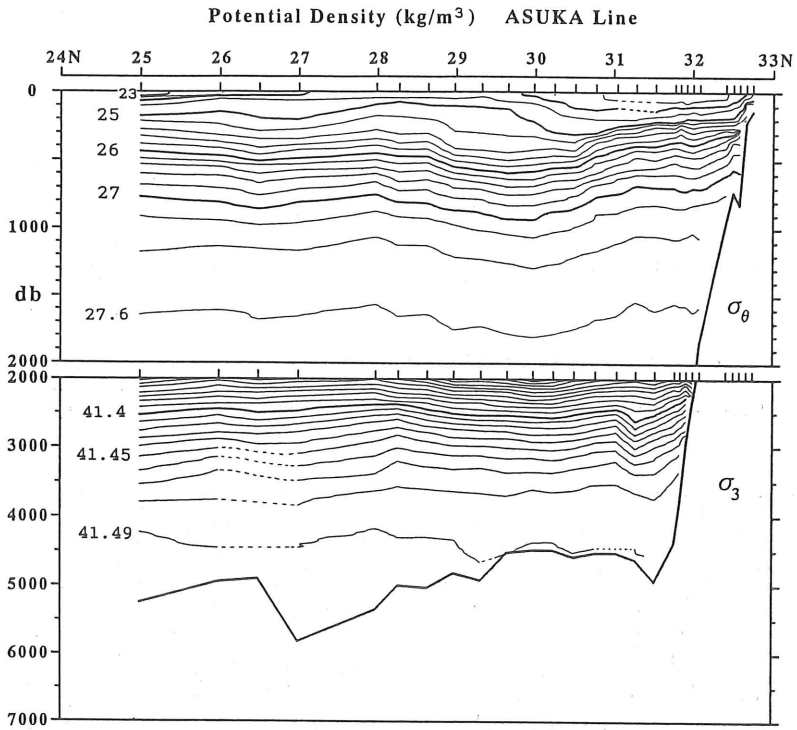


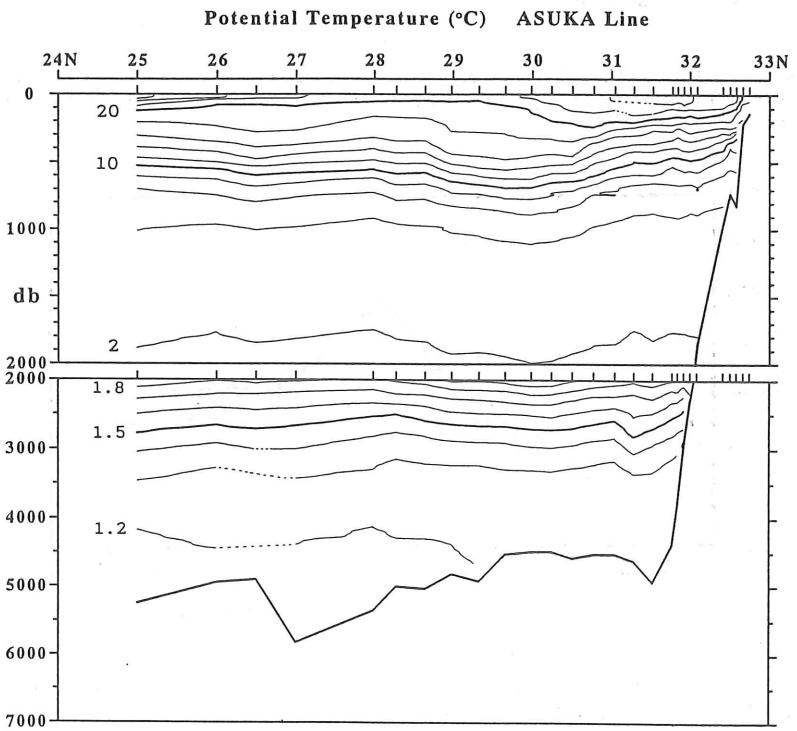
Vertical distribution of the velocity component perpendicular to the ASUKA line (cm s^{-1}). Positive means the same direction as the Kuroshio.



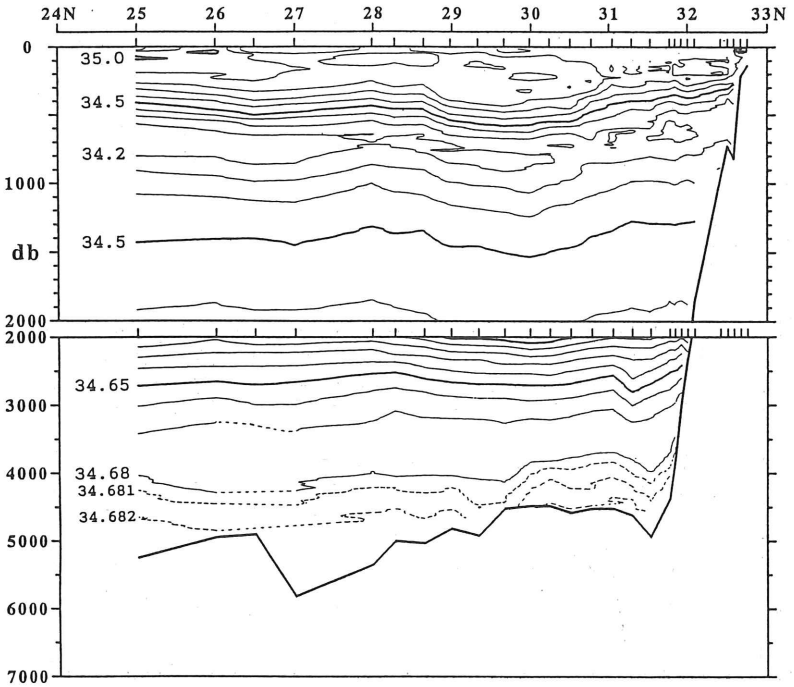
Horizontal profile of volume transport in a unit width through the ASUKA section (Sta. AS01-AS14).

12. Vertical Sections of $CTDO_2$ Data

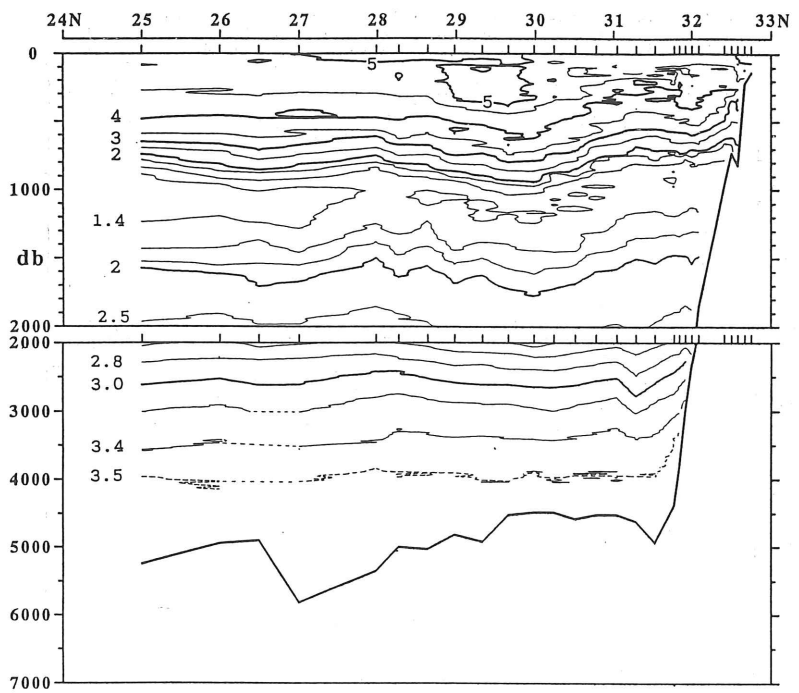




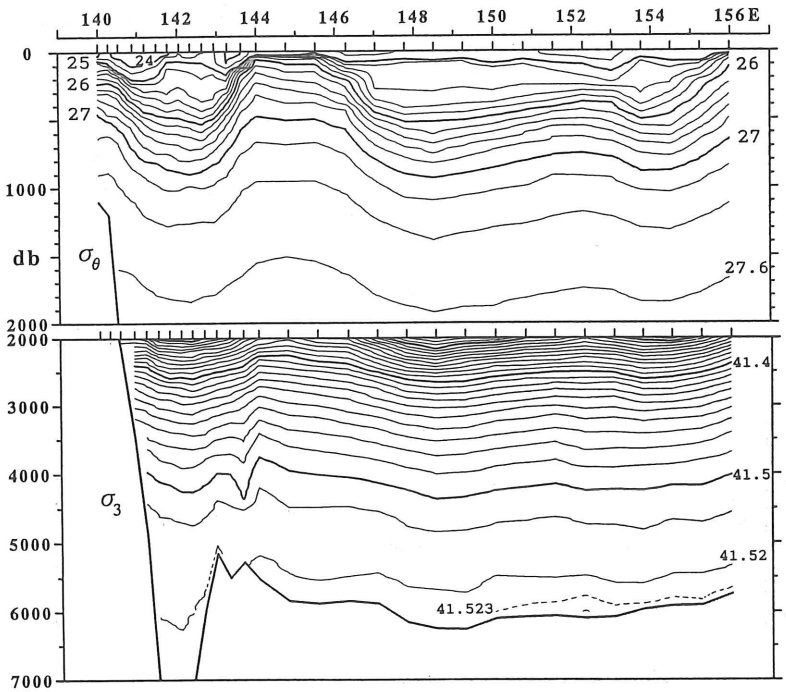
Salinity (psu) ASUKA Line



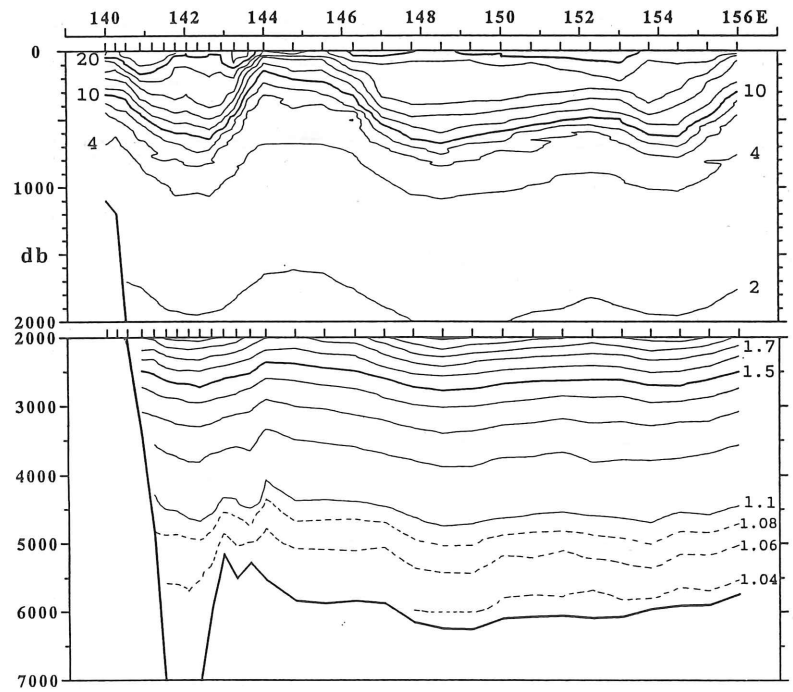
Dissolved Oxygen (ml/l) ASUKA Line



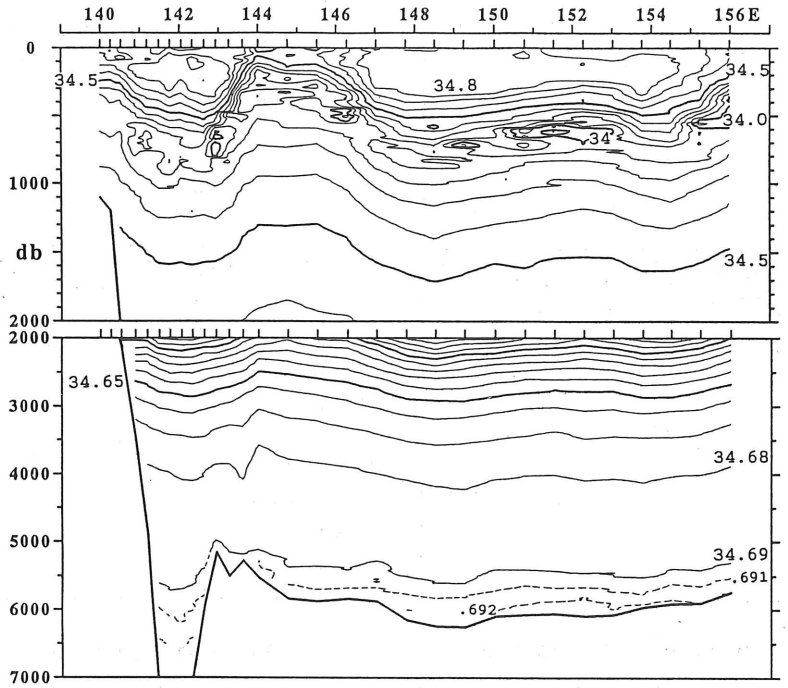
Potential Density (kg/m^3) 34N Line



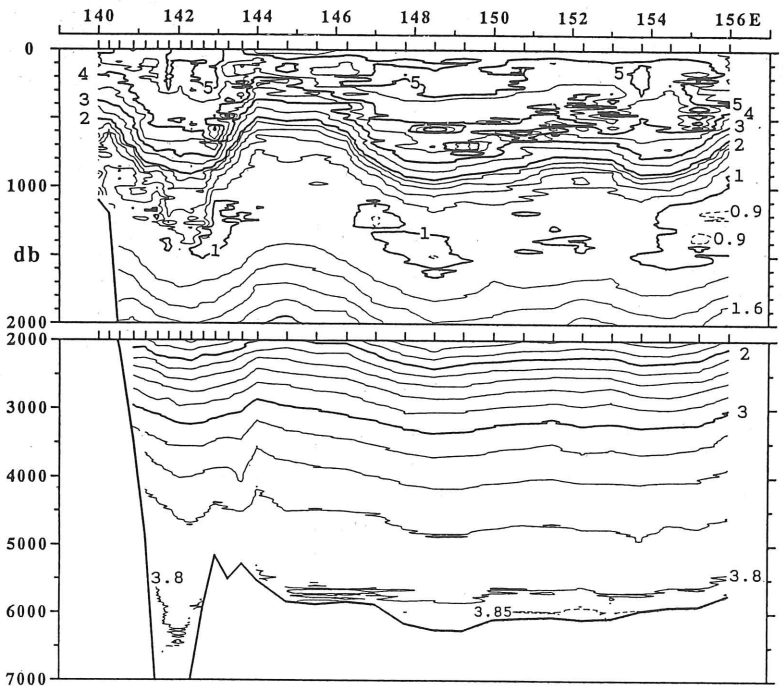
Potential Temperature (°C) 34N Line



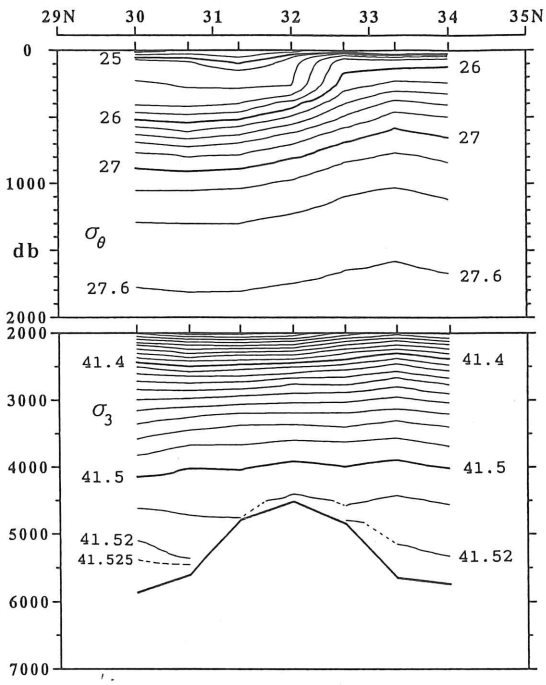
Salinity (psu) 34N Line



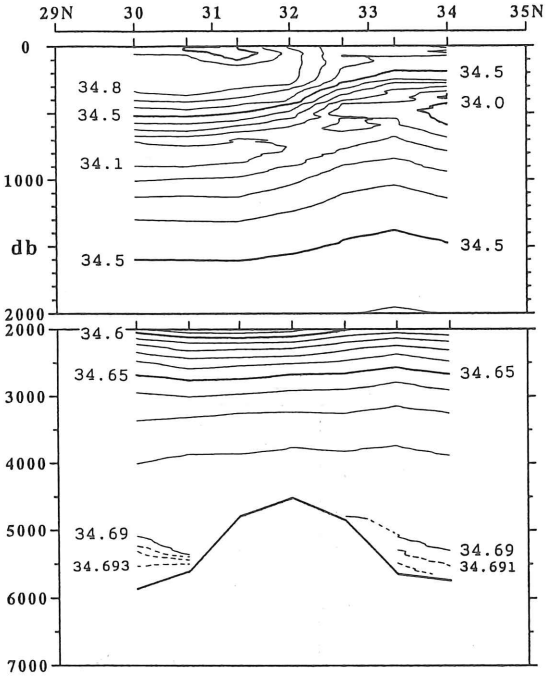
Dissolved Oxygen (ml/l) 34N Line



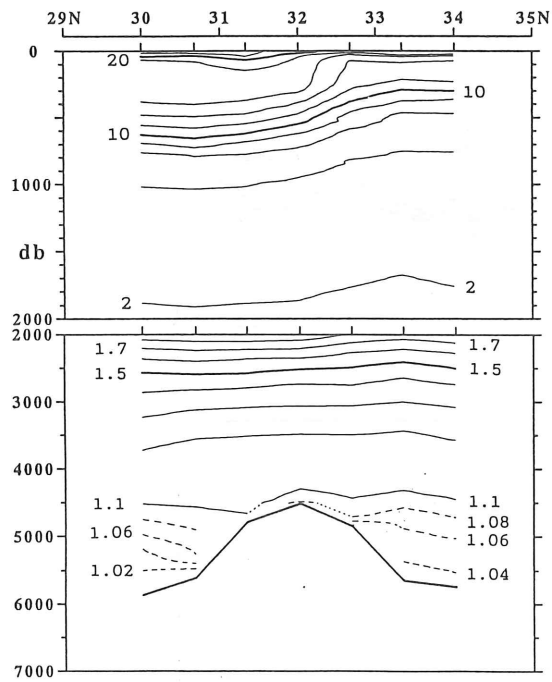
Potential Density (kg/m^3) 156E Line



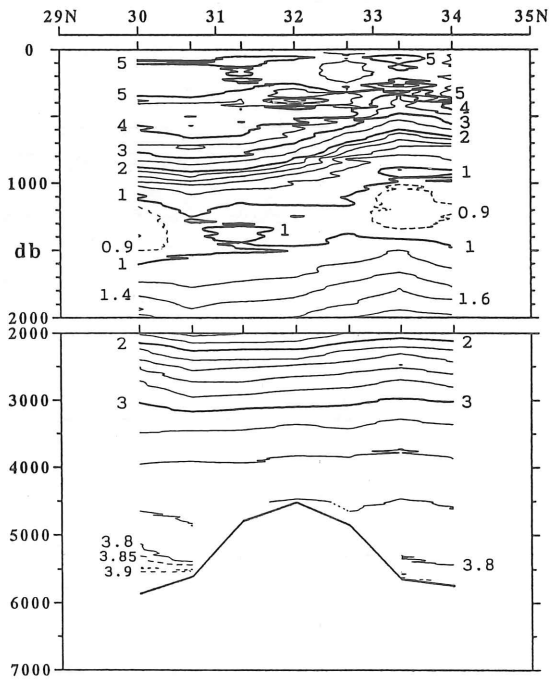
Salinity (psu) 156E Line



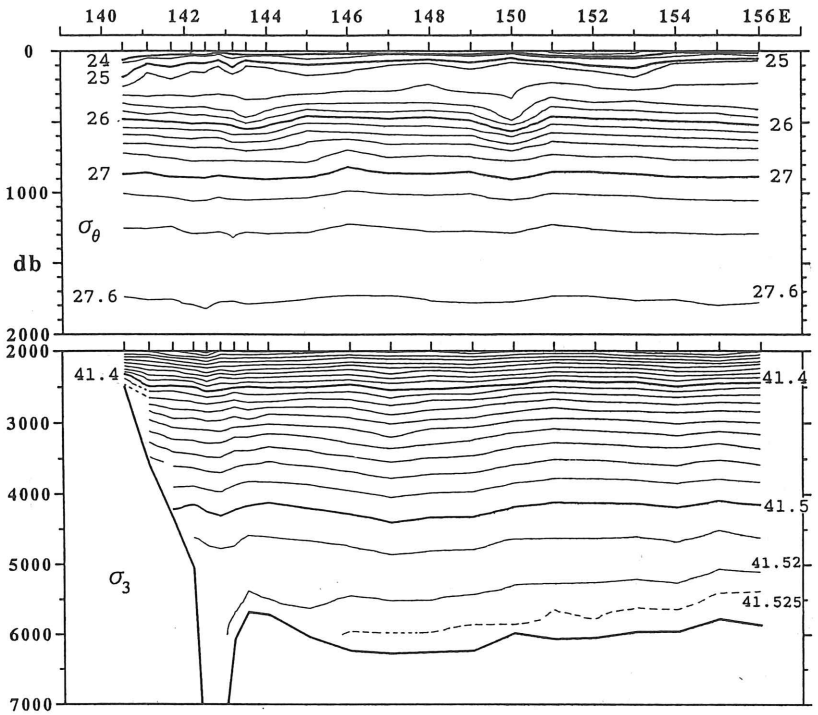
Potential Temperature (°C) 156E Line



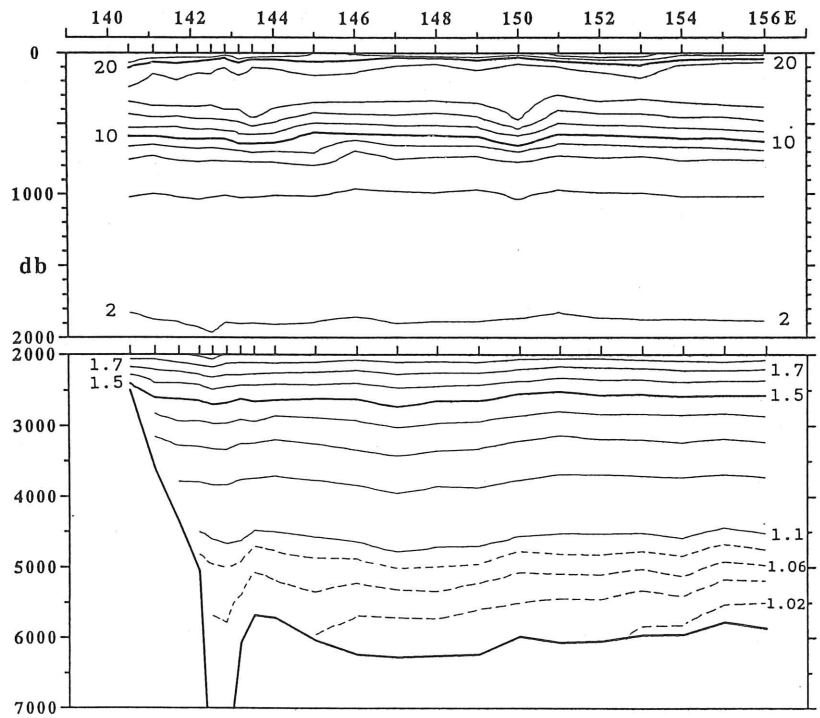
Dissolved Oxygen (ml/l) 156E Line



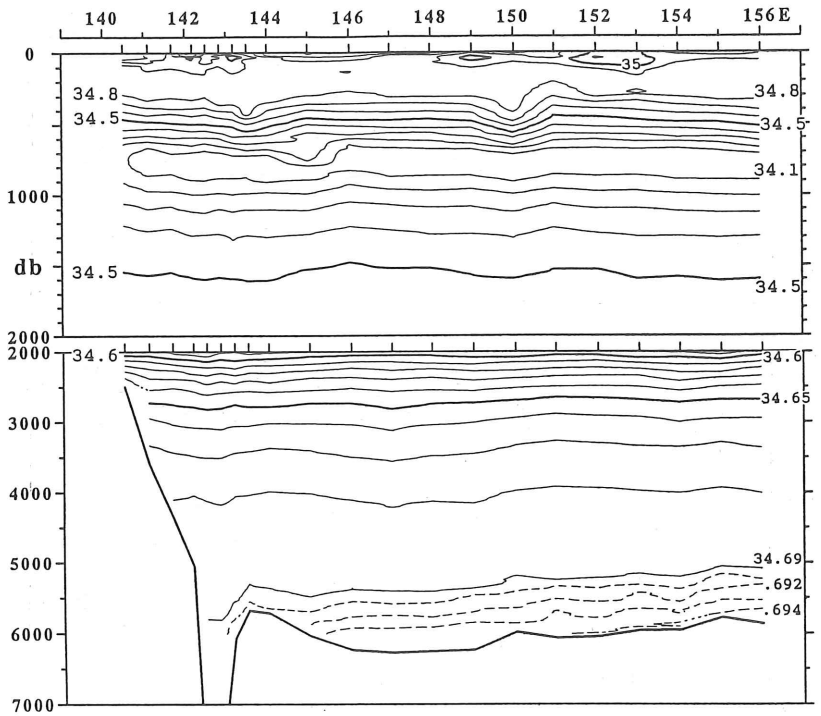
Potential Density (kg/m^3) 30N Line



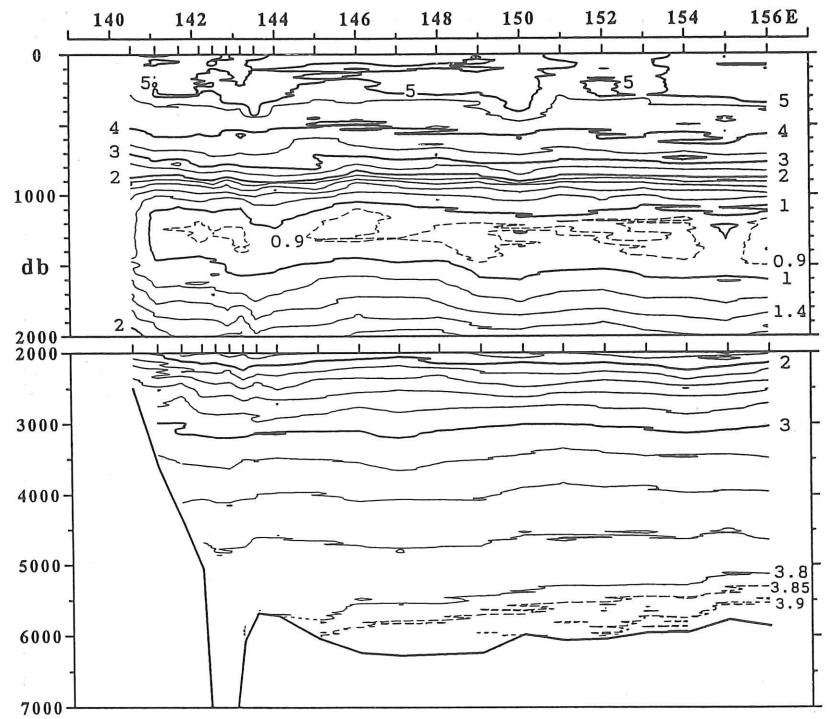
Potential Temperature (°C) 30N Line



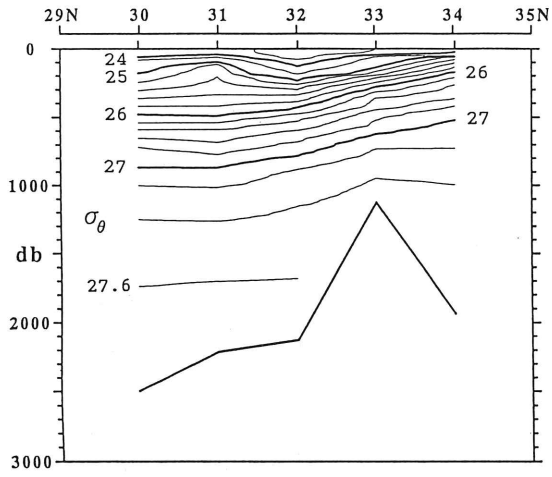
Salinity (psu) 30N Line



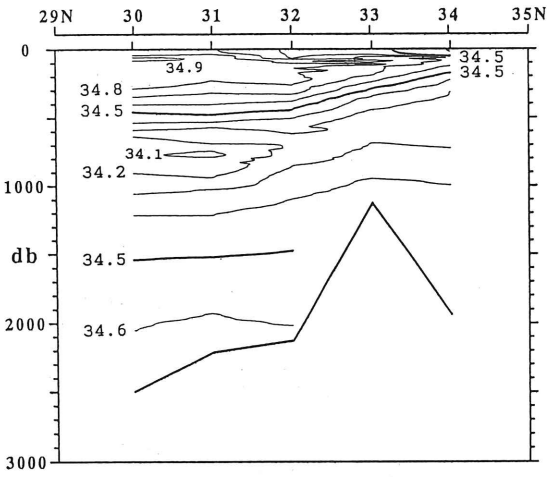
Dissolved Oxygen (ml/l) 30N Line



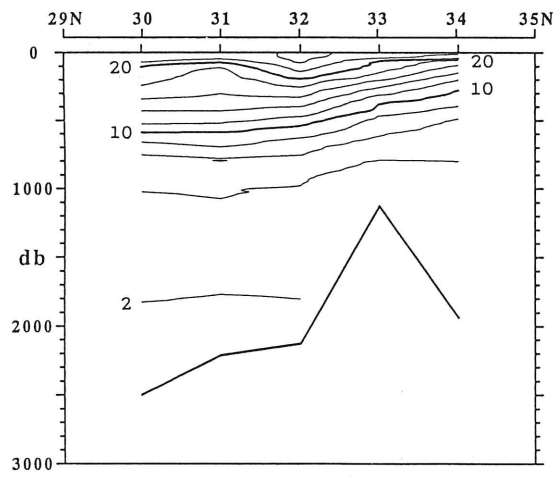
Potential Density (kg/m^3) 140.5E Line



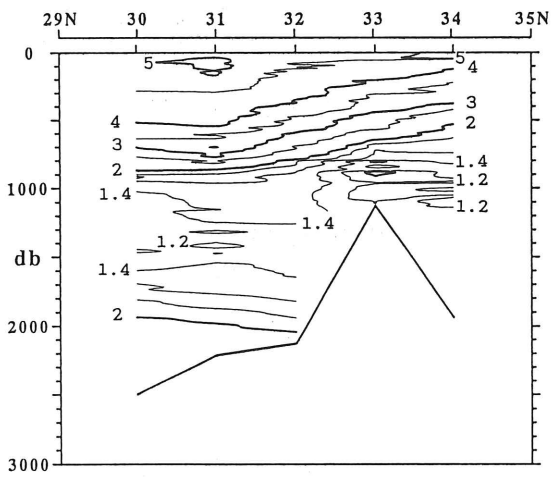
Salinity (psu) 140.5E Line



Potential Temperature (°C) 140.5E Line

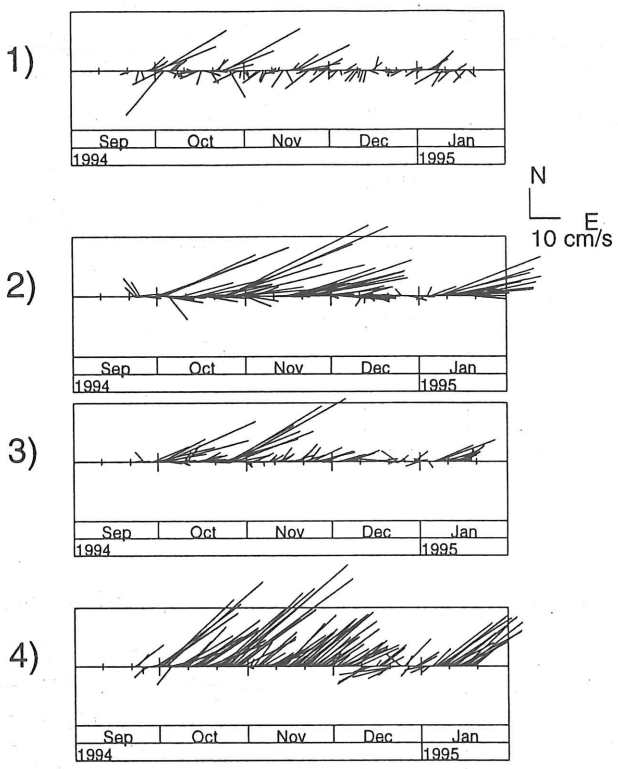


Dissolved Oxygen (ml/l) 140.5E Line



13. Results of Moored Current Meters

Izu Ridge



S1 (34-06.2N,139-52.6E)
Mooring depth 1135m
Water depth 1157m

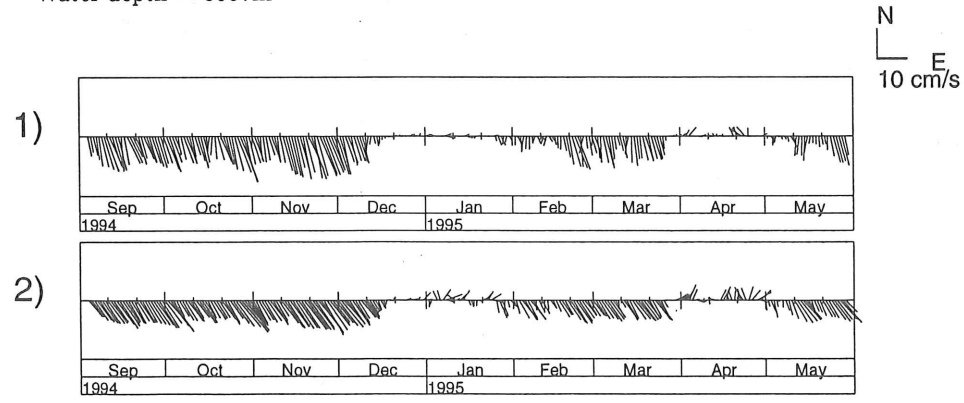
S2 (34-04.7N,139-58.6E)
Mooring depth 1210m
Water depth 1232m

S3 (34-00.0N,140-00.0E)
Mooring depth 1109m
Water depth 1131m

S4 (34-01.4N,139-54.4E)
Mooring depth 1189m
Water depth 1211m

Japan Trench

TR1 (33-58.1N, 141-20.4E)
Water depth = 5557m



1) Mooring depth = 5130m 2) Mooring depth = 5530m