

海洋調査要報
第 10 号
(水温 塩分編)

DATA RECORD OF OCEANOGRAPHIC OBSERVATIONS
No.10
APRIL 1994 - MARCH 1995

北海道立水産試験場
平成 16 年 3 月
HOKKAIDO FISHERIES EXPERIMENTAL STATION
March 2004

はじめに

北海道立水産試験場による海洋観測結果の生データの印刷公表は昭和 9 年以降途絶えていましたが、昭和 39 年度より漁海況予報事業が発足してからは、その関係分は結果報告書に載るようになりました。その後、昭和 51 年度から中央水産試験場では石狩湾海域生態調査報告書に石狩湾付近の海洋観測結果を掲載するようになり、釧路水産試験場では昭和 52 年度から、稚内水産試験場では昭和 58 年度からそれぞれの事業報告書に当該年の全データを掲載公表してきました。このようにいくつかの報告書に掲載されていたデータについて、昭和 60 年度からは利用の便を図るために、5 水産試験場及び 1 支場の海洋観測結果をまとめて「海洋調査要報」として印刷公表し、各方面的参考に供することになりました。また、今回の平成 6 年度版（1994 年度）の各層水温・塩分データについては、電子ファイルによる配布を準備しています。ホームページをご覧頂くかまたは E-mail にてお問い合わせください。

URL <http://www.fishexp.pref.hokkaido.jp/exp/central/kaiyou/index.htm> E-mail: ckaiyou@fishexp.pref.hokkaido.jp

本要報は平成 6 年度の各水産試験場における観測結果をまとめたものです。掲載した海洋観測結果を引用する場合には本要報によった旨を明記することをお願いいたします。また、データの品質管理には、(財)日本水路協会 海洋情報研究センターの海洋観測データ品質管理ソフト (POD-QC) を利用しました。

It is requested that due credit be given if data from this "DATA RECORD" are quoted, or if information taken herefrom is incorporated in other papers.

平成 16 年 3 月 March 2004

なお、この pdf 版では、印刷配布した調査要報と若干レイアウトが異なっております。

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Table 1. Summary of oceanographic observations conducted by Hokkaido Fisheries Experimental Station from April 1994 to March 1995.

Period	Area code	Station	Num. of OBS	Research staff on board	Equipment	Pages
Oyashio-Maru Hokkaido Central Fisheries Experimental Station						
1994/4/11 - 1994/4/12	WHJS	199404J31 - 199404J39	9	K.Hirano A.Nakata	SBE 9/11 726/1054	Table 3-1
1994/4/19 - 1994/4/21	NHJS	199404J27 - 199404J11	24	H.Yagi	SBE 9/11 726/1054	Table 3-1
1994/4/22 - 1994/4/23	NHSO	199404OS04 - 199404OA12	22	M.Mitsuhashi S.Yokoyama	SBE 9/11 726/1054	Table 3-4
1994/5/10 - 1994/5/11	IBJS	199405CIS109 - 199405CIS108	24	Y.Watanabe A.Fujioka	SBE 9/11 726/1054	Table 3-6
1994/5/18 - 1994/5/19	WHJS	199405CE01 - 199405CE05	5	K.Maeda	SBE 9/11 726/1054	Table 3-8
1994/5/23 - 1994/5/24	WHJS	199405CM118 - 199405CM131	33	H.Sasaki	SBE 9/11 726/1054	Table 3-9
1994/5/30 - 1994/6/2	WHJS	199406J31 - 199406J51	39	H.Yagi A.Nakata	SBE 9/11 726/1054	Table 3-12
1994/6/8 - 1994/6/14	WHJS	199406CSR01 - 199406CSR22	20	J.Nakata	SBE 9/11 726/1054	Table 3-16
1994/6/21 - 1994/6/21	WHJS	199406CT101 - 199406CT125	25	H.Yoshida	SBE 9/11 726/1054	Table 3-18
1994/6/27 - 1994/6/28	WHJS	199406JS41 - 199406JS47	7	M.Furumaki	SBE 9/11 726/1054	Table 3-21
1994/7/4 - 1994/7/5	IBJS	199407CIS301 - 199407CIS304	24	A.Fujioka	SBE 9/11 726/1054	Table 3-21
1994/7/11 - 1994/7/19	WHJS	199407CIM101 - 199407CIM116	11	J.Nakata	SBE 9/11 726/1054	Table 3-24
1994/7/26 - 1994/7/26	IBJS	199407CIS01 - 199407CIS03	3	M.Koike	SBE 9/11 726/1054	Table 3-25
1994/8/1 - 1994/8/4	WHJS	199408J31 - 199408JC11	32	I.Tanaka K.Hirano	SBE 9/11 726/1054	Table 3-25
1994/8/29 - 1994/8/31	IBJS	199408CE03 - 199408CE08	4	K.Maeda	SBE 9/11 726/1054	Table 3-28
1994/9/5 - 1994/9/6	WHJS	199409CT102 - 199409CT122	25	H.Sasaki T.Tamate	SBE 9/11 726/1054	Table 3-29
1994/9/21 - 1994/9/27	WHJS	199409CS15 - 199409CS16	6	M.Furumaki	SBE 9/11 726/1054	Table 3-31
1994/10/3 - 1994/10/5	WHJS	199410J31 - 199410JC11	19	T.Ootsuki A.Nakata	SBE 9/11 726/1054	Table 3-32
1994/10/11 - 1994/10/19	WHJS	199410CW011 - 199410CW10	26	H.Yoshida T.Tamate	SBE 9/11 726/1054	Table 3-34
1994/10/25 - 1994/10/27	WHJS	199410CSM01 - 199410CSM12	12	J.Nakata	SBE 9/11 726/1054	Table 3-36
1994/11/1 - 1994/11/1	WHJS	199411J42 - 199411J41	2	M.Furumaki	SBE 9/11 726/1054	Table 3-38
1994/11/9 - 1994/11/9	IBJS	199411CE01 -	1	J.Nakata	SBE 9/11 726/1054	Table 3-38
1994/11/15 - 1994/11/17	WHJS	199411CW01 - 199411CW28	37	H.Yoshida	SBE 9/11 726/1054	Table 3-38
1994/12/7 - 1994/12/11	WHJS	199412J31 - 199412J51	25	T.Watanabe A.Nakata	SBE 9/11 726/1054	Table 3-42
1995/2/3 - 1995/2/6	WHJS	199502J63 - 199502J31	29	I.Tanaka K.Hirano	SBE 9/11 726/1054	Table 3-44
1995/2/27 - 1995/3/1	IBJS	199502CE01 - 199502CE04	4	K.Maeda	SBE 9/11 726/1054	Table 3-47
1995/3/6 - 1995/3/7	IBJS	199503SR1E - 199503SR0E	16	A.Fujioka	SBE 9/11 726/1054	Table 3-47
1995/3/14 - 1995/3/14	WHJS	199503J47 - 199503J41	7	H.Yagi A.Nakata	SBE 9/11 726/1054	Table 3-49
Kinsei-Maru Hokkaido Hakodate Fisheries Experimental Station						
1994/4/14 - 1994/4/15	SHFB	199404P64 - 199404P65	12	M.Natsume K.Kanomata	Niel Brown Mark III	Table 4-1
1994/4/19 - 1994/4/20	SHFB	199404HKD10 - 199404HKD23	14	H.Shimada	Niel Brown Mark III	Table 4-2
1994/5/10 - 1994/5/11	SHFB	199405HKG15 - 199405HKG05	33	T.Yorita	Niel Brown Mark III	Table 4-3

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Table 1. Summary of oceanographic observations conducted by Hokkaido Fisheries Experimental Station from April 1994 to March 1995.

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1994/5/23 -	1994/5/25	SHFB	199406P64 -	199406HTP21	35	H.Shimada	Niel Brown Mark III Table 4-6
1994/5/31 -	1994/5/31	SHFB	199406HKG11 -	199406HKG30	20	T.Yorita	Niel Brown Mark III Table 4-10
1994/6/6 -	1994/6/7	SHFB	199406HKG11 -	199406HKG29	19	T.Yorita	Niel Brown Mark III Table 4-12
1994/6/9 -	1994/6/16	SHFB	199406HSR11 -	199406HSR27	17	I.Kanomata	Niel Brown Mark III Table 4-14
1994/6/28 -	1994/6/29	SHFB	199406HKD11 -	199406HKD37	27	H.Shimada	Niel Brown Mark III Table 4-16
1994/7/11 -	1994/7/14	SHFB	199407HSR11 -	199407HSR25	15	M.Natsume	Niel Brown Mark III Table 4-18
1994/7/18 -	1994/7/20	TGJS	199407HSR26 -	199407HSR27	2	M.Natsume	Niel Brown Mark III Table 4-20
1994/7/26 -	1994/7/28	SHFB	199408P64 -	199407HKD29	31	I.Kanomata H.Shimada	Niel Brown Mark III Table 4-20
1994/8/1 -	1994/8/1	TG	199408HSR01 -	199408HSR01	1	M.Natsume	Niel Brown Mark III Table 4-23
1994/8/23 -	1994/8/24	SHFB	199408HKG020 -	199408HKG034	34	Y.Nishida	SBE 9/11 Table 4-23
1994/8/29 -	1994/9/1	SHFB	199408HSR001 -	199408HSR015	16	I.Kanomata	SBE 9/11 Table 4-27
1994/10/6 -	1994/10/6	SHFB	199410P66 -	199410P61	6	I.Kanomata	SBE 9/11 Table 4-28
1994/10/17 -	1994/10/17	TG	199410HSR001 -	199410HSR001	1	I.Kanomata	SBE 9/11 Table 4-29
1994/10/24 -	1994/10/26	SHFB	199410HW001 -	199410HW012	12	M.Natsume	SBE 9/11 Table 4-29
1994/11/15 -	1994/11/17	TG	199411HSR001 -	199411HSR002	2	I.Kanomata	SBE 9/11 Table 4-30
1994/11/29 -	1994/11/29	SHFB	199412P64 -	199412P66	3	I.Kanomata E.Mihara	SBE 9/11 Table 4-30
1994/12/7 -	1994/12/8	SHFB	199412P56 -	199412P63	8	I.Kanomata	SBE 9/11 Table 4-31
1995/2/23 -	1995/2/23	SHFB	199502P66 -	199502P61	6	I.Kanomata	SBE 9/11 Table 4-31
1995/3/14 -	1995/3/15	TG	199503HAD17 -	199503HAD87	21	I.Kanomata	SBE 9/11 Table 4-32
 Hokushin-Maru Hokkaido Kushiro Fisheries Experimental Station							
1994/4/12 -	1994/4/20	SHNP	199404PK11 -	199404PKA11	65	K.Kuratome	Niel Brown Mark III Table 5-1
1994/5/10 -	1994/5/13	SHNP	199405P31 -	199405PK11	34	A.Taka	Niel Brown Mark III Table 5-7
1994/5/20 -	1994/5/25	SHNP	199405SU27 -	199405SU07	16	K.Kuratome	Niel Brown Mark III Table 5-10
1994/5/30 -	1994/6/5	SHNP	199406P31 -	199406PKA10	61	Y.Nakame	Niel Brown Mark III Table 5-12
1994/6/14 -	1994/6/23	SHOS	199406IK01 -	199406IK22	22	A.Taka	MSTD Table 5-18
1994/6/28 -	1994/7/7	SHNP	199406IW01 -	199406IW26	28	Y.Nakame	Niel Brown Mark III Table 5-20
1994/7/15 -	1994/7/25	SKNP	199407SM14 -	199407SM21	19	T.Honma	Niel Brown Mark III Table 5-23
1994/8/1 -	1994/8/5	SHNP	199408P31 -	199408PK21	39	A.Taka M.Kotori	Niel Brown Mark III Table 5-25
1994/8/23 -	1994/8/31	SHNP	199408IW01 -	199408IW17	17	Y.Nakame	Niel Brown Mark III Table 5-29
1994/9/5 -	1994/9/21	SHNP	199409IK01 -	199409IK10	6	A.Taka	Niel Brown Mark III Table 5-31
1994/9/27 -	1994/9/28	SHNP	199409SM01 -	199409SM03	3	K.Kuratome	Niel Brown Mark III Table 5-31
1994/10/2 -	1994/10/5	SHNP	199410P31 -	199410P36	36	K.Kuratome	Niel Brown Mark III Table 5-32
1994/10/11 -	1994/10/20	NSSO	199410IK06 -	199410IK04	8	A.Taka	Niel Brown Mark III Table 5-35

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Table 1. Summary of oceanographic observations conducted by Hokkaido Fisheries Experimental Station from April 1994 to March 1995.

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1994/10/25 -	1994/10/30	SHOS	199410SM01 -	199410SM10	10	Y.Nakame	Niel Brown	Mark III	Table 5-36
1994/12/6 -	1994/12/13	SHNP	199412P22 -	199412PK21	38	Y.Nakame	Niel Brown	Mark III	Table 5-37
1995/2/13 -	1995/2/16	SHNP	199502P31 -	199502PK21	38	A.Taka	Niel Brown	Mark III	Table 5-41
Hokuyo-Maru Hokkaido Wakkanai Fisheries Experimental Station									
1994/4/16 -	1994/4/21	WHJS	199404WJR001 -	199404WJR028	28	M.Mizuno T.Suzuuchi	MSTD		Table 6-1
1994/5/23 -	1994/5/26	SWSO	199405WEB001 -	199405WEB009	9	H.Miyake	MSTD		Table 6-3
1994/5/30 -	1994/6/1	NHJS	199405J11 -	199406JW14	24	T.Suzuuchi	MSTD		Table 6-4
1994/6/6 -	1994/6/8	SWSO	199406S4 -	199406O34	45	N.Tanaka	MSTD		Table 6-6
1994/6/27 -	1994/6/30	NHJS	199406WEB001 -	199406WEB007	7	N.Tanaka M.Mitsuhashi	MSTD		Table 6-11
1994/7/6 -	1994/7/13	NHJS	199406WEB001 -	199407WEB014	14	N.Tanaka M.Mitsuhashi	MSTD		Table 6-11
1994/7/25 -	1994/7/27	SWSO	199407WSU001 -	199407WSU007	7	K.Kuratome	MSTD		Table 6-12
1994/8/1 -	1994/8/3	NHJS	199408J11 -	199408JW01	24	Y.Kunihiro H.Miyake	MSTD		Table 6-13
1994/8/3 -	1994/8/5	SWSO	199408S4 -	199408O12	39	Y.Kunihiro H.Miyake	MSTD		Table 6-15
1994/10/3 -	1994/10/5	SWSO	199410S4 -	199410O33	35	T.Suzuuchi M.Torisawa	MSTD		Table 6-19
1994/10/11 -	1994/10/12	NHJS	199410J11 -	199410JW14	19	M.Watanobe	MSTD		Table 6-23
1994/12/7 -	1994/12/9	NHJS	199412J11 -	199412JW01	25	M.Mitsuhashi S.Yokoyama	MSTD		Table 6-25
1994/12/12 -	1994/12/14	SWSO	199412S4 -	199412OA13	39	T.Kaneta	MSTD		Table 6-27
1995/2/2 -	1995/2/4	NHJS	199502J11 -	199502JW01	23	K.Kuratome	MSTD		Table 6-31

Table 1-1. Area Code

Code	Area
IBJS	Ishikari Bay,Japan Sea
NHJS	North of Hokkaido, Japan Sea
NSSO	Okhotsk Sea, Nenuro strait
SHFB	South of Hokkaido,Funka Bay
SHNP	South of Hokkaido, North Pacific
SHOS	South of Hokkaido and off Sanriku
SKNP	South of Kuril Island, North Pacific
SWSO	Southwestern Okhotsk Sea
TG	Tsugaru Strait
TGJS	Tsugaru Strait and Japan Sea
WHJS	West of Hokkaido,Japan Sea

Table 2. Principal particulars of research vessels

Vessel	Call sign	Gross tonnage	Main engine	Number of crew	Captain	Affiliated institution
Oyashio Maru	JCMO	178	440 p.s.	20	M. Furumaki	Central Fisheries Experimental Station
Kinsei Maru	7LXI	68	290 p.s.	12	K. Sazaki	Hakodate Fisheries Experimental Station
Hokushin Maru	7LQV	214	440 p.s.	22	Y. Nunokawa	Kushiro Fisheries Experimental Station
Hokuyo Maru	JLSR	276	610 p.s.	25	K. Kuratome	Wakkai Fisheries Experimental Station

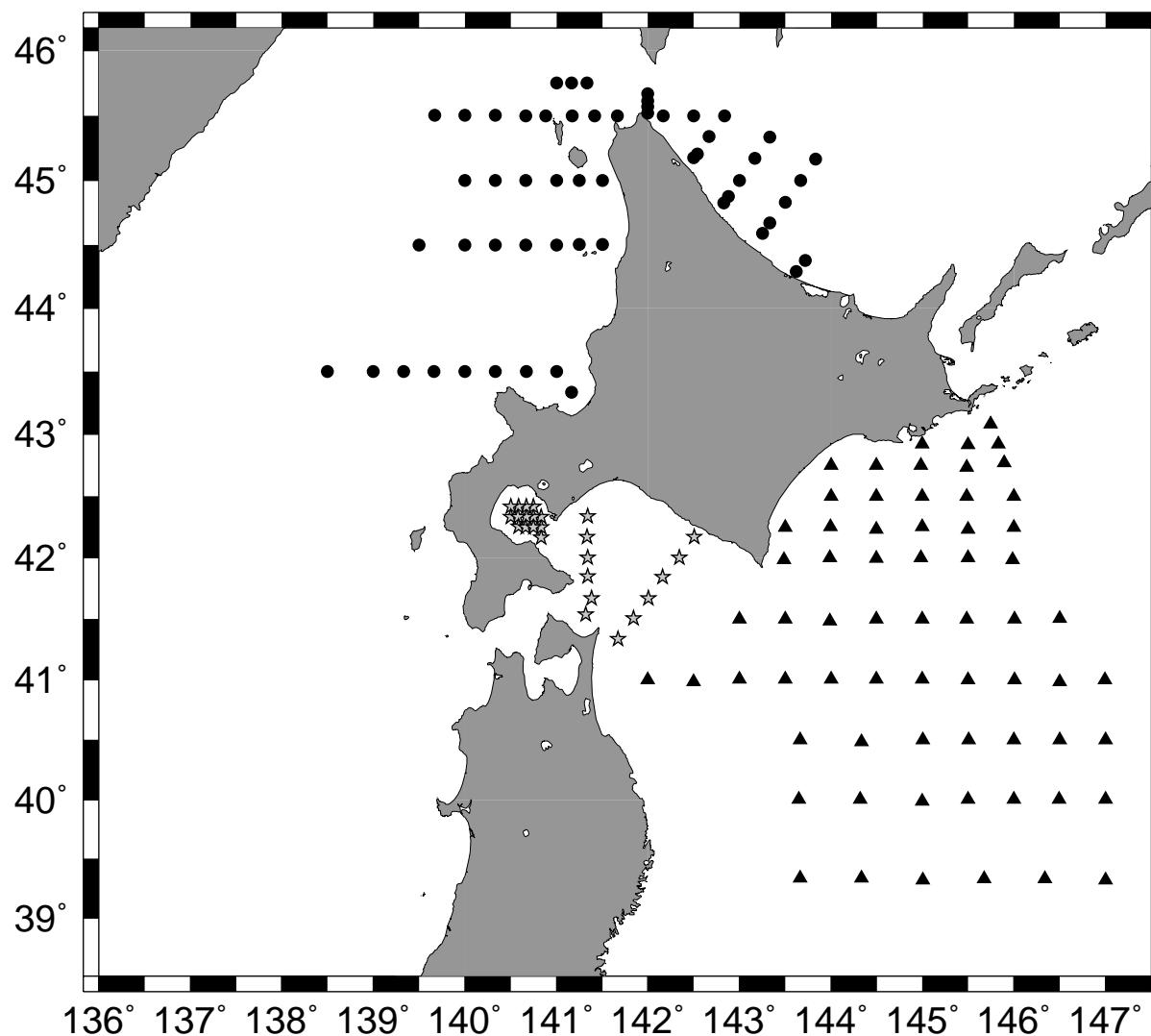


Fig. 1. Location of oceanographic stations covered in April 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

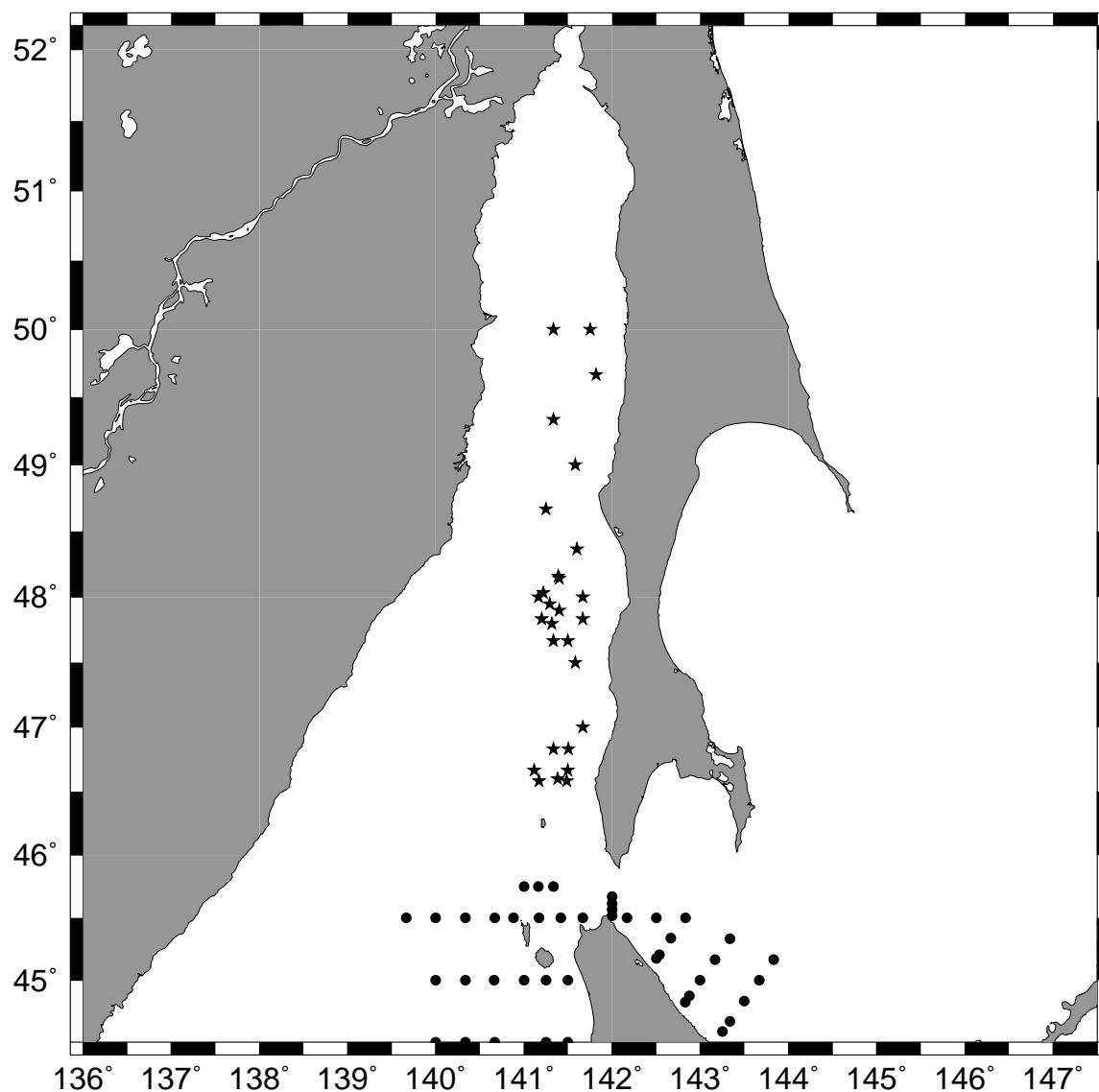


Fig. 1-2. Location of oceanographic stations covered in April 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

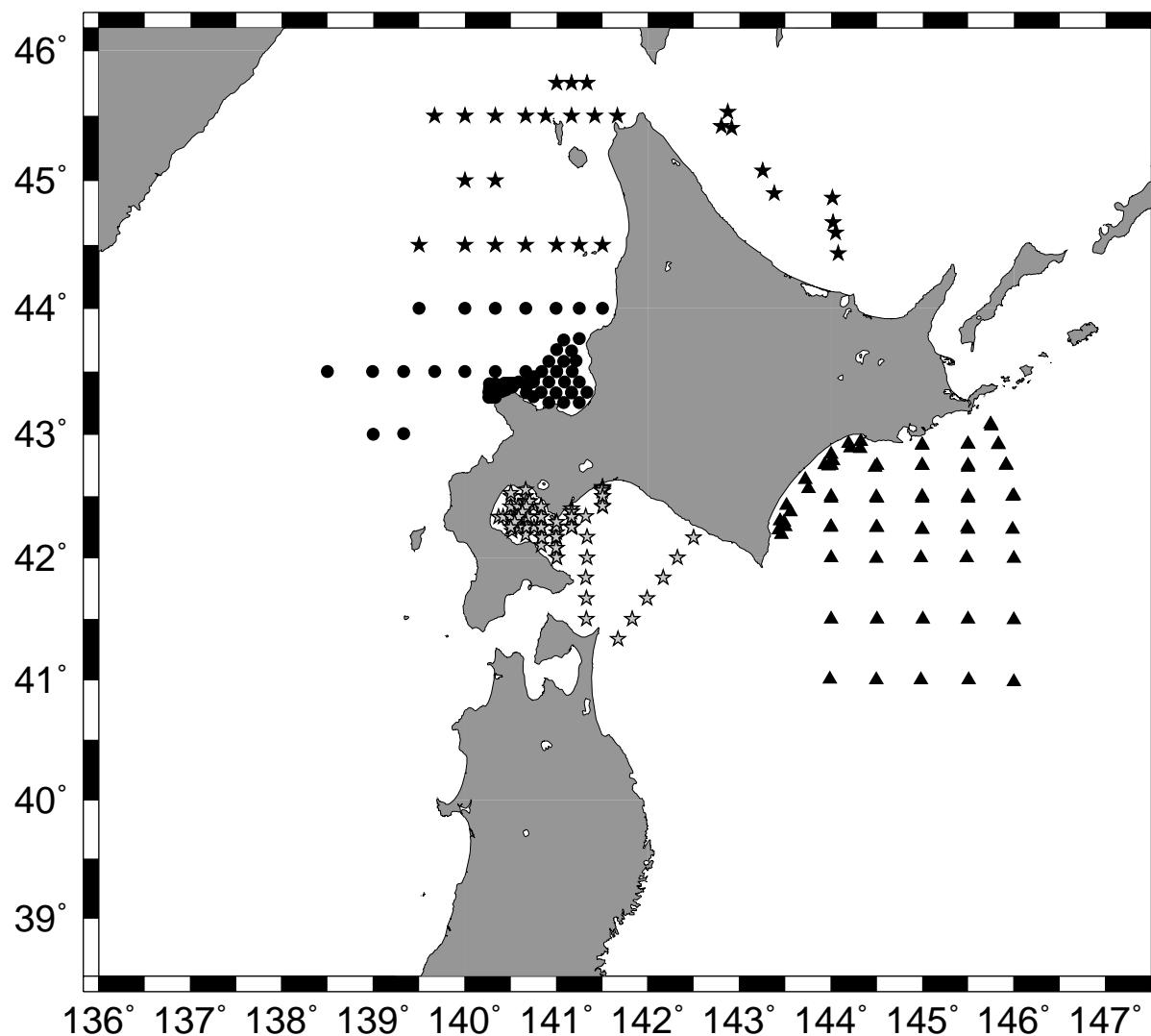


Fig. 2. Location of oceanographic stations covered in May 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

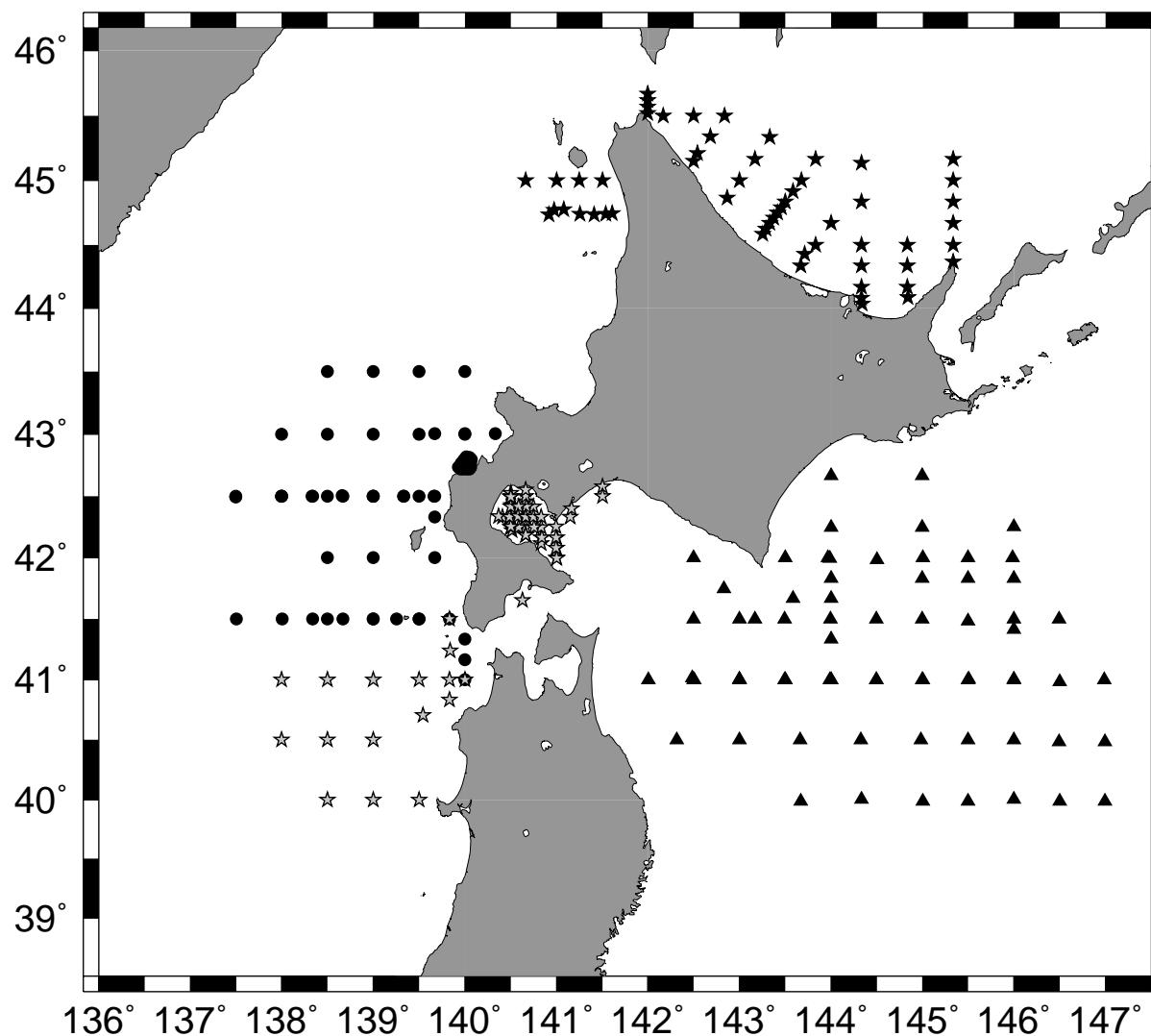


Fig. 3. Location of oceanographic stations covered in June 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

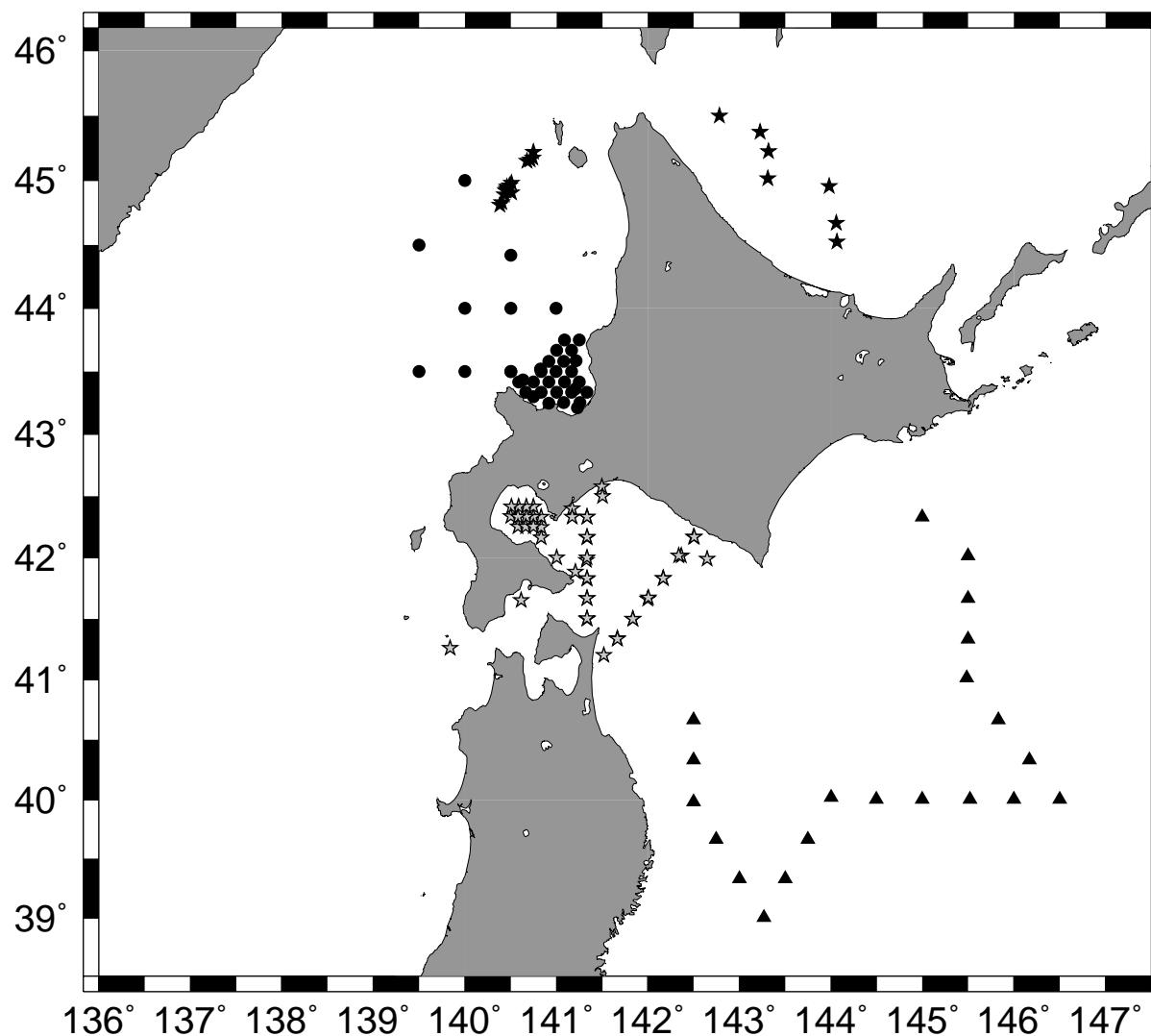


Fig. 4. Location of oceanographic stations covered in July 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

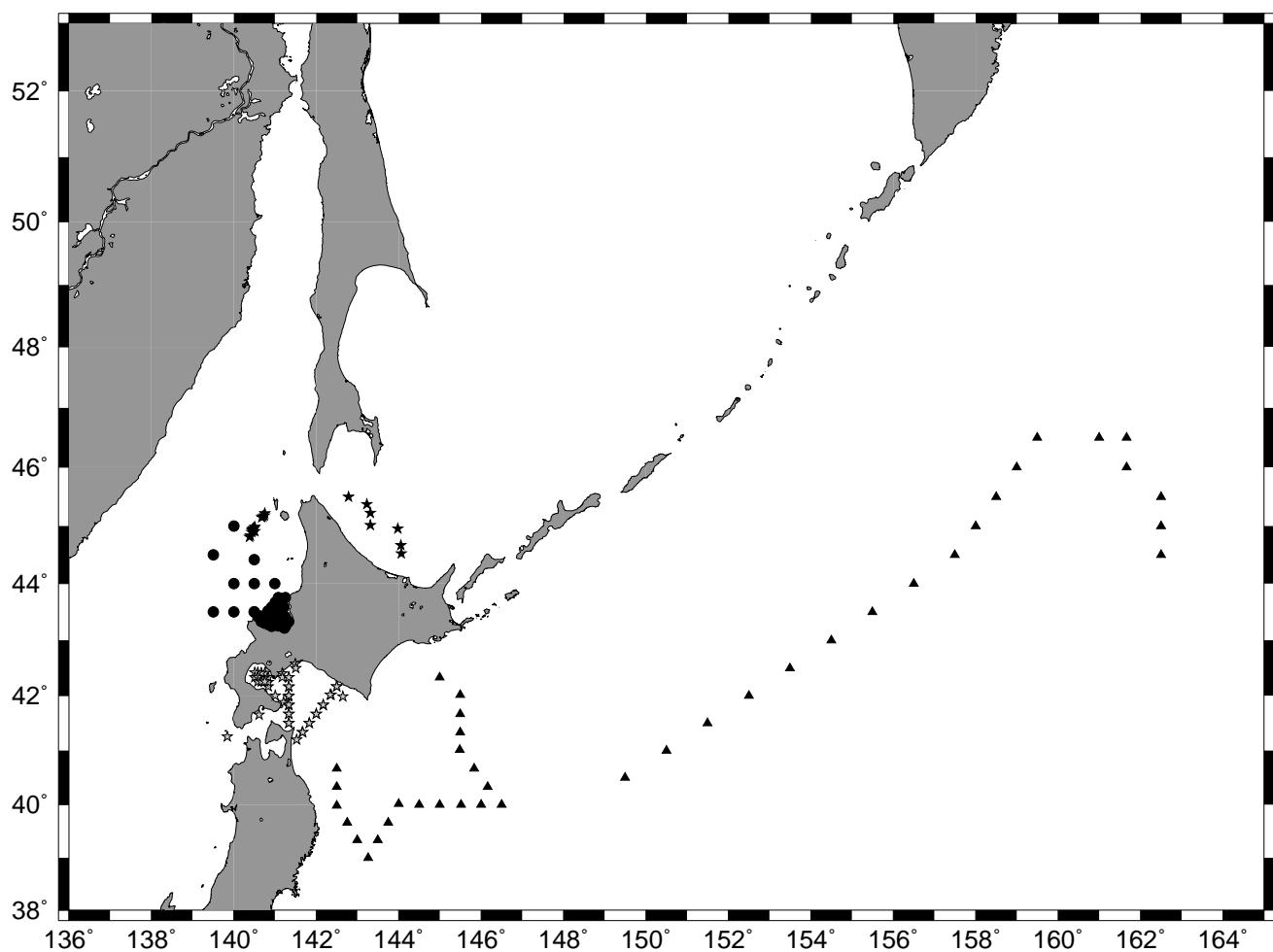


Fig. 4-2. Location of oceanographic stations covered in July 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

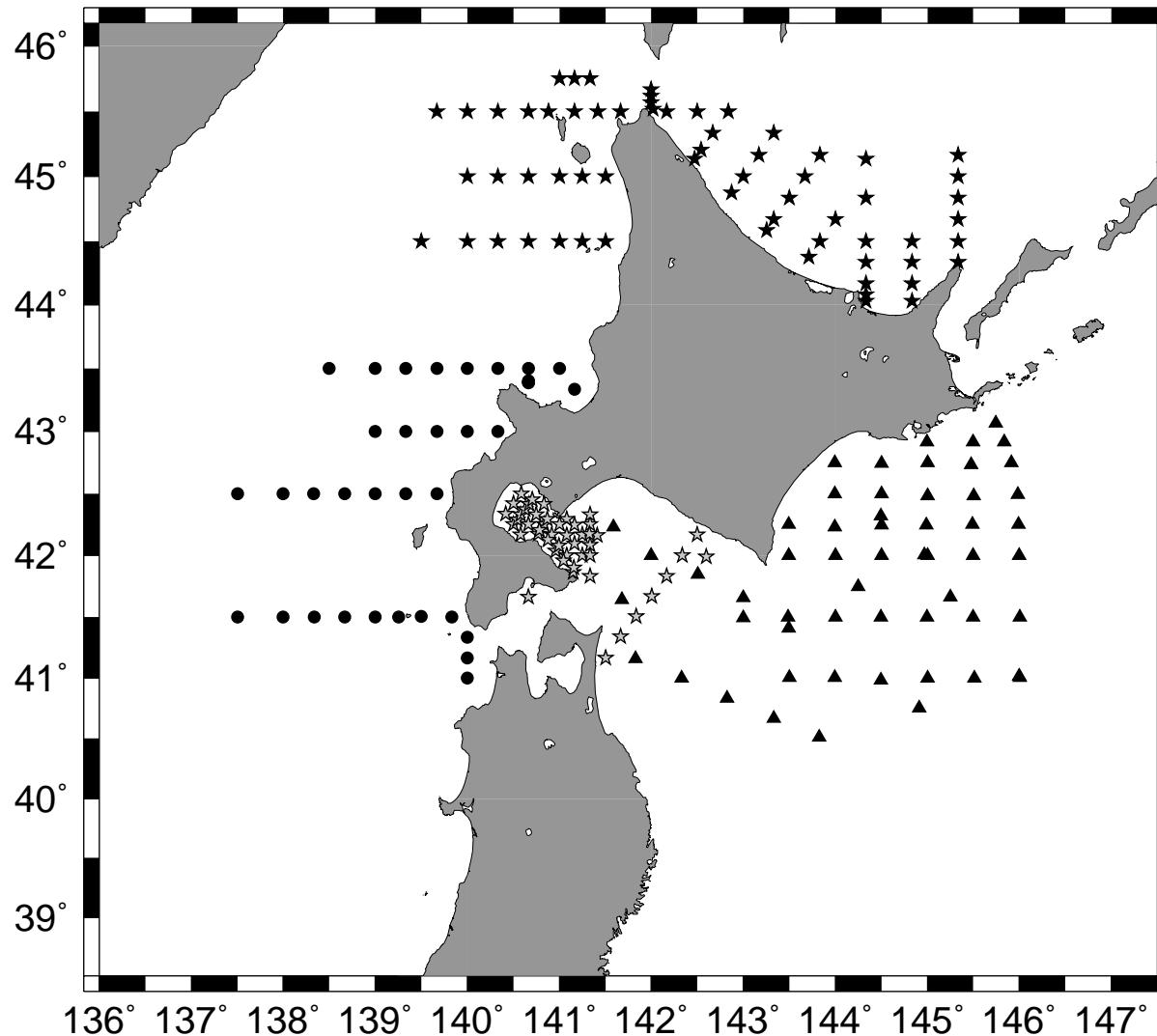


Fig. 5. Location of oceanographic stations covered in August 1994.
:Oyasyhio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

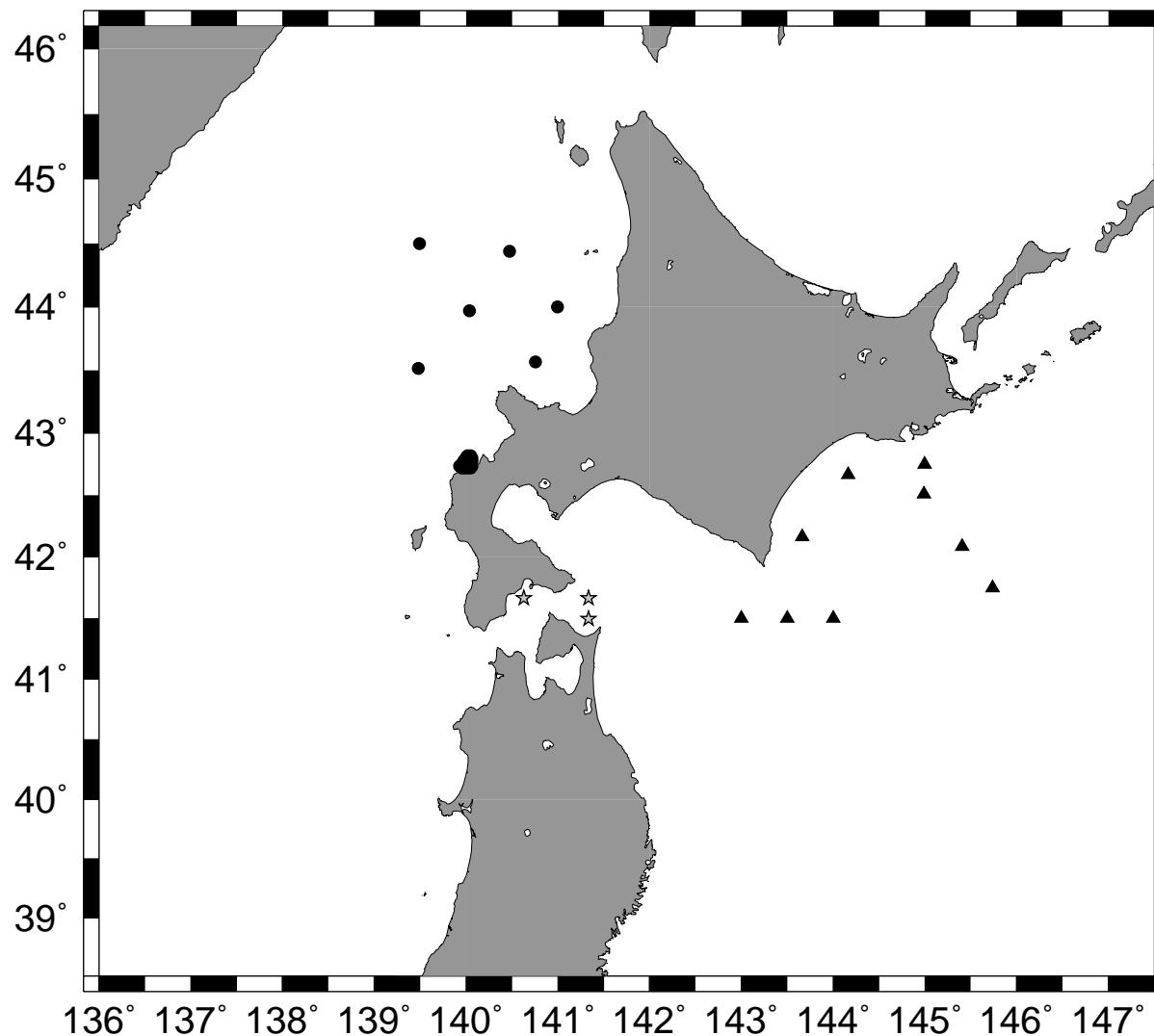


Fig. 6. Location of oceanographic stations covered in September 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

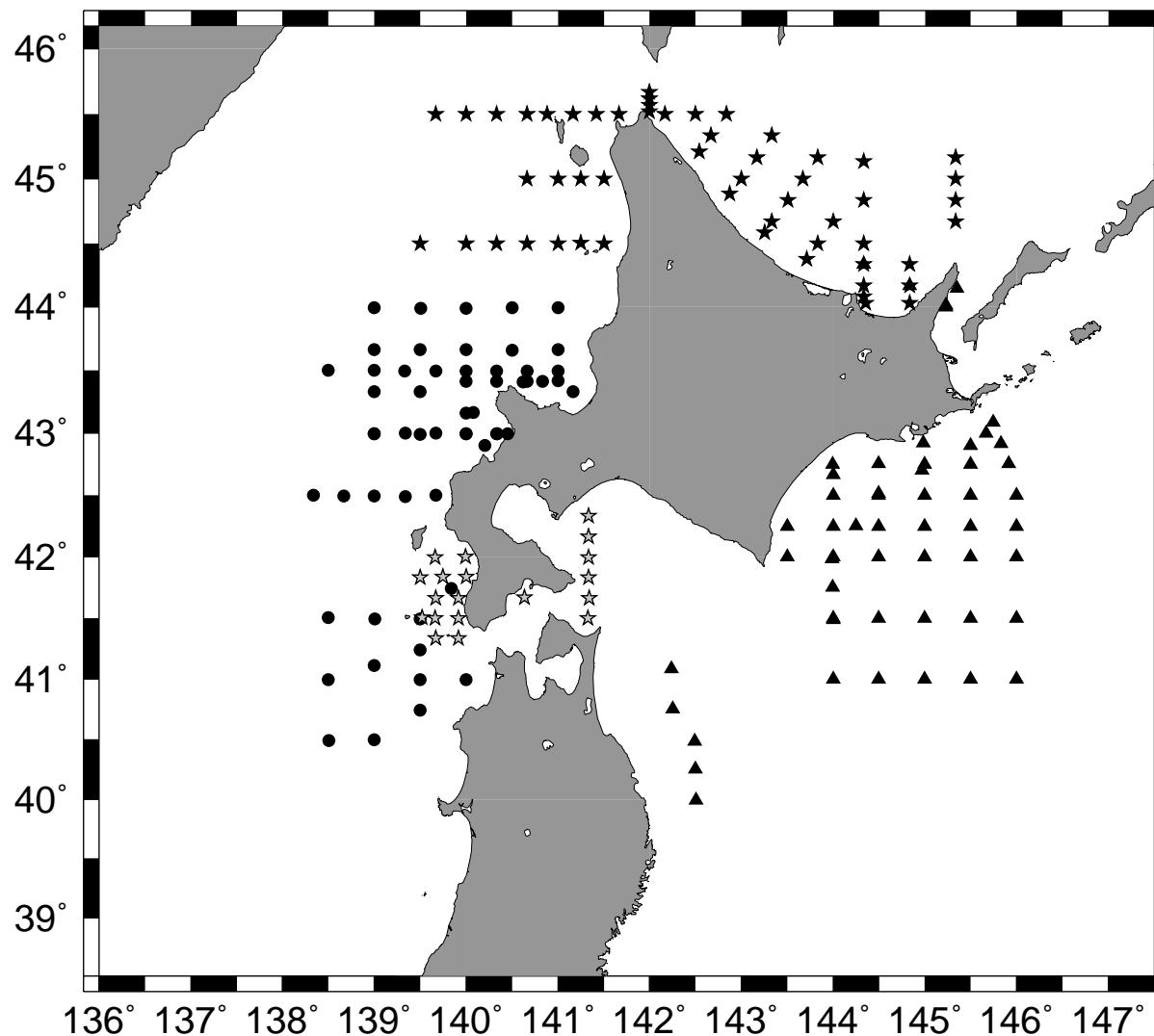


Fig. 7. Location of oceanographic stations covered in October 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

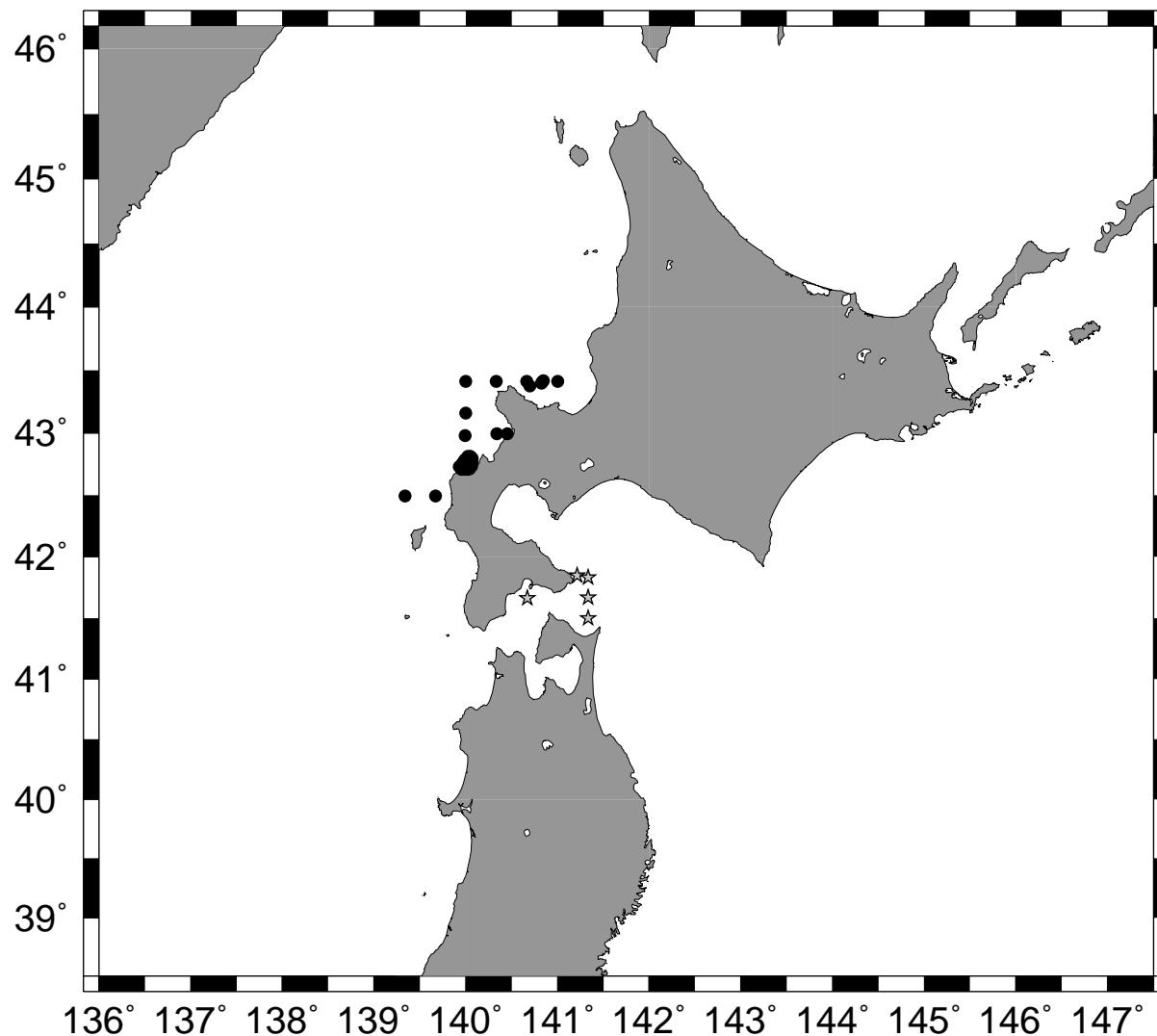


Fig. 8. Location of oceanographic stations covered in November 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

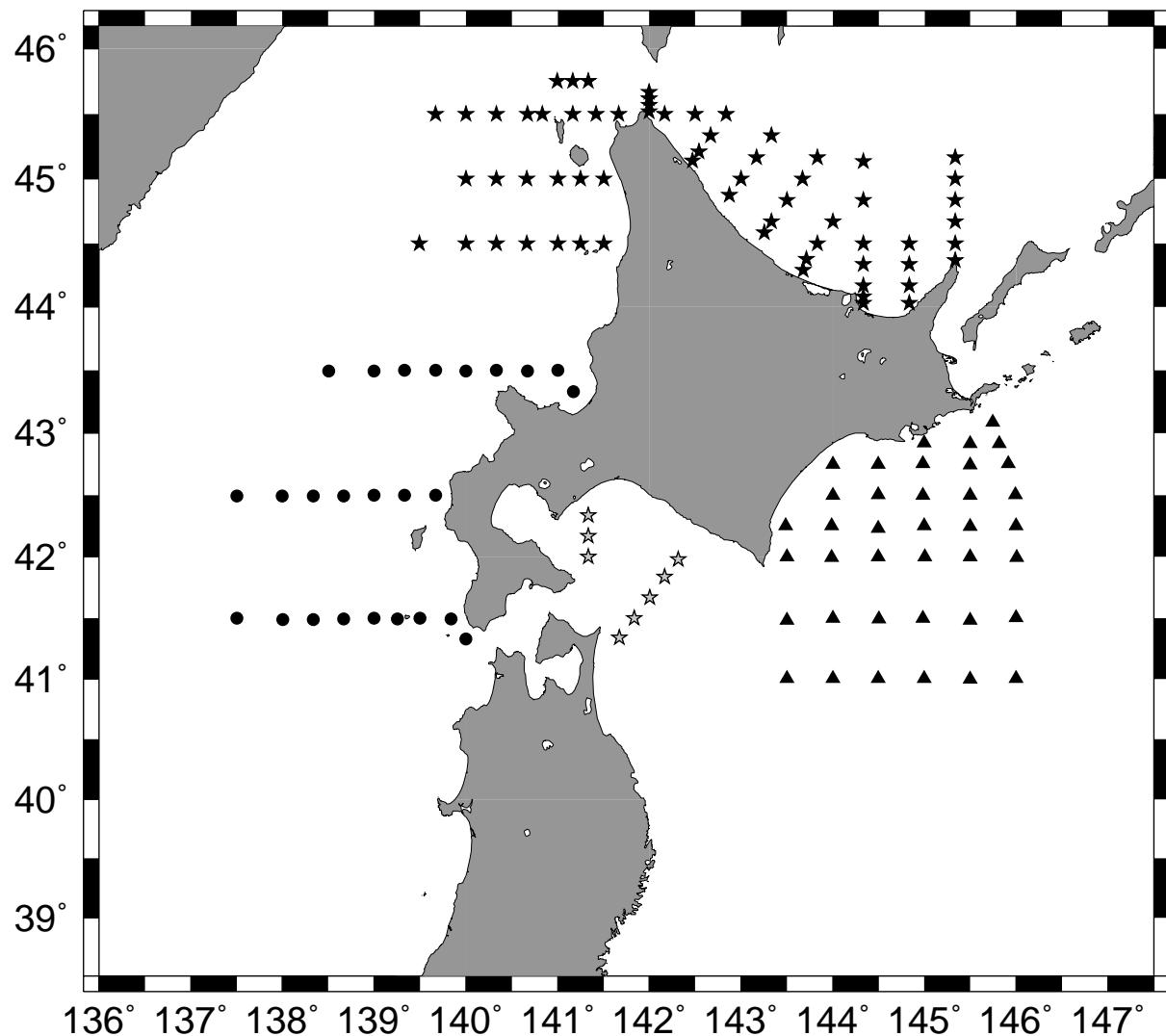


Fig. 9. Location of oceanographic stations covered in December 1994.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

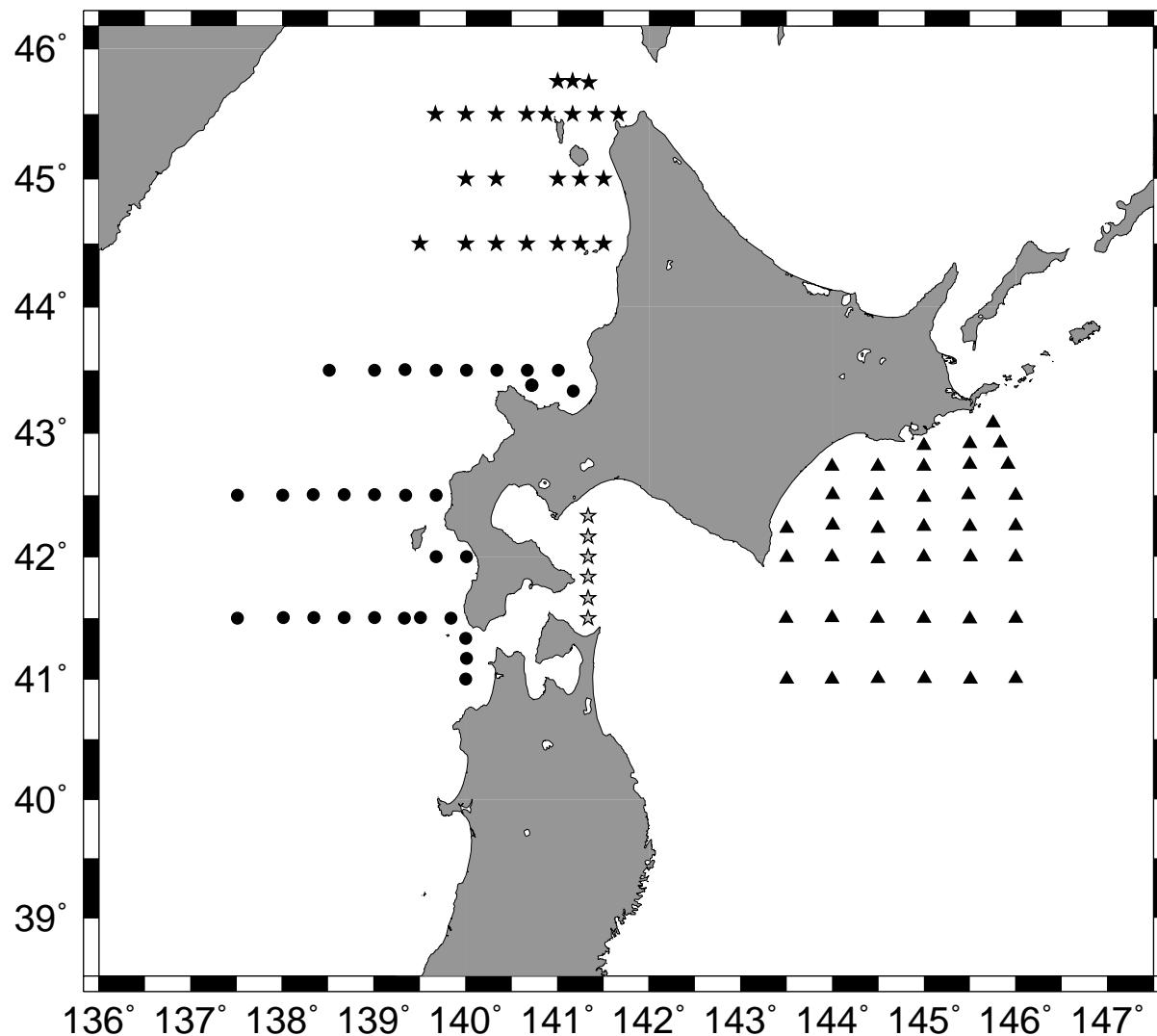


Fig. 10. Location of oceanographic stations covered in February 1995.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

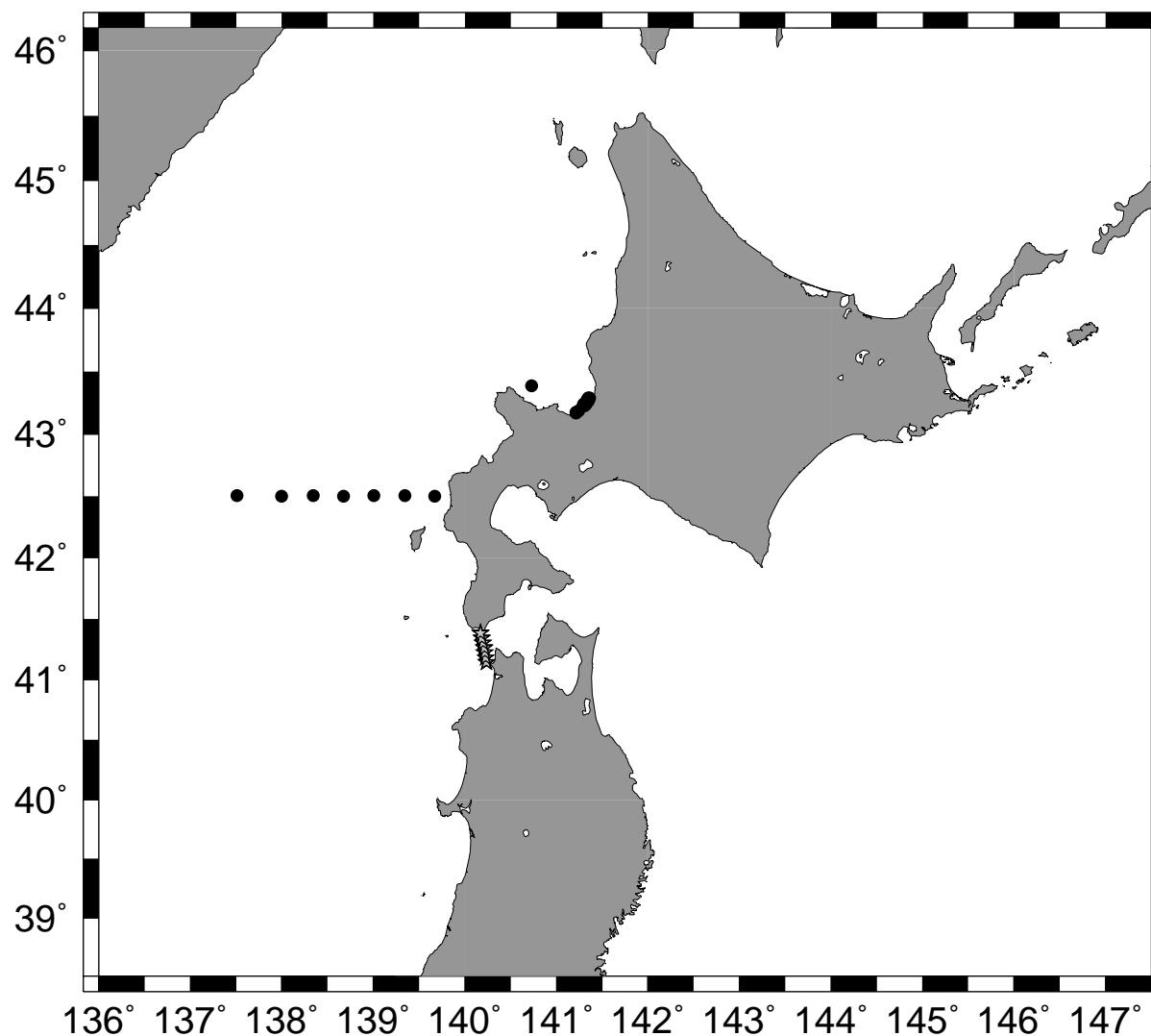


Fig. 11. Location of oceanographic stations covered in March 1995.
:Oyashio-Maru :Hokuyo-Maru :Hokushin-Maru :Kinsei-Maru

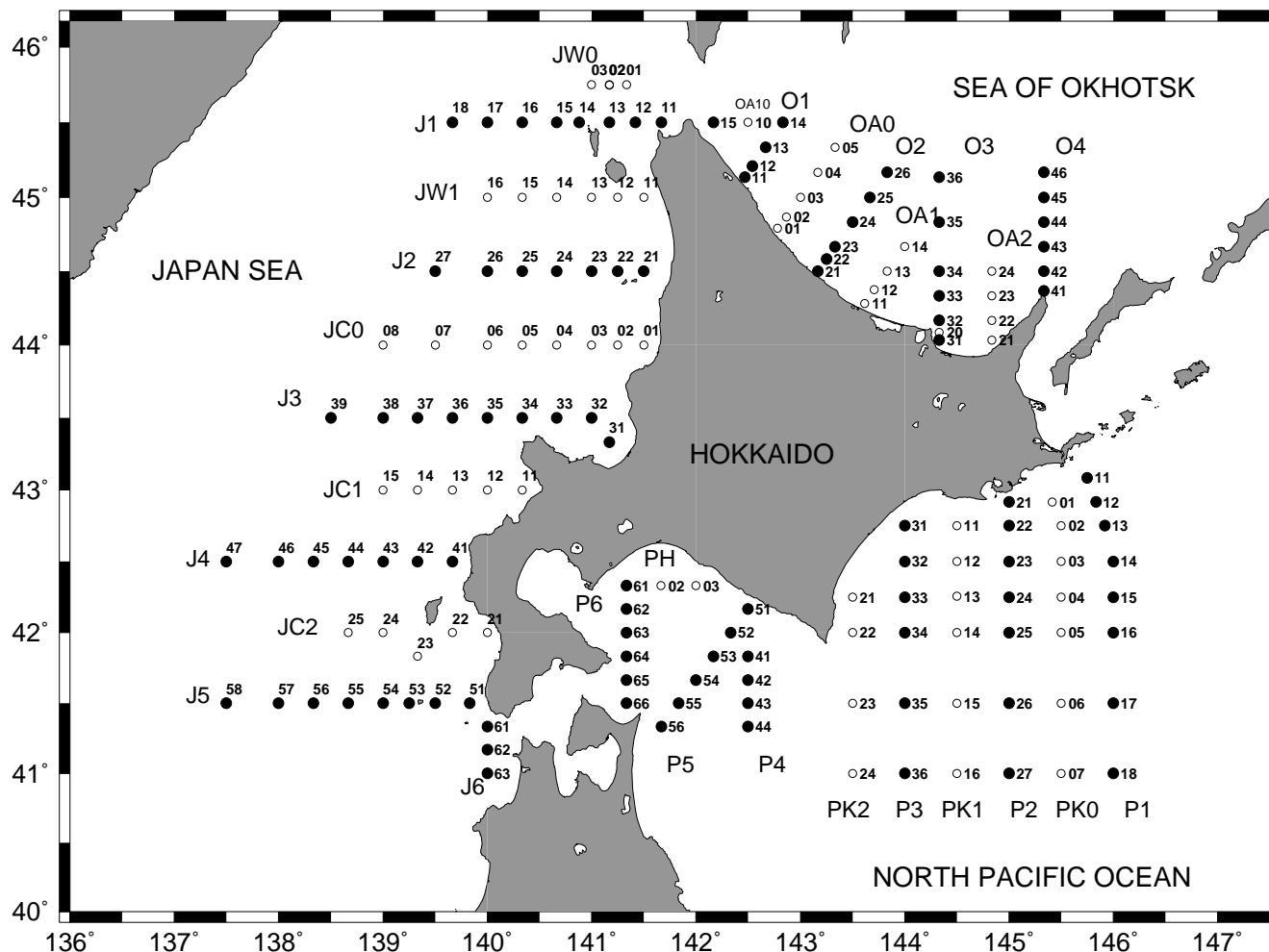


Fig. 12. Periodical observation of environmental research on fishing ground and adjacent waters off Hokkaido.
 Observed months: April, June, August, October, December and February except for Sea of Okhotsk (April to December only)
 and P4-Line (June, August and October only). ; Routine station ; Additional station

PART I

Summary of Serial Oceanographic Observations

Salinity was determined with Auto-Lab salinometer or CTD systems. Tables 3 to 6 show results of serial oceanographic observations. Abbreviations used are as follows: LATITUDE, north latitude; LONGITUDE, east longitude; WEATHER, WMO code 4501; AIR TEMP, air temperature in ; BAR, barometric pressure in hectopascal; WIND DIR, wind direction; WIND FORCE (F) , wind force in Beaufort scale; WIND SPEED (S), wind speed in m/s; TR, transparency in meters with white Secchi disc; COLOR, water color in Forel's scale; DEPTH, water depth in meters measured with an echo-sounder; STND. DEP, standard depth in meters; T, water temperature in ; S, salinity (PSS-78). Asterisks (*) at 0m row indicate the value of temperature or salinity with CTD at several meter under the sea surface and N.D. means No Data.

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404						
Station No	J31	J32	J33	J34	J35	J36	J37	J38	J39	J27							
Latitude:N	43–20.1	43–30.0	43–30.0	43–29.9	43–30.0	43–30.0	43–30.0	43–30.0	43–30.0	44–29.9							
Longitude:E	141–10.0	141–0.0	140–40.1	140–19.9	140–0.0	139–39.8	139–20.0	139–0.0	138–29.9	139–29.8							
Date	1994/04/11	1994/04/11	1994/04/12	1994/04/12	1994/04/12	1994/04/12	1994/04/12	1994/04/12	1994/04/12	1994/04/12	1994/04/19						
Time(JST)	10:04	11:34	01:15	03:03	04:50	07:00	08:46	10:27	13:27	05:41							
Weather	C	C	BC	BC	BC	C	C	C	C	C							
Air Temp.	7.3	7.2	6.5	6.7	7.0	7.2	9.1	8.8	7.6	5.1							
Bar	1016.0	1015.7	1015.0	1014.2	1012.2	1010.6	1008.8	1006.3	1001.4	1012.9							
Wind Dir	WSW	SW	SE	SSW	S	SSE	SSE	SSE	SE	WSW							
Wind Spd/F	S 8	S 6	S 6	S 8	S 8	S 6	S 8	S 8	S 6	S 5							
Transparency										13							
Depth	37	94	690	640	1252	2052	3200	3447	3408	521							
Equipment	CTD																
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S					
0m	5.2	32.592	5.5	33.428	6.7	34.073	6.4	33.981	7.2	34.055	5.4	34.066					
10m	4.98	32.602	5.34	33.558	6.54	34.008	6.08	33.979	7.09	34.055	5.26	34.063					
20m	5.32	33.906	5.37	33.678	6.55	34.010	6.08	33.979	7.07	34.055	5.26	34.064					
30m	5.16	34.022	5.35	33.964	6.55	34.011	6.08	33.979	6.97	34.058	5.20	34.061					
50m		5.21	34.050	6.54	34.008	5.90	34.025	6.18	34.048	5.08	34.070						
75m		5.05	34.068	6.11	34.049	5.74	34.042	5.85	34.058	4.86	34.072						
100m			5.69	34.057	5.58	34.046	4.97	34.070	4.11	34.084	4.92	34.074					
125m				5.29	34.062	5.46	34.048	3.61	34.092	3.46	34.096						
150m					4.49	34.071	5.21	34.058	3.08	34.076	2.75	34.086					
200m						3.42	34.080	2.56	34.083	1.83	34.077						
250m							1.90	34.079	1.81	34.078	1.26	34.076					
300m								1.34	34.076	1.27	34.075						
400m									0.80	34.075	0.85	34.074					
500m										0.62	34.074						
600m											0.58	34.074					
700m												0.46	34.074				
800m													0.49	34.078			
900m														0.49	34.078		
1000m															0.37	34.075	
																0.40	34.079

Table 3–1

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	
Station No	J26	J25	J24	J23	J22	J21	JW11	JW12	JW13	JW14		
Latitude:N	44–30.0	44–30.0	44–30.0	44–29.9	44–30.1	44–30.1	45– 0.1	44–59.9	45– 0.0	45– 0.1		
Longitude:E	140– 0.0	140–20.0	140–40.0	141– 0.0	141–15.0	141–30.0	141–30.0	141–15.0	141– 0.0	140–39.8		
Date	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/20		
Time(JST)	08:29	10:05	11:30	13:25	15:16	16:43	19:50	21:11	23:47	02:49		
Weather	C	C	BC	B								
Air Temp.	5.6	7.0	6.4	6.9	4.4	4.1	4.2	4.2	4.1	3.6		
Bar	1013.5	1013.5	1013.0	1013.7	1014.4	1013.9	1014.4	1013.0	1018.0	1017.6		
Wind Dir	NW	NW	N	NE	WNW	NW	N	NNE	NNE	CALM		
Wind Spd/F	S 5	S 3	S 3	S 1	S 2	S 4	S 5	S 3	S	S 0		
Transparency	12	14	16	15	14							
Depth	570	274	142	200	116	76	63	84	97	366		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	5.3	34.08*	5.3	34.07*	5.3	34.07*	6.2	34.02*	5.8	33.98*	5.8	33.88*
10m	5.16	34.078	5.20	34.074	5.12	34.081	5.79	34.033	5.48	33.981	5.34	33.945
20m	5.16	34.079	5.19	34.074	5.10	34.080	5.78	34.036	5.45	33.981	5.23	33.960
30m	5.14	34.079	5.19	34.074	5.10	34.080	5.75	34.040	5.44	33.983	5.24	33.965
50m	5.09	34.084	5.17	34.075	5.09	34.082	5.69	34.043	5.44	34.000	5.09	33.890
75m	5.04	34.088	5.12	34.079	4.92	34.086	5.64	34.045	5.48	34.043		
100m	4.65	34.098	4.83	34.097	4.67	34.107	5.46	34.048	5.43	34.041		
125m	3.77	34.104	4.54	34.096	4.16	34.101	5.30	34.051				
150m	2.68	34.087	3.93	34.107			5.02	34.075				
200m	1.58	34.080	2.20	34.086								
250m	1.04	34.077										
300m	0.88	34.075										
400m	0.61	34.075										
500m	0.46	34.073										
600m												
700m												
800m												
900m												
1000m												

Table 3–2

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	JW15	JW16	J18	J17	J16	J15	J14	JW03	JW02	JW01	
Latitude:N	45– 0.0	45– 0.1	45–30.1	45–30.1	45–30.1	45–30.0	45–30.0	45–45.1	45–45.1	45–45.1	
Longitude:E	140–20.0	140– 0.0	139–40.0	140– 0.0	140–20.0	140–40.0	140–53.0	141– 0.1	141–10.0	141–20.0	
Date	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	
Time(JST)	04:49	06:17	09:27	10:58	12:46	14:14	15:52	17:41	18:58	19:58	
Weather	C	BC	BC	BC	C	C	C	BC	C	BC	
Air Temp.	4.7	5.9	9.4	6.1	6.4	5.1	5.5	5.4	4.1	3.8	
Bar	1017.5	1017.6	1016.4	1015.5	1015.0	1014.0	1014.0	1014.0	1015.0	1015.0	
Wind Dir	W	SSW	SSW	SE	SSE	SW	S	N	N	NW	
Wind Spd/F	S 1	S 3	S 2	S 2	S 1	S 1	S 1	S 3	S 2	S 3	
Transparency	13	16	19	14	15	15	15	16			
Depth	145	340	831	588	394	544					
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	5.1 34.10*	5.5 33.93*	4.5 34.12*	5.4 34.10*	5.3 34.10*	5.1 34.11*	5.7 34.09*	5.5 34.38*	5.2 34.10*	4.8 34.11*	
10m	5.02 34.097	5.31 34.092	3.87 34.113	4.92 34.101	5.07 34.097	4.56 34.118	5.31 34.094	5.31 34.084	5.14 34.096	4.78 34.113	
20m	4.95 34.097	5.09 34.092	3.76 34.112	4.59 34.099	4.73 34.098	4.24 34.116	5.11 34.089	5.13 34.082	5.04 34.096	4.70 34.113	
30m	4.91 34.096	5.08 34.090	3.64 34.110	4.44 34.098	4.69 34.096	4.14 34.115	5.08 34.088	5.10 34.082	5.00 34.095	4.68 34.113	
50m	4.88 34.096	4.88 34.095	3.56 34.107	4.20 34.094	4.69 34.095	4.01 34.112	4.98 34.091	4.93 34.090	4.96 34.093	4.57 34.110	
75m	4.61 34.104	4.61 34.094	3.06 34.114	3.56 34.103	4.68 34.096	3.53 34.114	4.76 34.096	4.85 34.092	4.93 34.093	4.51 34.106	
100m	3.82 34.122	3.93 34.100	2.48 34.113	2.72 34.110	4.61 34.098	2.47 34.108	4.71 34.098	4.75 34.094	4.65 34.100	4.28 34.094	
125m	2.98 34.095	3.18 34.095	1.66 34.099	1.89 34.093	4.33 34.106	1.99 34.096	4.50 34.101	4.73 34.093			
150m		2.20 34.084	1.27 34.082	1.56 34.083	3.97 34.106	1.47 34.083	3.84 34.120	4.55 34.099			
200m		1.78 34.076	0.96 34.077	1.22 34.078	2.31 34.106	1.05 34.075	3.33 34.105	3.01 34.111			
250m		1.46 34.075	0.78 34.074	0.88 34.076	1.26 34.082	0.84 34.074	1.24 34.085	1.39 34.090			
300m		1.10 34.074	0.59 34.075	0.71 34.075	0.78 34.076	0.60 34.073	0.95 34.074	0.98 34.076			
400m			0.39 34.073	0.54 34.074		0.38 34.073	0.68 34.074	0.60 34.075			
500m			0.32 34.073	0.32 34.073		0.25 34.072					
600m											
700m											
800m											
900m											
1000m											

Table 3-3

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	J13	J12	J11	OS04	OS03	OS02	OS01	O105	OA10	O104	
Latitude:N	45–30.0	45–29.9	45–30.0	45–40.1	45–36.9	45–34.0	45–31.0	45–30.0	45–29.9	45–30.0	
Longitude:E	141–10.0	141–25.0	141–40.0	142–0.0	142–0.0	142–0.0	142–0.0	142–10.0	142–30.0	142–50.0	
Date	1994/04/20	1994/04/20	1994/04/21	1994/04/22	1994/04/22	1994/04/22	1994/04/22	1994/04/22	1994/04/22	1994/04/22	
Time(JST)	21:55	23:37	02:17	10:56	11:20	11:40	12:04	12:49	14:28	16:13	
Weather	BC	BC	B	C			BC			BC	
Air Temp.	3.8	3.7	4.1	3.3			7.5			7.5	
Bar	1016.0	1016.0	1015.9	1019.5			1020.0			1020.0	
Wind Dir	NW	WNW	W	N		CALM	CALM			CALM	
Wind Spd/F	S 2	S 2	S 7	F 3	S	S 0	S 0	S	S	S 0	
Transparency				14	20	12	12	19	8	8	
Depth				51	42	38	20	34	81	116	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	5.0	34.10*	5.3	33.97*	5.6	32.97*	4.3	33.87*	5.2	33.95*	
10m	5.02	34.105	5.19	34.072	5.74	32.752	3.99	34.051	4.53	34.108	
20m	4.94	34.103	5.07	34.086	5.38	33.307	3.97	34.060	4.50	34.107	
30m	4.90	34.102	4.96	34.090	5.06	33.759	4.09	34.082	4.48	34.107	
50m	4.80	34.104	4.93	34.090			4.15	34.093			
75m	4.77	34.103	4.91	34.090						2.98	
100m	4.72	34.104	4.82	34.092						0.34	
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 3-4

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	O103	O102	O101	OA02	OA01	OA03	OA04	OA05	O206	O205	
Latitude:N	45–20.3	45–12.4	45–10.5	44–52.4	44–49.4	45– 0.0	45–10.1	45–20.0	45– 9.9	45– 0.0	
Longitude:E	142–40.0	142–32.4	142–30.0	142–52.6	142–49.7	143– 0.0	143– 9.9	143–20.0	143–50.0	143–40.0	
Date	1994/04/22	1994/04/22	1994/04/22	1994/04/22	1994/04/22	1994/04/22	1994/04/23	1994/04/23	1994/04/23	1994/04/23	1994/04/23
Time(JST)	17:37	18:52	19:25	21:34	22:10	23:33	01:07	02:31	04:53	06:22	
Weather			B		B				BC		
Air Temp.				3.0			1.1			0.0	
Bar				1021.5			1021.0			1020.0	
Wind Dir				SE			SSE			SSE	
Wind Spd/F	S	S	S	F 4	S	F 2	S	S	F 3	S	
Transparency	10								12	9	
Depth	95	58	46	82	52	128	130	141	355	170	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	0.3	32.50*	3.4	33.67*	5.0	34.10*	2.2	33.03*	0.9	32.88*	0.2
10m	-0.32	32.480	3.62	33.948	4.61	34.106	1.54	33.210	1.15	32.986	0.04
20m	-0.95	32.733	4.29	34.085	4.57	34.101	2.05	33.585	1.33	33.382	-0.40
30m	-1.61	32.993	4.29	34.090	4.53	34.101	3.54	33.905	3.29	33.707	-0.54
50m	0.07	33.244					3.80	34.002			1.95
75m	3.20	33.948							3.04	33.933	-1.67
100m									33.975	32.909	32.868
125m									-1.78	33.042	32.965
150m									-1.79	33.083	32.939
200m										-1.61	33.101
250m										-1.63	33.114
300m										-1.58	33.131
400m										-1.38	33.158
500m										-0.16	33.285
600m											
700m											
800m											
900m											
1000m											

Table 3–5

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199405	199405	199405	199405	199405
Station No	O204	O203	O202	OA11	OA12	CIS109	CIS102	CIS106	CIS103	CIS107
Latitude:N	44–49.9	44–40.0	44–35.2	44–17.5	44–22.5	43–25.0	43–25.0	43–30.1	43–35.1	43–39.8
Longitude:E	143–30.0	143–20.0	143–15.0	143–37.4	143–43.0	141–5.1	141–15.0	141–10.1	141–12.9	141–9.8
Date	1994/04/23	1994/04/23	1994/04/23	1994/04/23	1994/04/23	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10
Time(JST)	07:44	09:16	10:13	12:43	13:24	13:16	14:06	14:46	15:21	15:58
Weather	BC			BC	BC	C	C	C	C	C
Air Temp.	3.1			4.1	4.1	12.2	13.9	13.5	13.7	13.4
Bar	1010.5			1016.5	1016.5	1006.0	1004.5	1005.0	1003.9	1003.5
Wind Dir	SE			E	E	ESE	ESE	SE	SE	SE
Wind Spd/F	F 4	S	S	F 4	F 4	S 8	S 11	S 9	S 9	S 9
Transparency	14	11	9	7	8					
Depth	148	111	75	41	89	60	41	58	59	85
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	-0.3	32.50*	0.8	32.62*	3.7	33.58*	5.9	32.71*	0.3	32.83*
10m	-0.53	32.510	0.88	32.736	3.51	33.596	5.23	33.307	0.06	32.672
20m	-0.28	32.641	1.92	33.496	3.93	33.850	5.20	33.330	0.83	32.952
30m	-1.19	32.729	3.71	33.984	4.43	33.994	5.06	33.369	2.37	33.642
50m	-1.76	32.947	3.71	34.009	4.35	34.012			4.12	34.024
75m	-1.79	33.038	3.53	34.002			4.06	34.033		
100m	-1.76	33.076	3.53	34.001						
125m		3.27	33.950							
150m										
200m										
250m										
300m										
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 3–6

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	CIS104	CIS111	CIS114	CIS110	CIS117	CIS113	CIS119	CIS116	CIS121	CIS123	
Latitude:N	43–45.5	43–45.0	43–40.3	43–34.9	43–35.0	43–30.0	43–30.0	43–24.9	43–24.9	43–25.0	
Longitude:E	141–14.9	141–5.0	141–0.3	141–4.9	140–55.0	141–0.0	140–50.3	140–54.9	140–44.9	140–35.0	
Date	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	
Time(JST)	16:43	17:33	18:21	19:09	19:58	20:39	21:25	22:11	22:58	23:47	
Weather	C	C	C	C	C	C	C	C	C	C	
Air Temp.	14.4	13.3	12.1	12.0	11.7	11.4	12.0	12.3	12.5	13.6	
Bar	1002.7	1002.5	1002.2	1002.2	1002.4	1001.9	1002.0	1002.4	1001.9	1001.7	
Wind Dir	SSE	SE	SSE	SE	SSE	SE	S	S	S	W	
Wind Spd/F	S 9	S 7	S 10	S 10	S 8	S 9	S 7	S 6	S 10	S 5	
Transparency											
Depth	118	277	317	90	127	93	473	83	161	189	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	9.1	30.84*	8.4	34.04*	8.8*	33.98*	8.9	34.09*	8.9*	34.00*	
10m	8.85	33.755	8.19	34.038	8.70	34.036	8.64	33.981	8.73	34.013	
20m	8.58	33.992	8.03	34.039	8.59	34.042	8.40	34.021	8.63	34.024	
30m	8.45	34.006	7.71	34.041	8.42	34.047	8.32	34.029	8.53	34.035	
50m	7.93	34.046	7.57	34.093	8.12	34.057	7.97	34.041	8.29	34.060	
75m	6.91	34.081	6.97	34.062	7.34	34.091	7.57	34.073	7.68	34.082	
100m	6.67	34.052	6.51	34.088	6.57	34.103			6.81	34.088	
125m			5.57	34.074	5.47	34.082				6.49	34.098
150m			4.91	34.084	4.91	34.080				5.24	34.093
200m			3.71	34.090	2.99	34.083				2.99	34.087
250m			2.01	34.074	1.76	34.076				1.82	34.076
300m					1.17	34.076				1.16	34.073
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 3-7

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	CIS122	CIS120	CIS118	CIS112	CIS115	CIS105	CIS100	CIS101	CIS108	CE01	
Latitude:N	43–19.7	43–17.9	43–20.0	43–19.9	43–15.1	43–19.9	43–20.0	43–15.0	43–15.0	43–23.2	
Longitude:E	140–40.2	140–45.0	140–50.0	140–59.9	140–55.0	141–9.8	141–20.1	141–15.0	141–5.0	140–40.6	
Date	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/18
Time(JST)	00:40	01:08	01:38	02:24	08:09	09:15	09:57	10:38	11:23	20:28	
Weather	C	C	C	C	C	C	C	C	C	C	
Air Temp.	13.9	13.1	13.1	12.7	16.4	12.7	12.5	13.0	13.9	10.3	
Bar	1001.5	1001.5	1001.5	1002.4	999.5	1001.6	1002.2	1002.8	1003.1	999.6	
Wind Dir	SW	ENE	S	WSW	SW	W	W	SW	W	SW	
Wind Spd/F	S 3	S 3	S 7	S 3	S 12	S 11	S 8	S 8	S 7	S 6	
Transparency											
Depth	99	75	81	50	38	36	22	22	28	378	
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	9.4* 32.54*	9.4* 32.79*	9.2* 33.88*	9.2 33.80*	9.5* 33.34*	9.2 33.95*	9.1 33.95*	9.4 33.03*	9.5 33.39*	9.8 33.83*	
10m	9.15 33.801	9.19 33.770	8.95 33.930	9.10 33.813	9.20 33.677	9.09 33.850	9.01 33.459	9.12 33.278	9.30 33.337	9.73 33.832	
20m	9.16 33.826	8.97 33.861	8.85 33.941	8.36 33.893	9.09 33.714	9.01 33.967			9.16 33.451	9.73 33.832	
30m	9.09 33.883	8.96 33.885	8.79 33.934	7.64 33.927	9.03 33.725	8.89 33.996				9.71 33.834	
50m	9.06 33.914	8.66 33.953	8.56 34.026							9.66 33.839	
75m	9.00 33.935									9.52 33.942	
100m										9.41 33.992	
125m										8.53 34.023	
150m										7.75 34.035	
200m										4.02 34.090	
250m										2.47 34.079	
300m										1.67 34.073	
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 3–8

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405		
Station No	CE02	CE03	CE04	CE05	CM118	CM101	CM119	CM120	CM121	CM122			
Latitude:N	43–23.5	43–23.6	43–24.7	43–27.6	43–23.5	43–22.5	43–24.5	43–24.5	43–24.5	43–24.5	43–24.5		
Longitude:E	140–40.4	140–40.6	140–40.3	140–45.3	140–31.9	140–30.9	140–32.1	140–29.9	140–27.9	140–25.9	140–25.9		
Date	1994/05/19	1994/05/19	1994/05/19	1994/05/19	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23		
Time(JST)	01:02	06:24	11:50	16:39	11:47	12:01	12:21	12:37	12:53	13:09			
Weather	B	B	B	B	B	B	B	B	B	B	B		
Air Temp.	10.2	11.4	10.7	11.5	16.7	17.2	17.3	16.7	17.2	17.2	17.2		
Bar	998.2	1000.3		1007.4	1015.0	1015.0	1015.0	1015.0	1015.0	1015.0	1015.0		
Wind Dir	SW	W	WNW	WNW	E	E	ESE	E	E	ENE	ENE		
Wind Spd/F	S 4	S 7	S 4	S 5	S 1	S 1	S 1	S 1	S 1	S 1	S 1		
Transparency													
Depth	375	391	455	472									
Equipment	CTD												
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	
0m	9.7	33.83*	9.8	33.83*	10.7	33.87*	10.0	33.93*	11.3	33.70*	11.1	34.37*	
10m	9.70	33.832	9.68	33.832	9.87	33.862	9.76	33.923	10.64	33.768	10.70	33.728	
20m	9.70	33.832	9.68	33.832	9.75	33.856	9.70	33.920	10.52	33.788	10.56	33.768	
30m	9.70	33.831	9.68	33.832	9.66	33.847	9.69	33.918	10.48	33.795	10.32	33.815	
50m	9.68	33.833	9.60	33.842	9.60	33.855	9.70	33.917	10.10	33.890		10.14	33.856
75m	9.57	33.874	9.51	33.945	9.52	33.931	9.48	33.938	9.45	33.976		9.94	33.959
100m	9.51	33.989	9.32	34.010	9.20	34.008	9.04	33.980			9.02	34.061	
125m	9.02	34.022	8.39	34.018	8.29	34.035	8.68	34.049					
150m	7.89	34.033	7.00	34.075	5.94	34.101	7.08	34.166					
200m	4.71	34.093	4.09	34.096	3.52	34.083	3.42	34.088					
250m	2.67	34.085	2.37	34.086	2.14	34.078	2.07	34.076					
300m	1.77	34.076	1.62	34.076	1.64	34.074	1.46	34.072					
400m					0.90	34.073	0.85	34.074					
500m													
600m													
700m													
800m													
900m													
1000m													

Table 3-9

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	CM123	CM124	CM125	CM126	CM127	CM107	CM106	CM105	CM108	CM109	CM109
Latitude:N	43–24.2	43–24.1	43–22.0	43–22.1	43–22.1	43–21.6	43–21.0	43–20.5	43–21.5	43–21.5	43–21.5
Longitude:E	140–19.8	140–16.0	140–16.0	140–18.0	140–20.0	140–22.1	140–22.1	140–24.0	140–24.0	140–26.0	140–26.0
Date	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23
Time(JST)	13:43	14:10	14:33	14:49	15:04	15:22	15:35	15:53	16:03	16:17	
Weather	B	B	B	B	B	B	B	B	B	B	B
Air Temp.	15.5	14.6	14.0	15.4	15.2	15.3	15.1	17.2	17.6	17.9	
Bar	1015.5	1015.5	1015.0	1015.0	1014.7	1014.2	1014.0	1014.0	1014.0	1014.0	1013.5
Wind Dir	WSW	SW	SSW	SSW	SSW	SW	SW	SW	SW	SW	WSW
Wind Spd/F	S 3	S 4	S 4	S 5	S 7	S 8	S 10	S 9	S 9	S 9	S 9
Transparency											
Depth											
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	11.9	33.76*	11.7	34.13*	11.7	33.94*	11.4	33.94*	11.5	33.55*	11.5
10m	11.03	33.981	11.39	34.136	10.85	34.000	10.69	33.950	11.42	33.661	10.64
20m	10.62	33.993	10.95	34.118	10.64	34.021	10.57	33.961	11.30	33.866	10.63
30m	10.53	34.034	10.94	34.121	10.66	34.016	10.54	33.981	10.82	33.957	10.69
50m	10.45	34.088	9.67	34.053	9.93	34.045	10.23	34.095	10.41	34.094	10.51
75m	9.63	34.114	8.70	34.089	9.21	34.138	9.58	34.136	10.42	34.111	
100m	9.26	34.144	7.97	34.081	8.17	34.118	8.89	34.154			
125m	8.87	34.145	6.81	34.133							
150m			5.85	34.108							
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 3–10

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	CM104	CM103	CM102	CM116	CM117	CM115	CM110	CM111	CM114	CM113	
Latitude:N	43–20.9	43–21.4	43–22.7	43–23.5	43–23.5	43–23.5	43–22.5	43–22.5	43–23.5	43–23.5	
Longitude:E	140–26.0	140–27.3	140–28.0	140–27.9	140–30.0	140–26.0	140–25.9	140–24.0	140–24.0	140–22.0	
Date	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23
Time(JST)	16:28	16:41	16:55	17:05	17:39	18:00	18:13	18:27	18:39	18:55	
Weather	B	B	B	B	B	B	B	B	B	B	
Air Temp.	17.4	18.5	18.0	16.9	15.9	14.6	14.4	14.1	14.1	14.0	
Bar	1013.5	1013.5	1013.5	1013.5	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0	1014.0
Wind Dir	WSW	WSW	WSW	WSW	ESE	SW	WSW	WSW	SW	SW	
Wind Spd/F	S 8	S 7	S 7	S 2	S 4	S 2	S 4	S 8	S 6	S 9	
Transparency											
Depth											
Equipment	CTD	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	11.6 33.51*	11.8 33.36*	11.6 33.38*	12.8 33.56*	12.8 33.69*	11.2 33.73*	11.2 33.90*	11.2 33.57*	11.2 33.50*	11.7 33.17*	
10m	10.80 33.704	10.90 33.639	10.83 33.581	11.34 33.719	10.65 33.785	10.75 33.738	10.95 33.725	10.93 33.661	10.75 33.921	11.07 33.911	
20m	10.61 33.760	10.62 33.728	10.71 33.649	10.68 33.762	10.55 33.781	10.64 33.746	10.66 33.761	10.55 33.865	10.62 33.982	10.65 33.961	
30m	10.20 33.826		10.22 33.853	10.58 33.775	10.49 33.792	10.39 33.783	10.38 33.781	10.65 33.953	10.57 34.010	10.62 34.011	
50m				9.68 33.998	9.71 33.949	10.26 34.076	9.87 33.980	10.20 33.946	10.36 33.978	10.50 34.088	
75m						10.22 34.105	9.48 34.093	10.20 34.110	10.34 34.036	10.20 34.077	
100m									10.18 34.101	9.84 34.091	
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 3-11

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199406	199406	199406	199406
Station No	CM112	CM130	CM129	CM128	CM133	CM132	CM131	J31	J32	J33	
Latitude:N	43–22.5	43–20.0	43–20.0	43–19.8	43–17.5	43–17.6	43–17.6	43–20.1	43–30.0	43–30.1	
Longitude:E	140–21.9	140–15.8	140–18.0	140–19.7	140–19.8	140–17.9	140–15.9	141–10.0	141–0.1	140–39.9	
Date	1994/05/23	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/30	1994/05/30	1994/05/30	
Time(JST)	19:11	14:14	14:32	14:52	15:12	15:26	15:41	09:58	11:12	12:36	
Weather	B	B	F	F	F	F	F	C	C	C	
Air Temp.	13.6	13.2	13.6	13.4	13.0	13.0	13.0	15.6	15.6	15.6	
Bar	1014.0	1016.5	1016.5	1016.5	1016.5	1016.5	1016.5	1000.6	1000.6	1000.8	
Wind Dir	SW	SW	SW	SW	SSW	SSW	SSW	ESE	ESE	WNW	
Wind Spd/F	S 8	S 4	S 4	S 4	S 6	S 7	S 6	S 7	S 7	S 4	
Transparency								35	93	693	
Depth											
Equipment	CTD	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	11.6 33.35*	12.4 33.66*	12.2 33.63*	12.4 33.71*	12.3 33.48*	12.3 33.66*	12.2 33.68*	11.9 33.525	11.9 33.708	12.4 33.704	
10m	11.37 33.849	11.03 33.961	11.21 33.869	11.46 33.743	11.43 33.759	11.21 33.841	11.16 33.977	11.66 33.525	11.49 33.721	11.52 33.723	
20m	10.77 33.969	10.88 33.944	10.95 33.944	10.98 33.950	11.04 33.895	10.91 33.974	10.89 33.956	10.78 33.844	11.01 33.805	11.25 33.963	
30m	10.76 34.038	10.70 33.923	10.74 33.972	10.72 33.967	10.92 33.971	10.82 33.991	10.84 33.959	9.70 33.911	10.95 33.878	10.75 33.947	
50m	10.57 34.077	10.47 34.060	10.59 34.029	10.74 34.032		10.67 33.996	10.61 34.029		9.79 33.963	10.50 33.992	
75m	10.36 34.049	10.01 34.116	10.27 34.100			10.35 34.091	10.30 34.099		8.98 34.010	9.89 34.025	
100m		8.63 34.155					9.49 34.128			9.79 34.054	
125m							7.89 34.141			9.01 34.095	
150m										7.48 34.125	
200m										3.49 34.090	
250m										2.25 34.072	
300m										1.55 34.070	
400m										0.78 34.068	
500m										0.58 34.067	
600m											
700m											
800m											
900m											
1000m											

Table 3–12

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406		
Station No	J34	JC21	JC22	JC23	JC24	JC25	JC26	JC27	J35	J36			
Latitude:N	43–30.0	44– 0.0	44– 0.0	44– 0.0	44– 0.0	44– 0.1	44– 0.0	44– 0.0	43–30.0	43–30.0			
Longitude:E	140–20.0	141–30.0	141–15.0	140–59.9	140–40.0	140–19.9	140– 0.0	139–29.9	140– 0.0	139–40.0			
Date	1994/05/30	1994/05/30	1994/05/30	1994/05/30	1994/05/30	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31			
Time(JST)	14:17	19:25	20:33	21:43	23:19	01:03	02:45	05:07	08:45	11:10			
Weather	R	C	C	BC	BC	BC	BC	BC	B	B			
Air Temp.	13.8	13.7	12.3	11.1	11.2	10.8	10.4	11.0	12.2	13.4			
Bar	1000.4	1000.1	1001.0	1000.8	1001.0	1000.7	1000.7	1001.8	1003.6	1004.6			
Wind Dir	SW	SW	SW	SW	SW	SSW	SW	SW	SSW	SSW			
Wind Spd/F	S 7	S 3	S 7	S 7	S 8	S 7	S 9	S 7	S 8	S 7			
Transparency													
Depth	640	45	163	401	575	520	486	1372	1245	2100			
Equipment	CTD												
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	
0m	12.1	33.823	12.2	33.585	11.9	34.066	9.8	33.940	9.9	33.940	9.8	33.944	
10m	11.98	33.913	12.03	33.916	11.84	34.061	9.79	33.939	9.88	33.934	9.78	33.941	
20m	11.51	33.926	11.71	33.943	11.56	34.060	9.58	33.944	9.75	33.973	9.57	33.978	
30m	11.30	34.001	11.23	33.907	11.47	34.072	9.43	33.951	9.64	33.971	9.27	33.983	
50m	10.90	34.078			10.85	34.074	6.59	34.079	5.61	34.084	7.24	34.052	
75m	9.63	34.127			8.58	34.108	5.14	34.082	4.65	34.085	4.94	34.098	
100m	8.75	34.140			7.72	34.117	4.51	34.087	4.08	34.085	4.47	34.090	
125m	7.21	34.122			6.64	34.126	3.71	34.085	3.37	34.083	3.70	34.085	
150m	6.72	34.121			6.08	34.099	2.85	34.082	2.54	34.080	2.79	34.079	
200m	4.63	34.084					1.80	34.073	1.59	34.070	1.68	34.073	
250m	2.90	34.083					1.36	34.068	1.16	34.068	1.25	34.068	
300m	1.62	34.069					1.09	34.068	0.91	34.068	0.96	34.069	
400m	0.73	34.069						0.61	34.067	0.60	34.068	1.09	34.069
500m	0.53	34.067						0.40	34.067	0.42	34.067		
600m												0.39	34.071
700m													
800m													
900m													
1000m													

Table 3–13

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406		199406		199406		199406		199406		199406		199406		199406	
Station No	J37		J38		J39		JC15		JC14		JC13		JC12		JC11	
Latitude:N	43-30.0		43-30.1		43-30.1		43- 0.0		43- 0.1		43- 0.1		43- 0.1		42-30.0	
Longitude:E	139-19.9		138-59.7		138-29.9		138-59.9		139-20.0		139-40.0		140- 0.0		140-19.9	
Date	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/01
Time(JST)	12:46	14:24	17:34		21:15		22:50		00:24		01:59		03:35		07:59	10:17
Weather	BC	C	C		C		C		C		C		BC		B	
Air Temp.	12.5	11.6	11.7		12.1		12.6		13.2		12.9		13.8		14.7	16.6
Bar	1009.5	1003.8	1003.6		1004.6		1004.3		1003.5		1003.4		1003.2		1004.8	1005.1
Wind Dir	S	S	SW		S		S		S		S		S		SW	SW
Wind Spd/F	S 9	S 10	S 5		S 7		S 8		S 9		S 5		S 8		S 4	S 5
Transparency																19
Depth	3250	1836	1788		3500		2350		2886		1274		471		1837	3288
Equipment	CTD	CTD	CTD		CTD	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S
0m	10.8	33.969	10.7	33.954	10.6	33.987	11.0	33.923	11.6	33.986	12.5	34.072	12.3	34.035	13.3	32.677
10m	10.69	33.973	10.47	33.952	10.60	33.979	10.93	33.914	11.50	34.014	12.41	34.069	12.24	34.031	12.22	33.929
20m	10.42	33.963	10.02	33.962	9.40	34.057	10.74	33.926	10.65	34.170	12.41	34.069	12.24	34.031	12.08	34.077
30m	9.90	34.022	9.11	34.051	8.73	34.039	9.44	34.017	8.76	34.220	11.85	34.099	12.24	34.033	11.93	34.125
50m	6.76	34.123	6.46	34.088	7.39	34.097	4.75	34.124	7.66	34.155	9.67	34.255	11.89	34.087	10.41	34.078
75m	5.51	34.106	5.78	34.073	5.60	34.106	3.30	34.093	6.69	34.122	8.08	34.146	10.66	34.163	8.98	34.142
100m	4.70	34.095	5.24	34.069	4.43	34.095	2.37	34.082	5.92	34.119	7.66	34.143	9.02	34.187	7.90	34.120
125m	3.56	34.100	4.73	34.072	3.47	34.092	1.90	34.078	4.15	34.094	7.16	34.140	8.31	34.174	6.61	34.099
150m	2.81	34.090	4.14	34.081	2.60	34.082	1.55	34.078	3.26	34.082	5.64	34.110	7.36	34.145	5.12	34.098
200m	1.71	34.080	2.61	34.073	1.57	34.077	1.20	34.075	2.35	34.079	3.57	34.082	4.51	34.104	3.71	34.076
250m	1.17	34.074	1.63	34.072	1.20	34.074	1.16	34.080	1.96	34.078	2.44	34.080	3.04	34.082	2.53	34.072
300m	0.89	34.073	1.17	34.070	0.98	34.074	1.04	34.081	1.45	34.079	1.98	34.077	2.27	34.077	1.67	34.074
400m	0.60	34.072	0.74	34.071	0.66	34.073	0.60	34.073	0.87	34.070	1.02	34.069	0.96	34.067	0.88	34.066
500m	0.45	34.072	0.58	34.071	0.47	34.074	0.45	34.072	0.61	34.071	0.67	34.071	0.58	34.067	0.56	34.065
600m															0.40	34.066
700m																
800m																
900m																
1000m																

Table 3-14

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	J43	J44	J45	J46	J47	J58	J57	J56	J55	J54		
Latitude:N	42–30.1	42–30.2	42–30.1	42–30.0	42–30.1	41–30.0	41–30.1	41–30.0	41–30.1	41–30.0		
Longitude:E	138–59.9	138–39.7	138–20.0	138–0.0	137–29.9	137–30.0	138–0.1	138–20.0	138–39.9	139–0.0		
Date	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/02	1994/06/02	1994/06/02	1994/06/02	1994/06/02		
Time(JST)	11:58	13:42	15:26	17:05	19:45	01:51	04:07	05:43	07:19	08:56		
Weather	B	B	B	B	B	BC	BC	BC	C	C		
Air Temp.	14.7	13.6	13.7	12.7	11.9	11.7	12.0	12.5	12.7	13.3		
Bar	1004.6	1004.0	1004.2	1004.2	1003.9	1003.5	1003.6	1004.0	1004.3	1004.6		
Wind Dir	SSW	SSW	SW	SW	SW	WSW	SW	SW	S	SW		
Wind Spd/F	S 4	S 5	S 4	S 4	S 4	S 6	S 3	S 4	S 4	S 6		
Transparency												
Depth	3600	3700	3635	3678	3678	3669	3691	3702	3200	1300		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S		
0m	11.7	33.946	11.3	33.985	12.1	33.975	11.4	33.949	11.3	33.966	11.5	33.934
10m	11.29	33.958	10.66	33.981	10.70	33.970	10.39	33.950	10.40	33.968	10.94	33.934
20m	10.87	34.087	10.47	33.977	9.04	34.073	10.10	33.971	9.24	34.025	8.99	34.029
30m	8.02	34.176	7.16	34.095	5.85	34.137	8.63	34.024	6.86	34.077	5.53	34.106
50m	5.90	34.128	3.63	34.102	4.39	34.098	5.20	34.096	4.89	34.091	3.36	34.088
75m	4.04	34.090	2.63	34.090	3.34	34.081	3.74	34.094	3.99	34.086	2.50	34.095
100m	2.79	34.090	2.08	34.085	2.73	34.082	2.63	34.085	3.32	34.090	2.13	34.090
125m	2.24	34.074	1.70	34.083	2.25	34.076	2.13	34.076	2.72	34.092	1.96	34.091
150m	1.89	34.073	1.42	34.078	1.93	34.079	1.67	34.076	2.29	34.088	1.88	34.088
200m	1.22	34.074	1.12	34.077	1.31	34.075	1.24	34.073	1.56	34.078	1.30	34.077
250m	1.19	34.076	0.91	34.076	1.12	34.075	0.92	34.071	1.03	34.070	1.11	34.079
300m	1.16	34.080	0.72	34.073	0.84	34.073	0.74	34.072	0.90	34.071	0.91	34.075
400m	0.98	34.079	0.52	34.071	0.57	34.071	0.58	34.071	0.64	34.072	0.59	34.071
500m	0.56	34.072	0.41	34.070	0.46	34.071	0.46	34.070	0.47	34.071	0.45	34.070
600m							0.39	34.070				
700m												
800m												
900m												
1000m												

Table 3–15

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	J53	J52	J63	J62	J61	J51	CSR01	CSR02	CSR03	CSR04		
Latitude:N	41–30.1	41–30.1	41– 0.1	41–10.0	41–20.0	41–30.0	43– 0.0	43– 0.0	42–30.0	42–20.0		
Longitude:E	139–15.0	139–30.0	140– 0.1	140– 0.0	139–59.9	139–49.9	140– 0.0	139–30.0	139–30.0	139–40.0		
Date	1994/06/02	1994/06/02	1994/06/02	1994/06/02	1994/06/02	1994/06/02	1994/06/08	1994/06/09	1994/06/09	1994/06/09		
Time(JST)	10:11	11:30	15:08	16:16	17:15	18:36	18:28	12:35	15:33	16:57		
Weather	R	R	C	BC	R	C						
Air Temp.	13.4	13.6	16.4	15.6	14.6	14.4						
Bar	1004.6	1004.6	1004.6	1004.4	1004.2	1003.8						
Wind Dir	SSW	SW	SW	SW	SSW	S						
Wind Spd/F	S 5	S 6	S 9	S 6	S 8	S 6	S	S	S	S		
Transparency												
Depth	1134	1663	500	105	225	1370						
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	12.9	33.999	12.4	33.996	15.3	33.960	15.0	34.170	14.7	34.176	13.6	33.967
10m	12.50	34.009	12.12	33.943	15.08	33.949	14.93	34.159	14.63	34.169	13.45	33.985
20m	11.00	34.019	10.70	34.011	14.57	33.996	14.18	34.165	13.24	34.225	12.62	34.346
30m	8.90	34.107	9.54	34.088	13.55	33.997	12.46	34.313	11.50	34.255	10.90	34.326
50m	5.95	34.132	7.96	34.188	12.18	34.142	10.65	34.344	10.91	34.275	10.11	34.338
75m	4.31	34.098	6.51	34.129	10.63	34.282	9.78	34.271	10.17	34.267	8.81	34.242
100m	3.31	34.081	4.66	34.088	10.07	34.211	9.02	34.190	9.99	34.298	7.52	34.165
125m	2.65	34.074	3.53	34.085	10.01	34.259			8.64	34.182	6.69	34.124
150m	2.07	34.073	2.83	34.075	9.65	34.281			8.56	34.173	5.13	34.102
200m	1.36	34.066	1.64	34.070	7.29	34.139			7.52	34.145	3.37	34.078
250m	0.99	34.064	1.17	34.066	4.52	34.095					2.30	34.070
300m	0.75	34.064	0.88	34.066	2.72	34.072					1.24	34.069
400m	0.47	34.064	0.55	34.064	1.16	34.064					0.77	34.064
500m	0.35	34.064	0.40	34.064							0.57	34.064
600m												
700m												
800m												
900m												
1000m												

Table 3–16

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	CSR05	CSR06	CSR07	CSR08	CSR09	CSR12	CSR13	CSR14	CSR15	CSR16	
Latitude:N	42° 0.0	41°30.0	41°30.0	41°30.0	42° 0.0	42° 0.0	42°30.0	42°30.0	42°30.0	43° 0.0	
Longitude:E	139°40.0	139°30.0	139° 0.0	138°30.0	138°30.0	139° 0.0	139° 0.0	138°30.0	138° 0.0	138° 0.0	
Date	1994/06/10	1994/06/10	1994/06/11	1994/06/11	1994/06/11	1994/06/11	1994/06/12	1994/06/12	1994/06/13	1994/06/13	
Time(JST)	06:04	17:58	08:28	10:41	13:25	18:17	15:01	17:13	05:17	08:09	
Weather											
Air Temp.											
Bar											
Wind Dir											
Wind Spd/F	S	S	S	S	S	S	S	S	S	S	S
Transparency											
Depth											
Equipment	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	14.9	33.97*	16.4	34.19*	15.4	34.07*	15.2	33.91*	15.1	34.12*	15.5
10m	14.38	34.140	14.82	34.196	13.56	34.041	12.13	33.962	14.41	33.995	13.24
20m	12.22	34.168	12.77	34.229	9.40	34.152	8.95	34.047	11.57	34.008	10.00
30m	11.14	34.169	11.72	34.227	7.61	34.168	5.33	34.142	6.12	34.088	8.74
50m	9.44	34.223	8.62	34.251	5.11	34.111	3.90	34.104	3.65	34.103	7.59
75m	8.01	34.170	8.33	34.213	3.96	34.090	2.88	34.081	2.40	34.082	5.87
100m	6.78	34.133	7.58	34.180	3.12	34.080	2.19	34.069	1.80	34.086	4.68
125m	6.18	34.110	5.17	34.111	2.39	34.074	1.75	34.067	1.41	34.079	3.42
150m	5.58	34.100	3.51	34.086	1.79	34.069	1.42	34.068	1.23	34.075	2.66
200m	4.48	34.089	2.03	34.073	1.15	34.065	1.26	34.079	1.11	34.077	1.48
250m	2.63	34.073	1.36	34.070	0.86	34.065	1.19	34.080	0.89	34.072	1.10
300m	1.64	34.066	0.98	34.064	0.67	34.062	0.96	34.074	0.72	34.069	0.90
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 3-17

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	CSR17	CSR19	CSR20	CSR18	CSR21	CSR22	CT101	CT102	CT105	CT104		
Latitude:N	43° 0.0'	43° 30.0'	43° 30.0'	43° 0.0'	43° 30.0'	43° 30.0'	42° 49.0	42° 48.8	42° 47.9	42° 48.0		
Longitude:E	138° 30.0'	138° 30.0'	139° 0.0'	139° 0.0'	139° 30.0'	140° 0.0'	140° 0.7'	140° 2.9'	140° 4.1'	140° 1.9'		
Date	1994/06/13	1994/06/13	1994/06/13	1994/06/13	1994/06/14	1994/06/14	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	
Time(JST)	10:21	13:10	15:22	18:17	13:47	18:05	04:07	04:37	04:59	05:18		
Weather							D	D	D	D		
Air Temp.							12.9	12.9	12.6	12.7		
Bar							1008.8	1008.9	1008.9	1009.0		
Wind Dir							E	SE	ESE	ENE		
Wind Spd/F	S	S	S	S	S	S	S 2	S 2	S 2	S 1		
Transparency							441	305	145	288		
Depth												
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	13.8	33.97*	13.2	33.97*	14.2	34.10*	15.8	34.10*	14.1	33.97*	15.9	34.03*
10m	13.12	33.960	12.18	33.967	12.34	33.978	15.30	34.058	12.48	33.979	13.24	34.017
20m	10.95	34.013	11.56	33.996	10.44	34.012	12.31	34.219	11.20	34.003	12.57	33.972
30m	6.07	34.177	8.84	34.071	9.40	34.058	9.34	34.188	9.59	34.033	10.52	33.993
50m	4.07	34.105	6.16	34.078	7.66	34.094	7.85	34.188	6.91	34.103	7.89	34.098
75m	2.83	34.089	5.26	34.068	5.60	34.099	6.03	34.124	5.40	34.109	5.10	34.094
100m	2.31	34.077	4.75	34.075	4.31	34.091	4.59	34.102	4.27	34.088	3.96	34.090
125m	1.77	34.076	3.93	34.075	3.60	34.081	3.36	34.084	3.36	34.080	3.16	34.076
150m	1.39	34.070	3.33	34.074	2.66	34.077	2.46	34.075	2.65	34.076	2.34	34.073
200m	1.21	34.073	2.28	34.068	1.66	34.065	1.59	34.067	1.62	34.067	1.63	34.066
250m	1.05	34.075	1.43	34.069	1.22	34.065	1.22	34.071	1.16	34.064	1.19	34.064
300m	0.81	34.070	1.04	34.069	0.96	34.063	1.16	34.077	0.90	34.066	0.89	34.064
400m											0.65	34.061
500m												
600m												
700m												
800m												
900m												
1000m												

Table 3-18

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	CT103	CT106	CT107	CT108	CT112	CT111	CT110	CT109	CT113	CT114	
Latitude:N	42-47.9	42-46.9	42-47.0	42-47.0	42-46.0	42-46.0	42-45.9	42-45.9	42-45.0	42-45.0	
Longitude:E	139-59.8	139-58.9	140- 1.2	140- 3.1	140- 4.0	140- 1.9	139-59.9	139-57.5	139-57.1	139-59.1	
Date	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21
Time(JST)	05:37	06:17	06:51	07:08	07:23	07:39	07:54	08:26	08:49	09:15	
Weather	D	C	C	C	C	C	C	C	C	C	
Air Temp.	12.8	13.3	13.2	13.0	13.2	13.3	13.7	14.0	14.7	15.3	
Bar	1009.0	1009.0	1009.0	1009.0	1009.0	1008.9	1008.8	1008.7	1008.2	1008.2	
Wind Dir	NE	ENE	ENE	ENE	E	ESE	E	ESE	ESE	SE	
Wind Spd/F	S 2	S 3	S 4	S 3	S 2	S 2	S 2	S 3	S 2	S 1	
Transparency											
Depth	570	572	162	162	128	122	148	630	750	317	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	14.2	33.75*	14.3	33.86*	13.9	33.73*	12.8	34.20*	12.4	34.03*	12.7
10m	14.11	33.906	13.76	33.944	11.93	34.088	11.57	34.155	11.81	34.103	12.39
20m	12.29	34.143	12.84	34.010	10.81	34.243	10.38	34.167	10.38	34.211	10.65
30m	10.83	34.260	11.05	34.227	10.29	34.294	9.93	34.257	9.77	34.212	9.80
50m	9.01	34.234	9.08	34.202	8.72	34.231	8.62	34.221	8.30	34.191	8.47
75m	8.23	34.200	7.84	34.155	8.03	34.184	7.10	34.144	7.17	34.146	7.25
100m	7.02	34.145	6.81	34.132	6.04	34.110	5.84	34.107	6.01	34.107	6.10
125m	5.80	34.101	5.68	34.101	4.89	34.087	5.12	34.091			5.09
150m	4.74	34.089	4.44	34.085	4.44	34.079	5.07	34.085			34.090
200m	3.19	34.071	3.20	34.069							34.071
250m	2.14	34.069	2.17	34.069							34.065
300m	1.38	34.064	1.38	34.064							34.062
400m	0.75	34.061	0.75	34.060							34.060
500m	0.55	34.061	0.55	34.061							34.059
600m											34.060
700m											34.078
800m											34.066
900m											34.067
1000m											34.062

Table 3-19

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406		
Station No	CT115	CT116	CT121	CT120	CT119	CT118	CT117	CT122	CT123	CT124	CT124		
Latitude:N	42–45.0	42–45.0	42–44.0	42–44.0	42–44.1	42–44.0	42–44.0	42–43.0	42–43.0	42–43.0	42–43.0		
Longitude:E	140–1.0	140–3.1	140–4.0	140–1.9	140–0.0	139–58.0	139–56.0	139–57.0	139–59.2	140–1.2	140–1.2		
Date	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21	1994/06/21		
Time(JST)	09:33	09:47	10:00	10:14	10:30	10:46	11:03	11:44	12:02	12:16	12:16		
Weather	C	C	C	C	B	C	C	C	C	C	C		
Air Temp.	15.8	16.2	16.7	16.2	16.2	16.7	17.3	18.2	17.5	17.6	17.6		
Bar	1008.2	1008.1	1008.0	1008.0	1008.0	1008.0	1007.9	1007.8	1007.6	1007.6	1007.6		
Wind Dir	CALM	CALM	NNW	NNW	NW	CALM	E	ENE	N	NNW	NNW		
Wind Spd/F	S 0	S 0	S 1	S 3	S 2	S 0	S 1	S 1	S 1	S 1	S 1		
Transparency													
Depth	121	115	47	104	118	170	527	277	97	71	71		
Equipment	CTD												
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	
0m	12.7	34.35*	13.0	34.30*	13.3	34.06*	14.4	33.85*	14.4	33.92*	14.7	33.91*	
10m	11.94	34.058	12.26	34.078	12.81	34.053	13.11	34.019	13.20	34.035	13.47	34.012	
20m	11.00	34.151	11.24	34.159	11.33	34.137	11.41	34.176	11.47	34.177	12.72	34.089	
30m	10.45	34.223	10.56	34.179	10.54	34.161	10.52	34.182	10.81	34.182	11.58	34.185	
50m	8.37	34.165	8.34	34.171			8.73	34.182	9.21	34.195	9.46	34.204	
75m	6.57	34.128	6.95	34.130			7.39	34.137	7.19	34.137	7.71	34.159	
100m	5.93	34.099	6.12	34.101				6.14	34.110	6.28	34.122	6.83	34.132
125m									5.79	34.100	6.12	34.106	
150m										5.32	34.091	6.27	34.107
200m										3.83	34.081	4.31	34.074
250m										2.52	34.067		
300m										1.54	34.065		
400m										0.84	34.060		
500m													
600m													
700m													
800m													
900m													
1000m													

Table 3–20

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199407	199407
Station No	CT125	JS41	JS42	JS43	JS44	JS45	JS46	JS47	CIS301	CIS305
Latitude:N	42-43.0	42-30.0	42-30.0	42-30.0	42-30.0	42-29.9	42-29.9	42-29.8	43-15.1	43-20.0
Longitude:E	140- 3.1	139-40.1	139-20.0	139- 0.0	138-39.9	138-19.8	138- 0.0	137-29.6	141-15.5	141-10.0
Date	1994/06/21	1994/06/27	1994/06/27	1994/06/27	1994/06/27	1994/06/28	1994/06/28	1994/06/28	1994/07/04	1994/07/04
Time(JST)	12:30	18:35	20:20	22:00	23:50	01:25	03:03	05:25	10:38	20:15
Weather	C								B	C
Air Temp.	17.3								23.2	19.3
Bar	1007.6								1001.0	1002.3
Wind Dir	CALM									NW
Wind Spd/F	S 0	S	S	S	S	S	S	S	S	S 5
Transparency									20	
Depth	29								21	36
Equipment	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	14.1 34.28*	15.3 34.21*	15.8 34.22*	14.9 33.90*	14.4 33.92*	14.3 33.97*	14.8 34.03*	14.4 33.97*	17.5 33.97*	16.7 34.04*
10m	12.75 34.079	15.22 34.209	15.81 34.222	14.92 33.904	14.31 33.916	14.26 33.975	14.75 34.028	14.38 33.970	16.26 34.024	15.95 34.017
20m	12.56 34.094	15.01 34.211	15.72 34.227	12.25 34.099	12.26 34.087	14.26 33.975	11.47 34.256	14.38 33.970		15.52 34.081
30m		13.76 34.219	15.38 34.251	8.27 34.207	7.80 34.187	7.16 34.165	5.73 34.115	9.56 34.094		15.29 34.083
50m		11.12 34.282	10.20 34.391	5.46 34.115	6.11 34.123	3.57 34.087	3.36 34.084	5.50 34.090		
75m		8.15 34.211	6.03 34.114	4.21 34.085	4.03 34.086	2.34 34.072	2.54 34.080	4.00 34.086		
100m		6.49 34.141	4.91 34.096	3.22 34.073	2.84 34.072	1.77 34.075	1.99 34.076	3.12 34.071		
125m		5.27 34.098	4.07 34.079	2.64 34.065	2.32 34.066	1.34 34.059	1.61 34.067	2.55 34.076		
150m		4.54 34.088	3.34 34.067	2.25 34.063	1.82 34.060	1.26 34.066	1.44 34.067	2.22 34.074		
200m		2.67 34.072	2.33 34.058	1.49 34.058	1.28 34.058	1.16 34.069	1.18 34.064	1.54 34.069		
250m		1.75 34.065	1.58 34.060	1.05 34.057	1.19 34.070	1.07 34.070	0.95 34.063	1.04 34.059		
300m		1.22 34.060	1.14 34.057	0.80 34.057	0.95 34.067	0.86 34.063	0.75 34.062	0.87 34.061		
400m		0.70 34.058	0.68 34.056	0.55 34.059	0.63 34.061	0.54 34.062	0.54 34.062	0.63 34.060		
500m		0.49 34.058	0.47 34.056	0.43 34.061	0.48 34.062	0.44 34.061	0.42 34.061	0.47 34.060		
600m							0.36 34.060			
700m										
800m										
900m										
1000m										

Table 3-21

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	
Station No	CIS300	CIS302	CIS306	CIS303	CIS307	CIS310	CIS313	CIS316	CIS309	CIS312		
Latitude:N	43–20.0	43–25.0	43–30.0	43–35.1	43–40.0	43–35.0	43–30.0	43–25.0	43–25.0	43–20.0		
Longitude:E	141–20.0	141–14.9	141–10.0	141–12.9	141–9.8	141–5.0	140–59.9	140–54.9	141–5.1	141–0.1		
Date	1994/07/04	1994/07/04	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05		
Time(JST)	21:07	23:58	00:49	01:37	02:25	03:17	04:00	04:41	05:30	06:13		
Weather	C	C	C	R	R	R	C	C	R	C		
Air Temp.	19.5	19.0	18.5	18.2	17.7	17.4	17.3	17.5	17.9	17.9		
Bar	1002.6	1001.6	1001.5	1001.0	1001.0	1000.7	1001.0	1001.0	1001.5	1000.9		
Wind Dir	WNW	NW	ESE	ESE	NE	ESE	ESE	E	E	ENE		
Wind Spd/F	S 6	S 4	S 2	S 3	S 4	S 5	S 5	S 6	S 7	S 7		
Transparency								19	19	18		
Depth	21	40	57	59	83	89	93	84	59	49		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	18.6	33.84*	17.7	33.63*	16.2	33.69*	16.2	33.98*	17.6	32.70*	15.3	33.88*
10m	15.82	34.050	15.97	33.876	15.63	33.880	15.71	33.987	15.45	33.489	14.41	33.973
20m			14.75	34.062	11.87	34.156	10.60	34.073	15.11	33.970	10.70	34.061
30m			14.28	34.062	10.41	34.062	9.99	34.060	10.67	34.107	10.05	34.080
50m					9.59	34.121	9.89	34.041	8.68	34.128	9.37	34.228
75m							8.44	34.123	7.62	34.135	7.82	34.159
100m												
125m												
150m												
200m												
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 3-22

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407					
Station No	CIS308	CIS315	CIS318	CIS320	CIS322	CIS323	CIS321	CIS319	CIS317	CIS314						
Latitude:N	43–15.0	43–14.9	43–20.0	43–18.0	43–20.0	43–25.0	43–24.9	43–30.0	43–35.0	43–40.0						
Longitude:E	141–4.9	140–55.0	140–49.9	140–45.0	140–39.9	140–35.0	140–45.1	140–50.1	140–55.1	141–0.1						
Date	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05	1994/07/05						
Time(JST)	06:54	08:46	09:24	09:52	10:20	11:00	11:49	12:34	13:27	14:10						
Weather	R	C	C	C	C	R	C	C	C	BC						
Air Temp.	18.0	18.0	18.2	18.6	18.3	18.2	18.4	19.0	19.6	20.6						
Bar	1000.6	1001.3	1001.5	1001.4	1001.6	1001.6	1001.9	1002.4	1002.5	1002.7						
Wind Dir	E	ESE	E	ENE	E	SE	E	ENE	NE	NE						
Wind Spd/F	S 10	S 6	S 5	S 6	S 5	S 5	S 6	S 6	S 5	S 5						
Transparency	17	20	14	20	20	18	13	16	6	13						
Depth	28	37	80	74	105	185	156	470	125	307						
Equipment	CTD															
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S				
0m	17.1	33.93*	16.3	34.28*	16.4	33.52*	16.4	34.07*	16.1	34.08*	16.2	34.29*				
10m	16.76	33.968	15.78	34.082	16.08	33.641	16.13	34.077	15.90	34.077	15.95	34.066				
20m	16.31	34.029	15.76	34.086	15.60	33.745	15.88	34.091	15.82	34.071	15.93	34.066				
30m			15.72	34.084	13.80	33.810	15.84	34.102	15.79	34.074	15.93	34.066				
50m					9.85	34.040	14.23	34.102	11.95	34.143	12.20	34.224				
75m						8.64	34.192		8.99	34.225	9.29	34.251				
100m								6.38	34.126	7.60	34.167					
125m									5.84	34.110	6.35	34.115				
150m									5.43	34.098	5.94	34.098				
200m											4.73	34.077				
250m												2.72	34.075			
300m													1.71	34.064		
400m														1.27	34.057	
500m															0.79	34.059
600m																
700m																
800m																
900m																
1000m																

Table 3–23

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407		
Station No	CIS311	CIS304	CIM101	CIM102	CIM103	CIM105	CIM106	CMI107	CIM113	CIM111			
Latitude:N	43–45.0	43–45.0	43–30.0	43–30.0	43–30.1	44– 0.1	44– 0.1	44–25.0	43–30.0	45– 0.0			
Longitude:E	141– 5.1	141–15.1	140–29.9	139–59.9	139–30.0	140– 0.0	140–30.0	140–30.0	140–29.9	140– 0.0			
Date	1994/07/05	1994/07/05	1994/07/11	1994/07/11	1994/07/11	1994/07/12	1994/07/13	1994/07/13	1994/07/15	1994/07/16			
Time(JST)	14:58	15:50	12:20	14:47	17:26	17:29	14:09	16:59	17:56	15:22			
Weather	BC	BC											
Air Temp.	21.1	21.8											
Bar	1002.6	1002.8											
Wind Dir	NNE	N											
Wind Spd/F	S 6	S 7	S	S	S	S	S	S	S	S	S		
Transparency	20	8											
Depth	275	113											
Equipment	CTD	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	
0m	16.4	33.97*	17.3	33.06*	16.8*	34.12*	16.6*	34.22*	17.3	34.03*	17.2	34.02*	
10m	15.92	33.981	16.25	33.982	16.82	34.028	16.51	34.003	17.15	34.031	16.81	34.002	
20m	15.86	33.985	14.93	34.047	16.81	34.031	16.40	33.996	12.50	34.343	12.53	34.085	
30m	12.21	34.027	12.04	33.999	16.62	34.041	15.85	34.006	10.10	34.328	9.70	34.135	
50m	9.95	34.033	10.75	34.007	11.22	34.276	9.46	34.126	7.17	34.070	6.86	34.155	
75m	8.64	34.176	9.58	34.136	8.95	34.228	5.50	34.113	6.03	34.046	5.06	34.095	
100m	7.19	34.149	8.09	34.162	7.54	34.160	4.13	34.084	5.41	34.055	4.06	34.083	
125m	6.01	34.100			6.32	34.125	3.11	34.079	4.99	34.082	3.31	34.073	
150m	5.01	34.085			5.02	34.088	2.51	34.071	4.16	34.069	2.71	34.073	
200m	3.34	34.075			3.93	34.074	1.55	34.061	2.61	34.070	1.72	34.059	
250m	2.19	34.062			2.06	34.062	1.18	34.064	1.57	34.061	1.31	34.057	
300m					1.27	34.059	0.87	34.058	1.14	34.058	0.98	34.057	
400m					0.78	34.057	0.63	34.058	0.77	34.058	0.63	34.057	
500m					0.59	34.057	0.48	34.058	0.53	34.057		0.54	34.055
600m													
700m													
800m													
900m													
1000m													

Table 3–24

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199408	199408	199408	199408
Station No	CIM109	CIM115	CIM116	CIS01	CIS02	CIS03	J31	J32	J33	J34
Latitude:N	44–30.0	44–0.1	43–31.1	43–12.7	43–21.6	43–25.9	43–20.0	43–30.0	43–30.0	43–29.9
Longitude:E	139–29.9	140–59.8	140–49.7	141–13.6	141–12.6	140–38.3	141–10.0	141–0.0	140–39.9	140–20.0
Date	1994/07/17	1994/07/18	1994/07/19	1994/07/26	1994/07/26	1994/07/26	1994/08/01	1994/08/01	1994/08/01	1994/08/01
Time(JST)	17:40	17:58	18:01	15:32	16:50	19:15	10:26	11:39	13:07	14:47
Weather				BC	C	C	C	C	C	F
Air Temp.				23.0	22.4	20.9	27.1	25.0	25.1	23.9
Bar				1003.9	1004.0	1004.0	1006.7	1006.4	1005.7	1005.7
Wind Dir				NW	NNW	W	ESE	SW	SW	SW
Wind Spd/F	S	S	S	S 5	S 5	S 5	S 2	S 4	S 9	S 9
Transparency				19	35	432	36	92	695	642
Depth										
Equipment	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	17.2 33.94*	17.8 33.68*	18.8 34.03*	21.0 33.99*	21.1 34.03*	20.8 34.05*	21.9 33.924	21.3 33.795	21.6 33.881	22.2 34.157
10m	16.23 33.975	16.82 33.736	18.40 34.037	18.17 34.147	17.91 34.119	20.42 34.054	18.02 34.163	20.27 33.784	20.36 33.827	19.70 34.103
20m	15.92 33.951	16.57 33.726	17.80 34.081		16.56 34.100	18.55 34.081	17.11 34.121	17.49 33.825	18.56 33.980	16.86 34.137
30m	11.32 34.126	16.33 33.732	17.27 34.054		15.66 34.119	17.27 34.058	15.09 34.172	16.67 33.988	16.54 34.004	13.80 34.198
50m	6.78 34.147	13.04 33.974	15.67 34.085			14.66 34.142		12.41 34.074	11.55 34.060	9.94 34.296
75m	5.19 34.094	10.46 34.101	10.52 34.293			10.31 34.279		8.49 34.230	9.67 34.172	8.12 34.218
100m	4.01 34.077	8.39 34.102	8.70 34.212			8.57 34.206			8.03 34.186	7.37 34.183
125m	3.19 34.070	7.31 34.130	7.29 34.113			7.11 34.146			6.76 34.152	6.06 34.151
150m	2.38 34.064	6.08 34.100	5.60 34.102			6.07 34.102			5.61 34.119	4.79 34.110
200m	1.73 34.067	4.49 34.075	3.22 34.070			3.91 34.079			2.32 34.101	3.22 34.093
250m	1.14 34.054	3.05 34.067	1.95 34.060			2.06 34.068			1.46 34.081	1.93 34.088
300m	0.87 34.054	1.59 34.059	1.35 34.055			1.36 34.059			1.07 34.078	1.20 34.081
400m	0.58 34.053		0.74 34.052			0.86 34.057			0.72 34.077	0.71 34.077
500m									0.58 34.077	0.53 34.077
600m										
700m										
800m										
900m										
1000m										

Table 3–25

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	J35	J36	J37	J38	J39	J41	J42	J43	J44	J45	
Latitude:N	43-30.0	43-30.0	43-30.0	43-30.1	43-30.1	42-30.0	42-30.0	42-30.0	42-30.0	42-30.0	42-30.0
Longitude:E	139-59.9	139-40.0	139-20.0	139-0.0	138-29.9	139-40.0	139-20.0	138-59.9	138-39.9	138-19.9	
Date	1994/08/01	1994/08/01	1994/08/01	1994/08/01	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02
Time(JST)	16:34	18:42	20:22	22:00	00:52	08:22	10:41	12:16	13:58	15:35	
Weather	F	F	D	F	F	C	C	C	R	R	
Air Temp.	23.6	23.4	23.6	23.6	22.8	23.8	24.2	24.5	24.1	23.7	
Bar	1005.6	1006.0	1006.0	1005.8	1004.7	1006.6	1005.3	1004.0	1002.5	1001.3	
Wind Dir	SSW	SW	SSW	SW	SW	S	SE	SE	SE	E	
Wind Spd/F	S 6	S 8	S 9	S 6	S 5	S 8	S 7	S 5	S 7	S 8	
Transparency											
Depth	2247	2085	3250		3413	1838	3300	2419		3656	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	22.8	34.237	22.4	34.171	23.5	34.182	23.7	34.160	22.0	33.942	23.3
10m	22.65	34.237	22.33	34.173	23.16	34.217	23.66	34.157	20.36	34.031	20.79
20m	19.00	34.146	18.13	34.175	19.43	34.301	18.04	34.350	18.28	34.078	17.33
30m	12.34	34.424	16.89	34.202	16.27	34.423	11.84	34.367	10.03	34.231	12.87
50m	9.90	34.349	12.14	34.337	11.64	34.360	9.60	34.374	6.19	34.165	9.78
75m	8.19	34.243	9.66	34.325	9.54	34.328	7.91	34.223	3.94	34.108	8.41
100m	6.67	34.167	8.07	34.218	8.43	34.247	6.08	34.140	2.97	34.093	6.99
125m	5.14	34.113	6.83	34.165	6.66	34.156	5.00	34.107	2.51	34.088	5.92
150m	3.94	34.098	5.65	34.127	5.44	34.121	4.08	34.105	1.98	34.089	4.71
200m	2.67	34.088	3.75	34.099	3.55	34.098	2.53	34.087	1.37	34.086	3.71
250m	1.65	34.085	2.68	34.089	2.45	34.091	1.58	34.081	1.19	34.092	2.41
300m	1.18	34.081	1.73	34.081	1.62	34.085	1.09	34.079	1.00	34.088	1.35
400m	0.76	34.080	0.95	34.080	1.00	34.078	0.66	34.077	0.61	34.080	0.72
500m	0.53	34.079	0.65	34.078	0.72	34.080	0.49	34.078	0.46	34.080	0.48
600m	0.42	34.077			0.72	34.080	0.49	34.078	0.46	34.080	0.48
700m							0.39	34.079		0.36	34.075
800m											
900m											
1000m											

Table 3-26

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408		199408		199408		199408		199408		199408		199408		199408	
Station No	J46		J47		J58		J57		J56		J55		J54		J53	
Latitude:N	42-29.9		42-30.0		41-30.0		41-30.0		41-30.1		41-30.0		41-30.0		41-30.3	
Longitude:E	137-59.9		137-30.0		137-30.0		138-0.0		138-20.0		138-40.0		139-0.0		139-15.0	
Date	1994/08/02	1994/08/02	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03
Time(JST)	17:11	20:02	01:52	04:17	06:00	07:41	09:24	10:44	12:06	15:56						
Weather	R	C	F	F	C	C	C	C	C	F						
Air Temp.	23.4	22.8	22.7	22.8	23.1	23.6	24.7	25.4	26.2	24.1						
Bar	1001.1	1003.8	1005.7	1005.7	1006.3	1006.7	1007.0	1006.7	1016.2	1006.3						
Wind Dir	E	NNW	W	W	W	W	WSW	SW	WSW	SW						
Wind Spd/F	S 6	S 4	S 6	S 5	S 4	S 2	S 1	S 5	S 7	S 7						
Transparency																
Depth		3680		3695		3695		3073		1341		1134		1658		500
Equipment	CTD															
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S
0m	23.2	33.874	22.1	33.875	23.0	34.036	23.3	33.671	23.6	33.693	23.5	33.698	24.0	33.984	24.4	33.973
10m	18.99	33.945	21.61	33.902	19.76	33.879	20.13	33.902	23.43	33.708	23.42	33.704	24.01	33.986	23.24	34.033
20m	14.75	34.059	13.48	34.062	12.69	34.022	14.52	34.037	15.82	33.988	14.42	34.211	16.85	33.978	17.08	34.147
30m	8.62	34.150	8.01	34.156	7.22	34.132	7.39	34.195	9.02	34.148	7.29	34.209	9.68	34.143	9.60	34.157
50m	5.01	34.135	3.80	34.151	4.02	34.125	3.71	34.131	3.66	34.136	3.98	34.120	3.94	34.163	4.92	34.156
75m	3.37	34.116	2.57	34.113	2.89	34.110	2.63	34.117	2.32	34.119	2.33	34.104	2.64	34.106	3.08	34.109
100m	2.54	34.107	2.02	34.103	2.27	34.111	2.23	34.114	1.73	34.107	1.94	34.091	2.15	34.090	2.24	34.098
125m	1.98	34.093	1.68	34.093	1.82	34.097	1.86	34.106	1.39	34.095	1.51	34.087	1.65	34.095	1.83	34.085
150m	1.60	34.090	1.48	34.091	1.41	34.083	1.59	34.093	1.24	34.090	1.28	34.083	1.36	34.089	1.46	34.081
200m	1.21	34.087	1.12	34.085	1.21	34.089	1.25	34.088	1.07	34.089	1.18	34.086	0.96	34.080	1.04	34.076
250m	0.94	34.084	0.91	34.083	1.00	34.087	1.10	34.090	0.90	34.085	0.96	34.082	0.70	34.080	0.78	34.074
300m	0.78	34.083	0.72	34.083	0.81	34.085	0.87	34.084	0.74	34.083	0.83	34.080	0.59	34.079	0.61	34.075
400m	0.56	34.083	0.53	34.081	0.59	34.083	0.60	34.083	0.54	34.082	0.57	34.082	0.41	34.074	0.44	34.074
500m	0.43	34.082	0.42	34.081	0.45	34.082	0.48	34.082	0.43	34.081	0.44	34.081	0.33	34.076	0.34	34.075
600m	0.37	34.081														
700m																
800m																
900m																
1000m																

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	
Station No	J62	J61	J51	JC15	JC14	JC13	JC12	JC11	CE03	CE05		
Latitude:N	41–10.0	41–20.1	41–30.0	43– 0.0	43– 0.0	43– 0.0	43– 0.0	43– 0.0	43–23.3	43–23.5		
Longitude:E	140– 0.0	140– 0.0	139–50.0	139– 0.0	139–20.0	139–40.0	140– 0.0	140–20.0	140–39.9	140–39.8		
Date	1994/08/03	1994/08/03	1994/08/03	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/29	1994/08/30		
Time(JST)	17:10	18:07	19:39	04:37	06:16	07:54	09:30	11:08	18:32	05:39		
Weather	C	C	C	C	BC	C	C	C	C	B		
Air Temp.	24.4	24.1	24.4	23.9	23.7	24.1	24.7	25.0	24.3	22.7		
Bar	1005.6	1005.7	1005.8	1000.2	1001.0	1002.2	1002.1	1003.3	1016.1	1015.3		
Wind Dir	SW	SSW	SSW	SW	WSW	SW	SW	SW	CALM	SE		
Wind Spd/F	S 6	S 6	S 6	S 10	S 8	S 6	S 8	S 7	S 0	S 1		
Transparency												
Depth	105	216	1365	3543	2326	3356	1288	466	319	328		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S		
0m	24.5	34.015	23.6	33.908	24.4	33.983	23.6	34.151	22.4	34.163	22.6	34.210
10m	24.50	34.013	19.86	34.294	22.05	34.139	23.49	34.165	22.34	34.158	22.46	34.209
20m	23.90	34.081	18.72	34.320	19.26	34.359	19.24	34.191	17.81	34.214	18.27	34.171
30m	18.38	34.565	15.80	34.570	14.76	34.527	15.42	34.397	13.62	34.374	16.32	34.340
50m	12.73	34.518	13.31	34.490	11.49	34.507	7.49	34.103	10.50	34.379	10.97	34.363
75m	10.27	34.306	10.69	34.365	8.87	34.275	4.86	34.126	8.15	34.255	9.05	34.288
100m	9.80	34.257	9.78	34.302	7.24	34.187	3.62	34.090	6.99	34.193	7.02	34.148
125m			9.43	34.285	5.51	34.132	2.58	34.089	5.87	34.141	6.13	34.096
150m			9.13	34.271	4.61	34.096	1.98	34.092	5.05	34.120	5.30	34.114
200m			8.34	34.229	3.08	34.084	1.40	34.077	3.73	34.094	3.50	34.096
250m					1.85	34.084	1.02	34.076	2.48	34.083	2.25	34.087
300m						1.27	34.083	0.80	34.075	1.53	34.080	
400m							0.91	34.083	0.55	34.078	0.82	34.079
500m								0.61	34.081	0.44	34.081	
600m									0.54	34.077	0.67	34.080
700m										0.39	34.077	
800m												
900m												
1000m												

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199409	199409	199409	199409	199409	199409	199409	199409	199409
Station No	CE07	CE08	CT102	CT101	CT103	CT104	CT105	CT108	CT107	CT106	
Latitude:N	43–23.5	43–24.0	42–49.0	42–49.0	42–48.0	42–47.9	42–47.9	42–47.0	42–47.0	42–47.0	
Longitude:E	140–39.8	140–39.8	140–2.9	140–1.0	140–0.0	140–2.0	140–4.0	140–2.9	140–1.0	139–58.9	
Date	1994/08/30	1994/08/31	1994/09/05	1994/09/05	1994/09/05	1994/09/05	1994/09/05	1994/09/05	1994/09/05	1994/09/05	1994/09/06
Time(JST)	18:59	18:53	21:49	22:09	22:31	23:00	23:20	23:36	23:51		00:10
Weather	BC	C	BC								
Air Temp.	23.9	24.1	24.0	24.3	24.4	24.4	23.9	23.7	23.9	24.4	
Bar	1014.0	1009.3	1006.5	1006.5	1006.0	1006.0	1006.0	1006.0	1006.0	1006.0	1005.5
Wind Dir	N	NNW	SE								
Wind Spd/F	S 2	S 3	S 9	S 7	S 6	S 7	S 9	S 10	S 6	S 7	
Transparency											
Depth	324	363	325	393	534	286	142	164	180	484	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	23.7	34.05*	24.2	33.80*	24.7	33.99*	25.0	33.94*	25.0	33.96*	24.8
10m	23.45	34.052	23.41	33.905	24.73	33.999	24.96	33.968	25.12	33.959	24.89
20m	23.24	34.032	22.95	34.068	24.17	34.002	24.24	33.985	24.44	33.967	24.22
30m	21.29	34.116	18.31	34.230	23.43	34.040	23.78	34.030	23.73	34.044	22.56
50m	11.36	34.322	12.10	34.365	13.75	34.558	13.61	34.541	13.01	34.536	13.05
75m	8.41	34.262	8.96	34.237	9.25	34.349	9.70	34.344	9.55	34.359	9.30
100m	6.70	34.180	6.78	34.176	7.24	34.217	7.55	34.240	7.28	34.221	7.18
125m	5.19	34.122	5.47	34.128	5.84	34.148	5.87	34.154	5.84	34.160	6.10
150m	3.53	34.109	3.79	34.123	4.90	34.113	4.66	34.111	5.06	34.122	5.38
200m	2.25	34.091	2.30	34.090	2.89	34.099	2.84	34.094	3.04	34.092	2.86
250m	1.50	34.088	1.50	34.087	1.74	34.088	1.71	34.085	1.80	34.086	1.48
300m	1.02	34.082	1.09	34.083	0.94	34.082	1.12	34.081	1.16	34.083	
400m							0.65	34.078			
500m							0.49	34.077			
600m											
700m											
800m											
900m											
1000m											

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199409	199409	199409	199409	199409	199409	199409	199409	199409	199409	199409
Station No	CT109	CT110	CT111	CT112	CT116	CT115	CT114	CT113	CT117	CT118	
Latitude:N	42–46.0	42–46.1	42–46.1	42–46.1	42–45.0	42–45.1	42–45.0	42–45.0	42–44.0	42–43.9	
Longitude:E	139–58.0	139–59.9	140–1.9	140–3.9	140–2.9	140–0.9	139–58.9	139–57.0	139–55.9	139–58.0	
Date	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06
Time(JST)	00:37	01:05	01:26	01:46	02:03	02:20	02:37	03:00	03:29	03:57	
Weather	BC										
Air Temp.	24.3	24.9	24.4	24.1	23.9	24.1	24.3	24.9	24.8	24.8	
Bar	1005.5	1005.0	1005.0	1005.0	1005.0	1004.7	1005.0	1004.5	1004.4	1004.4	
Wind Dir	SE	ESE	E	E							
Wind Spd/F	S 7	S 7	S 9	S 8	S 7	S 8	S 8	S 7	S 6	S 7	
Transparency											
Depth	465	165	122	129	117	123	379	786	465	153	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	25.2	33.93*	24.8	33.97*	24.3	33.97*	24.3	33.90*	24.4	33.96*	24.6
10m	24.90	33.946	24.77	33.975	24.39	33.969	24.36	33.914	24.29	33.951	24.53
20m	24.57	33.958	24.33	33.972	23.91	34.015	23.65	34.034	23.59	34.026	24.19
30m	21.09	34.165	17.89	34.334	19.26	34.278	18.81	34.323	18.39	34.306	19.53
50m	13.74	34.523	13.79	34.504	13.17	34.489	12.62	34.469	12.45	34.463	12.68
75m	9.26	34.341	9.78	34.360	10.39	34.379	10.61	34.397	10.64	34.405	10.48
100m	8.04	34.251	8.37	34.266	7.92	34.264	7.45	34.213	7.91	34.229	8.26
125m	6.22	34.171	7.10	34.196							6.83
150m	4.89	34.123	4.35	34.130							4.80
200m	2.99	34.099									3.34
250m	1.76	34.087									1.73
300m	1.18	34.083									1.04
400m	0.66	34.079									0.63
500m											0.43
600m											0.36
700m											
800m											
900m											
1000m											

Table 3–30

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199409	199409	199409	199409	199409	199409	199409	199409	199409	199409	199409
Station No	CT119	CT120	CT121	CT125	CT124	CT123	CT122	CS15	CS07	CS09	
Latitude:N	42–44.0	42–44.0	42–44.0	42–43.0	42–43.0	42–43.0	42–43.0	44– 0.0	44–26.3	44–29.9	
Longitude:E	140– 0.0	140– 2.0	140– 3.9	140– 3.0	140– 0.9	139–58.9	139–57.1	140–59.8	140–28.3	139–29.7	
Date	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/06	1994/09/21	1994/09/22	1994/09/24	
Time(JST)	04:16	04:35	04:54	05:08	05:25	05:42	06:02	18:57	17:28	16:24	
Weather	BC	C	C	BC							
Air Temp.	24.7	24.4	24.0	23.9	24.6	25.0	25.3	18.7	18.9	21.9	
Bar	1004.0	1004.0	1003.7	1003.6	1004.0	1003.5	1003.5	1012.0	1015.0	1011.5	
Wind Dir	ESE	SE	SE	SE	SE	SE	SE	E	E	E	
Wind Spd/F	S 8	S 9	S 9	S 9	S 8	S 10	S 9	S 9	S 9	S 3	
Transparency											
Depth	115	100	56	34	81	103	214	400	225	537	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	24.2	33.93*	24.2	33.93*	24.2	33.76*	24.3	33.85*	24.4	33.94*	24.5
10m	24.26	33.933	24.28	33.943	24.14	33.930	24.30	33.911	24.46	33.950	24.59
20m	24.19	33.968	23.92	34.003	23.95	33.999	24.12	33.972	24.17	33.974	24.51
30m	20.31	34.260	22.76	34.071	21.34	34.157			22.70	34.081	23.77
50m	12.78	34.482	12.75	34.454	13.32	34.426			12.79	34.484	14.53
75m	10.94	34.410	10.15	34.376					9.95	34.363	11.69
100m									11.69	34.412	11.86
125m										10.66	34.383
150m											6.18
200m											34.142
250m											8.53
300m											34.218
400m											2.82
500m											34.095
600m											2.31
700m											34.096
800m											1.82
900m											34.090
1000m											1.32
											34.084
											1.04
											34.080
											0.84
											34.078
											0.54
											34.075
											0.39
											34.073

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199409	199409	199409	199410	199410	199410	199410	199410	199410	199410	199410
Station No	CS05	CS03	CS16	J31	J32	J33	J34	J35	J36	J37	
Latitude:N	43–58.1	43–31.0	43–33.9	43–19.7	43–29.6	43–29.6	43–29.6	43–29.8	43–29.7	43–29.8	
Longitude:E	140–2.2	139–28.5	140–45.5	141–10.0	141–0.0	140–40.0	140–20.0	139–59.9	139–40.0	139–20.0	
Date	1994/09/25	1994/09/26	1994/09/27	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03
Time(JST)	17:37	17:35	17:36	09:58	11:11	12:40	14:20	15:59	18:05	19:41	
Weather	R	BC	BC	BC	BC	B	BC	BC	BC	BC	
Air Temp.	17.8	19.2	21.0	20.5	23.7	20.8	19.5	19.0	18.5	18.3	
Bar	1001.5	1013.5	1013.5	1019.5	1019.5	1019.5	1019.5	1019.5	1020.3	1020.4	
Wind Dir	NNE	SSW	ESE	W	W	CALM	NE	CALM	SSE	S	
Wind Spd/F	S 11	S 7	S 10	S 1	S 1	S 0	S 1	S 0	S 1	S 1	
Transparency											
Depth	347	2378	614	38	92	682	626	1238	1500	3086	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	20.4	34.07*	21.4	33.78*	21.9	33.81*	21.3	33.385	21.6	33.699	22.0
10m	20.42	34.069	21.35	33.778	21.87	33.809	21.31	33.740	21.29	33.685	21.74
20m	20.42	34.068	21.34	33.773	21.87	33.810	21.09	33.730	21.08	33.722	21.66
30m	20.43	34.077	18.89	34.024	21.15	33.866	20.88	33.708	21.03	33.753	21.62
50m	9.99	34.376	13.46	34.494	13.39	34.464			16.43	34.449	18.03
75m	6.62	34.195	9.73	34.341	9.49	34.341			11.68	34.432	13.67
100m	4.88	34.124	7.87	34.228	7.65	34.220					10.01
125m	3.62	34.096	6.74	34.163	5.79	34.123					8.19
150m	2.76	34.086	5.57	34.127	4.62	34.101					6.44
200m	1.85	34.082	3.55	34.092	3.01	34.089					3.57
250m	1.45	34.077	2.37	34.081	1.90	34.081					2.27
300m	1.27	34.076	1.70	34.080	1.35	34.078					1.76
400m			0.89	34.074	0.72	34.074					0.84
500m			0.58	34.072	0.55	34.073					0.67
600m											0.42
700m											
800m											
900m											
1000m											

Table 3–32

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	
Station No	J38	J39	J41	J42	J43	J44	J45	JC15	JC14	JC14	JC13	
Latitude:N	43-30.0	43-30.0	42-30.0	42-29.5	42-29.6	42-29.6	42-30.0	42-59.7	42-59.8	42-59.8	42-59.8	
Longitude:E	139-0.0	138-30.0	139-40.0	139-20.1	139-0.0	138-40.0	138-20.0	139-0.0	139-20.1	139-20.1	139-40.1	
Date	1994/10/03	1994/10/03	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/05	1994/10/05	1994/10/05	1994/10/05	
Time(JST)	21:15	23:54	07:36	09:58	11:40	13:17	17:04	15:43	17:32	19:12		
Weather	BC	BC	BC	BC	BC	BC	C	BC	BC	BC	BC	
Air Temp.	18.2	18.0	17.7	19.7	19.9	19.7	19.6	17.8	17.0	16.9		
Bar	1020.2	1020.2	1017.9	1016.6	1014.2	1012.6	1011.2	1011.2	1011.8	1012.6		
Wind Dir	S	SSE	ESE	ESE	SE	SE	SE	WSW	WSW	SW		
Wind Spd/F	S 3	S 2	S 12	S 10	S 14	S 13	S 13	S 10	S 8	S 7		
Transparency												
Depth	3400	3400	1960	3300					1430	2000		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	21.2	33.745	21.1	33.737	21.8	33.861	21.2	33.898	21.0	33.808	20.2	33.668
10m	21.24	33.732	21.11	33.719	20.80	33.846	21.16	33.884	20.93	33.788	20.16	33.653
20m	21.13	33.736	20.25	33.625	20.14	33.981	20.14	34.034	20.68	33.778	19.33	33.718
30m	18.27	34.240	11.70	34.383	17.24	34.369	16.33	34.522	18.78	33.868	7.00	34.183
50m	10.28	34.241	7.51	34.246	14.55	34.543	13.96	34.566	6.04	34.112	3.13	34.104
75m	6.91	34.198	4.73	34.119	12.33	34.526	11.54	34.472	3.52	34.107	2.32	34.094
100m	5.05	34.119	3.60	34.096	10.57	34.374	5.98	34.186	2.54	34.093	1.83	34.091
125m	3.55	34.098	2.67	34.084	9.29	34.227	3.91	34.117	2.02	34.084	1.52	34.090
150m	2.80	34.090	2.14	34.082	7.40	34.197	2.88	34.092	1.63	34.079	1.34	34.088
200m	1.80	34.084	1.41	34.082	2.89	34.089	1.55	34.082	1.29	34.078	1.04	34.081
250m	1.31	34.078	1.02	34.080	1.64	34.080	1.11	34.081	1.11	34.083	0.87	34.079
300m	1.02	34.079	0.82	34.079	1.27	34.081	0.98	34.081	0.93	34.082	0.71	34.081
400m	0.64	34.077	0.56	34.079	0.95	34.082	0.61	34.080	0.66	34.079	0.51	34.081
500m	0.46	34.077	0.43	34.079	0.63	34.079	0.48	34.079	0.48	34.080	0.42	34.080
600m	0.40	34.080			0.46	34.077						
700m												
800m												
900m												
1000m												

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410
Station No	JC12	JC11	CW011	CW102	CW03	CW04	CW050	CW25	CW22	CW23	
Latitude:N	42–59.6	42–59.6	43–25.0	43–24.6	43–24.7	43–24.7	43–24.7	43– 9.6	42–59.6	42–59.6	
Longitude:E	140– 0.1	140–20.1	141– 0.0	140–50.0	140–39.7	140–19.9	140– 0.2	139–59.9	139–59.9	140–20.2	
Date	1994/10/05	1994/10/05	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/12	
Time(JST)	20:53	22:31	10:24	11:08	12:03	13:51	15:24	19:43	23:35	01:13	
Weather	BC	BC	B	B	B	B	B	B	B	B	
Air Temp.	17.2	16.1	19.3	20.5	21.1	17.6	17.9	16.7	17.0	14.9	
Bar	1012.9	1012.8	1020.4	1020.0	1019.0	1018.7	1018.1	1018.1	1017.8	1017.7	
Wind Dir	WSW	SSE	S	SSE	SE	SW	SW	WSW	WSW	ESE	
Wind Spd/F	S 6	S 6	S 3	S 1	S 1	S 7	S 6	S 6	S 3	S 3	
Transparency											
Depth	1313	598	70	340	429	142	700	670	1286	600	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	21.0	33.629	21.1	33.739	20.0	33.84*	20.1	33.83*	20.1	33.88*	19.9
10m	20.97	33.616	21.16	33.726	19.90	33.845	19.94	33.841	19.85	33.839	19.99
20m	20.97	33.633	21.16	33.723	19.90	33.846	19.93	33.841	19.83	33.839	19.99
30m	20.52	33.752	21.11	33.765	19.85	33.848	19.92	33.842	19.84	33.843	19.96
50m	15.23	34.493	16.83	34.261	19.64	33.850	19.92	33.843	19.81	33.843	19.85
75m	12.66	34.510	14.49	34.482			13.66	34.500	13.43	34.505	13.78
100m	10.77	34.418	11.72	34.451			9.96	34.375	10.34	34.371	11.25
125m	8.50	34.257	9.54	34.337			8.32	34.266	8.48	34.257	9.54
150m	6.81	34.179	7.91	34.234			6.72	34.181	7.19	34.176	
200m	2.95	34.088	4.47	34.112			3.94	34.108	4.39	34.108	
250m	1.92	34.079	2.35	34.091			2.47	34.089	1.91	34.088	
300m	1.44	34.076	1.38	34.083			1.65	34.083	1.22	34.082	
400m	0.84	34.075	0.76	34.074			0.73	34.078			
500m	0.55	34.075	0.48	34.073							
600m											
700m											
800m											
900m											
1000m											

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	
Station No	CW24	CW21	CW119	CW90	CW91	CW116	CW17	CW14	CW15	CW13		
Latitude:N	42-59.6	42-59.4	42-59.6	42-54.0	43- 9.9	43-19.7	43-19.7	43-39.7	43-39.8	43-59.6		
Longitude:E	140-27.1	139-30.1	138-59.9	140-12.5	140- 4.5	139-29.8	139- 0.1	139-0.0	139-30.0	139- 0.1		
Date	1994/10/12	1994/10/12	1994/10/12	1994/10/15	1994/10/15	1994/10/15	1994/10/15	1994/10/15	1994/10/16	1994/10/16		
Time(JST)	02:03	06:17	08:51	07:03	10:42	18:59	21:25	23:27	01:59	07:12		
Weather	B	BC	C	BC	BC	C	C	C	C	C		
Air Temp.	12.3	16.1	18.6	13.3	17.1	14.7	14.2	15.2	15.6	14.5		
Bar	1017.8	1015.4	1014.2	1022.0	1021.5	1018.0	1015.1	1012.7	1011.8	1004.7		
Wind Dir	E	ENE	E	SE	WSW	SW	SW	SW	SW	SSW		
Wind Spd/F	S 7	S 2	S 5	S 3	S 6	S 13	S 12	S 12	S 12	S 12		
Transparency	71	3300	3500	229	284	3200	2800	3400				
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	19.6	33.54*	18.4	33.74*	18.6	33.74*	19.3	33.92*	19.4	33.83*	17.6	33.64*
10m	19.71	33.573	18.35	33.741	18.44	33.737	19.31	33.928	19.32	33.912	17.48	33.814
20m	19.95	33.744	18.34	33.741	18.44	33.736	19.32	33.928	19.31	33.913	17.48	33.814
30m	19.44	33.934	18.18	33.736	17.98	33.787	19.32	33.930	19.31	33.913	16.80	34.028
50m	15.01	34.438	8.70	34.183	5.98	34.202	18.55	34.003	19.25	33.932	12.98	34.121
75m			4.04	34.106	4.02	34.120	13.49	34.501	13.99	34.575	5.71	34.124
100m			2.84	34.095	2.88	34.090	10.07	34.342	10.04	34.351	4.07	34.098
125m			2.37	34.087	2.31	34.083	8.10	34.248	8.02	34.241	2.80	34.085
150m			1.96	34.083	1.81	34.081	6.86	34.196	4.01	34.140	2.25	34.078
200m			1.40	34.080	1.30	34.079			2.01	34.081	1.49	34.080
250m			1.16	34.078	1.14	34.081			1.60	34.075	1.10	34.075
300m			0.97	34.080	0.98	34.080					0.90	34.074
400m			0.58	34.074	0.69	34.078					0.60	34.073
500m			0.43	34.074	0.52	34.079					0.46	34.075
600m			0.35	34.074	0.41	34.078					0.37	34.075
700m												
800m												
900m												
1000m												

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410		
Station No	CW12	CW11	CW08	CW07	CW92	CW06	CW09	CW10	CSM01	CSM02			
Latitude:N	43–59.5	43–59.5	43–59.7	43–59.8	43–24.5	43–39.7	43–39.5	43–39.7	40–29.5	40–29.6			
Longitude:E	139–30.2	140–0.1	140–30.1	141–0.2	140–37.1	141–0.2	140–30.1	140–0.1	138–30.2	139–0.1			
Date	1994/10/16	1994/10/16	1994/10/16	1994/10/16	1994/10/18	1994/10/18	1994/10/19	1994/10/19	1994/10/25	1994/10/25			
Time(JST)	09:17	11:27	13:38	15:50	11:36	21:13	00:08	03:35	07:34	10:31			
Weather	C	C	C	BC	C	BC	C	C	C	BC			
Air Temp.	14.2	14.2	13.9	13.6	12.9	13.7	13.5	13.6	13.5	14.5			
Bar	1002.2	997.0	997.8	999.0	1018.0	1017.2	1016.5	1015.0	1028.2	1028.9			
Wind Dir	SW	SW	WNW	WNW	W	WSW	WSW	SW	NE	ENE			
Wind Spd/F	S 14	S 16	S 14	S 16	S 6	S 8	S 9	S 11	S 2	S 4			
Transparency													
Depth	1400	400	742	411	288	269	809	1400	999	999			
Equipment	CTD												
STND. Dep	T	S	T	S	T	S	T	S	T	S			
0m	17.4	33.78*	15.3	34.02*	13.9	34.07*	15.5	34.09*	18.4	33.96*	17.8	33.99*	
10m	17.30	34.069	15.13	34.030	13.74	34.064	15.41	34.127	18.37	33.956	17.77	33.998	
20m	17.30	34.073	14.84	34.051	13.73	34.063	15.33	34.125	18.36	33.955	16.65	34.126	
30m	17.30	34.073	14.55	34.061	13.61	34.062	15.28	34.124	18.35	33.957	15.73	34.074	
50m	17.15	34.094	12.69	34.150	9.19	34.232	13.49	34.243	18.13	33.984	14.95	34.074	
75m	11.44	34.458	10.15	34.306	6.32	34.157	8.48	34.252	14.44	34.376	13.53	34.101	
100m	10.01	34.354	7.58	34.207	5.20	34.111	7.14	34.180	10.07	34.377	8.38	34.253	
125m	7.92	34.219	6.36	34.148	4.09	34.093	5.60	34.129	7.63	34.233	7.27	34.183	
150m	6.49	34.152	4.73	34.112	3.46	34.084	4.63	34.108	6.03	34.151	5.80	34.133	
200m	4.50	34.100	2.74	34.086	1.95	34.085	2.98	34.083	2.55	34.092	3.41	34.084	
250m	3.13	34.080	1.54	34.084	1.30	34.077	2.01	34.083	1.62	34.078		2.99	34.084
300m	2.17	34.079	1.03	34.076	1.01	34.074	1.34	34.077			1.87	34.077	
400m	1.20	34.079			0.66	34.073					0.98	34.074	
500m	0.72	34.077			0.48	34.073					0.60	34.073	
600m	0.47	34.074			0.43	34.073					0.48	34.072	
700m													
800m													
900m													
1000m													

Table 3–36

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410		199410		199410		199410		199410		199410		199410		199410	
Station No	CSM03	CSM04	CSM05	CSM06	CSM07	CSM08	CSM09	CSM10	CSM11	CSM12						
Latitude:N	40–44.6	40–59.5	40–59.6	41– 6.6	40–59.7	41–30.2	41–29.6	41–14.5	41–29.6	41–44.6						
Longitude:E	139–30.1	140– 0.2	139–30.0	139– 0.0	138–29.9	138–29.9	139– 0.2	139–30.0	139–29.9	139–50.3						
Date	1994/10/25	1994/10/25	1994/10/25	1994/10/26	1994/10/26	1994/10/26	1994/10/26	1994/10/26	1994/10/26	1994/10/27						
Time(JST)	14:06	17:37	19:47	06:37	09:24	11:56	14:30	17:54	19:34	12:06						
Weather	B	BC	BC	BC	C	C	C	C	R	BC						
Air Temp.	18.2	15.1	14.7	17.1	17.0	18.4	17.5	18.0	16.8	18.0						
Bar	1026.3	1025.5	1025.5	1023.2	1023.2	1021.7	1021.0	1020.8	1020.4	1022.4						
Wind Dir	ENE	ENE	ENE	SE	SSE	SSE	SE	SE	SSE	WNW						
Wind Spd/F	S 2	S 6	S 4	S 5	S 4	S 4	S 6	S 6	S 9	S 2						
Transparency	999		505		999		999		999		999		999		999	
Equipment	CTD		CTD		CTD		CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S
0m	20.9	33.57*	20.6	33.60*	21.0	33.60*	20.9	33.58*	18.7	33.78*	18.6	33.80*	20.6	33.57*	21.1	33.54*
10m	20.79	33.570	20.95	33.600	21.11	33.597	20.83	33.579	18.57	33.785	18.46	33.803	20.60	33.572	21.08	33.541
20m	20.76	33.570	20.95	33.599	21.09	33.598	20.85	33.578	17.92	33.896	18.11	33.835	20.61	33.574	21.08	33.541
30m	20.75	33.569	20.93	33.594	21.09	33.598	20.85	33.579	17.29	33.893	17.85	33.856	19.92	33.634	21.08	33.542
50m	20.75	33.572	20.94	33.597	21.11	33.598	20.85	33.583	14.56	34.256	12.08	34.462	19.28	33.714	21.04	33.558
75m	17.73	34.297	19.86	34.099	21.03	33.633	17.28	34.355	9.18	34.338	7.00	34.211	12.99	34.473	20.90	33.579
100m	15.34	34.518	16.12	34.439	16.32	34.480	14.60	34.584	5.66	34.156	4.17	34.114	9.59	34.352	16.85	34.420
125m	13.18	34.544	14.91	34.544	14.96	34.599	11.85	34.507	3.92	34.094	2.59	34.041	7.43	34.214	15.12	34.565
150m	9.12	34.344	11.35	34.481	12.77	34.613	9.89	34.371	2.81	34.078	2.08	34.052	5.50	34.121	12.51	34.535
200m	3.65	34.100	3.92	34.121	8.70	34.345	4.79	34.116	1.64	34.067	1.49	34.065	2.58	34.069	7.00	34.224
250m	1.85	34.078	1.85	34.072	2.70	34.098	1.92	34.059	1.15	34.070	1.18	34.072	1.44	34.073	3.13	34.094
300m	1.19	34.071	1.32	34.073	1.56	34.076	1.49	34.065	0.94	34.073	0.97	34.073	1.07	34.074	1.74	34.070
400m																
500m																
600m																
700m																
800m																
900m																
1000m																

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411	
Station No	J42	J41	CE01	CW01	CW02	CW03	CW04	CW05	CW25	CW22		
Latitude:N	42-29.7	42-29.7	43-22.5	43-24.7	43-24.5	43-24.7	43-24.7	43-24.7	43- 9.5	42-58.7		
Longitude:E	139-20.2	139-40.1	140-42.1	141- 0.1	140-50.1	140-39.9	140-20.0	140- 0.0	140- 0.1	139-59.8		
Date	1994/11/01	1994/11/01	1994/11/09	1994/11/15	1994/11/15	1994/11/15	1994/11/15	1994/11/15	1994/11/15	1994/11/15		
Time(JST)	13:19	15:00	15:56	10:24	11:23	12:24	14:08	15:43	17:24	21:18		
Weather	BC	BC	B	C	C	C	C	C	C	C		
Air Temp.	13.3	14.2	16.7	0.0	0.9	1.3	0.9	1.9	1.9	3.0		
Bar	1020.6	1027.0	1015.8	1035.0	1035.0	1035.0	1034.9	1034.8	1035.2	1036.5		
Wind Dir	WNW	WSW	S	NW	NNW	NNW	WNW	NW	WNW	WNW		
Wind Spd/F	S 2	S	S 8	S 7	S 8	S 8	S 5	S 4	S 5	S 5		
Transparency	19	16										
Depth	3304	1865	302	71	335	451	142	693	660	1346		
Equipment	CTD	STD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	18.5	34.077	16.7	34.077	15.3	34.03*	13.6	34.09*	13.6	34.09*	13.8	33.94*
10m	18.45	33.758	16.61	34.01	15.08	34.026	13.70	34.089	13.70	34.091	13.92	34.094
20m	18.28	33.774	16.59	34.01	15.09	34.026	13.71	34.089	13.70	34.091	13.92	34.094
30m	18.11	33.798	16.53	34.02	15.06	34.026	13.71	34.089	13.70	34.091	13.92	34.094
50m	15.40	34.385	16.02	34.21	15.01	34.042	13.72	34.088	13.59	34.090	13.86	34.092
75m	11.40	34.421	10.94	34.42	14.95	34.063			13.46	34.101	13.80	34.090
100m	7.49	34.237	8.86	34.30	14.76	34.072			9.22	34.267	13.77	34.091
125m	5.37	34.127	6.11	34.18	9.20	34.297			7.19	34.191	4.83	34.181
150m	3.71	34.084	4.51	34.12	6.61	34.182			4.14	34.120	3.04	34.099
200m	1.75	34.076	2.62	34.08	3.50	34.099			2.40	34.081	2.09	34.079
250m	1.41	34.075	1.56	34.08	1.79	34.078			1.70	34.075	1.55	34.074
300m	1.15	34.076	1.14	34.08	1.43	34.074			1.15	34.072	1.21	34.071
400m	0.72	34.076	0.71	34.07						0.68	34.070	
500m	0.50	34.075	0.52	34.07							0.50	34.070
600m	0.40	34.073	0.39	34.07							0.42	34.070
700m												
800m												
900m												
1000m												

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411
Station No	CW23	CW24	CT101	CT102	CT105	CT104	CT103	CT106	CT107	CT108	
Latitude:N	42-59.5	42-59.6	42-48.6	42-48.6	42-47.7	42-47.7	42-47.6	42-47.0	42-46.6	42-46.6	
Longitude:E	140-20.2	140-27.1	140- 1.1	140- 3.1	140- 4.2	140- 2.0	139-59.9	139-59.0	140- 1.1	140- 3.1	
Date	1994/11/15	1994/11/15	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16
Time(JST)	22:58	23:42	02:35	03:00	03:21	03:42	04:03	04:27	04:54	05:12	
Weather	C	C	C	BC							
Air Temp.	3.1	2.9	4.7	5.2	5.4	4.5	5.3	5.3	5.5	5.6	
Bar	1036.1	1036.1	1035.2	1034.9	1035.0	1035.0	1034.7	1034.5	1034.5	1034.5	1034.5
Wind Dir	WNW	W	WSW	W	W	W	WSW	WSW	WSW	WSW	WSW
Wind Spd/F	S 5	S 2	S 4	S 7	S 6	S 4	S 6	S 6	S 7	S 7	S 7
Transparency											
Depth	560	74	362	272	149	237	415	440	135	161	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	14.2	34.03*	13.8	32.98*	14.0	33.96*	14.2	34.03*	14.0	33.96*	13.8
10m	14.29	34.040	14.06	33.994	14.05	33.965	14.22	34.029	14.02	33.961	13.80
20m	14.27	34.049	14.07	33.996	14.02	33.956	14.23	34.029	14.05	33.960	13.81
30m	14.26	34.050	14.07	33.994	14.06	33.966	14.23	34.029	14.05	33.961	13.82
50m	14.14	34.070	14.11	34.014	14.11	33.984	14.22	34.027	13.77	33.908	13.81
75m	13.08	34.369			11.67	34.399	10.95	34.293	9.47	34.313	13.13
100m	8.94	34.297			9.12	34.306	8.04	34.240	7.88	34.230	9.32
125m	6.98	34.196			7.23	34.212	6.28	34.163			7.97
150m	5.88	34.151			5.71	34.146	4.70	34.124			6.56
200m	3.59	34.095			3.17	34.084	3.18	34.085			4.31
250m	2.09	34.090			2.05	34.076					4.53
300m	1.41	34.073			1.34	34.074					2.74
400m	0.77	34.071									1.87
500m	0.58	34.071									1.74
600m											1.05
700m											
800m											
900m											
1000m											

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Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411	
Station No	CT112	CT111	CT110	CT109	CT113	CT114	CT115	CT116	CT121	CT120		
Latitude:N	42–45.7	42–45.6	42–45.7	42–45.7	42–44.6	42–44.7	42–44.7	42–44.7	42–44.0	42–43.5		
Longitude:E	140–4.2	140–2.0	140–0.0	139–58.0	139–57.0	139–59.1	140–1.1	140–3.2	140–3.8	140–1.3		
Date	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16		
Time(JST)	05:31	05:49	06:24	06:40	07:04	07:34	07:51	08:07	08:19	08:35		
Weather	BC	B										
Air Temp.	5.1	5.2	6.2	6.6	6.9	7.0	7.4	6.4	6.9	8.6		
Bar	1034.6	1034.5	1034.4	1034.5	1034.6	1034.7	1034.8	1034.6	1034.7	1034.8		
Wind Dir	SSW	SW	WSW	WSW	WSW	WSW	WSW	S	S	SW		
Wind Spd/F	S 6	S 6	S 8	S 8	S 9	S 9	S 8	S 5	S 4	S 7		
Transparency												
Depth	126	121	137	440	714	197	117	110	66	98		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S		
0m	13.8	33.92*	13.8	33.25*	13.7	33.91*	14.4	34.01*	14.3	33.99*	14.2	33.87*
10m	13.85	33.927	13.74	33.918	13.77	33.918	14.35	34.017	14.41	34.012	14.34	34.017
20m	13.82	33.919	13.74	33.918	13.76	33.916	14.37	34.016	14.41	34.013	14.33	34.019
30m	13.71	33.896	13.75	33.920	13.77	33.917	14.36	34.017	14.41	34.013	14.32	34.022
50m	13.70	33.894	13.69	33.959	13.78	33.916	14.33	34.026	14.42	34.013	14.26	34.026
75m	10.58	34.357	11.08	34.410	12.46	34.397	12.35	34.361	12.12	34.469	12.05	34.334
100m	8.86	34.271	8.88	34.262	9.08	34.285	9.49	34.320	9.23	34.286	8.38	34.258
125m						7.79	34.225	7.19	34.207	6.94	34.193	
150m						6.11	34.158	6.25	34.159	6.16	34.160	
200m						4.12	34.107	4.36	34.108			
250m						2.49	34.074	2.30	34.080			
300m						1.81	34.072	1.75	34.073			
400m						0.91	34.073	0.93	34.075			
500m							0.50	34.070				
600m							0.37	34.070				
700m												
800m												
900m												
1000m												

Table 3-40

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411	199411	
Station No	CT119	CT118	CT117	CT122	CT123	CT124	CT125	CT126	CW27	CW28		
Latitude:N	42–43.6	42–43.6	42–43.6	42–42.6	42–42.6	42–42.6	42–42.7	42–46.6	43–23.8	43–24.9		
Longitude:E	140–0.1	139–58.1	139–56.0	139–57.0	139–59.1	140–1.2	140–2.6	140–0.0	140–49.7	140–50.7		
Date	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/16	1994/11/17	1994/11/17		
Time(JST)	08:48	09:04	09:20	09:44	10:00	10:13	10:25	11:48	07:09	12:30		
Weather	B	B	BC	BC	BC	B	B	BC	BC	C		
Air Temp.	8.7	8.8	8.8	7.6	7.4	7.4	7.6	8.9	9.7	11.5		
Bar	1034.5	1034.5	1034.9	1034.5	1034.4	1034.5	1034.5	1033.3	1027.7	1026.3		
Wind Dir	WSW	SW	SW									
Wind Spd/F	S 10	S 11	S 10	S 9	S 10	S 9	S 8	S 9	S 7	S 6		
Transparency												
Depth	100	123	430	115	86	60	30	217	256	261		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S		
0m	14.2	34.02*	14.2	33.87*	14.3	33.85*	13.9	33.61*	14.1	33.89*	13.9	33.82*
10m	14.32	34.021	14.39	34.016	14.37	34.016	14.12	33.975	14.29	34.019	14.06	33.974
20m	14.32	34.021	14.39	34.008	14.37	34.017	14.13	33.979	14.27	34.016	14.04	33.975
30m	14.32	34.021	14.39	34.017	14.37	34.018	14.13	33.979	14.27	34.017	13.95	33.981
50m	14.21	34.015	14.39	34.019	14.38	34.017	14.10	33.990	14.03	33.988	13.73	34.004
75m	11.40	34.408	11.89	34.440	10.96	34.417	10.80	34.301				
100m			9.37	34.305	8.82	34.275	8.55	34.251				9.69 34.267
125m					7.28	34.217						7.09 34.191
150m					6.19	34.158						5.58 34.146
200m					4.39	34.109						3.03 34.088
250m					2.45	34.077						2.03 34.074
300m					1.71	34.072						
400m					0.88	34.073						
500m												
600m												
700m												
800m												
900m												
1000m												

Table 3-41

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412		
Station No	J31	J32	J33	J34	J35	J36	J37	J38	J39	J41			
Latitude:N	43–19.7	43–30.0	43–29.7	43–30.0	43–29.5	43–30.0	43–30.0	43–29.6	43–29.6	42–30.0			
Longitude:E	141–10.1	141–0.0	140–40.1	140–20.0	140–0.2	139–40.0	139–20.0	139–0.0	138–30.1	139–40.0			
Date	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/08	1994/12/08			
Time(JST)	09:52	11:07	12:38	14:24	16:21	18:43	20:29	22:14	01:03	08:29			
Weather	C	BC	BC	C	C	C				BC			
Air Temp.	4.2	5.0	5.1	3.2	3.0	2.8	2.8	2.2	2.6	4.3			
Bar	1010.0	1008.6	1007.9	1008.0	1009.4	1010.4	1012.5	1019.0	1016.0	1019.6			
Wind Dir	WNW	NW	NW	NNW	N	NNW	NNW	NW		WNW			
Wind Spd/F	S 6	S 6	S 5	S 7	S 6	S 7	S 7	S 7	S	S 7			
Transparency													
Depth	38	92	687	627	1240	2031		3400		1840			
Equipment	CTD												
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	
0m	10.3	34.116	11.7	34.148	11.9	34.123	10.8	34.182	12.1	34.155	12.0	34.167	
10m	10.55	34.104	11.81	34.137	12.00	34.114	9.64	34.219	12.20	34.147	12.22	34.160	
20m	10.59	34.109	11.81	34.137	12.00	34.115	8.80	34.206	12.20	34.150	12.23	34.160	
30m	10.59	34.108	11.81	34.137	12.00	34.115	8.16	34.175	12.19	34.151	12.23	34.160	
50m		11.80	34.139	11.96	34.117	8.16	34.167	12.15	34.158	12.23	34.160		
75m		11.66	34.137	11.50	34.199	8.15	34.165	12.12	34.166	12.23	34.160		
100m			9.89	34.206	7.88	34.136	10.27	34.311	12.21	34.170	8.94	34.318	
125m			8.20	34.162	6.52	34.131	9.14	34.292	10.41	34.345	6.49	34.188	
150m			7.86	34.162	4.28	34.122	8.04	34.256	8.60	34.284	4.13	34.119	
200m			4.17	34.117	2.89	34.088	4.26	34.121	4.48	34.118	2.12	34.093	
250m			2.07	34.095	2.03	34.088	2.23	34.092	2.24	34.090	1.49	34.085	
300m			1.33	34.083	1.34	34.087	1.43	34.087	1.50	34.085	1.10	34.086	
400m			0.88	34.078	0.83	34.081	0.96	34.084	0.93	34.086	0.72	34.081	
500m			0.67	34.077	0.57	34.081	0.69	34.084	0.58	34.081	0.52	34.083	
600m							0.47	34.080			0.37	34.083	
700m												0.41	34.080
800m													
900m													
1000m													

Table 3–42

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	
Station No	J42	J43	J44	J45	J46	J47	J58	J57	J56	J55		
Latitude:N	42–30.0	42–30.0	42–29.6	42–29.7	42–29.7	42–29.6	41–30.0	41–29.5	41–29.5	41–29.7		
Longitude:E	139–20.0	139–0.0	138–40.0	138–20.0	138–0.0	137–30.0	137–30.0	138–0.1	138–20.1	138–40.2		
Date	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/09	1994/12/09	1994/12/09	1994/12/09		
Time(JST)	10:57	12:41	14:28	16:16	18:00	20:25	02:37	04:58	06:37	08:15		
Weather	BC	BC	BC						C	C		
Air Temp.	5.6	6.1	5.8	5.5	5.4	6.2	7.4	8.5	9.6	10.2		
Bar	1018.0	1018.4	1017.4	1016.5	1016.1	1013.2	1008.0	1004.5	1001.7	1001.0		
Wind Dir	W	WSW	WSW	WSW	SSW	S	S	S	S	WSW		
Wind Spd/F	S 8	S 8	S 8	S 9	S 9	S 11	S 11	S 10	S 11	S 13		
Transparency												
Depth	3200				3678				3695	3689		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	12.0	34.194	12.3	34.159	11.8	34.187	8.6	34.109	7.9	34.119	7.3	34.107
10m	12.15	34.183	12.40	34.146	11.92	34.169	8.66	34.096	7.96	34.103	7.35	34.095
20m	12.15	34.183	12.40	34.147	11.93	34.170	8.66	34.096	7.96	34.104	7.25	34.100
30m	12.15	34.183	12.40	34.148	11.93	34.169	8.66	34.095	7.96	34.103	6.71	34.105
50m	12.15	34.183	12.41	34.150	10.88	34.097	8.66	34.095	7.94	34.103	6.18	34.094
75m	12.13	34.179	12.41	34.153	7.25	34.217	3.22	34.089	2.82	34.091	3.56	34.101
100m	10.23	34.381	10.28	34.420	5.00	34.142	2.00	34.081	2.08	34.078	2.60	34.073
125m	7.85	34.255	7.59	34.251	2.82	34.094	1.62	34.077	1.84	34.092	1.80	34.080
150m	6.18	34.174	6.00	34.192	1.86	34.081	1.37	34.081	1.53	34.086	1.43	34.076
200m	2.76	34.099	2.77	34.087	1.53	34.087	1.07	34.082	1.20	34.085	1.21	34.084
250m	1.78	34.083	1.53	34.077	1.22	34.087	0.92	34.084	1.00	34.085	1.03	34.086
300m	1.32	34.082	1.18	34.079	1.06	34.086	0.77	34.082	0.87	34.084	0.81	34.084
400m	0.87	34.082	0.83	34.082	0.71	34.084	0.57	34.082	0.59	34.083	0.58	34.084
500m	0.58	34.081	0.59	34.083	0.49	34.083	0.44	34.082	0.46	34.082	0.47	34.081
600m												
700m												
800m												
900m												
1000m												

Table 3–43

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199502	199502	199502	199502	199502
Station No	J54	J53	J52	J61	J51	J63	J62	J61	J51	JC21
Latitude:N	41–30.0	41–29.7	41–30.0	41–19.7	41–29.6	41– 0.0	41–10.1	41–20.0	41–30.1	42– 0.2
Longitude:E	139– 0.0	139–15.0	139–30.0	140– 0.2	139–50.1	140– 0.0	140– 0.5	140– 0.0	139–50.4	140– 0.4
Date	1994/12/09	1994/12/09	1994/12/09	1994/12/11	1994/12/11	1995/02/03	1995/02/03	1995/02/03	1995/02/03	1995/02/04
Time(JST)	09:51	11:08	12:26	07:53	09:15	19:44	20:50	21:50	23:15	02:23
Weather	C	C	C	C	C	C	S	S	C	S
Air Temp.	8.9	9.6	8.8	3.6	3.4	0.8	0.0	0.0	0.0	0.2
Bar	1000.1	998.4	998.0	1019.0	1019.5	1024.5	1024.8	1024.5	1024.3	1024.2
Wind Dir	WSW	W	WNW	WNW	WNW	WNW	NNW	NNW	WNW	WNW
Wind Spd/F	S 12	S 10	S 8	S 9	S 9	S 7	S 7	S 8	S 8	S 4
Transparency										
Depth	1320	1133	1700	230	1330	486	103	234	1342	711
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	12.1	34.084	12.1	34.127	11.9	34.165	14.3	33.944	12.8	34.075
10m	12.22	34.081	12.15	34.114	11.96	34.147	14.46	33.921	12.99	34.057
20m	12.25	34.085	12.14	34.114	11.75	34.124	14.46	33.924	12.99	34.062
30m	12.24	34.086	12.15	34.117	11.49	34.132	13.81	33.961	12.98	34.063
50m	12.22	34.087	12.16	34.121	11.40	34.305	12.67	34.159	12.21	34.479
75m	9.81	34.079	10.71	34.335	7.99	34.117	11.07	34.068	10.00	34.354
100m	6.80	34.206	7.37	34.228	6.21	34.177	10.50	34.111	9.08	34.286
125m	4.70	34.115	4.57	34.109	4.49	34.109	9.71	34.103	6.90	34.198
150m	3.59	34.094	3.21	34.091	3.54	34.086	9.31	34.091	5.22	34.138
200m	1.78	34.082	1.61	34.083	2.03	34.087	7.98	34.239	3.40	34.094
250m	0.96	34.079	1.12	34.079	1.37	34.081			2.10	34.081
300m	0.69	34.076	0.89	34.078	0.97	34.079			1.45	34.080
400m	0.46	34.076	0.56	34.078	0.62	34.078			0.82	34.077
500m	0.35	34.076	0.36	34.076	0.43	34.077			0.45	34.076
600m										
700m										
800m										
900m										
1000m										

Table 3–44

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502
Station No	JC22	J52	J53	J54	J55	J56	J57	J58	J47	J46	
Latitude:N	42– 0.2	41–30.3	41–30.0	41–30.2	41–30.2	41–30.2	41–30.2	41–30.1	42–30.1	42–30.1	
Longitude:E	139–40.5	139–30.6	139–20.0	139– 0.5	138–40.5	138–20.5	138– 0.5	137–30.5	137–30.5	138– 0.4	
Date	1995/02/04	1995/02/04	1995/02/04	1995/02/04	1995/02/04	1995/02/04	1995/02/04	1995/02/04	1995/02/04	1995/02/05	
Time(JST)	04:06	07:14	08:36	09:54	11:34	13:14	14:55	17:17	23:19	01:29	
Weather	S	C	C	C	C	C	C	C	B	C	
Air Temp.	-0.1	0.3	0.1	0.4	0.5	0.0	1.0	-0.1	-1.5	-1.7	
Bar	1023.9	1023.0	1023.7	1022.3	1022.8	1022.2	1024.8	1021.6	1020.3	1019.4	
Wind Dir	W	W	SW	W	WNW	W	W	W	NW	NNW	
Wind Spd/F	S 6	S 6	S 6	S 8	S 7	S 6	S 7	S 6	S 3	S 4	
Transparency											
Depth	923	1578	1113	1336	3020	3700	3700	3650	3300		
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	7.5 34.097	9.3 34.075	8.6 34.109	8.3 34.124	7.6 34.132	5.4 34.142	4.8 34.164	3.3 34.168	5.4 34.162	5.7 34.150	
10m	8.23 34.086	9.68 34.065	8.94 34.104	8.52 34.118	7.72 34.128	5.54 34.138	4.81 34.159	3.51 34.165	5.63 34.149	5.85 34.145	
20m	8.24 34.087	9.68 34.066	8.95 34.104	8.53 34.118	7.73 34.127	5.54 34.138	4.79 34.160	3.50 34.165	5.55 34.146	5.71 34.155	
30m	8.23 34.087	9.68 34.067	8.95 34.104	8.53 34.118	7.58 34.135	5.54 34.138	4.76 34.159	3.40 34.162	5.54 34.145	5.67 34.169	
50m	8.18 34.096	8.85 34.143	8.83 34.115	7.86 34.152	6.85 34.136	5.48 34.138	4.12 34.168	3.27 34.158	5.50 34.143	5.63 34.173	
75m	7.86 34.109	8.20 34.134	7.63 34.160	6.17 34.162	4.13 34.147	4.93 34.154	3.83 34.166	3.17 34.151	5.45 34.137	5.60 34.174	
100m	7.12 34.130	7.19 34.150	5.45 34.154	3.53 34.105	2.62 34.097	3.63 34.130	3.60 34.159	2.80 34.140	4.77 34.062	3.46 34.113	
125m	5.17 34.118	5.86 34.141	4.18 34.122	2.47 34.085	1.63 34.079	3.19 34.119	2.12 34.117	1.70 34.093	2.99 34.066	2.19 34.087	
150m	4.07 34.096	4.15 34.118	2.83 34.091	1.99 34.069	1.52 34.085	1.74 34.082	1.81 34.099	1.39 34.088	2.31 34.065	1.66 34.080	
200m	2.16 34.083	2.05 34.082	1.46 34.076	1.38 34.076	1.19 34.081	1.23 34.081	1.40 34.088	1.16 34.086	1.38 34.073	1.20 34.075	
250m	1.36 34.080	1.19 34.077	1.11 34.078	1.10 34.077	0.97 34.082	0.96 34.081	1.13 34.086	0.92 34.085	1.15 34.079	1.04 34.078	
300m	0.98 34.078	0.92 34.076	0.85 34.076	0.92 34.076	0.87 34.083	0.84 34.080	0.94 34.085	0.77 34.084	1.00 34.083	0.87 34.081	
400m	0.61 34.075	0.56 34.075	0.53 34.075	0.54 34.076	0.61 34.082	0.65 34.082	0.63 34.082	0.58 34.082	0.67 34.080	0.61 34.080	
500m	0.40 34.074	0.46 34.076	0.39 34.074	0.42 34.074	0.48 34.080	0.47 34.080	0.49 34.081	0.46 34.081	0.52 34.080	0.46 34.080	
600m										0.39 34.079	
700m											
800m											
900m											
1000m											

Table 3-45

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502
Station No	J45	J44	J43	J42	J41	J39	J38	J37	J36	J35	
Latitude:N	42–30.2	42–30.2	42–30.2	42–30.1	42–30.1	43–30.1	43–30.1	43–30.2	43–30.1	43–30.1	
Longitude:E	138–20.3	138–40.4	139–0.3	139–20.5	139–40.5	138–30.6	139–0.4	139–20.3	139–40.4	140–0.4	
Date	1995/02/05	1995/02/05	1995/02/05	1995/02/05	1995/02/05	1995/02/05	1995/02/05	1995/02/05	1995/02/06	1995/02/06	
Time(JST)	03:43	05:21	07:07	08:43	10:17	18:32	20:51	22:49	00:58	02:38	
Weather	C	C	C	C	BC	S	C	C	C	C	
Air Temp.	-1.4	-1.1	-0.5	0.7	1.3	-0.5	-0.1	-0.1	-0.9	-1.0	
Bar	1018.5	1017.8	1017.5	1016.5	1015.7	1014.9	1014.3	1013.8	1012.5	1012.7	
Wind Dir	NNW	NNW	NW	NNW	NNW	NNE	ENE	NE	NE	NNE	
Wind Spd/F	S 5	S 4	S 2	S 5	S 5	S 8	S 5	S 5	S 3	S 5	
Transparency											
Depth		3650	3600	3300	1800	3430	3450	3260	2043	1230	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	5.8	34.145	7.0	34.131	8.1	34.111	7.3	34.129	7.4	34.121	
10m	5.93	34.140	7.47	34.124	8.62	34.105	7.69	34.120	7.61	34.110	
20m	5.71	34.142	7.43	34.125	8.29	34.121	7.69	34.120	7.54	34.116	
30m	5.64	34.138	7.35	34.126	8.16	34.122	7.69	34.121	7.43	34.121	
50m	5.02	34.132	6.97	34.134	7.67	34.151	7.69	34.121	7.26	34.130	
75m	2.95	34.094	5.41	34.155	6.28	34.139	7.68	34.120	7.24	34.133	
100m	2.20	34.090	2.16	34.110	4.74	34.116	7.07	34.134	7.17	34.136	
125m	1.60	34.079	1.53	34.087	3.65	34.087	5.06	34.111	5.90	34.148	
150m	1.33	34.080	1.36	34.084	2.51	34.076	4.43	34.111	4.23	34.110	
200m	1.02	34.080	1.14	34.083	1.51	34.079	2.17	34.081	2.22	34.081	
250m	0.88	34.083	0.97	34.083	1.16	34.083	1.34	34.078	1.69	34.079	
300m	0.76	34.083	0.80	34.082	0.94	34.082	1.06	34.079	1.16	34.081	
400m	0.55	34.080	0.59	34.080	0.68	34.080	0.76	34.080	0.77	34.077	
500m	0.43	34.079	0.43	34.079	0.48	34.079	0.50	34.077	0.54	34.075	
600m								0.48	34.078	0.45	34.076
700m								0.41	34.075	0.49	34.075
800m								0.39	34.078	0.48	34.076
900m										0.38	34.075
1000m											

Table 3–46

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502	199503	199503
Station No	J34	J33	J32	J31	CE01	CE02	CE03	CE04	SR1E	SR2E
Latitude:N	43–30.1	43–30.0	43–30.1	43–20.2	43–23.0	43–22.9	43–22.9	43–23.1	43–11.1	43–14.2
Longitude:E	140–20.4	140–40.3	141–0.4	141–10.4	140–43.3	140–43.3	140–43.4	140–43.7	141–14.7	141–19.3
Date	1995/02/06	1995/02/06	1995/02/06	1995/02/06	1995/02/27	1995/02/28	1995/02/28	1995/03/01	1995/03/06	1995/03/06
Time(JST)	04:32	06:17	07:54	09:07	18:41	07:05	18:08	07:28	10:45	12:06
Weather	C	C	C	C	C	BC	BC	C		
Air Temp.	-1.1	-2.2	-2.3	-3.0	0.4	0.4	0.1	0.5		
Bar	1012.3	1012.3	1012.5	1012.6	1013.6	1014.4	1014.5	1012.4		
Wind Dir	NNE	NE	ENE	SE	NNE	NNE	CALM	CALM		
Wind Spd/F	S 3	S 2	S 2	S 6	S 5	S 6	S 0	S 0	S	S
Transparency										
Depth	652	684	93	35	390	356	328	268	11	11
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	6.2	34.156	5.5	34.199	6.2	34.181	5.2	34.091	5.4	34.12*
10m	6.62	34.151	5.81	34.193	6.54	34.171	5.66	34.101	5.57	34.120
20m	6.60	34.149	5.79	34.192	6.50	34.176	5.66	34.107	5.57	34.120
30m	6.59	34.149	5.79	34.193	6.42	34.179	5.61	34.097	5.58	34.120
50m	6.59	34.159	5.78	34.193	6.13	34.179			5.58	34.124
75m	6.48	34.180	5.75	34.189	6.12	34.178			5.07	34.171
100m	6.31	34.193	5.69	34.186					5.13	34.179
125m	5.65	34.188	5.64	34.185					5.07	34.173
150m	3.55	34.106	5.30	34.179					5.06	34.174
200m	2.21	34.085	2.99	34.103					4.91	34.170
250m	1.58	34.080	1.70	34.087					3.76	34.135
300m	1.15	34.080	1.05	34.079					2.32	34.092
400m	0.76	34.077	0.72	34.076					1.57	34.083
500m	0.49	34.076	0.54	34.075					1.00	34.076
600m										
700m										
800m										
900m										
1000m										

Table 3–47

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199503	199503	199503	199503	199503	199503	199503	199503	199503	199503
Station No	SR3E	SR4S	SR4E	SR5S	SR5E	SRR	SR0S	SR6E	SR8E	SR9E
Latitude:N	43–15.9	43–17.2	43–16.6	43–16.3	43–16.7	43–17.3	43–14.6	43–10.1	43–13.7	43–15.4
Longitude:E	141–21.0	141–21.9	141–21.5	141–20.1	141–20.8	141–20.9	141–18.0	141–12.7	141–18.2	141–20.0
Date	1995/03/06	1995/03/06	1995/03/06	1995/03/06	1995/03/06	1995/03/06	1995/03/07	1995/03/07	1995/03/07	1995/03/07
Time(JST)	12:52	13:10	13:40	14:00	15:00	15:15	00:00	00:00	00:00	00:00
Weather										
Air Temp.										
Bar										
Wind Dir										
Wind Spd/F	S	S	S	S	S	S	S	S	S	S
Transparency										
Depth	10	15	8	15	13	14	19	9	14	13
Equipment	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	3.1 33.11*	2.9 29.67*	2.5 20.88*	3.4 32.63*	2.8 30.80*	3.0 29.53*	3.9 33.53*	4.2 32.14*	3.8 33.71*	3.5 33.15*
10m		4.66 33.974		3.16 33.424	3.54 33.234	4.81 34.044	3.73 33.604		3.92 33.684	4.73 34.044
20m										
30m										
50m										
75m										
100m										
125m										
150m										
200m										
250m										
300m										
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 3–48

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199503	199503	199503	199503	199503	199503	199503	199503	199503	199503
Station No	SR7E	SR8S	SR9S	SR0E	J47	J46	J45	J44	J43	J42
Latitude:N	43–10.6	43–14.2	43–14.9	43–14.0	42–30.3	42–30.0	42–30.2	42–30.1	42–30.2	42–30.3
Longitude:E	141–12.9	141–19.0	141–19.6	141–17.7	137–30.5	138–0.0	138–20.5	138–40.5	139–0.5	139–20.5
Date	1995/03/07	1995/03/07	1995/03/07	1995/03/07	1995/03/14	1995/03/14	1995/03/14	1995/03/14	1995/03/14	1995/03/14
Time(JST)	11:10	12:34	12:42	14:19	00:14	03:22	05:37	07:49	09:53	12:03
Weather					C	B	BC	C	BC	B
Air Temp.					3.5	0.4	3.8	0.5	6.4	7.5
Bar					1023.4	1023.4	1024.7	1026.2	1026.9	1027.0
Wind Dir					NNW	NNW	N	NNE	NNE	NNW
Wind Spd/F	S	S	S	S	S 4	S 4	S 6	S 4	S 3	S 4
Transparency								10	6	9
Depth	13	13	13	21					3594	3200
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	3.7	33.42*	3.7	33.46*	3.5	32.86*	4.2	0.22*	4.3	34.174
10m	4.81	34.404	4.46	34.024	4.71	34.034	4.26	33.894	4.30	34.167
20m					4.79	34.084	4.30	34.167	4.08	34.168
30m							3.82	34.176	4.04	34.168
50m							3.06	34.151	4.00	34.172
75m							2.61	34.147	3.87	34.175
100m							1.90	34.125	3.08	34.148
125m							1.77	34.122	1.88	34.105
150m							1.64	34.116	1.57	34.094
200m							1.29	34.097	1.17	34.083
250m							1.13	34.092	0.97	34.079
300m							0.94	34.086	0.79	34.080
400m							0.62	34.080	0.59	34.079
500m							0.49	34.079	0.46	34.079
600m							0.38	34.077	0.39	34.078
700m										
800m										
900m										
1000m										

Table 3-49

Table 3 Results of serial oceanographic observations. Hokkaido Central Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199503																		
Station No	J41																		
Latitude:N	42°30.0																		
Longitude:E	139°40.0																		
Date	1995/03/14																		
Time(JST)	14:21																		
Weather	B																		
Air Temp.	9.8																		
Bar																			
Wind Dir	NNW																		
Wind Spd/F	S 6																		
Transparency	10																		
Depth	2000																		
Equipment	CTD																		
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	8.6 34.140																		
10m	8.46 34.127																		
20m	8.35 34.127																		
30m	8.29 34.125																		
50m	8.14 34.121																		
75m	7.45 34.164																		
100m	6.28 34.156																		
125m	5.11 34.146																		
150m	4.16 34.128																		
200m	2.44 34.089																		
250m	1.40 34.076																		
300m	1.06 34.074																		
400m	0.73 34.073																		
500m	0.52 34.073																		
600m	0.40 34.073																		
700m																			
800m																			
900m																			
1000m																			

Table 3-50

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	P64	P63	P62	P61	P51	P52	P53	P54	P55	P56	
Latitude:N	41–50.8	42– 0.0	42–10.1	42–20.4	42–10.1	42– 0.1	41–50.6	41–40.2	41–30.2	41–20.2	
Longitude:E	141–20.4	141–20.3	141–20.2	141–20.4	142–30.3	142–20.5	142– 9.7	142– 0.3	141–50.4	141–40.4	
Date	1994/04/14	1994/04/14	1994/04/14	1994/04/14	1994/04/15	1994/04/15	1994/04/15	1994/04/15	1994/04/15	1994/04/15	
Time(JST)	14:35	16:03	17:27	18:52	00:43	02:25	04:45	07:45	10:10	12:50	
Weather	C	BC	C	C	C	C	C	BC	BC	BC	
Air Temp.	6.0	5.0	4.0	3.0	1.5	2.0	3.0	6.0	6.0	8.0	
Bar	1006.5	1006.0	1006.5	1008.0	1010.5	1011.0	1012.0	1013.0	1015.5	1015.5	
Wind Dir	WSW	WSW	W	SW	WSW	WSW	SW	WSW	WNW	WNW	
Wind Spd/F	F 5	F 3	F 2	F 4	F 4	F 3	F 2	F 4	F 4	F 3	
Transparency	6	5	4					7	7	10	
Depth	298	317	370	232	124				960	770	
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	3.8 33.501	3.2 33.054	3.0 32.919	3.4 32.858	2.4 32.717	2.0 32.896	2.6 32.918	3.1 33.045	3.5 33.064	8.0 34.070	
10m	3.77 33.095	2.70 32.943	2.57 32.816	3.11 32.775	2.19 32.597	1.75 32.800	2.33 32.841	2.58 32.941	3.21 33.159	7.08 33.847	
20m	3.86 33.178	2.69 32.944	2.57 32.948	3.06 32.780	1.47 32.676	1.75 32.801	2.33 32.840	2.58 32.943	5.74 33.654	7.19 33.869	
30m	4.35 33.297	2.51 32.932	2.51 33.078	2.62 32.874	1.09 32.809	1.71 32.797	2.32 32.852	2.55 32.941	6.08 33.691	7.41 33.912	
50m	6.24 33.669	2.02 33.088	2.24 33.165	1.87 33.065	0.61 32.924	1.84 33.098	1.71 32.901	2.46 32.938	6.15 33.700	7.46 33.928	
75m	7.20 33.887	2.97 33.263	2.76 33.263	2.44 33.207	0.80 33.064	2.66 33.240	1.54 33.089	3.58 33.312	6.30 33.751	7.45 33.963	
100m	4.98 33.551	3.63 33.364	2.91 33.308	3.29 33.310	1.45 33.300	1.07 33.133	1.87 33.186	4.68 33.485	6.66 33.850	6.92 33.871	
125m	4.02 33.469	2.94 33.315	3.23 33.405	2.85 33.350		1.15 33.195	1.74 33.186	3.56 33.338	7.09 33.960	6.56 33.797	
150m	3.87 33.466	2.61 33.390	2.52 33.341	3.52 33.408		1.12 33.232	1.39 33.194	2.89 33.339	6.80 33.928	6.49 33.793	
200m	3.77 33.483	2.50 33.361	2.45 33.390	2.40 33.409		1.21 33.298	1.36 33.232	3.49 33.474	5.79 33.739	6.48 33.819	
250m	3.10 33.445	2.46 33.439	2.42 33.442			2.22 33.405	1.42 33.263	1.90 33.297	4.20 33.587	6.44 33.817	
300m		2.29 33.515	2.31 33.511			1.60 33.413	2.48 33.455	1.65 33.320	1.59 33.319	7.04 33.955	
400m						2.50 33.655	2.56 33.677	2.35 33.553	2.35 33.559	2.35 33.569	
500m						2.81 33.819	2.87 33.829	2.71 33.748	2.72 33.752	2.77 33.776	
600m								3.01 33.894	3.02 33.917	3.06 33.940	
700m											
800m											
900m											
1000m											

Table 4-1

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	
Station No	P66	P65	HKD10	HKD11	HKD12	HKD13	HKD14	HKD15	HKD16	HKD17		
Latitude:N	41–32.2	41–40.2	42–9.9	42–14.9	42–19.9	42–19.9	42–19.9	42–25.0	42–25.0	42–25.1		
Longitude:E	141–19.0	141–23.2	140–50.1	140–49.9	140–49.8	140–45.1	140–40.1	140–44.9	140–40.2	140–35.1		
Date	1994/04/15	1994/04/15	1994/04/19	1994/04/19	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20		
Time(JST)	15:56	17:28	02:42	23:27	00:12	00:27	01:22	02:13	02:47	03:23		
Weather	B	B	B	B	B	B	B	B	B	B		
Air Temp.	9.0	7.0	3.5	3.0	2.5	2.0	2.0	1.5	1.5	1.5		
Bar	1015.0	1016.0	1020.5	1021.0	1021.0	1021.5	1021.0	1021.0	1021.5	1021.5		
Wind Dir	W	WSW	WNW	NW	N	NNW	N	NNE	CALM	N		
Wind Spd/F	F 4	F 4	S 1	S 3	S 2	S 1	S 1	S 1	S 0	S 1		
Transparency	9	9										
Depth	241	233	91	69	48	60	78	59	77	92		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	10.9	N.D.	7.1	33.873	4.2	33.006	4.1	32.919	4.3	32.844	4.3	32.861
10m	8.10	33.925	6.85	33.793	4.30	32.782	4.10	32.867	4.53	32.839	4.26	32.892
20m	8.10	33.937	6.92	33.820	4.19	32.899	3.78	32.947	4.36	33.015	3.72	32.889
30m	8.06	33.953	7.11	33.922	4.11	33.019	3.57	33.007	3.92	33.061	4.03	33.024
50m	8.06	33.959	7.24	33.929	3.05	33.340	2.99	33.371			2.96	33.314
75m	8.06	33.961	7.26	33.954	3.06	33.431						
100m	8.05	33.967	7.13	33.940								
125m	8.05	33.971	7.00	33.932								
150m	8.04	33.970	6.87	33.911								
200m	7.87	33.985	3.04	33.555								
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4–2

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199405	199405	199405	199405
Station No	HKD18	HKD19	HKD20	HKD21	HKD22	HKD23	HKG15	HKG14	HKG13	HKG12
Latitude:N	42–25.1	42–20.1	42–19.9	42–15.1	42–14.9	42–14.9	42– 0.0	42– 5.0	42–10.0	42–12.5
Longitude:E	140–30.1	140–30.0	140–34.7	140–35.1	140–39.8	140–44.9	141– 0.0	141– 0.0	141– 0.0	141– 0.0
Date	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/05/10	1994/05/10	1994/05/10	1994/05/10
Time(JST)	03:58	04:40	05:12	05:54	06:26	06:59	05:10	06:10	07:16	07:45
Weather	B	B	B	B	B	B	C	BC	BC	BC
Air Temp.	1.5	1.5	1.2	2.5	2.5	2.0	6.3	6.5	6.6	6.5
Bar	1021.5	1021.5	1021.5	1022.0	1021.5	1021.5	1012.0	1012.0	1012.0	1012.0
Wind Dir	WSW	CALM	CALM	W	WSW	NW	S	E	NNE	NE
Wind Spd/F	S 1	S 0	S 0	S 2	S 1	S 1	F 1	F 1	F 1	F 1
Transparency			16	10	8	10	12	10	10	10
Depth	92	94	94	92	88	80	88	83	76	72
Equipment	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	4.6 33.014	4.7 33.014	4.7 33.006	4.6 32.882	4.6 32.908	4.3 32.956	6.6 32.258	6.3 32.077	6.1 32.447	6.4 32.460
10m	4.50 32.975	4.55 32.996	4.46 32.984	4.48 32.842	4.34 32.882	4.13 32.918	5.51 32.185	5.73 32.189	6.07 32.384	5.78 32.430
20m	4.31 32.970	4.51 32.996	4.43 32.985	4.40 32.953	4.14 32.906	3.95 32.917	3.51 32.485	4.32 32.619	4.50 32.476	4.81 32.558
30m	3.93 33.045	3.94 33.140	4.16 32.992	3.90 32.982	3.99 33.043	3.80 32.952	2.01 32.665	2.39 32.816	2.64 32.742	2.99 32.718
50m	2.91 33.430	3.03 33.280	3.26 33.236	3.00 33.348	3.16 33.312	2.90 33.363	2.82 33.096	1.21 32.950	1.13 32.913	1.61 32.924
75m	3.05 33.530	2.95 33.486	2.95 33.472	3.03 33.518	3.08 33.523	2.86 33.402		1.54 33.042		
100m										
125m										
150m										
200m										
250m										
300m										
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 4–3

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	HKG20	HKG21	HKG29	HKG27	HKG36	HKG35	HKG38	HKG37	HKG34	HKG33	
Latitude:N	42–10.0	42– 6.0	42–11.0	42–15.0	42–13.0	42–15.0	42–20.0	42–20.0	42–20.0	42–25.0	
Longitude:E	140–50.0	140–50.0	140–40.0	140–40.0	140–31.0	140–31.0	140–22.0	140–25.0	140–30.0	140–30.0	
Date	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10	
Time(JST)	09:00	09:42	11:05	11:45	12:50	13:26	14:33	15:06	15:47	16:37	
Weather	C	C	BC	BC	C	C	C	C	BC	BC	
Air Temp.	6.5	6.5	8.5	9.5	9.8	11.2	11.0	10.8	10.6	10.6	
Bar	1012.0	1012.0	1012.0		1009.2	1009.2	1009.0	1008.0	1008.0	1008.0	
Wind Dir	NW	NW	NW	NW	ENE	ENE	ENE	E	E	E	
Wind Spd/F	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	
Transparency	12	10	12	10	10	9	10	8	9	9	
Depth	88	68	88	89	78	84	48	65	93	93	
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	6.5 32.527	7.6 32.345	7.6 32.469	7.6 32.024	10.0 32.466	8.9 32.540	9.2 31.904	8.8 32.485	8.9 32.488	7.8 32.168	
10m	6.94 32.571	6.95 32.500	6.48 32.536	5.67 32.322	6.68 32.538	7.29 32.536	6.83 32.289	7.35 32.389	6.96 32.481	6.79 32.363	
20m	6.20 32.571	6.04 32.528	4.95 32.797	4.44 32.550	5.67 32.698	6.04 32.675	5.94 32.738	6.29 32.597	5.49 32.748	6.19 32.699	
30m	5.01 32.859	4.55 32.854	4.56 32.925	5.00 32.856	4.76 32.856	5.01 32.820	5.82 32.818	5.80 32.807	5.46 32.831	4.85 32.933	
50m	3.74 33.084	4.03 33.006	3.74 33.044	3.67 33.147	3.81 33.032	3.84 32.990		4.68 32.979	3.37 33.131	3.20 33.217	
75m	3.01 33.438		3.05 33.322			2.98 33.386			2.95 33.426		
100m											
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4-4

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	HKG32	HKG31	HKG26	HKG25	HKG24	HKG22	HKG16	HKG18	HKG19	HKG10	
Latitude:N	42–30.0	42–31.5	42–20.0	42–27.5	42–30.0	42–33.0	42–25.0	42–20.0	42–15.0	42–17.5	
Longitude:E	140–30.0	140–30.0	140–40.0	140–40.0	140–40.0	140–40.0	140–50.0	140–50.0	140–50.0	141–0.0	
Date	1994/05/10	1994/05/10	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	
Time(JST)	17:33	17:55	04:47	05:55	06:33	07:03	08:30	09:23	10:11	11:15	
Weather	C	C	C	C	C	C	R	C	BC	BC	
Air Temp.	10.0	10.0	8.0	8.4	9.4	9.2	10.0	10.0	10.0	10.0	
Bar	1007.0	1007.0	1006.0	1006.0	1005.0	1005.0	1005.0	1005.0	1005.0	1005.0	
Wind Dir	E	SW	SSW	SSW	SSW	S	S	S	S	SE	
Wind Spd/F	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	
Transparency	8	8	8	10	8	7	10	12	10	8	
Depth	65	60	77	74	65	50	40	45	67	40	
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	8.3 31.811	9.1 31.716	8.2 32.449	7.5 32.308	8.0 32.182	8.0 26.795	7.8 32.078	7.6 32.301	7.5 32.027	8.2 32.048	
10m	5.62 32.453	5.64 32.473	7.53 32.454	7.22 32.488	6.96 32.432	5.70 32.456	7.16 32.415	5.94 32.464	6.00 32.045	4.43 32.568	
20m	5.53 32.529	5.60 32.534	6.04 32.668	6.21 32.638	6.08 32.673	5.96 32.672	5.89 32.738	5.07 32.561	4.48 32.540	3.83 32.775	
30m	5.68 32.667	5.77 32.692	5.91 32.764	5.84 32.720	5.11 32.823	5.35 32.794	4.93 32.633	4.95 32.701	3.72 32.658	2.56 32.863	
50m	3.11 33.314	3.15 33.265	4.09 33.035	3.77 33.090	3.21 33.184				1.85 32.870		
75m											
100m											
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4–5

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199406
Station No	HKG09	HKG08	HKG07	HKG06	HKG01	HKG02	HKG03	HKG04	HKG05	P64	
Latitude:N	42–15.0	42–20.0	42–22.5	42–24.0	42–34.5	42–33.5	42–32.5	42–30.0	42–25.0	41–50.3	
Longitude:E	141–10.0	141–10.0	141–10.0	141–10.0	141–30.0	141–30.0	141–30.0	141–30.0	141–30.0	141–19.3	
Date	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/23	
Time(JST)	12:24	13:20	13:54	14:25	16:47	17:07	17:30	18:03	18:48	13:51	
Weather	BC	BC	BC	BC	B	B	B	B	B	C	
Air Temp.	10.0	11.2	11.2	12.2	16.0	16.0	15.6	15.0	14.6	13.7	
Bar	1006.0	1005.0	1006.0	1005.0	1006.0	1006.0	1006.0	1006.0	1006.0	1016.5	
Wind Dir	W	W	W	W	S	S	S	S	S	NW	
Wind Spd/F	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	S 3	
Transparency	10	10	13	6	2	3	3	9		8	
Depth	96	73	59	39	32	48	56	76	100	282	
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	6.9 32.455	7.6 32.421	8.4 32.184	9.1 30.866	8.8 29.003	7.9 30.193	8.3 29.674	6.4 32.322	5.8 32.496	12.3 33.625	
10m	5.76 32.361	6.13 32.350	5.77 32.194	4.41 32.551	5.40 31.654	5.32 32.198	5.09 32.502	5.40 32.443	5.08 32.427	9.24 33.418	
20m	4.52 32.625	4.24 32.780	4.48 32.599	3.45 32.689	2.88 32.622	3.09 32.687	3.91 32.613	3.58 32.579	4.25 32.685	9.25 33.857	
30m	4.24 32.770	1.67 32.797	3.16 32.708	2.35 32.776		2.04 32.692	2.98 32.682	3.60 32.910	2.99 32.695	8.53 33.823	
50m	1.09 32.833	1.49 32.834	1.69 32.859				1.08 32.959	1.79 32.799	1.32 32.777	8.64 34.005	
75m	1.13 32.957								1.16 32.848	8.61 34.039	
100m										8.42 34.032	
125m										6.22 33.714	
150m										4.20 33.574	
200m										2.82 33.536	
250m										2.53 33.536	
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4–6

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406		199406		199406		199406		199406		199406		199406		199406	
Station No	P65	P66	P56	P55	P54	P53	P52	P51	P61	HH01						
Latitude:N	41–40.3	41–30.1	41–20.2	41–29.9	41–40.2	41–50.4	42– 0.0	42–10.0	42–20.2	42–15.3						
Longitude:E	141–19.7	141–19.7	141–40.2	141–49.6	141–59.5	142– 9.9	142–19.4	142–29.9	141–19.1	141–10.1						
Date	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24						
Time(JST)	15:12	16:35	18:49	20:49	00:08	01:58	04:00	05:55	11:48	12:57						
Weather	C	C	C	C	B	B	BC	BC	BC	BC						
Air Temp.	12.0	14.0	12.0	11.0	9.0	9.0	9.0	9.0	18.0	15.0						
Bar	1017.0	1016.5	1017.5	1018.5	1018.5	1018.0	1018.0	1018.5	1018.5	1018.5						
Wind Dir	W	NW	SE	CALM	SW	W	SE	NNE	NE	CALM						
Wind Spd/F	S 4	S 4	S 1	S 0	S 2	S 2	S 2	S 2	S 2	S 0						
Transparency	10	9							5	12	13					
Depth	231	243	744	933	1045	1082	1018	123	210	96						
Equipment	CTD															
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S
0m	8.0	33.014	11.3	33.927	11.6	33.977	10.0	33.845	8.8	33.273	8.5	33.167	10.2	33.439	9.6	32.001
10m	10.20	33.831	11.32	33.900	11.28	33.941	10.23	33.982	9.12	33.685	7.81	33.133	9.72	33.790	5.70	32.438
20m	10.55	33.979	11.20	33.906	11.10	33.940	9.98	33.960	9.39	33.869	8.13	33.499	9.87	33.883	4.14	32.615
30m	10.69	34.057	10.91	33.929	10.93	33.953	9.63	33.936	9.06	33.945	8.56	33.873	9.67	33.972	3.06	32.678
50m	10.09	34.124	10.53	34.013	10.77	33.969	9.60	33.957	8.99	34.013	9.30	34.022	9.69	34.043	2.86	32.998
75m	9.82	34.133	10.23	34.059	10.57	33.992	9.67	34.013	8.62	33.973	8.92	33.994	9.35	34.032	4.71	33.482
100m	9.43	34.101	10.21	34.053	10.54	33.991	9.70	34.055	7.98	33.932	8.83	33.987	8.49	33.952	3.28	33.469
125m	8.52	34.002	9.65	34.110	10.44	33.979	9.63	34.054	6.94	33.812	8.09	33.858	6.25	33.704		4.25 33.448
150m	6.55	33.836	9.51	34.112	10.29	33.961	9.50	34.062	5.88	33.746	6.47	33.747	5.51	33.702		3.91 33.530
200m	5.13	33.699	9.07	34.139	9.75	33.929	6.98	33.872	3.63	33.513	4.94	33.645	3.71	33.518		2.20 33.507
250m					9.54	33.945	4.46	33.615	4.16	33.667	3.59	33.625	2.57	33.472		
300m					4.77	33.628	2.93	33.454	2.40	33.551	2.34	33.604	1.52	33.427		
400m					2.73	33.746	3.00	33.747	4.25	33.935	2.55	33.746	2.40	33.649		
500m					3.28	33.886	4.34	34.027	2.93	33.866	3.03	33.923	2.89	33.838		
600m					3.02	33.933	3.10	33.992	3.46	34.050	3.11	34.093	2.94	33.990		
700m																
800m																
900m																
1000m																

Table 4-7

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	P62	P63	HTP11	HTP12	HTP13	HTP14	HTP15	HTP16	HTP17	HTP18		
Latitude:N	42–10.1	42– 0.1	42– 0.0	42– 5.0	42–10.1	42–10.0	42–14.9	42–14.8	42–14.9	42–14.9		
Longitude:E	141–20.0	141–20.1	141– 0.2	140–59.9	140–59.8	140–50.2	140–49.8	140–45.2	140–40.2	140–35.0		
Date	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24	1994/05/24		
Time(JST)	14:05	15:30	17:27	18:09	18:49	19:44	20:30	21:03	21:38	22:13		
Weather	BC	BC	BC	BC	BC	BC	B	B	B	B		
Air Temp.	19.0	18.5	15.5	16.0	15.5	15.0	14.5	12.0	13.5	13.0		
Bar	1018.0	1017.5	1017.5	1018.0	1018.0	1019.0	1019.0	1019.5	1019.5	1019.5		
Wind Dir	CALM											
Wind Spd/F	S 0	S 0	S 0	S 0	S 0	S 0	S 0	S 0	S 0	S 0		
Transparency	10	7	10	10								
Depth	365	313	88	84	81	90	69	80	88	92		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	10.4	33.288	10.5	33.560	13.7	32.492	12.7	32.297	12.5	32.266	10.5	32.287
10m	8.62	33.302	8.54	33.633	7.20	32.401	8.28	32.193	8.16	32.181	8.81	32.280
20m	8.14	33.411	9.39	33.890	7.16	33.094	5.80	32.620	6.70	32.454	6.98	32.400
30m	8.35	33.749	9.00	34.002	7.44	33.731	4.72	32.869	6.73	33.019	3.02	32.735
50m	6.15	33.559	8.30	33.929	7.84	33.907	7.55	33.829	4.79	33.598	1.61	32.936
75m	6.12	33.734	6.77	33.763	6.96	33.829	4.76	33.610			4.75	33.655
100m	4.89	33.570			4.80	33.596						
125m	4.90	33.597			5.36	33.736						
150m	4.42	33.581			4.26	33.612						
200m	3.17	33.498			2.78	33.500						
250m	2.71	33.630			2.97	33.599						
300m	2.39	33.598			2.59	33.612						
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4-8

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	HTP19	HTP20	HTP22	HTP23	HTP24	HTP25	HTP26	HTP27	HTP28	HTP30		
Latitude:N	42–14.8	42–17.4	42–19.8	42–24.9	42–25.0	42–22.6	42–20.1	42–24.9	42–27.4	42–20.1		
Longitude:E	140–30.3	140–32.3	140–30.2	140–29.9	140–34.8	140–37.4	140–39.9	140–40.0	140–42.4	140–41.0		
Date	1994/05/24	1994/05/24	1994/05/25	1994/05/25	1994/05/25	1994/05/25	1994/05/25	1994/05/25	1994/05/25	1994/05/25		
Time(JST)	22:46	23:13	00:24	01:25	01:52	02:28	02:55	03:40	04:10	05:22		
Weather	B	B	B	B	B	B	B	B	B	BC		
Air Temp.	12.5	12.0	11.0	11.0	10.0	10.0	10.0	10.0	10.0	12.0		
Bar	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5	1019.5		
Wind Dir	CALM											
Wind Spd/F	S 0	S 0	S 0	S 0	S 0	S 0	S 0	S 0	S 0	F 0		
Transparency											9	
Depth	84	94	94	92	92	88	79	77	66	59		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	10.8	32.243	11.5	32.156	10.3	32.243	10.8	32.304	9.8	32.139	11.0	32.149
10m	8.51	32.198	8.42	32.050	8.17	32.016	8.45	32.093	8.54	32.061	8.81	32.063
20m	7.27	32.422	6.26	32.156	6.94	32.369	6.70	32.497	6.41	32.503	6.12	32.234
30m	4.80	32.777	5.39	32.736	5.14	32.711	5.67	32.823	5.25	32.831	5.64	32.672
50m	2.97	32.872	3.89	33.077	3.78	33.049	3.79	33.048	4.12	33.005	4.01	32.841
75m	3.03	33.411	2.95	33.404	2.95	33.397	2.99	33.363	3.01	33.342	3.01	33.412
100m												
125m												
150m												
200m												
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4–9

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	HTP29	HTP31	HTP32	HTP21	HKG11	HKG12	HKG13	HKG14	HKG15	HKG16		
Latitude:N	42–25.2	42–19.9	42–15.2	42–19.9	42–34.5	42–33.6	42–32.7	42–30.0	42–25.2	42–23.9		
Longitude:E	140–45.0	140–49.7	140–59.7	140–34.8	141–30.0	141–30.0	141–29.9	141–30.0	141–30.1	141–9.9		
Date	1994/05/25	1994/05/25	1994/05/25	1994/05/25	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31		
Time(JST)	05:38	05:54	06:58	23:43	04:27	04:50	05:14	05:50	06:41	08:46		
Weather	B	B	B	B	F	F	B	B	B	B		
Air Temp.	10.5	12.0	13.0	12.0	7.0	7.0	10.0	10.0	12.0	12.5		
Bar	1019.5	1019.5	1020.5	1019.5	1006.0	1007.0	1007.0	1007.0	1008.0	1008.5		
Wind Dir	CALM	CALM	CALM	CALM	N	CALM	SSW	SW	SW	SSW		
Wind Spd/F	S 0	S 0	S 0	S 0	F 1	S 0	F 1	F 1	F 1	F 1		
Transparency	11	9	4		2	2	7	6	17	3		
Depth	58	47	68	94	32	48	58	76	128	39		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	11.3	32.283	13.1	32.217	8.8	32.030	11.5	32.156	10.2	24.766	10.6	28.842
10m	9.25	32.263	8.66	32.284	6.71	32.042	8.35	32.151	8.40	31.189	8.14	32.311
20m	7.44	32.355	7.21	32.405	6.08	32.693	6.48	32.174	7.68	31.967	7.69	32.489
30m	5.69	32.714	4.83	32.912	4.04	32.539	5.66	32.611			7.56	32.522
50m	3.98	33.032			1.70	32.963	4.21	32.962			7.52	32.556
75m							3.00	33.360			2.74	32.869
100m											2.89	32.796
125m											4.83	33.448
150m											4.69	33.487
200m											4.18	33.504
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4–10

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	HKG17	HKG18	HKG19	HKG20	HKG21	HKG22	HKG23	HKG24	HKG25	HKG26	
Latitude:N	42–22.5	42–20.0	42–15.0	42–17.5	42–15.0	42–20.0	42–25.1	42–27.7	42–27.6	42–24.9	
Longitude:E	141–10.0	141–10.0	141–10.0	141–0.0	140–50.0	140–50.0	140–50.0	140–40.1	140–42.4	140–40.1	
Date	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	
Time(JST)	09:15	09:50	10:43	12:00	15:57	16:50	17:50	19:15	19:45	20:17	
Weather	B	B	B	B	C	C	C	C	C	C	
Air Temp.	13.0	13.0	13.5	19.0	18.0	16.5	16.5	15.0	14.0	13.8	
Bar	1008.8	1009.0	1009.2	1009.0	1008.0	1008.0	1007.0	1008.0	1008.0	1008.3	
Wind Dir	S	SW	W	SSW	W	CALM	CALM	CALM	CALM	CALM	
Wind Spd/F	F 2	F 2	F 1	F 1	F 1	S 0	S 0	S 0	S 0	S 0	
Transparency	3	12	12	3	7	7	7	6			
Depth	57	73	97	21	67	47	40	73	66	76	
Equipment	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	11.7 28.395	12.1 28.040	13.7 30.432	14.4 28.348	16.5 30.595	12.7 31.623	12.9 31.701	11.9 31.886	11.8 31.765	11.3 31.743	
10m	7.51 32.547	8.33 32.799	8.72 32.841	8.59 32.024	10.79 31.796	10.45 31.775	10.23 31.841	10.12 31.969	10.54 31.956	11.09 31.779	
20m	7.44 32.594	7.98 32.764	9.20 33.342		10.11 32.060	9.70 31.888	9.43 31.958	8.74 32.242	8.84 32.031	9.28 32.012	
30m	7.31 32.649	5.22 32.654	4.26 32.652		8.44 32.107		7.94 32.132	6.17 32.476	6.88 32.228	7.59 32.234	
50m	5.40 32.621	2.66 32.763	4.68 33.200		2.99 32.857			4.47 32.826	4.71 32.853	4.78 32.864	
75m			3.55 33.363								
100m											
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4–11

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	HKG27	HKG28	HKG29	HKG30	HKH11	HKH12	HKH13	HKH14	HKH15	HKH16		
Latitude:N	42–22.5	42–20.0	42–17.5	42–14.9	42– 0.0	42– 5.0	42–10.0	42–10.0	42–15.0	42–20.0		
Longitude:E	140–37.6	140–35.1	140–32.6	140–30.2	141– 0.0	141– 0.0	141– 0.0	140–50.0	140–40.0	140–40.0		
Date	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/06/06	1994/06/06	1994/06/06	1994/06/06	1994/06/06	1994/06/06		
Time(JST)	20:51	21:28	22:02	22:36	13:47	14:37	15:33	16:36	17:51	18:39		
Weather	C	C	C	C	B	B	B	B	B	B		
Air Temp.	14.0	14.5	14.5	14.2	14.5	14.5	13.0	12.8	15.5	16.2		
Bar	1008.7	1008.5	1008.2	1007.7	1018.0	1017.0	1017.0	1016.6	1016.7	1017.0		
Wind Dir	S	SW	S	E	E	E	SSE	SE	E	E		
Wind Spd/F	F 1	F 1	F 1	F 1	F 2	F 2	F 2	F 2	F 2	F 1		
Transparency					8	11	8	9	9	9		
Depth	86	93	95	85	88	84	81	89	88	78		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	12.6	31.218	13.0	30.076	12.0	31.765	12.0	32.050	14.1	31.985	12.4	32.104
10m	10.35	31.721	9.91	31.875	9.02	32.067	10.43	32.128	8.32	32.244	9.61	33.004
20m	8.24	32.055	7.72	32.375	7.40	32.304	7.81	32.334	7.60	32.586	8.94	33.058
30m	7.45	32.291	6.32	32.491	6.15	32.623	5.21	32.585	6.69	32.884	6.58	32.830
50m	4.58	32.921	3.94	32.956	3.29	32.901	3.98	33.017	2.30	32.791	4.19	33.241
75m	3.05	33.363	3.05	33.331	3.02	33.346	3.21	33.248	2.58	33.163	3.01	33.327
100m												
125m												
150m												
200m												
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4–12

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	HKH17	HKH18	HKH19	HKH20	HKH21	HKH22	HKH23	HKH24	HKH25	HKH26		
Latitude:N	42–27.5	42–30.0	42–33.0	42–31.5	42–30.0	42–25.6	42–20.0	42–20.0	42–20.2	42–15.0		
Longitude:E	140–40.0	140–40.0	140–40.0	140–30.0	140–30.0	140–30.3	140–30.0	140–24.7	140–22.2	140–30.0		
Date	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07		
Time(JST)	04:16	04:52	05:33	06:37	07:11	08:05	08:57	09:41	10:09	11:20		
Weather	B	B	B	C	C	BC	C	BC	BC	BC		
Air Temp.	10.2	11.0	11.0	14.0	14.8	15.8	17.0	18.0	18.0	18.0		
Bar	1018.0	1018.2	1018.5	1018.3	1018.4		1017.5	1017.0	1019.0	1016.5		
Wind Dir	NNW	NNW	NNW	CALM	E	CALM	CALM	SE	SE	F		
Wind Spd/F	F 1	F 1	F 1	S 0	F 1	S 0	S 0	F 1	F 1	F 2		
Transparency	8	8	8	8	8	10	7	11	6	8		
Depth	73	64	46	57	64	91	93	65	47	84		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S		
0m	13.8	31.684	14.2	30.817	14.5	29.730	14.0	31.585	14.1	31.608	14.6	31.691
10m	10.76	32.077	10.54	32.044	9.45	32.084	10.80	32.032	11.34	31.853	10.60	31.895
20m	8.13	32.201	7.16	32.298	7.23	32.352	8.59	32.188	8.50	32.227	8.70	32.125
30m	6.23	32.496	5.81	32.565	5.59	32.727	5.65	32.709	5.83	32.642	6.83	32.435
50m	4.25	33.000	3.83	33.075			4.14	32.982	3.92	33.025	4.15	32.989
75m											3.07	33.340
100m												
125m												
150m												
200m												
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4–13

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	HKH27	HKH28	HKH29	HSR11	HSR12	HSR13	HSR14	HSR15	HSR16	HSR17	
Latitude:N	42–13.3	42–11.2	42–7.0	41–0.0	41–0.0	41–0.0	40–30.0	40–30.0	40–30.0	40–0.0	
Longitude:E	140–31.0	140–39.8	140–50.0	139–0.0	138–30.0	138–0.0	138–0.0	138–30.0	139–0.0	138–30.0	
Date	1994/06/07	1994/06/07	1994/06/07	1994/06/09	1994/06/10	1994/06/10	1994/06/10	1994/06/10	1994/06/11	1994/06/11	
Time(JST)	11:53	13:00	14:21	20:18	06:22	09:22	13:01	19:33	05:54	10:58	
Weather	BC	B	C	C	C	C	C	C	C	B	
Air Temp.	16.0	16.0	16.5	16.0	14.3	16.0	16.0	12.0	13.8	20.0	
Bar	1016.5	1015.0	1015.0	1003.0	1005.0	1006.0	1007.0	1009.0	1013.0	1014.0	
Wind Dir	E	SSE	ESE	CALM	WNW	NW	NW	CALM	SW	SSW	
Wind Spd/F	F 2	F 3	F 2	F 0	F 2	F 2	S 3	S 0	F 2	S 5	
Transparency	8	9	7		18	14	17		18	15	
Depth	81	88	77		3000						
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	15.1	31.627	14.4	31.754	13.4	31.939	16.4	33.795	15.3	33.971	15.2
10m	10.08	32.105	10.65	31.832	10.06	31.952	12.42	33.662	12.33	33.830	11.84
20m	7.66	32.282	8.23	32.236	7.78	32.558	9.24	33.920	9.37	33.886	9.03
30m	7.60	32.867	7.42	32.660	7.47	32.701	6.96	33.924	5.13	33.978	6.21
50m	3.89	33.019	3.33	32.733	3.66	32.903	3.57	34.020	3.07	34.066	3.52
75m	3.15	33.325	3.13	33.298			2.50	34.043	1.91	34.054	2.36
100m							1.97	34.056	1.56	34.062	1.76
125m							1.67	34.055	1.32	34.061	1.61
150m							1.37	34.062	1.21	34.064	1.32
200m							1.11	34.068	1.12	34.071	1.18
250m							0.93	34.066	0.89	34.070	0.93
300m							0.73	34.065	0.67	34.064	0.75
400m							0.52	34.065	0.49	34.066	0.55
500m							0.42	34.063	0.40	34.065	0.43
600m											
700m											
800m											
900m											
1000m											

Table 4–14

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	HSR18	HSR19	HSR20	HSR21	HSR22	HSR23	HSR24	HSR25	HSR26	HSR27		
Latitude:N	40– 0.0	40– 0.0	40–42.2	40–50.0	41– 0.0	41– 0.0	41– 0.0	41–14.4	41–30.0	41–39.3		
Longitude:E	139– 0.0	139–30.0	139–32.7	139–50.0	139–59.9	139–50.0	139–30.0	139–50.1	139–50.0	140–37.5		
Date	1994/06/11	1994/06/12	1994/06/14	1994/06/15	1994/06/15	1994/06/15	1994/06/15	1994/06/15	1994/06/16	1994/06/16		
Time(JST)	19:05	06:11	18:20	05:06	07:06	08:17	10:20	18:25	05:26	18:18		
Weather	BC	B	BC	BC	B	B	C	C	C	BC		
Air Temp.	16.0	16.8	16.0	16.0	17.0	19.0	17.0	16.0	17.0	19.0		
Bar	1015.0	1012.7	1003.5	1006.0	1006.5	1007.0	1008.0	1010.0	1012.0	1009.0		
Wind Dir	CALM	E	NE	N	NW	W	W	WSW	CALM	SW		
Wind Spd/F	F 0	F 2	F 5	F 3	F 3	F 2	S 6	S 4	S 0	S 4		
Transparency	15	16		19	19	21	18		21	11		
Depth		1000		1317	521			1062	1345	86		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	18.8	33.684	18.1	33.923	17.2	34.375	17.5	34.014	17.5	33.191	17.4	33.303
10m	15.65	34.015	16.50	33.941	16.95	34.319	16.70	34.191	17.34	33.176	16.87	33.363
20m	14.32	34.139	14.57	34.173	16.55	34.250	14.27	34.094	14.73	33.919	14.22	34.064
30m	13.11	34.223	13.77	34.267	13.68	33.993	13.29	34.417	14.39	34.050	13.48	34.138
50m	10.45	34.154	11.82	34.288	9.30	33.843	11.76	34.506	13.31	34.182	12.21	34.248
75m	9.66	34.116	10.79	34.308	5.06	34.002	10.51	34.368	11.64	34.340	10.65	34.297
100m	9.40	34.087	10.35	34.292	4.14	34.000	10.26	34.344	10.41	34.214	10.38	34.353
125m	9.27	34.081	9.87	34.254	3.17	34.052	9.81	34.298	10.16	34.310	9.66	34.295
150m	9.33	34.147	9.32	34.222	2.09	34.055	8.88	34.211	9.47	34.260	8.79	34.235
200m	8.21	34.114	7.82	34.141	1.43	34.034	6.61	34.048	5.77	34.052	5.68	34.055
250m	6.42	34.084	5.95	34.067	1.11	34.053	3.45	34.050	1.86	34.059	2.70	34.053
300m	4.24	34.026	3.41	34.033	0.90	34.057	1.71	34.051	1.28	34.058	1.70	34.058
400m	1.53	34.058	1.28	34.053	0.61	34.059	0.66	34.057	0.62	34.059	0.72	34.059
500m	0.81	34.061	0.60	34.055	0.40	34.059	0.45	34.059	0.42	34.059	0.51	34.060
600m												
700m												
800m												
900m												
1000m												

Table 4-15

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	HKD11	HKD12	HKD13	HKD14	HKD15	HKD16	HKD17	HKD18	HKD19	HKD20	
Latitude:N	41–59.9	42–4.9	42–9.8	42–10.0	42–14.8	42–15.0	42–11.3	42–11.2	42–15.0	42–15.0	
Longitude:E	141–0.1	140–59.9	140–59.9	140–50.2	140–50.0	140–45.2	140–40.0	140–39.9	140–35.2	140–30.2	
Date	1994/06/28	1994/06/28	1994/06/28	1994/06/28	1994/06/28	1994/06/28	1994/06/28	1994/06/28	1994/06/28	1994/06/28	1994/06/28
Time(JST)	15:32	16:17	17:01	18:01	18:45	19:20	20:10	20:50	21:25	21:59	
Weather	B	B	B	B	B	B	B	B	B	B	B
Air Temp.	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Bar	1014.0	1014.0	1014.0	1014.0	1014.5	1014.5	1015.0	1015.0	1015.0	1015.0	1015.0
Wind Dir	ESE	SE	ESE	ESE	CALM	E	E	E	E	ESE	ESE
Wind Spd/F	S 5	S 8	S 4	S 5	S 0	S 8	S 5	S 8	S 9	S 7	
Transparency	10	8	10	10	11						
Depth	87	83	81	90	69	80	90	88	92	86	
Equipment	CTD	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	15.3 32.49*	14.7 32.59*	13.9 32.63*	14.4 32.16*	16.1 32.86*	16.5 31.70*	15.6 31.83*	15.0 31.83*	16.2* 31.67*	15.0 31.75*	
10m	14.79 32.858	14.49 32.786	12.65 33.212	13.69 32.519	13.41 32.274	11.43 32.083	12.67 32.549	14.58 31.327	14.91 31.513	14.68 32.047	
20m	12.94 33.536	11.81 33.368	9.81 32.994	8.04 32.274	11.98 33.071	8.98 32.311	8.68 32.252	10.75 32.605	9.88 32.048	11.19 32.786	
30m	9.68 33.637	7.62 33.201	4.87 32.564	7.08 32.602	8.22 32.939	5.92 32.652	7.24 32.612	6.83 32.468	8.78 32.446	7.38 32.565	
50m	7.48 33.523	6.38 33.399	3.28 32.661	4.60 32.925	5.68 33.077	5.29 33.193	4.81 32.876	4.04 32.848	4.87 32.806	4.51 32.858	
75m	6.54 33.549	6.39 33.521	5.08 33.169	3.14 33.161		3.05 33.398	3.30 33.244	3.03 33.301	3.18 33.273	3.10 33.158	
100m											
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4–16

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	HKD21	HKD22	HKD23	HKD24	HKD25	HKD26	HKD27	HKD28	HKD29	HKD30		
Latitude:N	42–15.1	42–20.1	42–25.0	42–29.7	42–29.7	42–25.1	42–25.1	42–25.1	42–20.2	42–20.0		
Longitude:E	140–30.1	140–29.3	140–30.0	140–29.9	140–29.9	140–45.0	140–40.1	140–35.1	140–34.9	140–39.9		
Date	1994/06/28	1994/06/28	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/06/29		
Time(JST)	22:45	23:20	00:15	00:58	02:09	03:09	03:46	04:24	05:18	06:05		
Weather	B	B	B	B	B	B	BC	C	C	C		
Air Temp.	11.5	11.5	11.5	11.5	12.0	12.0	11.5	11.5	12.0	12.0		
Bar	1015.0	1015.0	1015.0	1015.0	1015.0	1015.0	1015.0	1015.0	1015.0	1015.0		
Wind Dir	ESE											
Wind Spd/F	S 8	S 8	S 8	S 5	S 4	S 7	S 8	S 5	S 7	S 4		
Transparency											12	
Depth	93	70	92	66	64	57	76	90	94	77		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	15.3	31.65*	15.5	31.89*	16.4	31.762	16.0	31.85*	16.3	31.72*	15.9	31.75*
10m	16.22	31.641	15.00	31.893	16.27	31.797	15.90	31.888	16.33	31.722	16.02	31.745
20m	13.53	32.664	9.08	32.121	11.17	32.181	11.01	32.270	14.91	31.915	12.13	32.271
30m	7.89	32.367	7.84	32.601	7.39	32.649	7.85	32.554	9.47	32.144	9.02	32.527
50m	4.62	32.865	4.14	32.870	4.47	32.837	4.98	32.836	5.30	32.782	6.14	33.066
75m	3.19	33.262			2.95	33.161					5.44	32.774
100m											5.16	32.806
125m											4.41	32.794
150m											6.74	33.154
200m												
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4–17

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199407	199407	199407	199407
Station No	HKD31	HKD32	HKD33	HKD34	HKD35	HKD36	HKD37	HSR11	HSR12	HSR13	
Latitude:N	42–20.1	42–20.1	42–15.2	42–19.9	42–24.0	42–34.6	42–30.1	41–40.1	41–49.8	41–53.1	
Longitude:E	140–44.9	140–49.9	140–59.8	141–9.1	141–9.9	141–30.0	141–30.0	141–20.0	141–20.1	141–12.3	
Date	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/06/29	1994/07/11	1994/07/11	1994/07/11	1994/07/11
Time(JST)	06:47	07:31	09:00	10:27	11:05	13:37	14:26	13:45	15:04	18:46	
Weather	C	C	C	C	C	C	C	C	C	BC	
Air Temp.	12.5	13.5	14.0	16.0	15.5	17.5	16.0	15.5	16.0	15.5	
Bar	1015.0	1015.5	1016.0	1015.5	1016.0	1015.5	1015.5	1004.5	1004.5	1005.0	
Wind Dir	ESE	ESE	ESE	SE	SE	SE	SE	WNW	W	WNW	
Wind Spd/F	S 5	S 6	S 6	S 3	S 3	S 2	S 2	F 2	F 1	F 2	
Transparency	12	11	11	10	12	5	14	11	11		
Depth	60	46	68	70	37	31	74	231	285	214	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	15.8	31.92*	15.2	32.37*	14.4	32.14*	15.5	33.03*	15.3	31.87*	15.0
10m	13.86	32.368	14.97	32.375	12.13	32.606	15.34	33.040	12.20	32.210	11.49
20m	12.93	33.006	12.81	33.210	11.99	33.295	13.13	33.431	10.47	32.971	9.99
30m	7.73	32.840	11.55	33.112	8.62	32.862	10.49	33.289	8.12	32.823	9.98
50m	5.40	32.973			5.51	32.864	5.13	32.727			7.23
75m											12.58
100m											34.136
125m											8.31
150m											33.737
200m											8.09
250m											33.393
300m											11.17
400m											34.118
500m											8.91
600m											34.004
700m											8.75
800m											33.872
900m											9.95
1000m											34.158

Table 4–18

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	
Station No	HSR14	HSR15	HSR16	HSR17	HSR18	HSR19	HSR20	HSR21	HSR22	HSR23		
Latitude:N	41–59.0	42– 9.8	42–19.9	42–10.3	42– 1.0	41–59.4	41–49.9	41–40.0	41–30.0	41–20.3		
Longitude:E	141–19.5	141–20.1	141–20.0	142–29.8	142–21.7	142–38.6	142–10.1	142– 0.0	141–50.0	141–40.0		
Date	1994/07/12	1994/07/12	1994/07/12	1994/07/12	1994/07/12	1994/07/12	1994/07/13	1994/07/13	1994/07/13	1994/07/13		
Time(JST)	01:30	03:18	04:40	11:00	13:20	18:40	02:50	04:56	07:51	08:40		
Weather	BC	BC	C	BC	BC	BC	C	BC	BC	B		
Air Temp.	14.0	14.0	14.0	14.5	15.0	16.0	14.0	12.0	19.0	20.0		
Bar	1006.5	1006.5	1006.5	1007.0	1007.0	1008.0	1012.0	1013.0	1013.0	1012.0		
Wind Dir	NW	W	WNW	NW	WNW	WNW	NW	CALM	CALM	NNW		
Wind Spd/F	F 4	F 3	F 2	F 3	F 3	F 3	F 2	S 0	S 0	F 1		
Transparency					12			12		17	12	
Depth	310	364	247	120	900	640	1000	1056	949	768		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	15.0	33.066	14.7	33.179	15.1	33.278	15.2	33.419	15.6	34.021	14.9	33.362
10m	14.63	33.019	14.72	33.294	14.77	33.309	14.25	33.352	15.03	34.031	14.53	33.312
20m	11.04	33.905	11.67	33.264	14.49	33.334	14.04	33.431	11.60	33.791	14.58	33.499
30m	10.09	33.909	10.36	33.714	11.64	33.449	14.00	33.488	10.34	33.925	14.40	33.448
50m	9.83	34.015	8.89	33.827	9.93	33.887	10.97	34.029	9.90	33.991	12.07	33.982
75m	9.02	33.996	7.94	33.777	8.93	33.970	10.41	34.089	9.71	34.087	11.14	34.165
100m	8.34	33.961	7.80	33.852	8.29	33.945	9.65	34.060	9.62	34.207	10.56	34.133
125m	7.71	33.900	6.77	33.746	8.06	33.905			8.55	34.009	10.24	34.149
150m	6.82	33.817	6.05	33.684	7.53	33.883			7.26	33.858	8.48	33.955
200m	5.58	33.738	3.95	33.505	4.95	33.606			5.03	33.614	5.75	33.687
250m	3.62	33.533	2.81	33.453					2.47	33.402	2.87	33.430
300m	2.42	33.483	2.10	33.469					2.15	33.481	2.23	33.485
400m									1.99	33.595	2.63	33.709
500m									2.61	33.786	3.02	33.895
600m												
700m												
800m												
900m												
1000m												

Table 4–19

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199408	199408	199408	199408	199408	199408
Station No	HSR24	HSR25	HSR26	HSR27	P64	P65	P66	P56	P55	P54
Latitude:N	41–12.0	41–30.0	41–39.1	41–15.5	41–50.1	41–40.1	41–30.2	41–20.2	41–30.0	41–40.4
Longitude:E	141–31.2	141–20.0	140–36.7	139–50.2	141–20.0	141–20.1	141–20.0	141–40.1	141–50.0	142–0.1
Date	1994/07/13	1994/07/14	1994/07/18	1994/07/20	1994/07/26	1994/07/26	1994/07/26	1994/07/26	1994/07/26	1994/07/27
Time(JST)	18:25	03:59	18:50	18:50	13:50	15:14	16:40	19:40	21:50	00:02
Weather	BC	BC	B	B	F	F	F	F	BC	BC
Air Temp.	15.0	16.5	22.0	25.0	24.5	22.5	22.5	20.0	18.5	19.0
Bar	1012.0	1010.0	1010.0	1009.0	1007.0	1006.5	1006.0	1007.0	1006.0	1006.0
Wind Dir	SSW	CALM	S	E	CALM	NE	CALM	S	SW	CALM
Wind Spd/F	F 2	S 0	F 1	F 1	S 0	S 2	F 0	S 1	S 2	F 0
Transparency					11	11	9			
Depth	522	240	75	800	284	231	244	764		1053
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	16.7	34.149	16.4	34.237	21.3	34.296	24.6	34.497	19.0	32.709
10m	15.11	34.159	15.32	34.209	17.39	34.013	22.46	34.246	15.63	33.074
20m	15.07	34.172	14.99	34.234	16.18	34.141	18.93	34.341	14.48	33.364
30m	15.07	34.180	14.47	34.213	14.33	34.203	16.47	34.468	11.82	33.243
50m	14.90	34.195	13.81	34.277	11.45	34.325	14.60	34.537	11.12	34.076
75m	13.78	34.235	13.41	34.282			12.53	34.522	10.37	34.115
100m	13.35	34.248	12.95	34.318			10.14	34.360	8.79	33.865
125m	12.72	34.249	12.07	34.347			8.63	34.187	7.85	33.850
150m	12.15	34.204	10.91	34.345			6.83	34.111	6.52	33.752
200m	10.34	34.120	10.88	34.352			4.00	34.049	3.85	33.500
250m	4.63	33.565					2.20	34.049	2.47	33.490
300m	2.55	33.480					1.48	34.062		
400m	2.45	33.654					1.08	34.072		
500m	2.98	33.897					0.73	34.061		
600m										
700m										
800m										
900m										
1000m										

Table 4–20

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408		199408		199408		199407		199407		199407		199407		199408		199408		199408														
Station No	P53		P52		P51		HKD11		HKD12		HKD13		HKD14		P61		P62		P63														
Latitude:N	41–50.1		42– 1.1		42–10.1		42–34.7		42–30.0		42–24.1		42–20.0		42–20.1		42–10.2		42– 0.0														
Longitude:E	142–10.2		142–20.2		142–30.2		141–29.7		141–30.0		141–10.2		141–10.2		141–20.0		141–20.0		141–19.9														
Date	1994/07/27		1994/07/27		1994/07/27		1994/07/27		1994/07/27		1994/07/27		1994/07/27		1994/07/27		1994/07/27		1994/07/27														
Time(JST)	01:50		03:54		05:47		11:59		12:40		14:35		15:10		16:10		17:29		18:51														
Weather	F		C		F		C		C		BC																						
Air Temp.	18.0		18.0		18.0		27.5		27.0		25.0		25.0		25.0		24.0		23.0														
Bar	1006.0		1005.0		1005.5		1005.0		1004.0		1004.0		1003.5		1003.0		1004.0		1004.0														
Wind Dir	CALM		N		W		CALM		SE		SE		W		W		W		SW														
Wind Spd/F	F 0		S 1		S 1		F 0		F 1		F 1		S 7		S 5		S 5		S 3														
Transparency			15		4		12		4		7		14		10		11																
Depth	1078		996		123		26		75		37		72		240		357		308														
Equipment	CTD																																
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S													
0m	19.7	34.000	19.0	33.244	19.3	33.415	22.5	32.229	19.9	33.211	20.0	32.570	22.0	32.570	22.1	33.130	21.5	33.013	21.0	33.330													
10m	17.49	34.187	15.40	33.264	18.57	33.618	19.32	32.919	18.68	32.967	17.64	32.990	15.65	33.122	16.31	33.169	14.24	33.299	16.32	33.275													
20m	15.98	34.247	10.50	33.772	14.57	33.689	14.04	33.336	13.90	33.475	14.43	33.248	13.22	33.449	12.78	33.478	11.64	33.658	12.76	33.336													
30m	14.72	34.315	10.99	34.000	12.57	33.867			11.27	33.654	11.72	33.414	12.02	33.551	11.21	33.860	10.90	34.016	10.91	33.679													
50m	13.40	34.312	10.94	34.219	9.44	33.707			10.39	34.017			9.48	33.970	10.03	34.094	10.21	34.101	10.30	34.047													
75m	12.28	34.254	10.41	34.219	5.09	33.087									9.98	34.189	9.15	34.034	9.57	34.088													
100m	11.89	34.306	10.15	34.201	5.70	33.526									8.71	34.002	8.32	33.976	8.97	34.064													
125m	11.30	34.252	9.47	34.117											7.71	33.869	7.98	33.947	8.29	34.046													
150m	10.43	34.213	8.11	33.942											6.69	33.794	7.85	33.923	6.45	33.711													
200m	9.76	34.132	4.00	33.453											4.13	33.549	3.37	33.416	3.54	33.457													
250m	3.55	33.485	2.80	33.457													1.55	33.363	2.60	33.509													
300m	1.97	33.373	2.53	33.523													2.04	33.480	2.30	33.548													
400m	2.41	33.646	2.18	33.637																													
500m	2.66	33.810	2.58	33.811																													
600m	3.13	33.985	3.22	34.051																													
700m																																	
800m																																	
900m																																	
1000m																																	

Table 4-21

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	
Station No	HKD15	HKD16	HKD17	HKD18	HKD19	HKD20	HKD21	HKD22	HKD23	HKD24		
Latitude:N	42° 0.0	42° 10.0	42° 14.9	42° 19.9	42° 20.0	42° 19.9	42° 24.9	42° 24.9	42° 25.0	42° 25.1		
Longitude:E	141° 0.1	140° 50.0	140° 49.9	140° 49.9	140° 45.0	140° 40.1	140° 44.9	140° 40.2	140° 35.1	140° 30.3		
Date	1994/07/27	1994/07/27	1994/07/27	1994/07/28	1994/07/28	1994/07/28	1994/07/28	1994/07/28	1994/07/28	1994/07/28		
Time(JST)	21:05	22:58	23:50	00:44	01:00	01:56	03:00	03:38	04:19	05:00		
Weather	C	BC	B	B	B	B	BC	C	C	C		
Air Temp.	22.5	22.0	21.0	20.5	21.0	21.0	21.0	20.5	20.0	20.0		
Bar	1005.5	1006.0	1006.0	1006.0	1006.0	1006.0	1006.0	1006.5	1006.5	1006.5		
Wind Dir	W	NW	WNW	NW	WNW	CALM	CALM	SE	SE	SE		
Wind Spd/F	S 2	S 3	S 2	S 3	S 2	F 0	F 0	S 2	S 2	S 1		
Transparency												
Depth	88	90	68	47	59	76	57	78	91	92		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	20.9	32.832	22.0	31.873	22.0	31.676	24.5	31.886	21.3	31.821	21.3	31.801
10m	14.97	33.215	18.32	31.766	16.60	31.964	16.03	32.100	16.35	31.937	17.94	31.511
20m	14.57	33.312	15.06	32.919	13.10	33.058	13.08	33.009	15.25	32.213	15.89	32.027
30m	12.42	33.033	12.83	33.430	10.03	32.824	11.03	33.183	13.25	32.635	14.46	32.560
50m	7.69	33.384	9.56	33.566	7.41	33.509			6.52	32.808	8.39	32.810
75m	7.93	33.802	6.59	33.665							5.98	32.774
100m											7.24	32.798
125m											7.02	32.919
150m												4.21
200m												33.329
250m												4.86
300m												33.514
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 4-22

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199408	199408	199408	199408	199408
Station No	HKD25	HKD26	HKD27	HKD28	HKD29	HSR01	HKG020	HKG001	HKG002	HKG003
Latitude:N	42–20.2	42–20.0	42–15.2	42–15.2	42–15.2	41–40.0	42–15.1	41–51.9	42–0.1	42–5.1
Longitude:E	140–30.2	140–34.9	140–34.9	140–39.8	140–45.1	140–40.0	140–49.8	141–9.0	141–14.8	141–19.9
Date	1994/07/28	1994/07/28	1994/07/28	1994/07/28	1994/07/28	1994/08/01	1994/08/23	1994/08/23	1994/08/23	1994/08/23
Time(JST)	05:53	06:30	07:17	07:55	08:36	16:55	01:33	08:25	09:24	10:24
Weather	C	C	C	C	C	C				
Air Temp.	22.0	22.0	21.0	22.0	23.0	21.7				
Bar	1006.5	1007.0	1007.5	1007.5	1007.5	1009.8				
Wind Dir	S	SE	SE	E	NNE	SSW				
Wind Spd/F	S 1	F 1	S 2	F 1	S 2	F 2	S	S	S	S
Transparency	12	11	10	15	12					
Depth	92	94	90	87	78	119				
Equipment	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	21.5 31.827	21.5 31.811	21.4 31.807	21.6 31.837	21.5 32.095	22.4 34.031	22.7 32.29*	21.6 32.95*	20.2 33.59*	21.2 33.74*
10m	20.55 31.757	20.71 31.743	20.98 31.761	18.45 31.672	16.30 31.952	20.04 34.080	20.85 33.207	20.22 33.427	19.92 33.842	20.87 33.793
20m	16.32 31.972	15.88 32.008	16.29 31.929	15.98 32.023	15.07 32.268	15.92 34.274	17.95 33.726	17.52 33.656	18.40 34.125	19.85 33.835
30m	13.80 32.639	14.76 32.277	13.92 32.629	14.45 32.380	12.35 32.765	14.06 34.305	11.54 33.270	14.35 34.111	13.92 34.235	16.17 34.217
50m	7.33 32.996	7.49 32.831	7.20 32.804	6.51 32.880	7.25 33.296	11.10 34.311	9.05 33.480	11.73 34.143	11.86 34.156	12.66 34.175
75m	4.19 33.397	5.44 33.348	3.45 33.311	7.21 33.810	6.90 33.769	10.16 34.310		9.50 33.920	9.91 33.935	10.69 34.121
100m						9.67 34.282		9.25 33.941	9.75 34.067	10.02 34.138
125m								9.75 34.095	9.02 33.995	8.35 33.962
150m								9.01 34.050	8.45 33.920	6.61 33.776
200m									8.34 33.967	4.08 33.553
250m										2.42 33.453
300m										2.36 33.511
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 4–23

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	HKG004	HKG005	HKG006	HKG007	HKG008	HKG009	HKG010	HKG011	HKG012	HKG013	
Latitude:N	42° 9.9'	42° 15.1'	42° 10.1'	42° 5.7'	42° 0.1'	41° 57.6'	42° 2.4'	42° 5.0'	42° 10.0'	42° 15.0'	
Longitude:E	141° 24.9'	141° 20.0'	141° 15.0'	141° 10.0'	141° 5.0'	141° 2.6'	140° 57.6'	140° 59.9'	141° 4.9'	141° 9.9'	
Date	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/23
Time(JST)	11:28	12:45	13:51	16:00	17:00	17:31	18:28	18:57	19:49	20:42	
Weather											
Air Temp.											
Bar											
Wind Dir											
Wind Spd/F	S	S	S	S	S	S	S	S	S	S	S
Transparency											
Depth											
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	21.7	33.72*	21.9	33.62*	20.4	33.76*	21.2	33.59*	22.6	32.22*	21.9
10m	19.25	33.757	20.58	34.152	19.99	33.729	20.07	33.821	20.29	33.522	20.97
20m	15.92	34.086	16.89	34.181	18.80	33.717	17.02	34.238	17.28	33.853	18.26
30m	13.74	34.154	14.27	34.111	17.01	34.246	15.01	34.343	13.15	34.168	13.20
50m	11.54	34.196	11.79	34.092	12.18	34.084	10.61	34.051	11.40	34.166	12.06
75m	10.13	34.081	11.67	34.195	9.67	33.822	9.87	34.047	9.98	34.039	11.14
100m	8.62	33.976	10.56	34.205	10.52	34.150	9.68	34.105	9.01	33.953	9.26
125m	7.81	33.913	9.99	34.142	10.53	34.204			7.18	N.D.	
150m	6.54	33.784	8.88	34.029	9.60	34.099					
200m	4.01	33.552	7.49	33.899	8.15	33.955					
250m	2.50	33.473	4.95	33.624	4.24	33.568					
300m	2.29	33.544	2.66	33.461							
400m	2.65	33.743	2.33	33.527							
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4-24

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	HKG014	HKG015	HKG016	HKG017	HKG018	HKG019	HKG021	HKG022	HKG023	HKG024	
Latitude:N	42°17.7'	42°15.1'	42°10.1'	42°7.6'	42°10.6'	42°12.5'	42°17.6'	42°25.0'	42°20.0'	42°15.2'	
Longitude:E	141°5.0'	141°0.0'	140°55.1'	140°52.7'	140°46.0'	140°47.2'	140°52.3'	140°49.9'	140°45.0'	140°40.0'	
Date	1994/08/23	1994/08/23	1994/08/23	1994/08/23	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24
Time(JST)	21:25	22:06	22:59	23:37	00:34	00:59	02:06	03:12	04:02	04:54	
Weather											
Air Temp.											
Bar											
Wind Dir											
Wind Spd/F	S	S	S	S	S	S	S	S	S	S	S
Transparency											
Depth											
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	21.2	33.21*	22.6	32.68*	23.0	32.15*	22.7	32.15*	22.8	32.14*	23.0
10m	19.63	33.738	19.05	33.697	20.71	33.461	18.95	32.644	19.68	32.422	21.15
20m	16.21	34.186	14.71	33.578	18.08	33.839	13.68	33.115	13.41	32.891	12.81
30m	14.60	34.317	11.52	33.395	12.41	33.630	10.89	33.261	9.98	33.043	8.91
50m	9.67	33.604	10.87	33.914	9.15	33.609	9.32	33.547	7.01	33.172	6.35
75m						4.52	33.462	4.98	33.499	4.48	33.478
100m											
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4-25

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	HKG025	HKG026	HKG027	HKG028	HKG029	HKG030	HKG031	HKG032	HKG033	HKG034	
Latitude:N	42–10.1	42–15.1	42–17.5	42–20.1	42–22.6	42–25.0	42–27.3	42–30.1	42–25.2	42–20.2	
Longitude:E	140–34.9	140–30.2	140–32.5	140–34.9	140–37.6	140–40.1	140–42.3	140–35.0	140–30.2	140–25.0	
Date	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24	1994/08/24
Time(JST)	05:46	06:34	07:02	07:29	08:03	08:31	08:57	09:50	10:43	11:38	
Weather											
Air Temp.											
Bar											
Wind Dir											
Wind Spd/F	S	S	S	S	S	S	S	S	S	S	S
Transparency											
Depth											
Equipment	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD	CTD
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	22.6	32.12*	22.3	32.12*	22.6	32.14*	22.6	32.09*	22.6	32.09*	22.7
10m	22.16	32.214	22.20	32.147	22.34	32.132	22.57	32.094	22.58	32.088	21.21
20m	19.40	33.057	19.37	32.794	19.86	33.061	20.33	32.997	20.49	33.204	20.38
30m	13.08	33.115	13.78	33.290	13.28	32.919	15.12	33.035	14.52	33.008	14.80
50m	7.36	33.160	7.38	33.130	7.84	33.151	8.05	33.302	9.27	33.508	9.56
75m		5.98 33.489		5.30 33.455		5.30 33.485		6.01 33.581			5.23 33.562
100m											
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4–26

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	HSR001	HSR002	HSR003	HSR003	HSR004	HSR005	HSR006	HSR007	HSR008	HSR009	HSR009
Latitude:N	41–50.0	41–54.1	42–0.1	42–10.5	42–20.0	42–10.1	42–0.2	41–59.5	41–50.0	41–40.2	
Longitude:E	141–19.9	141–9.6	141–20.0	141–19.5	141–20.0	142–29.9	142–20.3	142–35.7	142–10.1	142–0.2	
Date	1994/08/29	1994/08/29	1994/08/30	1994/08/30	1994/08/30	1994/08/30	1994/08/30	1994/08/30	1994/08/31	1994/08/31	1994/08/31
Time(JST)	18:26	19:46	01:13	02:46	04:20	11:16	13:01	18:28	06:01	08:43	
Weather	C	C	C	C	C	C	C	C	C	C	
Air Temp.	23.0	22.0	20.0	22.1	20.7	24.0	22.0	21.0	20.7	22.0	
Bar	1018.0	1018.5	1017.0	1017.0	1018.2	1018.0	1017.0	1017.5	1014.7	1014.0	
Wind Dir	ENE	CALM	ESE	ESE	NE	SE	SE	ESE	ESE	ESE	
Wind Spd/F	F	S 0	S 5	F 1	F 2	S 3	S 2	S 2	F 2	F 2	
Transparency							14				15
Depth	284	178	308	352	240	121	1002	720	1000	1049	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	22.4	33.604	22.2	32.698	21.4	33.785	22.1	33.380	22.3	33.460	22.8
10m	18.57	33.197	22.02	33.068	20.40	33.846	17.70	33.998	20.34	33.862	21.16
20m	17.41	34.210	20.08	33.830	15.44	33.821	14.72	34.135	17.01	34.044	16.54
30m	15.16	34.128	17.71	33.830	12.90	33.960	12.23	34.151	13.73	34.046	15.48
50m	9.99	33.695	9.77	33.743	11.59	34.104	10.33	34.042	11.44	34.221	12.20
75m	8.95	33.757	9.11	33.899	9.56	33.982	9.70	34.090	10.06	34.088	11.39
100m	10.46	34.205	7.60	33.709	9.13	34.081	8.91	34.023	8.79	33.930	10.20
125m	10.06	34.202	6.63	33.790	7.93	33.953	8.52	33.992	8.71	34.011	
150m	9.31	34.105	4.99	33.627	5.94	33.719	7.62	33.918	7.90	33.932	
200m	5.28	33.761			3.59	33.483	4.94	33.633	6.47	33.794	
250m	2.53	33.473			2.53	33.455	2.71	33.461			
300m			2.43	33.475	2.44	33.507					
400m									2.83	33.821	2.93
500m									3.11	33.963	3.13
600m									3.14	34.147	3.24
700m											
800m											
900m											
1000m											

Table 4–27

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199804	199408	199410	199410	199410	199410
Station No	HSR010	HSR011	HSR012	HSR013	HSR014	HSR015	P66	P65	P64	P63
Latitude:N	41–30.2	41–20.4	41–10.0	41–29.8	41–39.9	41–39.7	41–30.0	41–40.0	41–50.0	41–59.9
Longitude:E	141–50.1	141–39.9	141–30.0	141–20.1	141–20.2	140–37.8	141–19.8	141–20.4	141–20.0	141–20.0
Date	1994/08/31	1994/08/31	1994/08/31	1994/09/01	1994/09/01	1994/09/01	1994/10/06	1994/10/06	1994/10/06	1994/10/06
Time(JST)	11:14	13:28	18:46	08:25	10:02	19:04	12:08	13:41	15:25	16:55
Weather	R	BC	BC	B	BC	B	R	R	C	C
Air Temp.	22.0	22.0	21.0	27.0	26.0	23.0	15.0	16.0	15.0	15.0
Bar	1013.0	1011.0	1012.0	1011.0	1011.5	1011.0	1015.0	1014.0	1013.5	1014.5
Wind Dir	S	SW	WSW	W	WS	HNE	SW	SW	WSW	W
Wind Spd/F	F 2	F 3	F 3	F 2	F 2	F 2	S 5	S 9	S 7	S 7
Transparency	15	16		15	15			11	11	
Depth	938	780	496	236	230	92	240	232	286	310
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	22.6	34.167	22.8	34.125	22.8	34.155	23.3	34.193	24.5	33.872
10m	22.33	34.199	21.80	34.133	22.54	34.071	22.72	34.149	23.76	33.905
20m	21.33	34.194	20.58	34.171	21.57	34.219	22.08	34.171	21.00	34.208
30m	20.69	34.206	20.18	34.248	20.72	34.248	21.03	34.245	20.88	34.223
50m	19.31	34.172	19.52	34.203	18.84	34.249	17.71	34.139	20.27	34.250
75m	15.85	34.293	17.90	34.234	14.71	34.026	14.79	34.380	16.18	34.361
100m	14.78	34.353	15.96	34.315	12.49	33.965	13.10	34.382	15.18	34.388
125m	13.39	34.285	13.40	34.027	11.29	34.094	11.92	34.356	13.35	34.322
150m	12.65	34.286	12.16	34.127	10.90	34.173	11.11	34.332	9.96	34.205
200m	11.45	34.247	8.22	33.762	7.17	33.768	10.43	34.313	3.22	33.498
250m	10.04	34.149	5.90	33.670	5.40	33.604				
300m	9.01	34.088	4.36	33.542	3.01	33.458				
400m	2.94	33.478	2.23	33.561	2.52	33.676				
500m	2.52	33.681	3.00	33.888						
600m	2.95	33.853	3.22	34.078						
700m										
800m										
900m										
1000m										

Table 4–28

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	
Station No	P62	P61	HSR001	HW001	HW003	HW002	HW011	HW010	HW004	HW006		
Latitude:N	42–10.0	42–20.1	41–40.3	41–20.0	41–30.4	41–30.1	41–30.1	41–39.9	41–40.0	41–50.0		
Longitude:E	141–20.1	141–19.9	140–38.2	139–40.0	139–31.2	139–39.9	139–54.9	139–55.0	139–40.1	139–30.1		
Date	1994/10/06	1994/10/06	1994/10/17	1994/10/24	1994/10/24	1994/10/24	1994/10/24	1994/10/25	1994/10/25	1994/10/25		
Time(JST)	18:31	20:02	18:18	17:36	20:36	21:49	23:34	01:11	03:04	05:05		
Weather	C	C	C	B	B	BC	BC	BC	BC	B		
Air Temp.	15.0	15.0	8.0	9.0		8.7	8.9	8.5	8.5	8.0		
Bar	1015.0	1015.0	1015.5	1030.0	1030.5	1031.0			1030.5	1030.0		
Wind Dir	SW	SW	NW	WNW	NNW	N	E	E	CALM	CALM		
Wind Spd/F	S 2	S 6	S 3	S 1	S 1	S 1	S 2	S 1	F 0	F 0		
Transparency												
Depth	364	238	92	533			260	1000	1428	602		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S		
0m	19.4	33.841	19.2	33.794	17.4	33.972	18.4	33.606	17.3	33.945	18.0	33.779
10m	19.49	33.824	19.39	33.778	18.45	33.903	20.90	33.509	20.20	33.621	20.06	33.656
20m	19.50	33.828	19.39	33.784	18.43	33.906	20.89	33.508	20.21	33.631	20.07	33.655
30m	19.29	33.804	18.23	33.845	18.38	33.908	20.70	33.492	19.97	33.680	20.02	33.670
50m	15.36	34.183	17.11	34.084	16.57	34.124	20.35	33.786	18.56	34.160	17.78	34.281
75m	12.69	34.241	12.95	34.294	15.39	34.201	16.66	34.366	14.96	34.491	15.25	34.447
100m	11.57	34.228	11.19	34.186			14.53	34.524	13.16	34.559	12.99	34.545
125m	10.35	34.173	10.15	34.141			12.05	34.526	9.43	34.332	11.44	34.470
150m	9.28	34.085	9.13	34.064			9.51	34.326	6.63	34.177	10.05	34.353
200m	5.94	33.738	6.59	33.811			5.59	34.123	3.09	34.070	6.14	34.148
250m	3.24	33.486					3.49	34.078	2.13	34.057	2.22	34.055
300m	2.56	33.505					1.21	34.062	1.39	34.058	1.52	34.058
400m							0.76	34.060	0.77	34.061	0.84	34.062
500m							0.59	34.059	0.49	34.059	0.56	34.060
600m												
700m												
800m												
900m												
1000m												

Table 4–29

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199411	199411	199412	199412	199412
Station No	HW005	HW009	HW008	HW007	HW012	HSR001	HSR002	P64	P65	P66
Latitude:N	41–50.2	41–50.2	42–0.0	41–59.9	41–20.2	41–50.8	41–39.7	41–50.0	41–40.1	41–30.1
Longitude:E	139–44.7	140–0.0	139–59.8	139–39.9	139–54.9	141–13.0	140–40.2	141–19.9	141–20.2	141–20.1
Date	1994/10/25	1994/10/25	1994/10/25	1994/10/25	1994/10/26	1994/11/15	1994/11/17	1994/11/29	1994/11/29	1994/11/29
Time(JST)	06:39	08:17	09:47	11:46	14:49	18:34	17:31	14:14	15:35	17:03
Weather	B	B	B	B	BC	C	BC	BC	BC	BC
Air Temp.	9.0	9.5	14.6	13.4	16.0	1.5	7.5	8.0	6.0	6.0
Bar	1030.0	1031.6	1031.2	1030.4		1036.0	1029.5	1018.0	1019.0	1021.0
Wind Dir	NE	E	E	CALM	CALM	NW	W	NW	NW	NW
Wind Spd/F	S 1	S 2	S 1	F 0	F 0	S 4	S 2	S 3	S 5	S 2
Transparency	17	15	17	17	15			12		
Depth	1360	872	670		134	190	120	285	233	242
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	17.6	33.782	17.8	33.797	17.4	33.821	18.2	33.778	20.3	33.672
10m	19.47	33.722	18.54	33.813	17.92	33.849	18.51	33.797	20.84	33.611
20m	19.47	33.722	18.43	33.830	17.88	33.851	18.50	33.802	20.83	33.612
30m	19.47	33.723	18.33	33.835	17.88	33.852	18.33	33.846	20.80	33.615
50m	18.03	34.282	16.75	33.979	17.87	33.855	18.21	33.864	19.60	33.865
75m	14.40	34.538	13.46	34.417	14.69	34.362	13.34	34.444	15.81	34.414
100m	8.33	34.207	10.36	34.384	11.09	34.408	8.56	34.255	13.89	34.531
125m	4.74	34.098	8.16	34.234	9.14	34.294	6.44	34.159	10.11	34.370
150m	3.30	34.072	6.42	34.172	7.84	34.219	4.92	34.103		
200m	1.93	34.062	4.73	34.103	4.17	34.099	2.88	34.062		
250m	1.33	34.063	3.17	34.072	2.41	34.064	1.78	34.059		
300m	1.07	34.063	1.70	34.065	1.34	34.065	1.35	34.062		
400m	0.62	34.060	0.82	34.062	0.75	34.060	0.88	34.063		
500m	0.52	34.060	0.59	34.060	0.48	34.059	0.58	34.060		
600m										
700m										
800m										
900m										
1000m										

Table 4–30

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199502	199502
Station No	P56	P55	P54	P53	P52	P61	P62	P63	P66	P65
Latitude:N	41–20.4	41–30.0	41–40.2	41–50.2	41–59.0	42–20.2	42–10.2	42–0.1	41–30.1	41–40.0
Longitude:E	141–40.2	141–49.9	142–0.1	142–9.9	142–18.8	141–20.0	141–20.0	141–20.0	141–20.0	141–20.0
Date	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1995/02/23	1995/02/23
Time(JST)	15:42	17:31	19:45	22:01	00:48	07:58	09:26	10:56	14:07	15:29
Weather	C	C	C	BC	B	BC	BC	BC	C	C
Air Temp.	4.0	4.0	4.0	2.0	2.0	3.0	3.0	3.0	2.0	1.0
Bar	1009.0	1009.5	1011.0	1012.5	1015.0	1020.0	1020.5	1020.0	1020.0	1020.0
Wind Dir	N	NNW	N	NNW	NNW	WNW	W	WNW	NW	N
Wind Spd/F	S 2	S 4	S 5	S 8	S 10	S 3	S 8	S 5	S 5	S 1
Transparency						18	11	16	16	14
Depth	757			1081		239	362	309	246	234
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	13.6	34.021	13.8	34.010	13.7	33.971	11.2	33.980	10.9	33.957
10m	13.82	34.028	14.00	33.988	13.94	33.982	10.82	34.010	11.34	33.986
20m	13.82	34.028	14.01	33.987	13.94	33.983	10.81	34.010	11.35	33.985
30m	13.82	34.028	14.02	33.988	13.96	33.982	10.81	34.009	11.33	33.987
50m	13.80	34.029	14.00	33.991	13.85	33.987	10.81	34.008	10.96	34.024
75m	13.80	34.029	13.99	33.995	13.26	34.009	10.81	34.010	10.94	34.029
100m	13.77	34.028	13.98	34.001	13.14	34.011	10.78	34.014	10.71	34.011
125m	13.67	34.025	13.92	33.995	12.63	34.003	10.62	34.033	10.68	34.007
150m	13.64	34.022	13.52	33.994	11.53	34.063	8.50	33.936	9.29	33.988
200m	10.65	33.993	11.04	34.302	7.64	33.830	5.69	33.694	3.79	33.554
250m	8.63	34.101	6.89	33.945	3.06	33.491	3.16	33.519	2.93	33.563
300m	5.49	33.857	3.37	33.598	2.73	33.545	2.73	33.612	2.77	33.643
400m	2.73	33.706	2.69	33.696	2.94	33.767	2.93	33.755		
500m	3.23	33.981	3.15	33.914	3.20	33.949				
600m	3.23	34.141	3.25	34.048	3.20	34.072				
700m										
800m										
900m										
1000m										

Table 4–31

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199503	199503	199503	199503	199503	199503
Station No	P64	P63	P62	P61	HAD17	HAD16	HAD15	HAD14	HAD13	HAD12
Latitude:N	41–50.2	42– 0.1	42– 9.9	42–19.9	41–23.3	41–20.6	41–18.3	41–15.9	41–13.4	41–10.9
Longitude:E	141–20.0	141–20.0	141–19.9	141–19.9	140–10.1	140–11.1	140–11.6	140–12.3	140–12.9	140–13.6
Date	1995/02/23	1995/02/23	1995/02/23	1995/02/23	1995/03/14	1995/03/14	1995/03/14	1995/03/14	1995/03/14	1995/03/14
Time(JST)	18:30	19:48	21:08	22:37	13:52	14:32	15:03	15:36	16:06	16:34
Weather	C	S	C	C						
Air Temp.	1.0	0.0	0.0	0.0						
Bar	1020.0	1019.5	1019.0	1018.0						
Wind Dir	CALM	CALM	SE	CALM	E	CALM	CALM	CALM	CALM	NNW
Wind Spd/F	S 0	S 0	S 1	S 0	S 2	S 0	S 0	S 0	S 0	S 1
Transparency					10	9	12	15	8	7
Depth	288	311	359	242	56	113	131	142	125	88
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	3.9	33.018	5.0	33.217	6.6	33.436	4.6	33.151	8.8	34.11*
10m	4.06	33.017	5.06	33.255	6.19	33.480	4.34	33.119	8.40	34.106
20m	4.66	33.179	5.06	33.255	6.20	33.482	4.35	33.120	8.23	34.100
30m	4.69	33.189	5.13	33.273	6.20	33.480	4.34	33.119	8.14	34.102
50m	5.71	33.364	5.11	33.274	6.34	33.507	4.35	33.123	7.95	34.124
75m	7.02	33.607	4.96	33.268	6.53	33.545			8.35	34.119
100m	7.02	33.613	5.01	33.278	6.53	33.546			9.06	34.116
125m	6.48	33.556	6.00	33.456	6.57	33.551			9.01	34.119
150m	5.14	33.382	6.89	33.624	6.95	33.627			8.06	34.125
200m	6.21	33.694	5.52	33.580	6.97	33.775			8.00	34.145
250m	4.51	33.685	4.41	33.646	4.39	33.667			8.76	34.108
300m					3.57	33.652				
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 4–32

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199503	199503	199503	199503	199503	199503	199503	199503	199503	199503	199503
Station No	HAD11	HAD47	HAD56	HAD55	HAD54	HAD53	HAD52	HAD51	HAD71	HAD82	
Latitude:N	41– 8.6	41–23.0	41–20.7	41–18.3	41–15.9	41–13.4	41–11.0	41– 8.6	41– 8.6	41–10.7	
Longitude:E	140–14.3	140–10.2	140–11.0	140–11.9	140–12.6	140–12.9	140–13.5	140–14.2	140–14.2	140–13.7	
Date	1995/03/14	1995/03/15	1995/03/15	1995/03/15	1995/03/15	1995/03/15	1995/03/15	1995/03/15	1995/03/15	1995/03/15	
Time(JST)	17:04	02:23	02:57	03:27	04:01	04:31	05:00	05:32	11:46	12:13	
Weather											
Air Temp.				2.0						8.8	
Bar					1030.0						
Wind Dir	NW	NNW	CALM	NW	NNW	NNW	SW	SSE	WSW	SW	
Wind Spd/F	S 1	S 1	S 0	S 1	S 1	S 1	S 3	S 2	S 2	S 2	
Transparency	5								7	11	
Depth	65	71	111		142	126	88	67	65	89	
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	8.5 33.82*	8.3 34.11*	8.4 34.12*	7.8 34.12*	8.4 34.12*	9.0 34.12*	8.8 34.10*	8.6 33.97*	9.4 34.02*	9.6 34.12*	
10m	8.58 33.989	8.88 34.112	9.02 34.124	8.12 34.119	8.91 34.118	9.25 34.122	9.03 34.102	8.97 34.053	9.00 34.067	9.40 34.120	
20m	8.62 34.037	8.84 34.113	8.89 34.120	8.17 34.119	8.92 34.118	9.25 34.123	9.03 34.102	8.90 34.069	9.00 34.077	9.18 34.110	
30m	8.60 34.036	8.63 34.116	8.63 34.119	8.18 34.119	8.87 34.117	9.25 34.123	9.04 34.102	8.77 34.055	8.98 34.076	9.06 34.096	
50m	8.58 34.033	8.35 34.111	7.95 34.130	7.86 34.124	8.48 34.116	9.24 34.121	9.00 34.103	8.63 34.038	8.65 34.039	9.06 34.095	
75m			6.83 34.128	7.88 34.123	8.36 34.114	9.06 34.113	8.88 34.080			8.96 34.100	
100m			6.44 34.123	6.92 34.128	8.24 34.118	8.94 34.111					
125m				6.50 34.124	7.96 34.133						
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 4-33

Table 4 Results of serial oceanographic observations. Hokkaido Hakodate Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199503	199503	199503	199503	199503									
Station No	HAD83	HAD84	HAD85	HAD86	HAD87									
Latitude:N	41–13.4	41–15.8	41–18.2	41–20.5	41–23.1									
Longitude:E	140–13.1	140–12.7	140–11.7	140–11.2	140–10.0									
Date	1995/03/15	1995/03/15	1995/03/15	1995/03/15	1995/03/15									
Time(JST)	12:47	13:16	13:47	14:17	14:48									
Weather														
Air Temp.														
Bar														
Wind Dir	W	W	W	WNW	W									
Wind Spd/F	S 4	S 5	S 5	S 6	S 6									
Transparency	10	11	11	11	8									
Depth	125	142	133	115	69									
Equipment	CTD	CTD	CTD	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S
0m	9.4	34.12*	10.5	34.13*	10.0	34.13*	9.8	34.13*	9.2	34.14*				
10m	9.27	34.124	9.52	34.135	9.50	34.132	9.50	34.131	9.26	34.136				
20m	9.21	34.119	9.51	34.134	9.47	34.130	9.38	34.141	9.19	34.136				
30m	9.13	34.108	9.50	34.134	9.45	34.127	9.20	34.140	8.91	34.125				
50m	9.07	34.098	9.43	34.134	9.44	34.134	9.10	34.146	8.61	34.118				
75m	9.03	34.094	9.33	34.135	9.22	34.138	8.15	34.149						
100m	8.99	34.101	9.16	34.115	8.56	34.143	7.29	34.133						
125m			8.86	34.108	7.88	34.136								
150m														
200m														
250m														
300m														
400m														
500m														
600m														
700m														
800m														
900m														
1000m														

Table 4–34

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	
Station No	PK11	P22	P21	P31	P32	P33	PK21	PK22	P34	PK14		
Latitude:N	42–45.0	42–45.1	42–55.2	42–45.1	42–30.1	42–15.1	42–15.0	41–59.1	42–00.1	41–59.9		
Longitude:E	144–29.9	144–59.1	144–59.9	144–00.1	144–00.1	143–59.9	143–29.9	143–29.1	143–59.1	144–29.9		
Date	1994/04/12	1994/04/12	1994/04/12	1994/04/13	1994/04/13	1994/04/14	1994/04/14	1994/04/14	1994/04/14	1994/04/14		
Time(JST)	11:11	13:14	14:15	20:10	22:07	00:04	02:28	03:56	06:02	08:22		
Weather	F	F	BC	B	BC	B	BC	B	B	B		
Air Temp.	4.8	5.0	4.3	5.0	3.0	2.7	4.3	3.0	2.5	3.7		
Bar	1015.0	1013.0	1012.0	1002.0	1003.0	1004.7	1003.5	1003.5	1005.0	1005.5		
Wind Dir	SSW	S	E	WSW	SW	SW	SW	SW	SSW	SSW		
Wind Spd/F	F 2	F 1	F 1	F 5	F 5	F 5	F 5	F 6	F 5	F 5		
Transparency	8	8	6						16	18		
Depth	131	168	64	65	496		67	123	1121	1695		
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	1.4	33.598	1.4	32.395	2.6	32.137	2.3	31.562	0.8	32.443	0.9	32.803
10m	0.27	32.530	0.01	32.531	1.40	32.331	1.24	32.393	0.42	32.590	0.89	32.890
20m	0.10	32.565	-0.44	32.643	0.23	32.467	0.73	32.528	-0.07	32.693	0.88	32.889
30m	-0.09	32.585	-0.44	32.647	0.05	32.537	0.30	32.579	-0.13	32.745	0.80	32.887
50m	-0.26	32.678	-0.37	32.673	-0.05	32.564	0.02	32.756	0.00	32.843	0.67	32.964
75m	-0.23	32.717	-0.32	32.713					0.26	32.943	0.99	33.163
100m	0.13	32.817	-0.08	32.791					0.46	33.027	0.75	33.176
125m			0.96	33.278					0.72	33.130	0.76	33.230
150m			1.15	33.369					1.08	33.254	1.33	33.315
200m									1.23	33.329	1.07	33.367
250m									1.28	33.367	1.48	33.443
300m									1.47	33.442	1.32	33.462
400m									1.83	33.589	1.41	33.518
500m										1.60	33.603	
600m										2.09	33.751	
700m												
800m												
900m												
1000m												

Table 5–1

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	PK13	PK12	P23	P24	P25	PK05	PK04	PK03	PK02	PK01
Latitude:N	42–14.1	42–30.0	42–30.0	42–15.2	42–00.2	42–00.1	42–14.1	42–30.0	42–44.1	42–54.8
Longitude:E	144–29.9	144–30.0	144–59.9	144–59.9	144–59.1	145–30.0	145–30.0	145–29.1	145–29.1	145–30.1
Date	1994/04/14	1994/04/14	1994/04/14	1994/04/14	1994/04/14	1994/04/14	1994/04/14	1994/04/15	1994/04/15	1994/04/15
Time(JST)	10:11	11:52	15:00	16:55	18:53	21:06	22:51	00:39	02:21	03:37
Weather	B	BC	BC	B				B	B	B
Air Temp.	4.0	4.8	3.4	3.7	3.7	4.4	4.0	3.5	3.0	2.2
Bar	1005.0	1003.0	1003.0	1005.0	1007.0	1009.0	1008.5	1007.5	1007.0	1006.5
Wind Dir	SW									
Wind Spd/F	F 5	F 5	F 6	F 7	F 6	F 5	F 5	F 5	F 5	F 5
Transparency	13	8	8							157
Depth			1708							
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	1.5	32.998	1.6	33.117	0.9	32.889	1.2	33.203	1.5	33.216
10m	1.08	32.980	1.21	33.099	0.57	32.838	1.17	33.117	1.45	33.210
20m	1.02	32.992	1.21	33.100	0.84	33.033	1.25	33.171	1.46	33.211
30m	0.96	33.010	1.20	33.102	0.90	33.077	1.32	33.207	1.46	33.207
50m	0.89	33.128	1.07	33.114	1.04	33.161	1.36	33.224	1.46	33.211
75m	0.95	33.236	0.92	33.151	0.93	33.168	1.21	33.232	1.40	33.212
100m	1.02	33.270	0.86	33.215	0.80	33.233	0.95	33.224	1.39	33.241
125m	1.08	33.311	0.87	33.230	0.91	33.309	1.15	33.297	1.31	33.254
150m	1.16	33.347	0.96	33.278	1.01	33.346	1.61	33.408	2.24	33.533
200m	1.30	33.425	1.16	33.357	1.16	33.398	2.97	33.660	3.04	33.768
250m	1.32	33.474	1.22	33.426	1.33	33.456	2.44	33.675	3.15	33.859
300m	1.42	33.521	1.27	33.468	1.34	33.519	2.81	33.768	3.06	33.912
400m	1.81	33.637	1.65	33.580	1.85	33.664	3.02	33.959	3.06	34.024
500m	2.02	33.723	2.43	33.764	2.25	33.834	3.01	34.082	3.15	34.140
600m	2.37	33.821	2.70	33.908	2.73	33.977	3.07	34.165	2.99	34.208
700m										
800m										
900m										
1000m										

Table 5–2

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	
Station No	P11	P12	P13	P14	P15	P16	PKA24	P17	PK06	P26		
Latitude:N	43-04.9	42-55.3	42-46.1	42-30.1	42-14.9	41-59.1	41-30.2	41-30.1	41-30.0	41-30.0		
Longitude:E	145-44.8	145-49.9	145-53.6	145-59.9	145-59.9	145-59.1	146-30.0	146-00.2	145-29.1	144-59.8		
Date	1994/04/15	1994/04/15	1994/04/15	1994/04/15	1994/04/16	1994/04/16	1994/04/16	1994/04/16	1994/04/16	1994/04/16		
Time(JST)	05:05	06:39	07:58	22:24	01:27	03:17	06:46	09:27	12:27	15:15		
Weather	BC	BC	BC		B	B	BC	BC	C	C		
Air Temp.	2.2	2.7	3.4	3.2	4.3	4.4	11.0	12.8	11.0	10.6		
Bar	1007.0	1008.0	1009.0	1015.0	1015.0	1015.5	1016.5	1017.5	1016.0	1015.5		
Wind Dir	SW	WSW	WSW	SW	WSW	SW	WSW	WSW	WSW	SW		
Wind Spd/F	F 5	F 6	F 5	F 5	F 5	F 4	F 6	F 5	F 5	F 5		
Transparency	11		12				17	14	12	14		
Depth	104		1160									
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	1.6	32.477	0.3	32.743	0.6	32.893	1.4	33.216	1.9	33.292	8.8	34.106
10m	0.47	32.480	0.17	32.741	0.50	32.889	1.39	33.199	1.79	33.256	1.75	33.251
20m	-0.04	32.547	0.20	32.793	0.52	32.900	1.39	33.198	1.80	33.256	1.76	33.250
30m	-0.12	32.705	0.52	32.974	0.63	32.970	1.39	33.199	1.79	33.257	1.76	33.251
50m	0.42	33.046	0.45	33.047	0.72	33.159	1.39	33.201	1.80	33.258	1.73	33.250
75m	0.51	33.073	0.62	33.130	0.75	33.215	1.33	33.200	1.72	33.264	1.48	33.246
100m			0.66	33.190	0.91	33.283	1.27	33.277	1.71	33.270	1.34	33.258
125m			0.79	33.261	0.94	33.315	1.73	33.410	1.50	33.291	1.40	33.296
150m			0.86	33.284	0.99	33.333	2.16	33.546	1.79	33.470	1.99	33.502
200m			1.14	33.378	1.14	33.402	2.38	33.681	2.28	33.626	2.29	33.637
250m			1.22	33.428	1.25	33.486	2.88	33.780	2.63	33.749	2.24	33.685
300m			1.24	33.447	1.39	33.538	2.91	33.877	2.79	33.827	2.85	33.830
400m			1.53	33.569	1.79	33.665	2.56	33.947	3.00	33.995	2.94	33.974
500m			1.78	33.648	2.32	33.814	2.72	34.061	3.07	34.112	2.91	34.076
600m			1.88	33.718	2.60	33.950	2.87	34.176	3.11	34.208	2.89	34.167
700m												
800m												
900m												
1000m												

Table 5-3

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	PK15	P35	PK23	PK31	PKA01	PKA02	PK32	PK24	P36	PK16	
Latitude:N	41–30.1	41–29.1	41–30.0	41–30.0	41–00.0	40–59.1	41–00.1	41–00.1	41–00.1	41–00.1	
Longitude:E	144–30.0	143–59.1	143–30.1	142–59.9	142–00.1	142–29.9	142–59.9	143–30.1	144–00.2	144–29.9	
Date	1994/04/16	1994/04/16	1994/04/16	1994/04/17	1994/04/17	1994/04/17	1994/04/17	1994/04/17	1994/04/17	1994/04/17	
Time(JST)	17:41	20:28	22:43	01:11	06:18	08:24	10:39	13:00	15:15	17:23	
Weather	C		BC	BC			C	C	C	C	
Air Temp.	5.0	4.5	3.5	5.0	9.3	7.0	8.5	6.1	6.0	6.0	
Bar	1015.0	1014.5	1014.4	1013.0	1010.0	1009.0	1008.9	1008.2	1007.7	1007.5	
Wind Dir	SW	SW	SSW	W	SSW	SSW	W	W	W	WNW	
Wind Spd/F	F 3	F 3	F 3	F 4	F 5	F 5	F 6	F 4	F 4	F 5	
Transparency					13	7	11	7	10	7	
Depth					869	1521	1911				
Equipment	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	2.1	33.249	1.2	32.761	1.6	32.757	2.5	33.047	6.0	33.600	2.5
10m	2.01	33.227	0.99	32.758	1.30	32.726	2.09	33.016	5.29	33.580	1.89
20m	1.82	33.223	1.02	32.833	0.99	32.793	2.05	33.021	4.62	33.483	1.09
30m	1.75	33.225	1.14	32.939	0.86	32.840	1.92	33.019	4.85	33.570	0.90
50m	1.68	33.225	1.08	33.166	0.78	32.955	1.41	33.047	6.53	33.836	0.67
75m	1.52	33.216	1.08	33.174	0.88	33.138	1.18	33.141	6.81	33.888	2.47
100m	1.37	33.221	1.10	33.193	0.95	33.180	0.93	33.181	6.61	33.868	1.75
125m	1.14	33.251	0.97	33.247	0.98	33.204	1.15	33.233	6.72	33.896	0.98
150m	1.59	33.400	1.20	33.316	1.07	33.230	1.11	33.257	6.62	33.885	1.02
200m	2.13	33.594	1.49	33.417	1.23	33.317	1.16	33.296	6.30	33.875	1.15
250m	2.52	33.700	1.97	33.546	1.20	33.403	1.25	33.335	3.56	33.528	1.58
300m	2.66	33.766	1.91	33.594	1.31	33.484	1.45	33.405	1.64	33.369	1.49
400m	3.04	33.938	2.38	33.767	1.56	33.583	1.53	33.510			2.78
500m	2.70	34.016	3.06	33.985	1.90	33.674	2.73	33.756			2.87
600m	2.70	34.046	3.07	34.113	2.19	33.778	2.66	33.846			3.24
700m											
800m											
900m											
1000m											

Table 5-4

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	
Station No	P27	PK07	P18	PKA25	PKA28	PKA29	PKA26	PKA21	PKA18	PKA15		
Latitude:N	41–00.1	40–59.9	41–00.0	40–59.1	40–59.8	40–30.1	40–29.9	40–30.0	40–30.0	40–30.0		
Longitude:E	144–59.9	145–30.0	146–00.2	146–30.0	146–59.7	147–00.0	146–30.1	146–00.1	145–30.3	145–00.1		
Date	1994/04/17	1994/04/17	1994/04/18	1994/04/18	1994/04/18	1994/04/18	1994/04/18	1994/04/18	1994/04/18	1994/04/18		
Time(JST)	19:33	21:45	00:10	02:29	04:43	07:31	11:01	14:37	18:19	20:59		
Weather			BC	BC	C	BC	BC	B		C		
Air Temp.	6.6	6.5	6.4	6.5	6.5	7.3	7.5	7.1	8.1	8.8		
Bar	1009.0	1010.0	1011.0	1010.5	1012.5	1016.5	1018.0	1018.5	1020.5	1020.5		
Wind Dir	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW	W		
Wind Spd/F	F 7	F 7	F 7	F 7	F 7	F 6	F 6	F 6	F 6	F 4		
Transparency							9	10				
Depth												
Equipment	CTD	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	9.0	34.125	11.9	34.589	7.2	34.223	10.4	34.406	11.1	34.539	9.3	34.215
10m	9.14	34.106	12.70	34.567	9.07	34.151	11.04	34.432	11.27	34.419	9.25	34.186
20m	9.19	34.119	12.66	34.563	9.04	34.149	11.05	34.432	11.26	34.417	9.16	34.170
30m	9.22	34.125	12.71	34.568	9.04	34.144	11.05	34.433	11.20	34.407	9.19	34.176
50m	9.28	34.129	12.49	34.550	7.57	33.952	11.02	34.427	11.18	34.397	8.22	34.050
75m	9.26	34.125	11.64	34.487	7.39	33.919	11.03	34.427	11.02	34.384	5.51	33.696
100m	8.23	33.993	10.89	34.359	7.17	33.901	10.80	34.406	10.51	34.327	5.11	33.648
125m	7.98	33.965	9.24	34.190	7.06	33.899	10.28	34.287	9.06	34.121	4.58	33.583
150m	7.43	33.904	8.69	34.135	6.98	33.893	8.88	34.129	8.19	34.008	3.64	33.462
200m	4.64	33.600	7.35	33.934	6.96	33.888	6.79	33.856	5.60	33.692	3.88	33.639
250m	4.64	33.763	7.01	33.892	6.89	33.879	6.61	33.834	4.44	33.617	1.48	33.477
300m	4.93	33.863	6.66	33.841	6.13	33.763	6.35	33.804	2.52	33.496	1.77	33.532
400m	3.49	33.853	4.75	33.685	3.61	33.595						
500m	3.62	34.023	2.85	33.676	2.60	33.642						
600m	3.32	34.088	3.39	33.919	3.42	33.873						
700m												
800m												
900m												
1000m												

Table 5-5

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	PKA12	PKA09	PKA10	PKA13	PKA16	PKA19	PKA22	PKA27	PKA30	PKA31	
Latitude:N	40-29.1	40-30.0	40-00.1	40-00.2	39-59.1	40-00.1	40-00.0	40-00.0	40-00.0	39-19.1	
Longitude:E	144-19.9	143-39.8	143-39.1	144-19.1	144-59.8	145-30.1	146-00.1	146-29.8	146-59.9	147-00.0	
Date	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/20	
Time(JST)	00:11	02:59	05:47	08:30	11:16	13:27	15:39	17:58	20:26	00:13	
Weather	BC	C	C	C	C	C	C	BC		B	
Air Temp.	8.6	7.3	8.8	10.8	12.0	11.3	9.0	6.0	5.0	4.6	
Bar	1018.5	1016.5	1015.5	1015.5	1012.0	1011.5	1011.5	1012.0	1013.0	1014.5	
Wind Dir	SSW	SSE	SW	W	WSW	W	W	WNW	WNW	NW	
Wind Spd/F	F 3	F 2	F 4	F 3	F 5	F 4	F 2	F 3	F 3	F 4	
Transparency			20	17	12	12	10				
Depth											
Equipment	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	9.1	34.181	6.7	33.814	8.6	34.083	12.6	34.575	9.8	33.779	10.1
10m	9.23	34.139	6.78	33.785	8.52	34.060	12.80	34.563	9.61	34.223	9.95
20m	9.11	34.113	6.78	33.783	8.52	34.057	12.81	34.565	9.61	34.226	9.87
30m	9.04	34.110	6.74	33.791	8.52	34.059	12.81	34.565	9.60	34.229	9.86
50m	8.89	34.081	6.59	33.755	8.53	34.058	12.81	34.566	9.56	34.222	9.80
75m	8.51	34.037	5.87	33.669	8.54	34.061	12.69	34.548	9.46	34.205	9.72
100m	7.16	33.865	5.13	33.703	8.16	34.006	11.76	34.457	8.56	34.083	9.47
125m	5.73	33.688	3.10	33.477	7.02	33.846	11.26	34.419	7.23	33.909	9.11
150m	4.62	33.619	2.35	33.409	5.49	33.666	10.97	34.369	6.98	33.883	7.38
200m	4.81	33.779	1.44	33.348	3.90	33.535	9.33	34.194	6.83	33.868	6.36
250m	4.97	33.871	1.54	33.414	4.55	33.747	6.03	33.719	6.76	33.865	4.72
300m	3.49	33.745	1.77	33.485	5.47	33.962	6.50	33.964	5.69	33.725	3.45
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5-6

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199405	199405	199405	199405	199405
Station No	PKA23	PKA20	PKA17	PKA14	PKA11	P31	P32	P33	P34	P35
Latitude:N	39–20.0	39–19.9	39–19.1	39–20.1	39–20.1	42–45.2	42–30.1	42–15.1	42–00.0	41–29.9
Longitude:E	146–20.1	145–40.3	145–00.1	144–19.9	143–39.8	144–00.2	144–00.0	144–00.0	144–00.0	144–00.0
Date	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/04/20	1994/05/10	1994/05/10	1994/05/10	1994/05/10	1994/05/10
Time(JST)	03:14	06:23	09:30	12:21	15:03	10:50	12:14	13:53	15:41	18:35
Weather	B	B	B	B	B	C	C	C	C	C
Air Temp.	4.6	5.8	10.3	10.6	9.5	7.0	8.1	7.7	5.7	6.5
Bar	1016.5	1019.5	1020.0	1021.0	1018.5	1010.0	1009.0	1009.5	1009.8	1009.5
Wind Dir	NNE	NNE	NE	SW	SSW	SW	SW	SW	SW	SSW
Wind Spd/F	F 4	F 4	F 3	F 3	F 3	F 4	F 5	F 5	F 5	F 4
Transparency			17	19	18	17	4	7	11	7
Depth							493	936		
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	3.4	33.173	8.5	34.045	12.4	34.580	14.4	34.701	12.0	34.439
10m	3.38	33.182	8.45	34.059	12.39	34.554	13.91	34.640	11.27	34.349
20m	3.30	33.193	8.45	34.062	12.32	34.548	13.88	34.641	11.21	34.351
30m	3.26	33.193	8.39	34.052	12.26	34.544	13.87	34.642	10.89	34.299
50m	3.07	33.198	8.16	34.011	11.99	34.511	13.85	34.640	9.05	34.052
75m	2.62	33.215	7.11	33.858	11.85	34.493	12.06	34.452	8.45	33.994
100m	2.23	33.262	5.01	33.554	11.62	34.472	11.02	34.328	7.49	33.873
125m	2.30	33.311	3.42	33.388	11.49	34.464	9.84	34.209	7.13	33.885
150m	1.72	33.330	1.87	33.254	11.48	34.464	8.36	33.997	7.29	33.974
200m	2.31	33.542	1.15	33.282	11.45	34.459	6.73	33.869	6.54	33.973
250m	2.73	33.702	2.70	33.530	9.16	34.126	6.48	33.991	4.56	33.781
300m	2.99	33.842	3.10	33.651	7.46	34.002	2.75	33.498	4.43	33.896
400m									1.26	33.416
500m									1.60	33.576
600m									1.66	33.555
700m									2.27	33.689
800m									1.97	33.669
900m									2.26	33.822
1000m									2.24	33.764

Table 5–7

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	P36	PK16	P27	PK07	P18	P17	P16	P15	P14	P13	
Latitude:N	41-00.2	41-00.0	41-00.0	40-59.9	40-59.1	41-29.8	41-59.8	42-14.1	42-29.9	42-45.1	
Longitude:E	143-59.1	144-29.9	144-59.1	145-30.2	146-00.1	146-00.0	146-00.1	145-59.1	145-59.1	145-54.9	
Date	1994/05/10	1994/05/10	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	
Time(JST)	21:44	23:57	02:10	04:25	06:32	09:21	12:10	13:50	15:29	17:10	
Weather	C	C	C	C	C	C	C	C	C	BC	
Air Temp.	10.9	13.2	13.8	13.7	13.7	9.1	8.6	8.7	7.4	7.5	
Bar	1009.5	1009.5	1008.5	1008.5	1009.5	1008.0	1005.5	1003.5	1002.0	1001.5	
Wind Dir	SW	SW	SSW	SW							
Wind Spd/F	F 5	F 6	F 6	F 6	F 5	F 4	F 5	F 5	F 5	F 5	
Transparency				8	11	5	6	6	11	12	
Depth											
Equipment	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	6.6	33.303	11.8	34.347	12.5	33.230	12.5	34.566	12.2	34.460	3.6
10m	6.13	33.188	11.67	34.367	12.44	34.532	12.38	34.528	12.02	34.458	3.23
20m	7.19	33.470	11.85	34.420	12.39	34.527	12.38	34.528	12.01	34.457	3.10
30m	7.52	33.493	11.80	34.441	12.40	34.527	12.38	34.528	11.99	34.453	5.83
50m	5.63	33.583	11.86	34.479	12.26	34.512	12.38	34.528	11.99	34.458	3.97
75m	5.05	33.606	11.56	34.460	12.02	34.496	12.22	34.515	11.82	34.469	5.39
100m	5.66	33.706	9.80	34.146	11.33	34.431	12.10	34.504	11.48	34.444	4.03
125m	3.40	33.394	9.26	34.144	10.92	34.374	10.39	34.311	10.54	34.314	3.02
150m	2.47	33.368	8.35	34.061	10.11	34.258	9.78	34.237	9.04	34.130	1.25
200m	3.52	33.585	5.60	33.706	7.76	33.915	8.50	34.076	7.19	33.907	1.06
250m	4.86	33.849	3.94	33.546	6.51	33.818	6.77	33.855	6.78	33.862	1.36
300m	4.70	33.891	3.45	33.592	5.13	33.734	5.41	33.715	5.19	33.698	1.40
400m	3.22	33.819	3.69	33.765	3.86	33.750	2.72	33.505	2.18	33.490	2.14
500m	3.77	34.017	3.40	33.884	4.32	33.942	1.98	33.627	2.17	33.591	3.42
600m	3.57	34.113	3.71	34.044	4.23	34.100	2.42	33.767	3.40	33.867	4.07
700m											
800m											
900m											
1000m											

Table 5-8

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	P12	P11	PK01	PK02	PK03	PK04	PK05	PK06	P26	PK15	
Latitude:N	42–55.0	43–04.1	42–55.1	42–45.1	42–30.1	42–14.1	42–00.1	41–30.0	41–30.0	41–30.0	
Longitude:E	145–49.9	145–45.0	145–30.1	145–30.0	145–30.0	145–30.1	145–29.1	145–30.0	145–00.3	144–30.1	
Date	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/11	1994/05/12	1994/05/12	1994/05/12	1994/05/12	1994/05/12	
Time(JST)	18:23	19:39	21:04	22:03	23:43	01:28	03:08	06:09	08:33	11:42	
Weather	C	C	C	BC	C	BC	C	C	C	C	
Air Temp.	5.6	5.0	4.3	4.5	4.0	5.3	5.2	5.8	6.5	6.8	
Bar	1002.0	1004.3	1005.0	1005.0	1005.5	1005.0	1005.4	1006.0	1004.7	1004.0	
Wind Dir	SW	W	WSW	W	NW	CALM	SSE	NW	NNW	WNW	
Wind Spd/F	F 5	F 3	F 2	F 2	F 1	F 0	F 1	F 3	F 4	F 2	
Transparency									14	6	
Depth	1457	104	159								
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	2.9	33.100	2.5	32.290	2.4	32.313	2.3	32.984	2.7	32.988	
10m	2.73	33.119	2.29	32.315	2.26	32.356	2.75	33.031	2.50	33.048	
20m	2.70	33.116	1.50	32.728	1.80	33.041	2.72	33.116	1.98	33.133	
30m	2.68	33.120	1.46	33.081	1.65	33.107	2.69	33.132	1.97	33.159	
50m	1.99	33.115	1.34	33.158	1.16	33.183	2.00	33.113	1.47	33.189	
75m	1.37	33.170	0.88	33.195	0.76	33.198	1.66	33.191	1.49	33.261	
100m	1.90	33.244			0.74	33.200	1.61	33.203	1.67	33.307	
125m	1.49	33.264			0.73	33.204	1.60	33.261	1.66	33.327	
150m	1.42	33.312					1.69	33.309	1.68	33.411	
200m	1.94	33.492					2.09	33.502	2.05	33.600	
250m	2.08	33.587					2.32	33.644	2.59	33.739	
300m	2.31	33.682					2.24	33.681	2.81	33.840	
400m	2.83	33.873					2.48	33.824	2.99	33.984	
500m	2.87	33.988					2.80	33.986	3.10	34.101	
600m	3.01	34.103					2.91	34.103	3.03	34.195	
700m											
800m											
900m											
1000m											

Table 5–9

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	PK14	P25	P24	PK13	PK12	P23	P22	P21	PK11	SU27	
Latitude:N	41–59.9	42–00.0	42–14.1	42–15.0	42–29.8	42–29.1	42–45.1	42–54.7	42–45.0	42–53.0	
Longitude:E	144–29.9	144–59.1	145–00.0	144–30.3	144–30.0	144–59.9	145–00.0	145–00.0	144–30.1	144–19.2	
Date	1994/05/12	1994/05/12	1994/05/12	1994/05/12	1994/05/12	1994/05/13	1994/05/13	1994/05/13	1994/05/13	1994/05/20	
Time(JST)	14:49	17:07	18:45	20:54	22:41	01:06	02:56	03:58	06:06	10:45	
Weather	B	B	BC	BC	BC	B	BC	B	BC	BC	
Air Temp.	7.0	8.4	6.4	6.8	6.0	4.4	4.2	4.5	4.8	7.7	
Bar	1003.0	1001.5	1003.0	1006.0	1007.5	1008.5	1009.5	1010.0	1012.0	1019.0	
Wind Dir	SW	SW	SW	N	NNE	NNW	N	N	N	SSW	
Wind Spd/F	F 2	F 4	F 3	F 6	F 4	F 4	F 4	F 4	F 4	F 3	
Transparency	5	12							7	5	
Depth							170	69	131		
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	4.2	32.535	5.4	33.108	3.7	32.638	3.0	32.344	2.5	32.449	3.2
10m	2.58	32.835	4.02	33.109	2.31	32.642	1.11	32.597	2.33	32.444	3.00
20m	2.47	32.907	3.95	33.111	2.31	33.011	0.71	32.973	1.88	32.456	2.72
30m	2.22	33.130	3.82	33.098	2.18	33.047	0.47	33.038	0.75	32.598	2.68
50m	1.96	33.156	1.83	33.206	1.58	33.179	0.34	33.119	0.64	32.903	1.69
75m	1.57	33.188	1.56	33.233	1.53	33.225	0.66	33.228	0.78	33.123	1.55
100m	1.46	33.216	1.39	33.254	1.56	33.273	0.53	33.262	0.73	33.184	1.52
125m	1.52	33.284	1.46	33.351	1.51	33.321	0.80	33.307	0.81	33.214	1.67
150m	1.54	33.357	1.86	33.485	1.61	33.388	1.00	33.352	0.69	33.242	1.68
200m	1.52	33.484	2.50	33.698	1.96	33.524	1.15	33.400	1.11	33.340	2.24
250m	2.10	33.606	2.74	33.796	2.32	33.667	1.31	33.454	1.24	33.406	2.56
300m	2.61	33.769	2.83	33.868	2.67	33.767	1.42	33.505	1.29	33.458	2.64
400m	2.68	33.891	3.04	34.015	2.94	33.952	1.78	33.645	1.61	33.560	3.17
500m	3.02	34.033	3.18	34.160	2.89	34.062	1.94	33.740	2.10	33.724	2.91
600m	2.85	34.111	3.13	34.230	2.94	34.163	2.63	33.920	2.52	33.903	2.92
700m											
800m											
900m											
1000m											

Table 5–10

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	SU25	SU03	SU24	SU18	SU16	SU19	SU21	SU12	SU15	SU08	
Latitude:N	42–56.4	42–55.5	42–53.4	42–44.5	42–45.3	42–50.2	42–47.0	42–38.2	42–33.8	42–25.7	
Longitude:E	144–19.5	144–11.5	144–13.0	143–58.4	143–56.1	144–00.3	144–01.4	143–43.3	143–45.4	143–31.0	
Date	1994/05/20	1994/05/20	1994/05/20	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/23	1994/05/24	1994/05/24	1994/05/24
Time(JST)	13:00	14:07	15:25	10:30	12:05	12:46	14:20	11:53	14:35	15:57	
Weather	BC	BC	BC	B	BC	BC	BC	BC	B	B	
Air Temp.	6.9	7.1	7.7	9.0	11.1	12.9	12.0	10.9	12.1	13.4	
Bar	1019.0	1019.0	1019.5	1014.5	1014.0	1014.0	1013.0	1016.0	1015.0	1014.0	
Wind Dir	SSW	WSW		S		SE	NNE	S	SW	SSW	
Wind Spd/F	F 4	F 2	F	F 3	F	F 1	F 1	F 3	F 2	F	
Transparency	5	4	4	5	3	4	5	4	7	7	
Depth											
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	3.7	31.86*	4.5	30.68*	3.4	31.94*	4.4	31.26*	4.4	31.31*	5.0
10m	2.32	32.247	3.00	31.928	1.68	32.413	2.00	32.376	2.11	32.296	1.66
20m	1.93	32.341	1.00	32.622	0.98	32.761	1.08	32.589	1.11	32.562	1.26
30m				0.78	32.911	1.02	32.665	0.83	32.649		
50m				0.70	32.909	0.83	32.818				0.83
75m											1.79
100m											32.507
125m											
150m											
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5–11

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199406	199406	199406	199406	199406
Station No	SU11	SU04	SU01	SU05	SU07	P31	PK11	P22	P21	PK02
Latitude:N	42–22.4	42–11.4	42–13.6	42–18.1	42–17.5	42–45.1	42–44.1	42–45.0	42–54.9	42–44.1
Longitude:E	143–33.6	143–27.7	143–25.7	143–26.8	143–29.4	144–00.2	144–29.1	144–59.8	145–00.0	145–30.0
Date	1994/05/24	1994/05/25	1994/05/25	1994/05/25	1994/05/25	1994/05/30	1994/05/30	1994/05/30	1994/05/30	1994/05/30
Time(JST)	17:56	06:51	08:51	09:21	10:52	10:44	12:48	14:56	15:59	18:21
Weather	B	B	B	B	B	C	C	C	C	C
Air Temp.	10.6	9.9	14.5	14.4	11.7	8.6	7.4	7.9	8.1	9.3
Bar	1014.5	1019.5	1018.5	1018.5	1019.0	1005.0	1004.0	1002.4	1002.0	1001.5
Wind Dir	E	NNE	S	ESE	ESE	E	E	SSE	SSE	S
Wind Spd/F	F 2	F 2	F	F 2	F 2	F 3	F 3	F 3	F 2	F 4
Transparency	10	10	9	5	7	6	7	4	7	5
Depth						66	131	168	66	1695
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	4.6	32.27*	4.3	32.33*	3.7	32.38*	5.1	32.42*	3.7	32.46*
10m	3.17	32.510	3.19	32.534	3.29	32.527	2.59	32.512	2.95	32.565
20m	1.77	32.572	2.06	32.501	1.37	32.616	1.06	32.654	1.90	32.599
30m	0.92	32.705	1.45	32.586			0.98	32.694	2.33	32.533
50m	0.78	32.757	1.12	32.713				1.28	32.669	0.99
75m									1.10	33.148
100m									1.01	33.186
125m										0.90
150m										0.90
200m										
250m										
300m										
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 5–12

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	PK01	P11	P12	P13	P14	PK03	P23	PK12	P32	PK21	
Latitude:N	42–55.1	43–04.9	42–55.2	42–45.2	42–30.2	42–29.1	42–30.0	42–29.1	42–29.1	42–15.1	
Longitude:E	145–29.9	145–44.8	145–49.9	145–54.8	145–59.9	145–30.0	144–59.8	144–30.2	144–00.2	143–30.1	
Date	1994/05/30	1994/05/30	1994/05/30	1994/05/30	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	
Time(JST)	19:31	20:56	22:12	23:34	01:34	04:01	06:40	08:46	10:59	13:38	
Weather	C	R	C	F	F	F	B	B	B	B	
Air Temp.	8.3	6.9	8.1	7.5	7.1	7.1	9.5	9.1	10.3	8.6	
Bar	1001.5	1001.5	1001.0	1001.0	1001.7	1004.0	1005.0	1005.4	1005.0	1005.0	
Wind Dir	S	S	S	SW	WSW	WSW	SW	SW	SSW	SSW	
Wind Spd/F	F 4	F 5	F 4	F 4	F 5	F 3	F 4	F 4	F 4	F 6	
Transparency						7	4	6	5	6	
Depth	150	105							500	69	
Equipment	CTD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	3.8 32.589	4.2 32.621	7.1 32.984	5.5 32.762	4.4 32.835	7.5 33.051	7.2 33.016	4.1 32.578	7.3 30.899	4.5 32.183	
10m	3.00 32.659	3.82 32.710	5.83 32.943	4.88 32.719	3.93 32.819	6.35 33.042	6.25 33.010	4.22 32.882	5.34 32.094	3.70 32.242	
20m	1.91 32.945	3.34 32.760	2.09 32.862	3.48 32.827	3.46 32.840	5.51 33.071	5.46 33.003	3.92 32.954	3.67 32.738	2.30 32.434	
30m	2.52 33.146	2.77 32.846	1.30 32.970	2.38 32.898	2.59 32.878	4.16 33.103	3.42 33.068	3.41 33.005	3.08 32.816	1.31 32.609	
50m	0.99 33.116	0.67 33.017	0.84 33.065	0.92 33.044	1.56 33.000	2.71 33.178	2.43 33.138	1.97 33.186	2.18 33.026	1.09 32.662	
75m	0.75 33.213	0.69 33.155	0.81 33.170	0.81 33.207	1.03 33.165	1.73 33.234	1.69 33.189	1.74 33.250	1.13 33.070		
100m	0.80 33.252		0.97 33.252	0.99 33.275	1.30 33.283	1.52 33.245	1.55 33.230	1.19 33.264	1.01 33.105		
125m	0.82 33.274		0.96 33.283	0.98 33.308	1.26 33.336	1.37 33.268	1.53 33.270	1.11 33.307	1.09 33.194		
150m			0.98 33.323	1.05 33.351	1.00 33.371	1.60 33.385	1.64 33.355	1.31 33.354	1.39 33.258		
200m				1.20 33.405	1.25 33.429	1.15 33.448	2.33 33.621	2.23 33.578	1.30 33.414	1.13 33.310	
250m					1.30 33.459	1.37 33.504	1.36 33.523	2.60 33.727	2.57 33.726	1.47 33.484	1.56 33.428
300m					1.44 33.513	1.56 33.569	1.69 33.618	2.87 33.834	2.46 33.767	1.77 33.571	1.40 33.485
400m					1.63 33.612	2.17 33.732	2.07 33.738	2.91 33.960	2.79 33.928	2.29 33.723	1.83 33.613
500m					2.41 33.790	2.45 33.840	2.59 33.893	2.98 34.078	2.89 34.057	2.72 33.854	
600m					2.82 33.953	2.72 33.965	2.84 34.007	2.96 34.176	2.94 34.164	2.81 34.029	
700m											
800m											
900m											
1000m											

Table 5–13

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	P33	PK13	P24	PK04	P15	P16	PK05	P25	PK14	P34
Latitude:N	42-15.0	42-15.0	42-14.1	42-15.0	42-15.1	42-00.2	42-00.0	42-00.0	41-59.1	41-59.9
Longitude:E	143-59.9	144-30.0	144-59.7	145-29.6	145-59.8	145-59.1	145-29.9	145-00.3	144-30.3	143-59.1
Date	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/01
Time(JST)	15:36	17:51	20:05	22:21	00:43	03:10	05:36	07:59	10:22	12:43
Weather	BC	BC	B	B	B	C	F	F	F	B
Air Temp.	10.3	9.1	9.1	9.3	9.0	9.0	10.5	9.5	9.0	11.1
Bar	1006.0	1007.0	1008.0	1009.0	1008.7	1008.0	1008.0	1007.5	1007.0	1005.0
Wind Dir	SW	SW	SSW	SSW	S	SSE	S	SSE	SE	SW
Wind Spd/F	F 5	F 4	F 5	F 5	F 3	F 3	F 3	F 3	F 2	F 2
Transparency	10	6					7	6	8	11
Depth	927	1605								
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	6.1	32.173	5.9	32.977	7.5	32.953	7.8	33.006	6.3	33.025
10m	5.60	32.451	5.65	32.909	7.33	32.907	7.59	32.995	7.15	33.027
20m	4.49	32.633	5.53	32.921	4.29	33.001	5.45	33.030	6.11	33.024
30m	3.89	33.056	4.52	32.952	3.72	33.060	4.40	33.070	4.82	33.010
50m	2.10	33.157	2.26	33.130	2.46	33.166	3.35	33.142	3.00	33.154
75m	1.37	33.162	1.73	33.207	1.67	33.243	1.56	33.227	1.73	33.230
100m	1.23	33.209	1.63	33.243	1.52	33.268	1.41	33.249	1.50	33.241
125m	1.05	33.251	1.54	33.296	1.59	33.326	1.35	33.276	1.36	33.268
150m	1.10	33.297	1.57	33.368	1.79	33.409	1.88	33.467	1.55	33.382
200m	1.20	33.391	2.13	33.577	2.40	33.628	2.34	33.641	2.18	33.573
250m	1.42	33.482	2.39	33.682	2.44	33.707	2.56	33.752	2.69	33.715
300m	1.56	33.552	2.60	33.763	2.66	33.786	2.79	33.849	2.56	33.758
400m	2.56	33.783	2.42	33.870	2.82	33.959	2.86	34.000	2.87	33.930
500m	2.58	33.891	2.86	34.027	2.94	34.076	2.96	34.119	2.85	34.030
600m	3.04	34.066	2.80	34.101	2.98	34.180	2.94	34.198	2.98	34.147
700m										
800m										
900m										
1000m										

Table 5-14

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	PK22	PK31	PK23	P35	PK15	P26	PK06	P17	PKA24	PKA28		
Latitude:N	42–00.0	41–29.9	41–30.1	41–30.0	41–30.0	41–30.0	41–29.1	41–30.0	41–30.0	41–00.0		
Longitude:E	143–30.2	143–00.0	143–29.8	143–59.8	144–30.0	144–59.9	145–30.1	145–59.8	146–29.8	146–59.1		
Date	1994/06/01	1994/06/01	1994/06/01	1994/06/01	1994/06/02	1994/06/02	1994/06/02	1994/06/02	1994/06/02	1994/06/02		
Time(JST)	15:35	18:58	21:07	23:15	01:28	03:49	06:01	08:07	10:17	13:27		
Weather	B	BC	C	BC	C	BC	BC	B	F	C		
Air Temp.	8.8	13.6	12.1	13.3	9.6	8.3	10.3	13.1	14.8	16.5		
Bar	1003.7	1005.5	1006.0	1005.0	1004.7	1005.0	1005.0	1005.5	1005.0	1004.7		
Wind Dir	SW	W	SW	WSW	WSW	SW	SSW	SSW	WSW	WSW		
Wind Spd/F	F 4	F 2	F 3	F 3	F 3	F 3	F 3	F 2	F 2	F 2		
Transparency	9						12	18	17	12		
Depth	125	1162										
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	4.3	32.468	12.0	33.782	10.7	32.649	12.1	33.606	5.4	32.387	6.5	32.528
10m	3.97	32.463	10.62	33.712	9.65	33.336	11.18	33.782	5.17	32.396	5.89	32.520
20m	3.75	32.464	10.45	33.944	8.73	33.397	10.01	33.727	3.63	32.540	5.46	32.557
30m	3.57	32.459	10.43	34.010	7.04	33.116	9.70	33.761	1.62	32.906	3.81	32.629
50m	3.20	32.461	9.98	34.025	3.48	32.975	9.62	33.817	1.13	33.174	3.09	32.954
75m	0.53	32.881	9.43	34.024	8.00	33.889	9.43	33.933	0.96	33.223	1.33	33.165
100m	0.69	33.045	8.98	33.983	7.48	33.866	8.50	33.937	1.04	33.264	1.19	33.182
125m			7.96	33.911	6.39	33.750	5.76	33.537	1.04	33.301	1.22	33.234
150m			7.04	33.854	3.23	33.398	4.75	33.546	1.13	33.331	1.36	33.298
200m			3.80	33.532	3.12	33.496	4.37	33.558	1.15	33.370	1.59	33.423
250m			2.35	33.427	2.24	33.567	3.10	33.496	1.25	33.408	1.78	33.518
300m			2.57	33.588	2.22	33.616	2.65	33.530	1.30	33.444	2.12	33.622
400m			3.82	33.906	2.85	33.809	2.11	33.601	1.81	33.572	2.69	33.810
500m			2.67	33.833	2.88	33.913	2.95	33.801	2.25	33.716	2.81	33.943
600m			3.35	34.048	3.07	34.057	3.87	34.085	3.14	33.911	2.96	34.097
700m												
800m												
900m												
1000m												

Table 5–15

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	PKA25	P18	PK07	P27	PK16	P36	PK24	PK32	PKA02	PKA01	
Latitude:N	40–59.1	41–00.1	41–00.1	41–00.0	41–00.0	41–00.0	41–00.0	41–00.1	41–00.0	40–59.9	
Longitude:E	146–30.2	145–59.9	145–30.2	145–00.2	144–30.0	143–59.1	143–29.8	142–59.9	142–30.2	142–00.3	
Date	1994/06/02	1994/06/02	1994/06/02	1994/06/02	1994/06/03	1994/06/03	1994/06/03	1994/06/03	1994/06/03	1994/06/03	
Time(JST)	15:41	17:52	20:10	22:27	00:40	02:53	05:11	07:28	09:45	11:52	
Weather	C	B	BC	BC	C	BC	C	B	C	BC	
Air Temp.	14.5	14.3	13.8	13.8	11.1	14.1	14.6	14.3	15.3	14.8	
Bar	1004.5	1005.5	1006.0	1006.5	1006.0	1005.5	1006.0	1007.0	1007.0	1007.2	
Wind Dir	NW	CALM	SW	W	S	S	SW	WSW	W	NNE	
Wind Spd/F	F 3	F 0	F 2	F 2	F 3	F 4	F 3	F 3	F 3	F 2	
Transparency	14	14					13	15	15	17	
Depth										878	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	15.2	34.301	14.6	34.389	14.1	34.307	14.4	34.000	9.7	32.318	
10m	13.75	34.420	13.73	34.371	13.41	34.387	13.91	33.981	7.04	32.706	
20m	13.45	34.442	13.26	34.400	12.99	34.396	12.92	33.989	10.17	33.751	
30m	13.03	34.454	12.95	34.419	12.68	34.409	11.83	33.825	10.29	33.857	
50m	12.65	34.471	12.52	34.438	12.34	34.411	7.20	33.431	9.83	33.910	
75m	12.15	34.480	12.20	34.444	11.41	34.415	4.57	33.462	9.74	34.192	
100m	11.63	34.451	12.02	34.459	9.87	34.229	2.34	33.285	9.04	34.131	
125m	10.29	34.284	11.72	34.455	8.95	34.106	2.04	33.301	7.08	33.851	
150m	8.72	34.093	10.91	34.372	7.55	33.946	1.85	33.312	4.58	33.502	
200m	7.84	33.990	9.09	34.111	6.40	33.804	1.90	33.429	4.59	33.539	
250m	7.17	33.907	7.54	33.929	1.54	33.266	2.39	33.563	3.55	33.585	
300m	6.94	33.881	5.66	33.710	1.88	33.395	3.39	33.768	3.85	33.713	
400m		3.66	33.639	3.87	33.780	4.07	33.994	3.50	33.843	3.39	33.673
500m		1.87	33.557	4.29	33.982	3.97	34.113	2.44	33.814	3.54	33.868
600m		2.34	33.695	3.49	34.005	3.17	34.092	3.81	34.114	3.66	34.018
700m											
800m											
900m											
1000m											

Table 5–16

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	PKA03	PKA06	PKA09	PKA12	PKA15	PKA18	PKA21	PKA26	PKA29	PKA30	
Latitude:N	40–30.0	40–30.0	40–30.1	40–30.0	40–29.9	40–30.1	40–30.0	40–29.1	40–29.1	39–59.3	
Longitude:E	142–19.1	143–00.1	143–39.8	144–19.8	144–59.1	145–30.1	146–00.1	146–29.8	146–59.8	146–59.7	
Date	1994/06/03	1994/06/03	1994/06/03	1994/06/03	1994/06/04	1994/06/04	1994/06/04	1994/06/04	1994/06/04	1994/06/04	
Time(JST)	14:53	17:55	20:48	23:37	02:28	04:41	06:54	09:08	11:18	13:49	
Weather	C	BC	BC	BC	BC	BC	B	BC	C	C	
Air Temp.	15.1	14.1	12.8	12.6	13.1	12.6	14.1	16.7	16.8	13.1	
Bar	1008.0	1009.2	1011.0	1012.0	1012.0	1013.0	1014.0	1014.5	1014.5	1014.7	
Wind Dir	N	W	WNW	WSW	W	W	W	WSW	SW	SW	
Wind Spd/F	F 3	F 2	F 3	F 4	F 4	F 3	F 4	F 4	F 3	F 2	
Transparency	17	15				12	15	12	14	13	
Depth	859										
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	14.0	33.610	13.1	33.353	14.1	33.954	12.1	33.262	14.0	33.809	9.9
10m	12.47	33.867	9.53	33.278	12.53	33.807	10.41	33.447	13.73	33.838	8.12
20m	11.93	33.997	9.02	33.367	12.65	33.913	8.63	33.407	12.48	33.955	6.07
30m	11.82	34.136	6.31	33.044	9.12	33.573	8.34	33.442	10.80	33.973	5.82
50m	11.64	34.367	4.02	33.119	8.81	33.984	5.23	33.462	7.72	33.824	4.78
75m	11.12	34.368	3.96	33.386	5.30	33.627	3.36	33.415	7.73	33.951	2.21
100m	9.98	34.236	4.18	33.502	4.27	33.530	3.22	33.444	6.53	33.814	0.83
125m	9.10	34.114	3.36	33.449	2.53	33.349	2.59	33.398	5.31	33.671	0.79
150m	7.58	33.913	3.03	33.475	2.84	33.393	2.78	33.463	5.15	33.716	1.10
200m	4.66	33.607	2.20	33.436	2.98	33.513	3.18	33.605	3.66	33.596	0.99
250m	2.50	33.421	2.08	33.525	2.57	33.599	2.82	33.671	3.90	33.747	1.10
300m	1.61	33.379	2.04	33.601	3.04	33.717	3.00	33.760	3.56	33.771	2.19
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5–17

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	PKA27	PKA22	PKA19	PKA16	PKA13	PKA10	IK01	IK02	IK03	IK04	
Latitude:N	39–59.1	40–00.1	39–59.1	39–59.1	40–00.0	39–59.1	42–40.0	42–15.0	41–50.0	41–40.0	
Longitude:E	146–30.1	145–59.9	145–29.9	145–00.2	144–20.0	143–40.1	144–00.0	144–00.0	144–00.0	143–35.0	
Date	1994/06/04	1994/06/04	1994/06/04	1994/06/04	1994/06/05	1994/06/05	1994/06/14	1994/06/14	1994/06/14	1994/06/14	1994/06/15
Time(JST)	15:50	17:49	19:51	21:57	00:46	03:39	03:03	12:23	18:28	13:23	
Weather	C	C	R	C	R	F	R	R	R	BC	
Air Temp.	14.3	13.1	13.0	14.3	14.8	15.0	9.8	11.2	10.6	12.1	
Bar	1014.5	1014.7	1016.0	1016.0	1015.4	1015.5	1010.0	1006.0	1000.5	1010.0	
Wind Dir	E	NNE	ENE	E	SE	SSW	SE	NE	NE	NW	
Wind Spd/F	F 2	F 3	F 3	F 2	F 3	F 1	F 3	F 4	F 6	F 1	
Transparency	13	15						10			12
Depth											
Equipment	CTD	CTD	CTD	CTD	CTD	CTD	STD	STD	STD	STD	STD
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	13.1	34.309	10.1	32.678	13.9	33.676	14.7	33.604	14.4	33.666	14.5
10m	13.70	34.287	9.16	32.663	12.80	33.506	12.77	33.794	12.77	33.668	13.14
20m	12.78	34.364	8.52	32.920	11.46	33.767	11.69	33.920	11.04	33.717	10.92
30m	12.54	34.379	8.93	33.453	11.14	33.765	11.14	34.026	9.62	33.596	10.02
50m	11.94	34.414	3.31	33.009	7.87	33.778	7.48	33.784	6.16	33.620	7.85
75m	11.69	34.418	1.44	33.081	6.01	33.678	5.88	33.608	5.38	33.628	7.38
100m	10.87	34.360	3.83	33.444	5.17	33.614	3.99	33.423	4.33	33.540	4.77
125m	10.27	34.287	3.37	33.431	4.27	33.544	2.87	33.426	3.51	33.491	4.89
150m	9.31	34.166	4.97	33.587	3.89	33.553	1.95	33.367	2.74	33.437	4.96
200m	6.18	33.724	4.42	33.650	4.11	33.685	2.82	33.547	2.39	33.504	5.68
250m	3.71	33.495	1.72	33.433	5.13	33.926	3.17	33.672	2.54	33.644	5.26
300m	3.83	33.610	1.52	33.457	4.14	33.875	3.44	33.841	3.25	33.814	4.37
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5–18

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	IK05	IK06	IK07	IK08	IK09	IK10	IK11	IK12	IK13	IK14		
Latitude:N	41–30.0	41–45.0	42–00.0	41–30.0	41–00.0	41–00.0	41–00.0	41–00.0	41–00.0	41–00.0		
Longitude:E	143–10.0	142–50.0	142–30.0	142–30.0	142–30.0	143–00.0	143–30.0	144–00.0	144–30.0	145–00.0		
Date	1994/06/15	1994/06/16	1994/06/16	1994/06/17	1994/06/17	1994/06/18	1994/06/18	1994/06/18	1994/06/19	1994/06/19		
Time(JST)	18:29	06:52	18:28	06:53	18:28	06:38	09:02	18:28	15:00	18:25		
Weather	BC	BC	B	BC	F	C	C	C	C	C		
Air Temp.	14.1	14.9	16.1	14.3	13.4	11.8	10.2	11.6	11.5	12.4		
Bar	1004.0	1008.0	1007.0	1009.0	1008.0	1009.0	1011.0	1015.0	1018.0	1018.0		
Wind Dir	N	NW	WNW	ENE	E	ENE	ESE	NE	NE	ENE		
Wind Spd/F	F	F 4	F 3	F 3	F 2	F 5	F 4	F 3	F 4	F 4		
Transparency	9	16	12	7	6	9	8	10	12	10		
Depth												
Equipment	STD	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	8.6	32.025	12.4	33.507	14.4	33.232	14.4	33.649	14.6	33.820	12.7	33.906
10m	7.61	32.03	12.21	33.45	13.49	33.29	13.61	33.52	13.30	33.73	12.49	33.82
20m	6.77	32.59	11.94	33.49	9.10	33.36	12.30	33.65	13.54	34.03	11.94	33.84
30m	7.05	33.22	9.97	33.88	8.94	33.78	10.87	33.71	13.45	34.05	11.77	33.83
50m	4.69	32.92	8.69	33.86	8.39	33.88	9.80	33.92	12.08	34.34	10.89	33.87
75m	7.01	33.61	8.23	33.91	7.32	33.78	8.41	33.83	11.75	34.34	10.20	33.96
100m	6.46	33.40	7.35	33.87	6.00	33.66	8.06	33.90	10.08	34.08	9.60	33.92
125m	1.63	32.97	6.99	33.87	4.97	33.60	7.56	33.88	10.36	34.22	9.18	33.93
150m	0.88	32.94	5.95	33.77	3.07	33.43	5.55	33.62	8.74	33.98	8.38	33.88
200m	3.97	33.45	2.88	33.20	2.46	33.44	3.02	33.41	5.94	33.70	5.60	33.61
250m	3.97	33.58	3.58	33.65	2.18	33.48	2.37	33.41	3.45	33.48	3.10	33.38
300m	2.33	33.59	2.54	33.58	2.34	33.56	2.29	33.49	2.52	33.42	1.86	33.34
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 5–19

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	IK15	IK16	IK17	IK18	IK19	IK20	IK21	IK22	IW01	IW02		
Latitude:N	41-00.0	41-00.0	41-25.0	41-50.0	41-50.0	41-50.0	42-15.0	42-40.0	42-00.0	41-40.0		
Longitude:E	145-30.0	146-00.0	146-00.0	146-00.0	145-30.0	145-00.0	145-00.0	145-00.0	143-58.0	144-00.0		
Date	1994/06/20	1994/06/20	1994/06/21	1994/06/21	1994/06/22	1994/06/22	1994/06/22	1994/06/23	1994/06/28	1994/06/29		
Time(JST)	13:22	18:28	13:20	18:26	13:47	16:03	18:33	05:57	17:51	06:22		
Weather	BC	C	C	R	C	BC	BC	BC	B	C		
Air Temp.	14.0	13.5	13.9	9.4	14.1	12.6	13.7	13.7	12.8	13.2		
Bar	1014.5	1014.0	1012.0	1002.0	1006.0	1007.0	1007.0	1010.0	1014.0	1015.2		
Wind Dir	E	ESE	E	ENE	N	W	W	N	S	S		
Wind Spd/F	F 5	F 6	F 6	F 6	F 4	F 3	F 3	F 3	F 3	F 2		
Transparency	5	5	6	8	12	11	10	12				
Depth												
Equipment	STD	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	T	S	
0m	13.9	34.308	13.2	34.386	13.7	34.226	14.4	33.848	13.4	33.502	11.0	32.864
10m	13.83	34.24	13.80	34.31	13.75	34.23	14.80	33.80	13.32	33.52	10.74	32.89
20m	13.78	34.23	13.81	34.31	13.75	34.23	14.74	33.79	13.87	33.67	11.08	32.94
30m	13.78	34.23	13.80	34.30	13.49	34.20	12.47	33.96	8.05	33.59	10.59	32.88
50m	12.70	34.34	13.07	34.34	12.48	34.39	8.88	33.86	6.18	33.53	3.30	33.00
75m	11.98	34.38	12.00	34.32	12.11	34.40	7.33	33.77	3.30	33.25	2.53	33.23
100m	10.80	34.29	10.68	34.26	11.17	34.33	5.88	33.59	1.48	33.17	2.28	33.27
125m	9.78	34.16	9.89	34.18	10.31	34.22	4.51	33.47	1.57	33.25	2.08	33.23
150m	8.86	34.05	8.81	34.03	9.64	34.16	2.75	33.30	4.10	33.59	1.73	33.30
200m	7.34	33.89	7.44	33.88	7.84	33.89	1.63	33.36	3.01	33.52	3.12	33.57
250m	6.69	33.80	6.99	33.85	6.18	33.70	1.98	33.48	3.72	33.71	1.77	33.52
300m	4.78	33.40	6.86	33.82	3.09	33.41	2.21	33.57	3.48	33.74	2.61	33.68
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 5-20

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	IW03	IW04	IW05	IW06	IW07	IW08	IW09	IW10	IW11	IW12		
Latitude:N	41–20.0	41–00.0	41–00.0	41–00.0	41–01.0	40–40.0	40–20.0	39–59.0	39–40.0	39–20.0		
Longitude:E	144–00.0	144–00.0	143–30.0	143–00.0	142–29.0	142–30.0	142–30.0	142–30.0	142–45.0	143–00.0		
Date	1994/06/29	1994/06/29	1994/06/30	1994/06/30	1994/06/30	1994/07/01	1994/07/01	1994/07/01	1994/07/02	1994/07/02		
Time(JST)	08:47	16:35	09:59	12:44	17:13	07:25	09:57	17:10	07:34	10:28		
Weather	BC	C	C	BC	C	F	F	F	F	F		
Air Temp.	14.0	13.1	15.5	15.5	15.7	16.1	16.3	14.8	15.4	16.4		
Bar	1015.8	1014.9	1012.6	1011.2	1009.5	1010.2	1010.0	1007.9	1003.8	1003.5		
Wind Dir	S	SSE	SSE	SE	SSE	S	S	SE	SSW	SW		
Wind Spd/F	F 3	F 4	F 3	F 4	F 4	F 4	F 5	F 4	F 5	F 5		
Transparency												
Depth												
Equipment	CTD	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	13.8	33.44*	12.6	33.23*	12.0	32.71*	14.5	33.78*	14.1	33.91*	14.3	33.84*
10m	13.56	33.427	11.66	33.021	11.78	32.712	14.33	33.777	13.85	33.908	14.09	33.861
20m	13.11	33.476	10.57	33.066	9.73	32.686	13.85	33.857	12.69	33.923	14.01	33.908
30m	7.25	32.914	10.20	33.633	7.03	32.786	13.35	33.924	12.16	33.937	13.15	33.807
50m	3.96	33.076	6.67	33.645	2.43	33.044	11.18	33.855	10.72	34.133	11.57	33.978
75m	1.76	33.230	5.20	33.572	3.88	33.401	9.90	33.961	10.40	34.138	10.64	34.099
100m	1.47	33.247	4.30	33.524	2.62	33.295	10.01	34.101	10.24	34.137	10.35	34.111
125m	1.39	33.276	3.33	33.446	1.45	33.253	9.78	34.125	9.68	34.038	9.97	34.081
150m	1.65	33.390	2.81	33.435	2.54	33.409	8.35	33.950	9.38	34.009	9.70	34.094
200m	2.19	33.564	2.81	33.572	2.72	33.513	6.88	33.833	8.30	33.938	8.27	33.963
250m	2.37	33.666	2.79	33.620	1.97	33.488	4.91	33.666	3.75	33.477	5.05	33.617
300m	2.53	33.749	3.04	33.734	2.57	33.655	2.17	33.466	2.39	33.416	3.04	33.442
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 5–21

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	IW13	IW14	IW15	IW16	IW17	IW18	IW19	IW20	IW21	IW27	
Latitude:N	39-00.0	39-20.0	39-40.0	40-01.0	40-00.0	40-00.0	40-00.0	40-00.0	40-00.0	40-20.0	
Longitude:E	143-16.0	143-30.0	143-45.0	144-00.0	144-30.0	145-00.0	145-31.0	146-00.0	146-30.0	146-10.0	
Date	1994/07/02	1994/07/03	1994/07/03	1994/07/03	1994/07/04	1994/07/04	1994/07/04	1994/07/05	1994/07/05	1994/07/05	
Time(JST)	17:11	06:59	09:36	17:07	08:12	11:09	17:07	07:20	10:04	12:48	
Weather	BC	B	B	B	BC	BC	BC	R	R	R	
Air Temp.	20.7	18.8	21.2	19.2	16.6	18.4	16.9	15.7	15.2	15.6	
Bar	1003.4	1005.8	1005.2	1003.4	1005.3	1004.5	1003.4	1004.0	1003.5	1002.5	
Wind Dir	SW	WSW	SSW	W	WSW	WSW	W	SSW	SSW	SW	
Wind Spd/F	F 4	F 3	F 3	F 3	F 4	F 4	F 4	F 2	F 3	F 3	
Transparency											
Depth											
Equipment	CTD	CTD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	18.2 33.73*	15.0 33.35*	16.2 33.28*	15.8 33.52*	12.7 32.91*	14.6 32.54*	14.0 32.81*	13.8 32.79*	13.8 32.79*	15.1 33.96*	
10m	17.47 33.685	15.18 33.374	15.57 33.673	15.51 33.626	11.92 32.904	13.84 32.743	12.85 32.760	13.50 32.818	11.57 32.699	14.95 34.059	
20m	14.63 33.739	12.39 33.319	12.91 33.535	13.16 33.634	7.70 32.782	8.94 32.738	5.44 32.893	8.53 32.828	8.18 32.815	14.34 34.028	
30m	11.98 33.871	11.53 33.310	10.37 33.602	10.75 33.648	5.11 32.876	4.22 32.975	4.03 33.040	4.27 32.951	4.81 33.040	13.43 34.038	
50m	11.73 34.293	6.85 33.612	8.62 33.818	7.59 33.817	4.38 33.419	2.20 33.150	2.18 33.049	2.77 33.110	2.89 33.131	8.23 33.620	
75m	10.75 34.294	5.38 33.576	6.84 33.769	6.39 33.730	3.26 33.369	1.71 33.233	1.62 33.129	1.88 33.214	1.81 33.205	8.23 33.952	
100m	9.88 34.242	4.87 33.590	6.25 33.664	6.04 33.717	1.94 33.251	1.48 33.256	1.46 33.221	1.66 33.241	1.44 33.234	6.39 33.747	
125m	6.86 33.818	4.14 33.523	4.98 33.619	4.99 33.620	1.21 33.277	1.46 33.316	1.55 33.309	1.46 33.300	1.59 33.316	5.32 33.654	
150m	5.30 33.634	3.04 33.440	3.93 33.528	4.46 33.602	1.20 33.336	1.71 33.418	1.94 33.466	1.82 33.418	1.82 33.421	3.78 33.515	
200m	3.82 33.540	2.90 33.520	3.38 33.550	4.00 33.641	1.22 33.410	1.87 33.523	2.45 33.627	2.31 33.612	2.23 33.601	1.64 33.359	
250m	4.71 33.790	3.35 33.667	3.32 33.637	2.48 33.556	1.46 33.481	2.27 33.648	2.70 33.742	2.86 33.778	2.42 33.680	2.15 33.502	
300m	5.11 33.958	3.02 33.703	3.29 33.762	2.46 33.606	1.68 33.577	2.48 33.752	2.68 33.823	2.34 33.803	2.95 33.817	2.29 33.595	
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5-22

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199407	199407	199407	199407
Station No	IW28	IW22	IW23	IW24	IW25	IW26	SM14	SM13	SM12	SM11
Latitude:N	40–40.0	41–01.0	41–20.0	41–40.0	42–01.0	42–20.0	44–00.0	44–30.0	45–00.0	45–30.0
Longitude:E	145–50.0	145–29.0	145–30.0	145–30.0	145–30.0	145–00.0	156–30.0	157–30.0	158–00.0	158–30.0
Date	1994/07/05	1994/07/05	1994/07/06	1994/07/06	1994/07/06	1994/07/07	1994/07/15	1994/07/15	1994/07/16	1994/07/16
Time(JST)	15:29	18:30	06:20	08:47	17:10	08:26	06:05	17:17	09:36	17:11
Weather	C	BC	C	C	C	C	BC	F	R	BC
Air Temp.	16.7	15.3	13.1	13.1	12.9	13.9	13.5	12.2	9.5	9.0
Bar	1002.5	1004.0	1009.4	1010.4	1012.3	1014.5	1008.0	1007.0	1011.0	1013.0
Wind Dir	WNW	NE	NNE	NNE	NE	W	SW	SW	WNW	W
Wind Spd/F	F 2	F 4	F 4	F 3	F 4	F 2	F 5	F 4	F 3	F 3
Transparency							10		20	20
Depth										
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	16.4	33.89*	16.2	34.32*	15.6	34.37*	15.8	34.36*	13.6	32.75*
10m	15.93	34.328	16.13	34.318	15.62	34.364	15.97	34.288	13.63	32.875
20m	14.72	34.323	15.87	34.316	15.62	34.364	15.88	34.266	13.78	33.384
30m	13.85	34.358	13.95	34.335	13.90	34.361	14.00	34.170	10.73	33.135
50m	12.34	34.390	12.99	34.395	13.06	34.402	12.51	34.293	3.48	33.086
75m	11.66	34.433	11.74	34.429	12.21	34.387	10.72	34.273	2.12	33.131
100m	10.38	34.277	11.12	34.378	11.62	34.421	9.75	34.189	1.59	33.192
125m	9.56	34.190	10.08	34.255	10.73	34.345	9.11	34.141	1.69	33.255
150m	8.68	34.087	9.41	34.177	9.88	34.224	8.18	34.023	1.91	33.321
200m	7.21	33.912	7.55	33.948	8.09	34.020	6.51	33.814	2.06	33.473
250m	6.44	33.814	7.00	33.888	7.08	33.898	4.26	33.562	2.23	33.599
300m	4.71	33.655	6.60	33.832	6.60	33.833	3.21	33.536	2.32	33.660
400m									3.02	34.009
500m									3.19	34.159
600m									3.18	34.242
700m									3.39	34.178
800m									3.20	34.256
900m									3.06	34.205
1000m									3.03	34.278

Table 5–23

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407
Station No	SM10	SM09	SM08	SM07	SM06	SM05	SM04	SM03	SM15	SM16	
Latitude:N	46–00.0	46–30.0	46–30.0	46–30.0	46–00.0	45–30.0	45–00.0	44–30.0	43–30.0	43–00.0	
Longitude:E	159–00.0	159–30.0	161–40.0	161–00.0	161–40.0	162–30.0	162–30.0	162–30.0	155–30.0	154–30.0	
Date	1994/07/17	1994/07/17	1994/07/18	1994/07/18	1994/07/19	1994/07/19	1994/07/20	1994/07/20	1994/07/22	1994/07/23	
Time(JST)	09:52	17:11	10:29	17:16	08:55	17:11	09:01	17:09	17:12	10:34	
Weather	BC	C	R	C	C	C	C	C	C	C	
Air Temp.	11.1	9.4	9.5	9.5	10.1	9.7	9.6	10.0	13.5	17.2	
Bar	1015.0	1013.6	1007.0	1003.5	1010.0	1011.0	1013.5	1014.5	1015.0	1014.0	
Wind Dir	ENE	E	NE	SW	ENE	ENE	NE	ENE	S	SE	
Wind Spd/F	F 3	F 3	F 5	F 4	F 1	F 4	F 3	F 4	F 2	F 2	
Transparency	15		16		13		15				16
Depth											
Equipment	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	8.9	32.849	7.7	32.915	8.1	32.846	8.6	32.838	9.6	33.021	9.7
10m	7.52	32.896	7.27	32.920	7.80	32.869	8.22	32.851	8.96	33.009	9.27
20m	7.44	32.913	7.00	32.924	7.52	32.888	7.31	32.927	8.91	33.007	9.14
30m	6.32	32.964	6.36	32.965	6.03	32.955	6.44	32.978	8.46	33.018	8.75
50m	5.04	32.997	3.34	33.028	2.52	33.097	3.43	33.113	4.80	33.230	3.73
75m	2.12	33.131	2.03	33.148	1.96	33.150	2.02	33.174	3.94	33.244	3.01
100m	1.74	33.172	1.79	33.195	1.76	33.209	1.69	33.215	3.35	33.276	2.66
125m	1.87	33.286	2.13	33.448	2.05	33.437	1.78	33.372	3.66	33.364	2.51
150m	2.79	33.655	2.82	33.678	2.75	33.671	2.52	33.617	3.66	33.364	2.65
200m	3.34	33.877	3.34	33.872	3.27	33.872	2.97	33.779	3.68	33.708	2.70
250m	3.44	33.975	3.37	33.957	3.36	33.958	3.15	33.883	3.53	33.765	2.86
300m	3.40	34.036	3.37	34.020	3.41	34.034	3.34	33.988	3.44	33.837	3.03
400m	3.30	34.138	3.29	34.139	3.37	34.155	3.21	34.089	3.47	33.995	3.55
500m	3.17	34.227	3.14	34.223	3.25	34.238	3.20	34.188	3.45	34.117	3.65
600m	3.05	34.287	3.03	34.283	3.08	34.281	3.10	34.272	3.35	34.195	3.25
700m											
800m											
900m											
1000m											

Table 5–24

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199408	199408	199408	199408	199408
Station No	SM17	SM18	SM19	SM20	SM21	P31	PK11	P22	P21	PK02
Latitude:N	42-30.0	42-00.0	41-30.0	41-00.0	40-30.0	42-45.0	42-44.8	42-44.9	42-55.0	42-43.9
Longitude:E	153-30.0	152-30.0	151-30.0	150-30.0	149-30.0	143-59.9	144-30.1	145-00.1	144-59.7	145-28.8
Date	1994/07/23	1994/07/24	1994/07/24	1994/07/25	1994/07/25	1994/08/01	1994/08/01	1994/08/01	1994/08/01	1994/08/01
Time(JST)	17:10	10:18	17:15	10:41	17:11	10:44	12:53	14:57	15:58	18:20
Weather	C	BC	BC	C	C	F	B	BC	BC	F
Air Temp.	17.4	20.1	19.8	19.6	19.9	19.7	22.8	23.2	21.6	20.6
Bar	1012.0	1008.0	1005.0	1009.0	1010.0	1007.0	1006.0	1005.5	1005.5	1006.0
Wind Dir	E	NE	NE	NNE	S	S	CALM	SSW	CALM	SSW
Wind Spd/F	F 1	F 3	F 5	F 3	F 2	F 1	F 0	F 3	F 0	F 1
Transparency		20		21		11	8	10	6	
Depth						64	131	169	65	1738
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	17.8	33.250	18.2	33.620	20.0	33.550	19.6	33.274	20.3	33.243
10m	13.23	33.393	16.00	33.590	17.04	33.548	16.53	33.217	19.32	33.270
20m	11.80	33.415	15.17	33.760	14.62	33.542	13.25	33.245	11.91	34.037
30m	9.65	33.350	12.29	33.625	8.95	33.184	9.47	33.278	8.34	33.367
50m	7.16	33.611	9.55	34.038	5.96	33.545	4.67	33.366	3.80	33.261
75m	6.48	33.768	7.22	33.864	7.38	33.864	3.82	33.424	6.30	33.798
100m	5.37	33.665	5.48	33.640	6.10	33.734	3.64	33.458	5.42	33.625
125m	4.03	33.501	4.62	33.582	5.57	33.733	3.09	33.441	3.55	33.512
150m	3.39	33.472	3.75	33.538	4.42	33.629	2.95	33.466	2.84	33.459
200m	3.14	33.566	2.92	33.534	2.01	33.440	3.33	33.598	3.26	33.612
250m	3.34	33.703	3.33	33.719	2.83	33.634	2.95	33.673	2.67	33.620
300m	3.22	33.773	3.68	33.816	4.25	33.884	3.21	33.788	3.79	33.873
400m	3.45	33.943	3.95	34.017	4.34	34.050	3.42	33.951	3.23	33.953
500m	3.52	34.076	3.46	34.074	3.83	34.098	3.00	34.037	4.06	34.214
600m	3.57	34.204	3.42	34.176	3.90	34.268	3.36	34.194	3.27	34.201
700m										
800m										
900m										
1000m										

Table 5-25

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	
Station No	PK01	P11	P12	P13	P14	PK03	P23	PK12	P32	P33		
Latitude:N	42-54.8	43-04.1	42-55.0	42-45.1	42-29.7	42-29.1	42-29.1	42-30.0	42-29.9	42-14.1		
Longitude:E	145-29.9	145-44.7	145-50.1	145-54.9	145-59.1	145-30.2	145-00.3	144-30.1	143-59.8	143-59.8		
Date	1994/08/01	1994/08/01	1994/08/01	1994/08/01	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	
Time(JST)	19:40	21:08	22:27	23:53	02:04	04:57	07:10	09:19	11:29	13:04		
Weather	F	F	F	F	F	F	C	BC	BC	BC		
Air Temp.	16.3	18.2	20.7	21.3	21.0	20.7	19.2	23.3	23.5	22.2		
Bar	1007.0	1007.0	1007.0	1006.0	1005.5	1006.0	1007.0	1007.0	1006.5	1006.0		
Wind Dir	SSE	SE	E	SSE	SSE	E	ENE	NE	ESE	SSE		
Wind Spd/F	F 2	F 3	F 2	F 2	F 2	F 2	F 2	F 2	F 3	F 1		
Transparency						24	10	14	16	18		
Depth	159	102	1451	2427					1366	483	934	
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	14.4	33.067	15.9	33.390	20.8	33.126	20.5	33.196	21.9	33.533	19.7	33.024
10m	9.21	33.291	12.31	33.520	17.22	33.104	18.41	33.166	19.74	33.736	15.47	33.069
20m	6.86	33.386	10.52	33.555	9.37	32.951	11.44	32.899	15.31	33.753	13.93	33.384
30m	5.48	33.308	9.77	33.537	6.78	33.143	8.84	33.020	13.34	33.871	9.78	33.175
50m	5.17	33.374	8.29	33.456	5.23	33.365	3.96	33.072	9.95	33.934	4.60	33.241
75m	4.50	33.360	7.18	33.458	3.58	33.329	2.23	33.136	8.07	33.893	2.44	33.210
100m	4.26	33.360			2.34	33.314	1.78	33.220	6.19	33.708	1.73	33.238
125m	3.70	33.356			2.26	33.341	1.49	33.240	5.68	33.689	1.64	33.261
150m					2.20	33.380	1.44	33.282	3.92	33.517	1.46	33.300
200m					2.18	33.483	2.08	33.486	3.67	33.583	2.15	33.547
250m					2.72	33.621	2.53	33.639	2.90	33.559	2.27	33.628
300m					3.07	33.739	2.70	33.721	4.19	33.796	2.45	33.704
400m					3.11	33.880	2.83	33.860	4.00	33.918	2.80	33.865
500m					3.08	34.001	3.04	33.992	3.81	34.018	3.24	34.032
600m					3.00	34.090	3.01	34.108	3.17	34.040	3.40	34.153
700m					2.96	34.183	2.97	34.211	3.16	34.161		
800m					2.91	34.251	2.81	34.295	2.99	34.221		
900m					2.85	34.316	2.77	34.356	3.13	34.311		
1000m					2.73	34.366	2.77	34.408	2.97	34.360		

Table 5-26

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408		199408		199408		199408		199408		199408		199408		199408		199408			
Station No	PK13		P24		PK04		P15		P16		PK05		P25		PK14		P34		PK23	
Latitude:N	42-15.0		42-15.0		42-15.1		42-15.2		42-00.1		42-00.0		42-00.1		42-00.0		42-00.0		41-29.9	
Longitude:E	144-30.2		144-59.6		145-29.6		145-59.7		145-59.9		145-29.7		145-00.1		144-30.1		144-00.1		143-29.1	
Date	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	
Time(JST)	15:13	17:21	19:28	21:38	23:48	02:21	04:34	06:51	09:16	13:21										
Weather	C	C	C	C	C	R	C	C	C	F										
Air Temp.	23.2	22.7	23.0	22.8	22.1	22.5	22.7	21.8	20.5	19.7										
Bar	1005.5	1005.5	1006.5	1007.0	1006.5	1005.5	1004.0	1003.0	1002.5	1003.0										
Wind Dir	SSE	S	S	SSE	S	ESE	E	E	E	NNW										
Wind Spd/F	F 2	F 3	F 4	F 3	F 2	F 3	F 5	F 5	F 5	F 5										
Transparency	20	21									21									
Depth	1610	603															1116	1439		
Equipment	CTD																			
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S
0m	21.4	33.165	21.1	33.270	22.4	33.710	22.2	33.670	21.4	33.320	21.2	33.386	22.1	33.529	18.8	33.163	20.4	33.605	17.1	32.996
10m	18.19	33.052	18.13	33.255	18.30	33.776	19.36	33.888	18.65	33.381	18.86	33.188	17.75	33.426	14.30	32.913	16.75	33.806	16.69	32.988
20m	11.21	33.135	11.44	33.162	14.40	33.575	12.39	33.441	12.57	33.067	15.12	33.445	13.22	33.618	9.87	33.051	13.93	34.372	8.94	32.978
30m	8.64	33.293	7.18	33.009	10.13	33.213	12.63	34.183	10.69	33.246	9.03	32.894	10.96	33.931	6.29	32.860	12.10	34.294	5.36	33.113
50m	4.99	33.239	3.47	33.001	10.61	34.270	10.60	34.132	5.53	33.318	6.90	33.550	10.37	34.168	5.99	33.616	10.94	34.283	2.52	33.220
75m	3.79	33.387	1.63	33.130	8.66	34.035	9.74	34.197	7.53	33.913	5.60	33.536	8.48	33.961	4.24	33.421	8.99	34.107	2.68	33.278
100m	3.64	33.451	1.54	33.223	7.23	33.875	8.31	33.970	5.37	33.635	3.33	33.391	6.88	33.798	3.39	33.387	1.93	33.202	1.63	33.302
125m	2.51	33.339	1.36	33.254	5.26	33.653	5.55	33.570	4.08	33.496	2.10	33.289	5.89	33.725	2.78	33.369	1.71	33.237	1.29	33.322
150m	2.32	33.379	1.06	33.279	3.60	33.497	1.96	33.181	3.76	33.495	2.25	33.366	4.79	33.631	1.65	33.232	1.15	33.232	1.48	33.358
200m	1.85	33.423	1.61	33.431	2.71	33.476	1.53	33.304	2.63	33.420	2.54	33.482	3.51	33.656	1.12	33.324	0.93	33.286	1.67	33.439
250m	2.58	33.600	2.19	33.554	3.57	33.690	1.49	33.370	2.62	33.511	2.51	33.581	3.43	33.653	1.44	33.422	1.26	33.367	1.69	33.473
300m	2.72	33.696	1.99	33.587	4.31	33.849	2.19	33.520	2.28	33.489	2.39	33.638	4.35	33.855	1.89	33.531	1.40	33.429	2.02	33.553
400m	3.01	33.855	1.90	33.690	4.43	34.044	2.34	33.659	2.48	33.710	3.34	33.882	4.22	34.004	2.45	33.732	1.84	33.565	2.19	33.664
500m	2.92	33.969	3.04	33.952	3.92	34.080	3.00	33.872	2.82	33.878	3.15	33.991	3.87	34.098	3.07	33.951	2.59	33.778	2.97	33.868
600m	3.15	34.097	3.44	34.100	3.40	34.139	3.27	34.028	2.96	34.005	3.51	34.138	3.17	34.109	3.22	34.115	3.15	33.997	2.92	33.999
700m							3.22	34.133	3.07	34.132	3.32	34.218	3.06	34.194	3.00	34.188	3.05	34.090		
800m							2.94	34.194	3.19	34.245	3.22	34.287	3.02	34.277	2.95	34.254	3.02	34.207		
900m							2.91	34.272	3.14	34.310	2.93	34.326	2.92	34.333	2.89	34.316	2.88	34.280		
1000m							2.95	34.352	2.94	34.335	2.80	34.369	2.79	34.379	2.72	34.365	2.80	34.325		

Table 5-27

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	
Station No	P35	PK15	P26	PK06	P17	P18	PK07	P27	PK16	P36		
Latitude:N	41-30.0	41-29.9	41-29.9	41-30.0	41-30.1	41-00.4	41-00.0	41-00.0	40-59.1	41-00.1		
Longitude:E	144-00.0	144-29.6	144-59.7	145-29.9	146-00.2	146-00.2	145-30.7	145-00.1	144-29.9	143-59.8		
Date	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	
Time(JST)	15:47	18:08	20:32	23:27	01:51	05:24	07:59	10:35	12:58	15:08		
Weather	F	F	C	C	C	C	C	BC	BC	BC		
Air Temp.	20.8	19.7	21.0	21.7	21.7	21.8	23.1	23.7	23.5	22.2		
Bar	1003.0	1003.0	1003.5	1003.5	1003.0	1005.0	1005.5	1005.5	1005.5	1005.0	1005.0	
Wind Dir	NW	NW	WNW	WNW	W	WSW	WSW	WSW	SW	WSW		
Wind Spd/F	F 5	F 5	F 5	F 4	F 5	F 4	F 4	F 4	F 4	F 4	F 3	
Transparency	16				20		27		25		17	
Depth	1610											
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	20.7	33.814	21.8	33.050	21.4	33.212	21.8	33.158	21.2	33.449	21.1	32.846
10m	20.57	33.775	20.29	33.046	20.26	33.208	12.46	32.710	21.20	33.396	20.90	32.850
20m	14.30	34.195	11.97	33.113	9.27	32.935	7.54	32.976	10.71	32.921	10.32	32.733
30m	12.36	34.210	8.91	33.363	5.38	33.046	4.27	33.018	7.15	33.085	5.50	32.998
50m	10.30	34.131	4.80	33.371	2.95	33.193	2.63	33.124	4.59	33.227	3.17	33.164
75m	9.38	34.157	2.51	33.265	1.92	33.252	1.85	33.206	4.19	33.414	1.92	33.210
100m	8.69	34.090	2.81	33.348	1.96	33.288	1.62	33.239	3.05	33.369	1.67	33.248
125m	7.35	33.915	1.78	33.296	1.59	33.315	1.49	33.278	2.71	33.383	1.45	33.293
150m	6.49	33.869	1.75	33.373	1.80	33.415	1.73	33.401	2.20	33.357	1.58	33.366
200m	2.65	33.472	2.14	33.545	2.24	33.574	2.21	33.572	2.42	33.504	1.83	33.521
250m	2.11	33.501	4.70	33.972	2.52	33.700	2.52	33.702	4.38	33.845	2.38	33.634
300m	1.85	33.523	3.54	33.910	2.54	33.770	2.75	33.803	4.52	33.912	2.72	33.771
400m	2.86	33.799	2.86	33.886	3.31	33.993	2.87	33.934	4.13	34.009	2.95	33.912
500m	2.90	33.920	2.99	34.015	3.18	34.112	3.17	34.094	3.75	34.078	2.97	34.035
600m	3.10	34.075	2.99	34.137	3.14	34.192	3.08	34.169	3.75	34.189	3.16	34.159
700m							3.65	34.281	2.95	34.234		
800m							3.29	34.313	2.99	34.314		
900m							3.14	34.376	2.95	34.387		
1000m							2.97	34.416	2.70	34.413		

Table 5-28

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408		
Station No	PK24	PK31	PK22	PK21	IW01	IW02	IW03	IW04	IW05	IW06			
Latitude:N	41-00.1	41-29.8	42-00.0	42-15.1	42-00.5	41-45.0	41-24.5	41-39.6	41-50.8	42-00.0			
Longitude:E	143-30.1	142-59.9	143-29.8	143-29.7	144-58.0	144-14.9	143-29.8	143-00.1	142-30.3	142-00.1			
Date	1994/08/04	1994/08/04	1994/08/05	1994/08/05	1994/08/23	1994/08/24	1994/08/24	1994/08/25	1994/08/25	1994/08/26			
Time(JST)	17:18	20:56	00:39	02:07	17:11	07:51	17:08	07:58	17:09	09:14			
Weather	BC	BC	C	B	C	BC	BC	BC	C	C			
Air Temp.	21.5	22.2	17.8	19.5	23.0	19.8	21.2	20.1	21.0	22.6			
Bar	1005.5	1007.0	1006.5	1007.0	1011.5	1014.0	1013.8	1015.2	1013.9	1014.0			
Wind Dir	SW	WNW	WSW	NNW	S	NNW	E	ENE	ESE	SE			
Wind Spd/F	F 3	F 2	F 2	F 1	F 1	F 3	F 3	F 4	F 5	F 4			
Transparency	16							15		16			
Depth			119	63									
Equipment	CTD												
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	
0m	18.8	33.288	21.3	33.288	14.9	32.884	16.3	32.085	21.7	32.98*	21.8	33.29*	
10m	14.52	33.416	20.06	33.587	11.20	33.037	11.73	32.958	21.32	32.985	18.66	33.287	
20m	12.58	34.291	16.01	34.234	7.25	33.294	8.97	33.149	8.01	32.835	15.12	33.255	
30m	11.21	34.204	13.87	34.252	5.98	33.260	8.23	33.186	4.22	33.113	9.84	33.275	
50m	9.99	34.110	12.34	34.316	5.38	33.245	7.01	33.181	3.92	33.474	4.99	33.266	
75m	9.28	34.071	10.95	34.199	4.96	33.259			3.38	33.432	3.00	33.263	
100m	7.53	33.873	10.02	34.142	4.26	33.274			3.66	33.516	3.52	33.389	
125m	6.06	33.720	9.48	34.105					3.38	33.503	2.44	33.348	
150m	4.25	33.537	8.45	33.983					3.75	33.619	2.58	33.413	
200m	3.10	33.482	3.20	33.364					2.04	33.518	1.54	33.375	
250m	2.57	33.492	1.60	33.237					2.20	33.574	2.42	33.625	
300m	2.21	33.543	3.01	33.469					2.64	33.699	1.52	33.524	
400m	2.52	33.706	2.53	33.698							2.72	33.685	
500m	3.09	33.903	3.03	33.911								3.15	33.449
600m	3.25	34.043	3.16	34.054								2.29	33.571
700m													
800m													
900m													
1000m													

Table 5-29

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	IW07	IW08	IW09	IW10	IW11	IW12	IW13	IW14	IW15	IW16	
Latitude:N	42–13.8	41–38.4	41–09.4	41–00.0	40–50.1	40–40.1	40–30.7	40–45.0	41–00.8	41–39.9	
Longitude:E	141–35.2	141–40.9	141–49.8	142–19.7	142–49.3	143–19.8	143–49.7	144–54.7	145–59.8	145–15.2	
Date	1994/08/26	1994/08/27	1994/08/27	1994/08/28	1994/08/28	1994/08/29	1994/08/29	1994/08/30	1994/08/30	1994/08/31	
Time(JST)	17:16	14:26	18:08	08:47	17:08	08:59	17:07	10:20	17:08	09:41	
Weather	C	C	C	BC	BC	BC	BC	C	C	C	
Air Temp.	22.1	25.1	24.4	23.5	24.5	23.1	26.2	21.2	23.9	23.9	
Bar	1012.2	1010.0	1011.5	1016.7	1016.7	1018.6	1016.5	1017.5	1016.1	1014.4	
Wind Dir	ESE	S	WSW	SSW	WSW	SW	-	N	ENE	SE	
Wind Spd/F	F 4	F 3	F 3	F 2	F 2	F 2	F	F 1	F 2	F 4	
Transparency			18			16			14		
Depth											
Equipment	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	21.5	33.79*	23.8	34.29*	22.0	34.20*	22.1	34.17*	19.9	33.32*	21.4
10m	21.29	33.793	21.85	34.307	21.37	34.192	21.61	34.188	18.66	33.400	18.90
20m	17.44	34.082	19.80	34.341	20.91	34.226	20.36	34.267	16.88	33.284	14.18
30m	13.46	33.986	19.01	34.298	20.10	34.229	20.13	34.264	14.03	33.267	8.24
50m	11.47	34.180	15.74	34.053	18.44	34.182	19.22	34.258	10.38	33.479	4.81
75m	10.51	34.181	12.91	34.331	15.97	34.271	16.34	34.276	11.00	33.851	3.12
100m	9.87	34.133	12.47	34.356	13.80	34.265	14.58	34.292	9.37	34.065	3.38
125m	8.80	34.033	12.38	34.354	13.07	34.306	13.41	34.268	8.10	33.926	2.19
150m	7.66	33.919	11.70	34.279	12.29	34.271	11.84	34.151	3.35	33.460	1.84
200m	4.63	33.561	10.78	34.316	11.09	34.213	10.97	34.210	2.35	33.463	2.19
250m	3.23	33.493	9.33	34.151	10.13	34.151	9.73	34.121	2.23	33.526	2.43
300m	2.10	33.447	3.59	33.444	7.75	33.916	7.08	33.848	2.21	33.593	2.38
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5–30

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199409	199409	199409	199409	199409	199409	199409	199409	199409	199409
Station No	IW17	IK01	IK05	IK04	IK03	IK02	IK10	SM01	SM02	SM03	
Latitude:N	42–19.4	42–40.0	41–30.0	41–30.0	41–30.0	42–10.0	42–45.0	42–30.5	42–05.2	41–45.0	
Longitude:E	144–29.9	144–10.0	144–00.0	143–30.0	143–00.0	143–40.0	145–00.0	144–59.3	145–24.6	145–44.1	
Date	1994/08/31	1994/09/05	1994/09/06	1994/09/07	1994/09/07	1994/09/08	1994/09/21	1994/09/27	1994/09/28	1994/09/28	1994/09/28
Time(JST)	17:06	17:51	17:55	06:29	18:01	17:54	17:56	17:48	10:28		17:45
Weather	F	BC	BC	C	BC	F	C		C		
Air Temp.	20.1	20.4	21.0	20.6	23.3	19.2	15.2	15.1	15.5	14.6	
Bar	1010.3	1007.5	1006.5	1009.5	1013.0	1008.5	1015.0	1018.0	1015.0	1015.5	
Wind Dir	S	SSW	S	W	W	NE	NE	NE	NNW	NNW	
Wind Spd/F	F 3	F 2	F 3	F 5	F 3	F	F 3	F 3	F 3	F 3	F 3
Transparency				13						11	
Depth											
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	17.2	32.92*	18.3	33.03*	18.9	32.96*	17.6	33.06*	23.5	33.98*	18.2
10m	11.88	32.836	17.56	33.135	16.69	32.903	17.45	33.058	22.64	34.121	14.84
20m	9.79	33.383	13.88	33.041	10.36	33.070	13.95	33.117	22.59	34.127	12.98
30m	8.15	33.285	11.65	33.321	8.23	33.293	10.54	33.078	20.76	34.127	12.32
50m	5.23	33.220	9.83	33.417	3.46	33.067	6.74	33.275	17.23	34.257	10.43
75m	2.44	33.087	7.07	33.296	1.74	33.121	8.63	33.976	15.36	34.322	7.19
100m	1.66	33.122	4.80	33.231	2.03	33.236	6.50	33.761	13.79	34.310	5.73
125m	1.67	33.220	2.36	33.152	1.57	33.274	4.41	33.553	12.68	34.301	4.52
150m	1.69	33.255	2.88	33.339	1.90	33.362	3.07	33.490	11.75	34.279	3.91
200m	1.99	33.415	1.84	33.330	2.32	33.497	2.13	33.459	10.88	34.161	2.39
250m	2.18	33.543	1.89	33.433	2.17	33.574	2.21	33.524	6.79	33.802	2.36
300m	2.53	33.652	2.27	33.566	2.35	33.648	2.38	33.595	3.14	33.474	
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5–31

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	
Station No	P31	PK11	P22	P21	PK02	PK01	P11	P12	P13	P14		
Latitude:N	42–45.1	42–45.2	42–44.9	42–55.1	42–45.0	42–54.1	43–05.1	42–54.9	42–45.2	42–30.1		
Longitude:E	143–59.8	144–29.6	144–59.8	144–59.1	145–29.8	145–29.9	145–44.8	145–49.9	145–55.0	146–00.0		
Date	1994/10/02	1994/10/02	1994/10/02	1994/10/02	1994/10/02	1994/10/02	1994/10/02	1994/10/02	1994/10/03	1994/10/03		
Time(JST)	11:13	13:16	15:20	16:18	18:28	19:48	21:19	22:32	00:00	01:53		
Weather	C	B	B	BC	BC	BC	BC	B	B			
Air Temp.	18.1	19.0	18.5	17.2	15.1	15.1	14.8	14.8	15.1	14.8		
Bar	1013.0	1012.0	1012.5	1012.5	1014.0	1015.0	1015.0	1014.5	1015.0	1015.0		
Wind Dir	SW	S	SSW	SSW	SSW	SW	SW	SW	WSW	W		
Wind Spd/F	F 1	F 3	F 3	F 3	F 4	F 3	F 3	F 2	F 3	F 2		
Transparency	5	10	9	7								
Depth	62	128	166	63		155	101	1490	1012			
Equipment	CTD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	16.9	32.515	16.5	33.075	16.2	33.188	15.9	33.222	14.8	33.308	14.1	33.105
10m	15.89	33.066	15.77	33.084	15.53	33.224	15.53	33.210	14.69	33.352	14.54	33.127
20m	15.78	33.116	15.36	33.148	15.51	33.236	15.43	33.217	14.80	33.449	13.50	33.254
30m	15.52	33.136	14.87	33.221	15.29	33.243	15.29	33.203	14.43	33.447	12.86	33.211
50m	12.41	33.201	11.54	33.232	8.75	33.254	11.56	33.246	7.84	33.437	8.36	33.199
75m			5.20	33.225	5.51	33.274			4.96	33.432	2.50	33.302
100m			2.75	33.315	3.74	33.372			4.26	33.493	2.09	33.319
125m					2.34	33.395			3.65	33.480	2.00	33.406
150m					2.20	33.445			3.60	33.554		
200m									3.00	33.575		
250m									2.41	33.595		
300m									2.31	33.666		
400m									2.52	33.764		
500m									2.80	33.884		
600m									3.15	34.055		
700m											3.13	34.195
800m											3.10	34.264
900m											2.91	34.241
1000m											2.91	34.317

Table 5-32

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410
Station No	PK03	P23	PK12	P32	PK21	P33	PK13	P24	PK04	P15	
Latitude:N	42°30.0	42°30.0	42°30.0	42°30.0	42°15.0	42°15.0	42°15.0	42°15.0	42°15.0	42°15.0	
Longitude:E	145°30.0	145°00.0	144°30.0	144°00.0	143°30.0	144°00.0	144°30.0	145°00.0	145°30.0	146°00.0	
Date	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/04	1994/10/04	
Time(JST)	07:15	09:48	12:12	14:32	17:14	19:15	21:35	23:51	02:09	04:36	
Weather	BC	B	B	B	BC	BC	B	B		BC	
Air Temp.	15.0	16.2	16.7	16.3	16.1	15.6	14.8	14.1	13.8	13.6	
Bar	1018.2	1019.5	1019.0	1020.0	1021.0	1022.5	1022.5	1023.0	1023.5	1024.0	
Wind Dir	N	NNW	W	S	SSE	SSW	SSE	SSW	S	N	
Wind Spd/F	F 4	F 3	F 1	F 2	F 3	F 4	F 2	F 2	F 2	F 1	
Transparency			12	10	5						
Depth											
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	14.1	33.327	15.6	33.386	15.6	33.234	17.5	32.693	16.8	32.038	
10m	14.52	33.31	15.34	33.35	14.86	33.22	16.36	32.79	16.04	32.85	
20m	14.46	33.35	14.22	33.34	14.87	33.25	15.91	33.16	15.82	32.94	
30m	13.88	33.26	13.27	33.15	14.32	33.20	13.69	33.29	15.04	33.02	
50m	7.11	33.36	7.55	33.07	6.42	33.24	6.92	33.30	11.12	33.21	
75m	5.19	33.53	4.22	33.20	4.64	33.39	4.01	33.39		4.70	33.37
100m	3.92	33.34	2.98	33.24	3.47	33.35	2.10	33.30		3.02	33.25
125m	3.22	33.47	2.69	33.35	3.04	33.36	2.33	33.37		2.75	33.34
150m	2.61	33.36	2.62	33.39	2.63	33.34	2.02	33.41		2.23	33.29
200m	2.50	33.51	1.87	33.40	2.58	33.46	2.04	33.45		2.27	33.44
250m	2.35	33.61	2.28	33.48	2.40	33.53	2.16	33.53		2.94	33.57
300m	2.45	33.69	2.08	33.49	3.09	33.68	2.43	33.65		2.55	33.65
400m	3.08	33.93	2.29	33.64	2.91	33.79	3.02	33.86		2.89	33.81
500m	3.20	34.06	2.79	33.84	3.17	33.99				3.87	34.10
600m	3.11	34.14	3.32	34.02	3.26	34.10				3.31	34.16
700m	2.99	34.23								3.26	34.16
800m											
900m											
1000m											

Table 5-33

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410
Station No	P16	PK05	P25	PK14	P34	PK22	P35	PK15	P26	PK06	
Latitude:N	42°00.0	42°00.0	42°00.0	42°00.0	42°00.0	42°00.0	41°30.0	41°30.0	41°30.0	41°30.0	
Longitude:E	146°00.0	145°30.0	145°00.0	144°30.0	144°00.0	143°30.0	144°00.0	144°30.0	145°00.0	145°30.0	
Date	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/05	1994/10/05	1994/10/05	1994/10/05
Time(JST)	07:05	09:42	12:09	14:49	17:23	19:51	23:25	02:01	04:35	06:58	
Weather	B	B	BC	C	C	C	C		C	C	
Air Temp.	14.3	17.5	15.8	15.6	14.8	15.3	15.8	16.0	16.1	16.2	
Bar	1024.5	1024.5	1023.5	1022.5	1022.0	1021.0	1019.0	1018.5	1018.5	1018.5	1018.5
Wind Dir	ENE	E	SE	ESE	E	ESE	SE	SE	SE	SSE	
Wind Spd/F	F 1	F 2	F 2	F 4	F 4	F 4	F 4	F 4	F 5	F 5	
Transparency	17	19	10	12							11
Depth						120					
Equipment	STD	STD									
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S
0m	15.6 32.984	15.4 32.960	15.6 33.043	15.4 32.904	16.4 32.905	16.5 32.944	15.6 32.886	15.3 32.944	16.0 33.209	15.6 32.964	
10m	15.61 32.92	15.57 32.90	15.06 33.00	15.28 32.90	16.54 32.88	16.49 32.86	15.55 32.82	15.17 32.87	15.97 32.88	15.55 32.82	
20m	15.40 32.89	15.55 32.89	14.69 32.96	15.13 32.92	15.73 33.00	16.43 32.86	15.53 32.81	14.64 32.82	15.97 32.89	14.90 32.63	
30m	13.60 33.00	14.90 32.74	14.78 33.09	14.80 32.84	14.69 33.09	16.27 33.00	14.23 32.64	5.48 32.96	11.52 32.51	5.20 33.05	
50m	5.26 33.26	3.12 33.14	4.98 33.30	4.37 33.28	6.50 33.18	15.41 33.12	6.09 33.27	3.18 33.23	2.63 33.08	2.32 33.15	
75m	3.88 33.26	1.97 33.20	3.29 33.31	2.76 33.31	4.75 33.34	8.87 33.30	3.43 33.26	3.71 33.36	1.77 33.17	2.08 33.17	
100m	3.00 33.36	1.77 33.20	2.25 33.28	2.38 33.36	3.12 33.26	6.30 33.52	2.44 33.25	2.71 33.33	1.62 33.21	1.65 33.18	
125m	2.95 33.40	1.59 33.25	2.41 33.44	2.03 33.33	2.85 33.32		2.46 33.34	2.16 33.32	1.62 33.28	1.74 33.31	
150m	2.19 33.38	1.75 33.34	2.32 33.39	2.07 33.44	2.33 33.31		2.32 33.37	2.86 33.46	2.03 33.44	2.09 33.44	
200m	2.28 33.51	2.30 33.53	2.30 33.49	2.28 33.55	2.71 33.47		2.43 33.48	2.77 33.54	2.54 33.59	2.50 33.58	
250m	2.52 33.61	2.56 33.67	2.81 33.64	2.56 33.67	2.33 33.55		2.42 33.55	2.96 33.66	2.74 33.74	2.85 33.75	
300m	2.66 33.71	2.81 33.76	2.81 33.71	2.63 33.74	2.75 33.66		2.68 33.66	2.71 33.72	2.89 33.80	3.08 33.82	
400m	3.03 33.91	3.25 33.95	3.09 33.89	3.19 33.94	2.80 33.78		3.03 33.85	2.91 33.87	3.12 33.96	3.21 33.98	
500m	3.30 34.06	3.11 34.05	3.53 34.08	3.59 34.10	3.17 33.95		3.08 33.94	3.41 34.07	3.23 34.09	3.20 34.08	
600m	3.21 34.20	3.20 34.21	3.55 34.21	3.24 34.19	3.48 34.14		3.26 34.14	3.11 34.18	3.10 34.21	3.13 34.18	
700m	3.11 34.29	3.12 34.30	3.09 34.25	3.07 34.25	3.44 34.23		3.13 34.23	3.11 34.27	3.00 34.28		
800m	3.04 34.35	2.91 34.32	3.00 34.31	3.22 34.35	3.01 34.28						
900m	2.80 34.38	2.83 34.38	2.84 34.35	2.89 34.35	2.95 34.34						
1000m											

Table 5-34

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410
Station No	P17	P18	PK07	P27	PK16	P36	IK06	IK01	IK07	IK08	
Latitude:N	41-30.0	41-00.0	41-00.0	41-00.0	41-00.0	41-00.0	43-00.0	44-09.0	44-10.0	44-20.0	
Longitude:E	146-00.0	146-00.0	145-30.0	145-00.0	144-30.0	144-00.0	145-40.0	145-21.0	144-50.0	144-20.0	
Date	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/11	1994/10/12	1994/10/13	1994/10/15	
Time(JST)	09:22	12:55	15:57	18:25	20:44	23:32	17:54	17:40	17:55	16:48	
Weather	C	C	R	R	C	C	BC	C	B	BC	
Air Temp.	16.7	19.2	17.6	17.1	16.7	16.2	14.9	15.1	17.6	11.6	
Bar	1017.5	1015.0	1014.5	1014.5	1014.5	1014.0	1019.0	1015.2	997.0	992.5	
Wind Dir	SE	SE	SE	E	WNW	WNW	SSW	SSW	SW	SE	
Wind Spd/F	F 5	F 5	F 1	F 3	F 2	F 1	F 2	F 3	F 4	F 3	
Transparency	14	15	15								
Depth											
Equipment	STD	CTD	CTD	CTD	CTD						
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	15.9	32.972	20.0	33.852	19.8	33.173	15.5	32.882	15.8	32.881	16.3
10m	15.79	32.87	20.14	33.80	19.80	33.29	15.40	32.82	15.80	32.92	15.93
20m	15.79	32.88	15.15	32.87	19.41	33.49	15.14	32.80	14.76	32.88	14.00
30m	15.01	32.65			17.38	33.95	12.19	32.80	7.25	33.05	13.11
50m	3.69	33.01			14.24	34.13	5.76	33.38	4.23	33.20	8.57
75m	2.11	33.16			7.05	33.35	4.53	33.44	3.74	33.40	6.87
100m	1.65	33.20			4.14	33.30	3.33	33.35	2.28	33.31	5.88
125m	1.58	33.26			2.53	33.23	2.91	33.35	2.77	33.44	3.74
150m	1.80	33.36			2.27	33.27	2.51	33.36	2.73	33.49	3.15
200m	2.34	33.55			2.37	33.38	2.33	33.43	2.20	33.51	2.46
250m	2.58	33.67			2.54	33.53	2.43	33.56	2.72	33.66	2.54
300m	2.79	33.76			2.95	33.62	2.68	33.66	2.50	33.67	2.37
400m	3.15	33.93			2.85	33.79	3.12	33.84	3.02	33.86	2.75
500m	3.21	34.05			3.19	33.97	3.08	33.98	3.19	33.99	3.18
600m	3.18	34.13			3.19	34.08	3.15	34.11	3.20	34.11	3.26
700m	3.10	34.24					3.09	34.25			
800m	2.96	34.32									
900m	2.81	34.35									
1000m											

Table 5-35

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410
Station No	IK02	IK03	IK05	IK04	SM01	SM02	SM03	SM04	SM05	SM06	
Latitude:N	44-00.0	44-01.0	42-42.0	42-40.0	42-30.9	42-15.2	41-59.1	41-45.2	41-29.2	41-05.1	
Longitude:E	145-14.0	145-14.0	144-58.0	144-00.0	144-29.7	144-14.9	143-59.5	143-59.9	144-00.0	142-14.5	
Date	1994/10/17	1994/10/18	1994/10/19	1994/10/20	1994/10/25	1994/10/26	1994/10/26	1994/10/27	1994/10/27	1994/10/27	1994/10/28
Time(JST)	16:38	17:37	16:21	16:46	18:11	08:25	18:09	08:02	18:10	18:36	
Weather	C	BC	BC	BC	C	BC	BC	C	C	C	
Air Temp.	8.1	10.8	13.5	10.0	10.3	12.3	12.0	13.0	13.5	17.8	
Bar	1007.0	1018.5	1015.5	1011.0	1029.2	1028.5	1026.0	1023.0	1021.5	1015.0	
Wind Dir	WNW	W	SSW	NW	SSW		ESE	S	WSW	SE	
Wind Spd/F	F 3	F 3	F 5	F 6	F 3	F	F 3	F 4	F 2	F 4	
Transparency											
Depth											
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	14.0	33.32*	14.6	33.34*	11.4	32.96*	12.5	33.24*	10.3	32.697	12.6
10m	14.83	33.284	14.81	33.270	11.17	32.976	12.56	33.204	10.18	32.691	12.64
20m	14.93	33.302	14.85	33.281	11.33	33.071	12.56	33.207	10.22	32.776	12.79
30m	15.01	33.334	14.87	33.291	10.87	33.100	12.56	33.207	10.96	33.033	12.58
50m	15.10	33.411	14.85	33.318	8.27	33.137	11.79	33.224	8.56	33.306	5.85
75m	14.81	33.587	14.74	33.404	6.11	32.433	8.89	33.105	4.37	33.403	2.97
100m	13.67	33.573	12.66	33.567	4.62	33.435	8.64	33.164	2.98	33.319	2.41
125m	10.73	33.647	11.03	33.654	3.53	33.415			2.56	33.340	2.02
150m	8.47	33.657	8.00	33.685	2.32	33.391			2.55	33.383	2.17
200m	4.09	33.601	6.15	33.689	2.03	33.409			2.29	33.440	2.34
250m									1.95	33.470	2.47
300m									2.23	33.556	2.38
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 5-36

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199412	199412	199412	199412	199412	199412
Station No	SM07	SM08	SM09	SM10	P22	P21	P11	P12	P13	P14
Latitude:N	40–45.1	40–29.1	40–15.1	39–59.4	42–45.4	42–55.3	43–05.2	42–54.8	42–45.3	42–30.2
Longitude:E	142–15.1	142–29.4	142–30.0	142–30.2	144–59.1	144–59.9	145–44.7	145–49.1	145–54.8	145–59.6
Date	1994/10/29	1994/10/29	1994/10/30	1994/10/30	1994/12/06	1994/12/06	1994/12/06	1994/12/06	1994/12/06	1994/12/06
Time(JST)	09:46	18:11	08:57	18:11	11:52	12:55	16:01	17:37	20:12	23:26
Weather	C	C	BC	C	B	B	B	BC	BC	C
Air Temp.	18.2	16.6	16.5	15.9	5.4	5.0	3.0	3.7	4.1	4.9
Bar	1006.5	1007.5	1013.3	1013.0	1002.0	1002.0	1004.0	1004.4	1006.5	1006.5
Wind Dir	NNW	NNW	WNW	N	WNW	SW	NW	WNW	NW	WNW
Wind Spd/F	F 4	F 2	F 4	F 4	F 5	F 5	F 5	F 6	F 5	F 4
Transparency	11		15		14					
Depth					156	63		1157		1000
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	16.7	33.701	16.5	33.572	16.6	33.529	16.6	33.513	8.6	33.073
10m	15.46	33.488	16.36	33.576	16.55	33.512	16.58	33.509	8.66	33.058
20m	12.22	33.037	16.35	33.582	16.52	33.674	16.13	33.497	8.66	33.059
30m	11.35	33.028	16.12	33.564	16.03	33.635	16.02	33.572	8.66	33.059
50m	11.07	33.058	14.27	33.933	14.68	33.689	14.14	33.622	8.65	33.060
75m	7.63	33.298	11.56	34.110	11.64	34.062	9.72	33.897	7.59	33.291
100m	5.93	33.299	9.83	34.101	9.16	33.960	7.00	33.760	5.39	33.456
125m	7.46	33.725	7.37	33.815	7.11	33.771	5.27	33.645	4.59	33.510
150m	5.63	33.603	5.16	33.604	3.88	33.496	3.90	33.557		
200m	3.55	33.502	3.72	33.555	2.36	33.417	2.59	33.476		
250m	3.25	33.520	2.83	33.541	2.48	33.534	2.56	33.596		
300m	2.24	33.508	2.36	33.588	2.45	33.618	3.05	33.724		
400m									3.87	33.881
500m									3.89	34.024
600m									3.88	34.151
700m									3.37	34.190
800m									3.14	34.230
900m									2.95	34.273
1000m									2.82	34.332
									2.93	34.396

Table 5–37

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412
Station No	P15	P16	P17	P18	PK07	P27	PK16	PK15	P26	PK06	
Latitude:N	42–15.1	41–59.9	41–30.2	41–00.4	41–00.0	41–00.1	41–00.1	41–29.7	41–29.9	41–29.1	
Longitude:E	146–00.0	146–00.4	145–59.9	146–00.0	145–30.0	144–59.7	144–30.0	144–30.3	144–59.1	145–30.1	
Date	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/08	1994/12/08	
Time(JST)	02:23	05:29	08:36	11:47	14:38	17:05	19:43	23:13	01:34	03:56	
Weather	C	S	C	B	BC	C	C	C	C	C	
Air Temp.	5.0	3.5	5.9	6.6	6.1	6.1	7.8	5.3	4.6	4.5	
Bar	1006.2	1008.0	1009.5	1008.0	1007.5	1006.9	1006.0	1008.5	1010.7	1011.7	
Wind Dir	NNW	NW	NW	WNW	NW	NNE	NE	NNE	NNW	NNW	
Wind Spd/F	F 5	F 5	F 5	F 6	F 4	F 3	F 5	F 4	F 4	F 5	
Transparency			19	10	16						
Depth											
Equipment	CTD	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	7.0	33.129	7.0	33.132	9.3	33.495	8.9	33.457	9.6	33.659	8.2
10m	7.19	33.105	7.48	33.110	9.54	33.484	9.09	33.436	10.04	33.633	8.32
20m	7.19	33.106	7.48	33.110	9.54	33.485	9.10	33.434	10.05	33.634	8.32
30m	7.19	33.108	7.49	33.110	9.55	33.489	9.10	33.438	10.05	33.635	8.37
50m	7.19	33.107	7.40	33.105	9.53	33.484	10.55	34.082	10.04	33.639	8.52
75m	2.70	33.169	2.64	33.223	10.03	34.110	8.60	34.014	8.83	34.022	8.55
100m	2.24	33.246	1.97	33.243	7.03	33.793	5.54	33.641	5.96	33.700	8.50
125m	1.92	33.283	1.95	33.323	6.03	33.768	3.98	33.524	4.31	33.529	5.66
150m	1.89	33.351	1.99	33.427	3.66	33.547	3.63	33.557	3.20	33.450	3.27
200m	2.37	33.570	2.52	33.633	3.27	33.589	2.67	33.519	2.33	33.446	2.45
250m	2.68	33.705	2.74	33.745	2.72	33.585	2.17	33.506	2.04	33.471	2.56
300m	2.87	33.777	2.94	33.840	2.65	33.662	2.39	33.599	2.13	33.522	2.52
400m	3.15	33.947	3.24	34.006	3.22	33.856	2.75	33.727	2.48	33.666	2.83
500m	3.14	34.079	3.18	34.106	3.29	33.992	2.97	33.879	2.81	33.797	3.12
600m	3.18	34.183	3.17	34.196	3.36	34.102	3.23	34.028	3.10	33.949	3.36
700m	3.04	34.247	3.00	34.250	3.23	34.191	3.21	34.153			
800m	3.07	34.321	2.94	34.317	3.10	34.264	3.10	34.242			
900m	2.91	34.363	2.82	34.360	2.90	34.314	2.95	34.302			
1000m	2.79	34.392	2.86	34.417	2.77	34.360	2.91	34.380			

Table 5–38

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412
Station No	PK05	P25	PK14	PK13	P24	PK04	PK03	PK02	PK01	P23
Latitude:N	42-00.1	42-00.1	42-00.0	42-14.1	42-15.1	42-14.8	42-29.9	42-44.8	42-55.0	42-30.1
Longitude:E	145-30.1	145-00.2	144-30.0	144-30.0	144-59.9	145-29.9	145-29.9	145-30.0	145-30.0	144-59.1
Date	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/09
Time(JST)	07:03	09:33	12:00	14:29	16:54	19:13	20:55	22:39	23:59	02:52
Weather	BC	C	B	B	BC	B	C	C	BC	C
Air Temp.	3.5	4.3	5.3	5.9	5.0	5.6	6.1	6.3	5.1	6.1
Bar	1015.0	1017.0	1015.5	1014.7	1015.0	1015.0	1014.0	1014.0	1013.0	1011.2
Wind Dir	NNW	NNW	S	SSW	SW	WSW	WSW	WSW	WNW	WSW
Wind Spd/F	F 4	F 3	F 1	F 3	F 4	F 3	F 3	F 4	F 3	F 3
Transparency	11	16	16	23						
Depth										
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	8.7	33.379	8.2	33.347	7.8	33.139	8.6	33.036	7.7	33.131
10m	8.80	33.356	8.32	33.320	7.68	33.142	8.66	33.046	7.77	33.128
20m	8.80	33.356	8.31	33.318	7.71	33.162	8.61	33.068	7.82	33.133
30m	8.78	33.355	8.32	33.320	7.74	33.175	8.37	33.073	8.38	33.265
50m	8.78	33.353	8.31	33.318	7.80	33.183	8.30	33.087	8.66	33.325
75m	3.59	33.283	6.70	33.734	7.58	33.320	8.12	33.104	8.53	33.300
100m	2.75	33.339	4.63	33.570	6.51	33.731	7.66	33.121	5.16	33.517
125m	2.42	33.374	4.92	33.725	4.34	33.574	5.10	33.315	3.39	33.397
150m	2.41	33.434	4.08	33.620	3.40	33.506	5.88	33.672	2.48	33.372
200m	3.30	33.655	3.26	33.603	2.67	33.564	5.06	33.698	2.44	33.464
250m	3.28	33.731	2.96	33.660	3.13	33.678	4.72	33.772	2.85	33.624
300m	3.06	33.781	3.60	33.787	3.23	33.731	3.59	33.712	3.24	33.746
400m	3.91	34.046	3.26	33.862	3.45	33.871	3.06	33.788	3.93	33.971
500m	3.27	34.066	3.49	34.044	3.10	33.952	3.53	33.968	3.21	34.012
600m	3.13	34.164	3.60	34.189	3.24	34.076	3.27	34.062		
700m	3.24	34.253	3.34	34.236	3.19	34.167				
800m	3.09	34.320	3.11	34.280	3.09	34.253				
900m	2.83	34.332	2.94	34.333	2.91	34.312				
1000m	2.73	34.379	2.79	34.378	2.82	34.354				

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Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412
Station No	PK12	PK11	P31	P32	P33	P34	P35	P36	PK24	PK23	
Latitude:N	42–30.2	42–45.1	42–45.1	42–30.1	42–15.1	41–59.9	41–29.9	41–00.4	41–00.3	41–29.1	
Longitude:E	144–29.8	144–29.8	144–00.2	144–00.0	143–59.1	143–59.1	144–00.3	144–00.2	143–30.2	143–30.2	
Date	1994/12/09	1994/12/09	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/13	1994/12/13	
Time(JST)	05:16	06:51	10:55	12:12	13:43	15:30	18:43	21:41	00:03	03:07	
Weather	C	C	BC	C	C	C	C	R	C	C	
Air Temp.	7.5	8.3	1.6	2.4	3.5	3.0	4.3	7.5	8.3	3.7	
Bar	1007.2	1005.5	1014.0	1013.5	1013.5	1013.0	1013.0	1011.0	1009.0	1009.5	
Wind Dir	SSW	SSW	NNE	NNW	NNE	NW	NNE	ENE	E	NNW	
Wind Spd/F	F 5	F 5	F 3	F 1	F 1	F 2	F 2	F 3	F 4	F 5	
Transparency			18	21	21	20					
Depth				491	932	1120					
Equipment	CTD	CTD	CTD	CTD							
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	8.5 33.040	7.9 33.080	7.4 33.152	7.7 33.085	8.0 33.099	7.6 33.120	13.3 34.247	15.6 34.378	15.0 34.391	8.3 33.259	
10m	8.56 33.037	7.98 33.080	7.57 33.124	7.70 33.106	8.19 33.096	7.68 33.112	13.61 34.228	15.73 34.375	15.23 34.386	8.49 33.264	
20m	8.57 33.035	7.91 33.082	7.57 33.126	7.65 33.110	8.18 33.091	7.68 33.111	9.81 33.473	15.71 34.367	15.23 34.387	8.48 33.256	
30m	8.58 33.040	7.80 33.100	7.57 33.125	7.64 33.112	8.19 33.095	7.67 33.111	9.55 33.472	15.66 34.358	15.24 34.386	8.57 33.274	
50m	8.40 33.075	7.78 33.178	7.57 33.156	7.62 33.113	8.18 33.096	7.59 33.109	7.97 33.236	15.58 34.343	15.25 34.387	9.12 33.431	
75m	7.14 33.243	7.59 33.163		7.62 33.114	8.16 33.110	7.35 33.139	7.38 33.196	15.37 34.308	15.27 34.392	10.84 33.852	
100m	5.38 33.245	7.26 33.164		7.58 33.126	7.35 33.191	7.08 33.161	6.24 33.351	15.16 34.293	15.45 34.452	10.86 33.887	
125m	4.99 33.257			7.48 33.156	5.68 33.316	5.49 33.570	4.91 33.501	14.36 34.381	13.24 34.070	10.76 34.068	
150m	4.73 33.283			6.79 33.287	4.76 33.288	4.38 33.556	4.10 33.505	13.25 34.450	13.84 34.467	8.69 33.957	
200m	3.26 33.379			5.35 33.570	3.71 33.416	3.49 33.551	3.38 33.538	11.51 34.331	11.79 34.361	6.67 33.847	
250m	3.02 33.459			3.74 33.518	4.17 33.628	4.10 33.756	2.90 33.527	9.43 34.137	9.26 34.107	5.52 33.793	
300m	2.31 33.417			2.95 33.549	2.72 33.565	3.96 33.784	2.50 33.548	6.90 33.862	6.34 33.855	4.94 33.827	
400m	2.97 33.626			3.01 33.707	2.65 33.671	3.29 33.857	3.69 33.822	4.47 33.798	5.03 33.860	4.39 33.940	
500m	3.32 33.881				3.49 33.920	3.26 33.990	2.98 33.893	4.67 33.980	4.50 33.955	2.99 33.848	
600m	3.28 33.991				3.13 33.988	3.45 34.103	3.21 34.033	4.25 34.075	4.22 34.082	3.17 33.981	
700m						3.13 34.164					
800m						3.05 34.243					
900m						2.95 34.297					
1000m						2.84 34.342					

Table 5–40

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199502	199502	199502	199502	199502	199502	199502	199502	
Station No	PK22	PK21	P31	PK11	P22	P21	PK02	PK01	P11	P12	
Latitude:N	42°00.2	42°15.1	42°44.1	42°44.1	42°44.1	42°54.1	42°45.0	42°55.0	43°04.9	42°55.2	
Longitude:E	143°29.9	143°29.1	143°59.7	144°29.6	144°59.7	144°59.9	145°29.9	145°29.9	145°45.0	145°49.9	
Date	1994/12/13	1994/12/13	1995/02/13	1995/02/13	1995/02/13	1995/02/13	1995/02/13	1995/02/13	1995/02/13	1995/02/13	
Time(JST)	06:21	07:45	11:03	13:07	15:16	16:18	18:36	19:51	21:25	22:35	
Weather	C	BC	B	C	C	C	C	C	C	C	
Air Temp.	2.7	2.9	0.1	0.0	-0.8	-1.2	-1.0	-2.0	-3.0	-3.0	
Bar	1010.0	1010.0	1009.2	1008.0	1008.0	1008.5	1008.5	1009.0	1009.0	1008.5	
Wind Dir	SW	NNE	CALM	NE	ENE	ENE	NNE	NE	NNE	NNE	
Wind Spd/F	F 2	F 2	F 0	F 3	F 3	F 4	F 3	F 1	F 1	F 1	
Transparency			15	9	11	15	9				
Depth				133						1259	
Equipment	CTD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	7.7	33.111	7.8	33.072	0.1	32.191	0.1	32.085	1.4	32.942	
10m	7.98	33.107	7.76	33.061	-0.04	32.225	-0.08	32.154	1.38	32.951	
20m	7.98	33.107	7.72	33.075	0.04	32.265	0.40	32.454	1.40	32.963	
30m	7.99	33.109	7.73	33.074	0.24	32.312	0.91	32.729	1.40	32.960	
50m	8.09	33.126	7.74	33.122	0.44	32.465	1.34	32.859	1.49	32.996	
75m	7.87	33.234					1.43	32.891	1.66	33.028	
100m	6.61	33.354					1.71	33.012	1.62	33.032	
125m								1.72	33.062		
150m								1.76	33.084		
200m									1.79	33.489	
250m									1.99	33.527	
300m									2.03	33.563	
400m									2.11	33.619	
500m									2.44	33.704	
600m									2.43	33.770	
700m									2.52	33.880	
800m										2.79	34.047
900m										2.85	34.155
1000m										2.77	34.235
										2.64	34.290

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Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502
Station No	P13	P14	PK03	P23	PK12	P32	P33	PK13	P24	PK04
Latitude:N	42–45.0	42–30.1	42–30.2	42–29.1	42–30.1	42–30.2	42–15.5	42–14.1	42–14.9	42–14.9
Longitude:E	145–54.9	145–59.8	145–29.1	144–59.9	144–29.1	144–00.0	144–00.0	144–29.6	144–59.7	145–30.0
Date	1995/02/13	1995/02/14	1995/02/14	1995/02/14	1995/02/14	1995/02/14	1995/02/14	1995/02/14	1995/02/14	1995/02/14
Time(JST)	23:56	01:57	04:36	06:47	09:01	11:10	12:36	14:48	17:03	19:22
Weather	C	C	C	C	BC	C	BC	BC	BC	BC
Air Temp.	-2.5	-1.5	-0.7	0.5	0.5	0.0	0.6	0.5	0.0	0.4
Bar	1008.0	1008.2	1007.5	1007.0	1008.5	1009.0	1008.2	1018.2	1009.0	1010.0
Wind Dir	CALM	S	SSE	CALM	CALM	CALM	NNE	CALM	WSW	W
Wind Spd/F	F 0	F 2	F 4	F 0	F 0	F 0	F 1	F 0	F 2	F 3
Transparency				18	16	19	21	26		
Depth	999						928			
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	1.3	33.024	1.3	33.100	1.5	33.120	1.1	32.918	1.6	33.129
10m	1.26	33.030	1.42	33.105	1.58	33.098	1.15	32.913	1.56	33.127
20m	1.29	33.033	1.48	33.119	1.58	33.097	1.42	32.967	1.57	33.128
30m	1.42	33.076	1.51	33.120	1.60	33.104	1.45	32.971	1.58	33.133
50m	1.74	33.219	1.57	33.133	1.64	33.110	1.59	33.021	1.54	33.151
75m	1.74	33.269	1.58	33.138	1.90	33.157	1.69	33.067	1.40	33.173
100m	1.80	33.292	1.60	33.143	2.04	33.214	1.80	33.178	1.62	33.233
125m	1.76	33.316	2.18	33.332	2.19	33.293	1.52	33.207	1.92	33.312
150m	2.03	33.387	2.32	33.461	2.32	33.427	1.93	33.303	1.96	33.334
200m	2.06	33.414	2.45	33.580	2.56	33.585	2.01	33.416	2.04	33.399
250m	2.01	33.472	2.91	33.720	2.81	33.705	2.10	33.505	2.10	33.478
300m	1.88	33.482	2.95	33.807	2.70	33.760	2.10	33.546	2.10	33.524
400m	2.20	33.641	3.06	33.972	2.51	33.820	2.18	33.637	2.15	33.605
500m	2.53	33.786	3.07	34.077	2.68	33.923	2.33	33.738	2.32	33.723
600m	2.90	33.946	3.20	34.196	2.94	34.070	2.88	33.938	2.90	33.921
700m	3.02	34.086	2.91	34.249						
800m	2.86	34.198	2.62	34.289						
900m	2.81	34.278	2.56	34.334						
1000m			2.65	34.398						

Table 5–42

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502
Station No	P15	P16	PK05	P25	PK14	P34	P35	PK15	P26	PK06
Latitude:N	42-15.1	42-00.0	42-00.1	42-00.1	41-59.1	42-00.0	41-30.3	41-30.0	41-29.9	41-29.8
Longitude:E	146-00.1	145-59.9	145-30.3	145-00.0	144-30.0	143-59.8	143-59.9	144-29.5	144-59.9	145-30.0
Date	1995/02/14	1995/02/14	1995/02/15	1995/02/15	1995/02/15	1995/02/15	1995/02/15	1995/02/15	1995/02/15	1995/02/15
Time(JST)	21:41	23:25	01:51	04:23	07:05	09:34	12:49	15:07	17:22	19:42
Weather	BC	BC	BC	BC	B	B	BC	BC	C	S
Air Temp.	0.7	0.9	0.5	0.3	0.3	1.3	2.0	3.2	3.0	3.2
Bar	1010.5	1011.5	1011.0	1011.5	1012.0	1012.5	1012.0	1012.0	1012.5	1013.5
Wind Dir	SW	W	WSW	W	W	W	SW	S	S	S
Wind Spd/F	F 2	F 4	F 5	F 4	F 3	F 3	F 3	F 2	F 4	F 5
Transparency					31	12	25	21		
Depth						1122				
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	1.5	33.088	1.8	33.193	1.4	33.157	1.4	33.226	1.4	32.939
10m	1.48	33.090	1.76	33.198	1.43	33.159	1.46	33.173	1.54	32.983
20m	1.49	33.088	1.77	33.200	1.48	33.159	1.46	33.173	1.63	33.043
30m	1.49	33.088	1.77	33.202	1.50	33.169	1.46	33.174	1.69	33.059
50m	1.45	33.100	1.80	33.213	1.52	33.168	1.47	33.175	1.70	33.080
75m	1.35	33.129	1.90	33.238	1.51	33.182	1.47	33.175	1.71	33.111
100m	2.21	33.251	2.23	33.292	1.86	33.240	1.65	33.205	1.90	33.169
125m	1.78	33.325	2.32	33.347	2.08	33.329	2.10	33.377	1.96	33.235
150m	2.39	33.478	2.38	33.481	2.29	33.450	1.91	33.403	1.94	33.256
200m	2.84	33.660	2.36	33.581	2.41	33.577	1.93	33.473	2.01	33.347
250m	3.03	33.781	2.61	33.700	2.35	33.659	2.07	33.560	2.00	33.389
300m	2.34	33.767	2.52	33.751	2.87	33.793	2.09	33.628	2.06	33.426
400m	2.67	33.943	2.84	33.948	3.00	33.934	2.28	33.786	2.20	33.584
500m	2.72	34.048	3.15	34.110	2.83	34.050	2.65	33.942	2.37	33.729
600m	3.00	34.190	2.90	34.181	2.73	34.112	2.98	34.065	2.77	33.890
700m	2.86	34.243	2.81	34.261	2.76	34.217	2.91	34.176	2.95	34.046
800m	2.97	34.352	2.81	34.316	2.61	34.279	2.88	34.252	3.12	34.186
900m	2.68	34.375	2.66	34.357	2.61	34.343	2.68	34.310	2.88	34.261
1000m	2.70	34.423	2.56	34.398	2.58	34.387	2.58	34.341	2.71	34.330

Table 5-43

Table 5 Results of serial oceanographic observations. Hokkaido Kushiro Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502
Station No	P17	P18	PK07	P27	PK16	P36	PK24	PK23	PK22	PK21
Latitude:N	41-30.0	41-00.3	40-59.9	41-00.2	41-00.1	41-00.0	41-00.0	41-29.9	41-59.9	42-14.1
Longitude:E	146-00.1	145-59.9	145-30.2	145-00.2	144-29.9	143-59.8	143-30.0	143-29.8	143-30.0	143-30.0
Date	1995/02/15	1995/02/16	1995/02/16	1995/02/16	1995/02/16	1995/02/16	1995/02/16	1995/02/16	1995/02/16	1995/02/16
Time(JST)	21:53	00:57	03:25	05:40	07:56	10:06	12:13	14:57	17:45	19:14
Weather	C	R	BC	C	C	C	C	BC	C	C
Air Temp.	3.2	1.9	1.3	1.0	1.3	1.7	1.4	0.9	-0.4	1.0
Bar	1014.0	1004.5	1014.0	1014.0	1014.0	1014.0	1012.0	1012.0	1012.0	1013.0
Wind Dir	S	W	NNW	NW	CALM	NNE	NNE	NE	NE	N
Wind Spd/F	F 5	F 3	F 3	F 1	F 0	F 2	F 2	F 3	F 4	F 3
Transparency					27	21	25	15		
Depth										
Equipment	CTD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	4.6	33.51*	3.8	33.760	3.1	33.279	2.0	33.089	3.5	33.400
10m	4.59	33.491	3.79	33.365	3.25	33.309	2.07	33.087	3.59	33.368
20m	4.47	33.474	3.79	33.366	3.54	33.344	1.99	33.127	3.63	33.379
30m	4.16	33.446	3.79	33.365	3.48	33.342	1.83	33.188	3.59	33.376
50m	3.99	33.422	3.78	33.368	3.44	33.338	1.97	33.249	3.47	33.357
75m	3.12	33.339	4.14	33.450	3.42	33.333	1.70	33.235	3.16	33.317
100m	2.47	33.285	3.76	33.377	3.10	33.304	1.72	33.246	2.69	33.272
125m	2.24	33.279	2.78	33.287	3.46	33.383	2.18	33.326	2.87	33.322
150m	3.64	33.514	3.24	33.516	4.40	33.619	3.25	33.518	2.63	33.310
200m	2.49	33.512	2.72	33.586	3.61	33.660	2.17	33.429	2.49	33.479
250m	2.46	33.591	2.62	33.686	3.47	33.776	2.29	33.545	2.42	33.601
300m	2.84	33.724	2.88	33.802	3.41	33.850	2.30	33.606	3.06	33.767
400m	3.76	33.973	3.18	33.976	3.71	34.030	3.16	33.883	3.61	33.983
500m	3.75	34.126	3.27	34.110	3.55	34.142	3.29	34.045	3.25	34.058
600m	3.48	34.227	3.22	34.196	3.45	34.236	3.11	34.141	3.54	34.218
700m	3.37	34.311	3.04	34.265						
800m	3.19	34.356	2.86	34.321						
900m	2.98	34.393	2.78	34.374						
1000m	2.80	34.425	2.66	34.411						

Table 5-44

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	WJR001	WJR002	WJR003	WJR004	WJR005	WJR006	WJR007	WJR008	WJR009	WJR010
Latitude:N	47–48.0	47–54.0	48– 2.0	50– 0.0	50– 0.0	49–40.0	49–20.0	49– 0.0	48–40.0	48–22.0
Longitude:E	141–19.0	141–24.0	141–13.0	141–45.0	141–20.0	141–49.0	141–20.0	141–35.0	141–15.0	141–36.0
Date	1994/04/16	1994/04/16	1994/04/16	1994/04/17	1994/04/17	1994/04/17	1994/04/18	1994/04/18	1994/04/18	1994/04/18
Time(JST)	07:50	10:10	15:35	16:50	18:35	21:25	00:10	02:35	05:20	08:40
Weather	BC	BC	BC	BC	BC	BC	C	BC	BC	BC
Air Temp.										2.0
Bar					1008.0	1010.0	1011.8	1011.2	1012.7	1014.0
Wind Dir										
Wind Spd/F	S	S	S	S	S	S	S	S	S	S
Transparency										
Depth	215	106	472	166	151	166	251	135	418	94
Equipment	STD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	3.0	34.054	2.8	34.046	1.9	33.845	-0.6	32.330	-0.3	33.928
10m	2.63	34.01	2.43	33.96	1.30	33.82	-0.66	33.24	-0.36	32.87
20m	2.60	34.00	2.38	33.97	1.23	33.84	-0.54	32.86	-0.71	33.14
30m	2.53	34.00	2.29	33.96	1.26	33.88	-0.52	32.97	-0.52	33.26
50m	2.50	34.00	2.23	33.96	1.27	33.94	-0.89	33.11	-0.03	33.61
75m	2.48	34.03	1.88	34.06	1.24	33.98	0.47	33.73	0.59	33.85
100m	2.44	34.09	1.83	34.05	1.39	34.03	0.82	33.92	0.95	33.98
125m	2.10	34.10			1.46	34.03	1.34	34.05	0.81	34.04
150m	2.09	34.10			1.41	34.03	0.91	34.04		
200m	2.08	34.08			1.12	34.06				
250m					1.11	34.08				
300m					0.70	34.10				
400m					0.47	34.10				
500m					0.42	N.D.				
600m										
700m										
800m										
900m										
1000m										

Table 6-1

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199404	199404
Station No	WJR011	WJR012	WJR013	WJR014	WJR015	WJR016	WJR017	WJR018	WJR019	WJR020
Latitude:N	48° 9.5'	48° 8.6'	48° 0.0'	48° 0.0'	47° 50.0'	47° 50.0'	47° 40.0'	47° 40.0'	47° 30.0'	47° 56.8'
Longitude:E	141° 23.2'	141° 24.2'	141° 40.0'	141° 10.0'	141° 40.0'	141° 12.0'	141° 30.0'	141° 20.0'	141° 35.0'	141° 17.6'
Date	1994/04/18	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/19	1994/04/20
Time(JST)	16:20	10:10	11:40	13:45	16:20	18:10	19:45	20:35	22:15	07:15
Weather	BC	BC	B		B	B	BC	BC	BC	BC
Air Temp.	4.0	3.0	5.0	3.0	8.0	3.0	2.0	2.0	2.0	2.0
Bar	1013.5	1015.0	1015.0	1016.0	1016.5	1018.0	1020.0	1020.0	1020.0	1016.5
Wind Dir										
Wind Spd/F	F	F	F	F	F	F	F	F	F	F
Transparency										
Depth	246	236	64	591	56	605	126	618	321	224
Equipment	STD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	1.7	33.905	1.6	33.852	1.5	34.012	1.7	33.874	1.6	34.031
10m	1.37	33.87	1.50	33.79	1.31	33.98	1.51	33.79	1.53	33.97
20m	1.30	33.86	1.76	33.90	1.23	33.96	1.03	33.80	1.33	33.96
30m	1.25	33.87	2.02	33.95	1.17	33.97	1.13	33.94	1.28	33.96
50m	1.25	33.94	1.59	33.96	1.16	33.97	1.15	33.94	2.65	34.02
75m	1.12	33.96	1.90	34.05			1.19	33.99	2.54	34.02
100m	1.04	34.01	1.92	34.07			1.38	34.02	2.34	34.04
125m	1.33	34.04	1.77	34.09			1.42	34.02	2.41	34.08
150m	1.65	34.10	1.74	34.09			1.44	34.03	2.17	34.08
200m	1.56	34.10	1.58	34.09			1.04	34.06	1.62	34.11
250m							1.07	34.01	1.18	34.10
300m							0.76	34.08	0.87	34.11
400m							0.46	34.12	0.34	34.10
500m							0.34	34.10	0.27	34.11
600m									1.05	34.10
700m									1.31	34.10
800m									0.93	34.10
900m									0.93	34.12
1000m									0.21	34.10

Table 6-2

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199404	199404	199404	199404	199404	199404	199404	199404	199405	199405
Station No	WJR021	WJR022	WJR023	WJR024	WJR025	WJR026	WJR027	WJR028	WEB001	WEB002
Latitude:N	47° 0.0	46° 50.0	46° 50.0	46° 40.0	46° 40.0	46° 35.0	46° 35.0	46° 35.8	45° 25.1	44° 52.0
Longitude:E	141° 40.0	141° 30.2	141° 20.0	141° 30.0	141° 7.0	141° 29.0	141° 10.2	141° 23.1	142° 48.3	144° 0.8
Date	1994/04/20	1994/04/20	1994/04/21	1994/04/21	1994/04/21	1994/04/21	1994/04/21	1994/04/21	1994/05/23	1994/05/24
Time(JST)	22:10	23:30	00:35	02:00	04:00	05:40	08:00	09:45	15:17	08:45
Weather	BC	B	B	B	B	B	B	BC	BC	BC
Air Temp.	3.0	3.0	3.2	3.5	3.0		6.0	6.0	10.0	17.0
Bar	1016.5	1017.0	1017.0	1016.0	1016.0		1016.0	1015.0	1013.0	1014.0
Wind Dir									NW	S
Wind Spd/F	F	F	F	F	F	F	F	F	F 2	F 2
Transparency									8	
Depth	258	415	608	298	593	314	260	245	120	190
Equipment	STD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	3.2	34.128	3.7	32.204	3.4	34.172	3.0	34.195	4.1	34.204
10m	3.61	34.07	3.98	34.14	3.57	34.12	3.76	34.16	4.13	34.13
20m	3.67	34.09	3.81	34.13	3.47	34.12	3.69	34.16	4.00	34.13
30m	3.61	34.12	3.69	34.08	3.48	34.12	3.61	34.16	3.91	34.14
50m	3.42	34.12	3.49	34.12	3.24	34.11	3.27	34.15	3.59	34.13
75m	3.36	34.12	3.35	34.12	3.21	34.09	3.20	34.14	3.48	34.13
100m	3.14	34.15	3.17	34.12	2.48	34.10	2.97	34.15	3.09	34.14
125m	3.42	34.12	3.91	34.14	2.25	34.13	2.60	34.14	2.83	34.11
150m	1.83	34.12	2.57	34.13	1.82	34.11	2.26	34.13	2.34	34.13
200m	1.26	34.11	1.47	34.11	1.18	34.11	1.41	34.11	1.40	34.10
250m	1.08	34.11	0.87	34.09	0.73	34.11	2.66	34.11	0.76	34.09
300m		0.61	34.11	0.55	34.10	0.34	34.10	0.60	34.10	
400m		0.21	34.10	0.30	34.11		0.40	34.10		
500m			0.21	34.10		0.27	34.11			
600m										
700m										
800m										
900m										
1000m										

Table 6-3

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	
Station No	WEB003	WEB004	WEB005	WEB006	WEB007	WEB008	WEB009	J11	J12	J13		
Latitude:N	44–40.4	44–26.0	44–35.6	44–54.1	45–4.4	45–24.3	45–31.8	45–30.0	45–30.0	45–30.0		
Longitude:E	144–1.5	144–4.8	144–3.0	143–22.8	143–15.0	142–55.0	142–52.4	141–40.0	141–25.0	141–10.0		
Date	1994/05/24	1994/05/24	1994/05/25	1994/05/25	1994/05/25	1994/05/26	1994/05/26	1994/05/30	1994/05/30	1994/05/30		
Time(JST)	11:30	13:23	08:45	13:50	16:16	08:53	11:17	09:41	11:08	12:34		
Weather	BC	BC	BC	BC	BC	BC	C	C	C	C		
Air Temp.	17.0	18.0	14.5	15.0	14.5	14.0	18.0	18.0	18.5	14.5		
Bar	1014.0	1014.5	1017.5	1016.0	1016.0	1012.0	1011.5	1003.5	1002.0	1001.2		
Wind Dir	SW	SE	S	E	NNW	SW	E	ENE	ENE	SSW		
Wind Spd/F	F 1	F 1	F 1	F 1	F 1	F 2	F 1	F 1	F 1	F 2		
Transparency								4	10	9		
Depth	193	211	199	146	141	120	118	54	112	128		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	7.9	32.558	8.6	32.522	8.5	32.556	N.D.	N.D.	7.4	32.786	7.4	32.380
10m	2.86	32.54	2.49	32.62	2.86	32.48	3.95	32.53	3.37	32.80	4.47	32.32
20m	1.06	32.62	1.60	32.76	1.92	32.78	1.85	32.58	1.18	32.99	2.25	32.54
30m	-0.31	32.82	0.65	32.89	1.11	32.84	-0.63	32.58	-0.35	32.96	1.24	32.45
50m	-1.42	33.00	-1.28	33.00	0.10	33.10	-1.66	32.93	1.93	33.66	-1.76	33.00
75m	-1.36	33.09	-1.49	33.12	-0.24	33.20	0.99	33.29	4.43	34.01	2.91	33.69
100m	-1.23	33.15	-0.94	33.19	-0.13	33.24	3.65	33.76	4.35	33.99	3.96	33.95
125m	-1.04	33.17	-0.58	33.24	-0.44	33.25	2.90	33.79	4.14	33.98	0.25	33.40
150m	-0.75	33.26	-0.32	33.30	-0.08	33.32						
200m				2.67	33.89							
250m												
300m												
400m												
500m												
600m												
700m												
800m												
900m												
1000m												

Table 6-4

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405	199405
Station No	JW01	JW02	JW03	J14	J15	J16	J17	J18	JW15	JW16	
Latitude:N	45–45.0	45–45.0	45–45.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0	45–0.0	45–0.0	
Longitude:E	141–20.0	141–10.0	141–0.0	140–53.0	140–40.0	140–20.0	140–0.0	139–40.0	140–20.0	140–0.0	
Date	1994/05/30	1994/05/30	1994/05/30	1994/05/30	1994/05/30	1994/05/30	1994/05/31	1994/05/31	1994/05/31	1994/05/31	
Time(JST)	14:43	15:49	17:01	19:31	20:58	23:12	00:50	03:13	07:18	08:51	
Weather	R	R	C	F	F	F	D	D	F	C	
Air Temp.	14.5	12.0	12.0	11.0	10.5	10.0	8.5	8.0	10.5	9.5	
Bar	1000.5	999.0	999.5	1000.0	1000.0	1000.0	1000.3	1001.0	1003.0	1003.5	
Wind Dir	S	SSW	S	SSW	SW	NW	SW	SW	WSW	SW	
Wind Spd/F	F 1	F 2	F 2	F 3	F 1	F 1	F 2	F 2	F 2	F 2	
Transparency	9	9	13						11	12	
Depth	129	122	505	468	544	398	597	832	167	286	
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	9.2	33.986	9.2	33.760	8.7	33.908	9.3	33.873	8.3	33.840	7.5
10m	8.29	34.01	8.42	34.02	8.40	34.01	9.01	33.99	8.04	34.00	7.39
20m	8.26	34.01	8.35	34.01	8.33	34.00	8.92	33.98	7.72	33.99	7.35
30m	8.01	34.01	7.96	34.03	8.21	34.01	8.70	34.00	7.02	34.04	7.23
50m	6.91	34.03	7.42	34.09	6.82	34.06	7.97	34.08	5.53	34.05	4.70
75m	6.06	34.04	6.74	34.07	5.63	34.07	7.36	34.09	4.93	34.09	3.89
100m	5.54	34.09	6.42	34.04	5.07	34.10	5.95	34.08	4.40	34.09	2.85
125m	5.43	34.09			4.84	34.11	5.42	34.08	3.99	34.10	2.23
150m					4.59	34.12	5.09	34.11	3.38	34.12	1.86
200m					3.78	34.11	4.38	34.11	2.26	34.12	1.33
250m					2.11	34.12	3.14	34.08	1.50	34.11	0.90
300m					1.34	34.11	1.27	34.10	1.10	34.11	0.71
400m					0.89	34.11	0.76	34.11	0.59	34.10	
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6–5

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199405	199405	199405	199405	199405	199405	199405	199406	199406	199406	199406
Station No	J27	J26	J25	J24	J23	J22	J21	JW11	JW12	JW13	
Latitude:N	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	45– 0.0	45– 0.0	45– 0.0	
Longitude:E	139–30.0	140– 0.0	140–20.0	140–40.0	141– 0.0	141–15.0	141–30.0	141–30.0	141–15.0	141–15.0	141– 0.0
Date	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/05/31	1994/06/01	1994/06/01	1994/06/01	1994/06/01
Time(JST)	12:36	14:52	16:32	18:04	19:53	21:19	22:38	01:33	02:49	04:10	
Weather	C	BC	C	C	R	C	R	R	C	C	
Air Temp.	12.0	12.8	14.0	14.0	13.0	13.0	13.0	12.6	12.0	12.0	
Bar	1003.6	1003.7	1003.5	1003.5	1005.5	1006.0	1006.0	1004.2	1003.8	1004.0	
Wind Dir	S	SSW	SSW	SW	SW	SW	ESE	SE	ESE	SE	
Wind Spd/F	F 3	F 4	F 4	F 4	F 4	F 2	F 2	F 3	F 3	F 3	
Transparency	10	11	11	12							
Depth	508	581	243	143	208	117	77	65	85	108	
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	9.0	34.008	10.1	34.004	10.3	34.019	10.9	34.050	10.9	33.880	10.9
10m	8.40	33.99	9.56	34.00	10.25	34.00	10.89	34.03	10.99	33.89	11.03
20m	8.08	34.00	9.15	34.00	9.93	34.03	10.53	33.99	10.81	33.96	10.94
30m	6.78	34.03	9.08	33.98	9.58	34.02	9.51	34.04	10.24	33.89	10.65
50m	3.55	34.12	7.69	34.11	8.33	34.11	8.95	34.10	9.96	34.03	10.02
75m	2.69	34.10	5.83	34.09	6.85	34.12	8.41	34.14	8.56	33.99	9.08
100m	2.14	34.10	5.07	34.10	5.75	34.11	8.03	34.12	8.09	34.02	8.06
125m	1.67	34.11	4.35	34.07	4.84	34.10	7.15	34.15	7.63	34.09	
150m	1.49	34.10	3.64	34.09	4.23	34.11			5.45	34.11	
200m	1.02	34.12	2.04	34.09	3.91	34.10			4.76	34.10	
250m	0.77	34.10			1.34	34.10					
300m	0.60	34.10			1.00	34.11					
400m	0.38	34.11			0.59	34.12					
500m					0.43	34.11					
600m											
700m											
800m											
900m											
1000m											

Table 6–6

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	JW14	S4	S3	S2	S1	O15	OA10	O14	O13	O12	
Latitude:N	45– 0.0	45–40.0	45–37.0	45–34.0	45–31.0	45–30.0	45–30.0	45–30.0	45–20.5	45–12.5	
Longitude:E	140–40.0	142– 0.0	142– 0.0	142– 0.0	142– 0.0	142–10.0	142–30.0	142–50.0	142–40.7	142–32.5	
Date	1994/06/01	1994/06/06	1994/06/06	1994/06/06	1994/06/06	1994/06/06	1994/06/06	1994/06/06	1994/06/06	1994/06/06	
Time(JST)	05:55	12:08	12:31	12:53	13:14	13:53	15:19	16:57	18:25	19:47	
Weather	C	C	C	BC	BC	BC	BC	B	BC	BC	
Air Temp.	12.0	14.0	13.0	13.0	13.0	16.0	14.0	15.0	10.0	9.2	
Bar	1003.0	1017.0	1016.5	1016.0	1016.0	1015.5	1015.0	1014.6	1015.5	1015.5	
Wind Dir	SSE	WSW	W	W	WNW	WNW	WNW	WNW	W	SE	
Wind Spd/F	F 3	F 3	F 3	F 3	F 3	F 3	F 3	F 3	F 2	F 2	
Transparency	10	8	10	10	8	12	7	9	9	9	
Depth	370	54	49	41	26	35	82	118	98	62	
Equipment	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	8.9 34.176	8.5 N.D.	8.5 N.D.	9.8 N.D.	11.4 N.D.	9.0 N.D.	7.5 N.D.	7.8 N.D.	7.4 N.D.	7.4 N.D.	
10m	8.84 33.98	7.96 33.92	7.92 34.06	9.26 33.96	10.75 33.52	8.23 34.00	4.98 31.96	7.57 32.27	6.46 32.70	7.63 33.99	
20m	8.53 34.00	7.29 34.04	7.65 34.04	9.27 33.97	10.45 33.68	8.22 33.99	5.93 33.79	1.33 32.31	5.00 33.48	7.60 34.02	
30m	8.43 34.02	6.94 34.04	7.61 34.04	9.16 33.98		8.22 33.98	5.52 33.89	-1.01 32.86	4.54 33.75	7.63 34.02	
50m	8.18 34.03	6.72 34.05					5.72 34.01	-1.58 33.10	5.75 34.07	7.62 34.02	
75m	7.04 34.06						5.73 34.02	3.59 33.65	5.77 34.05		
100m	5.23 34.10							4.41 33.84			
125m	5.04 34.11										
150m	4.81 34.11										
200m	4.18 34.12										
250m	3.12 34.11										
300m	0.87 34.10										
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6–7

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	O11	OA02	OA03	OA04	OA05	O26	O25	O2f	O24	O2e	
Latitude:N	45– 9.0	44–52.0	45– 0.0	45–10.0	45–20.0	45–10.0	45– 0.1	44–55.0	44–50.0	44–47.5	
Longitude:E	142–30.0	142–52.0	143– 0.0	143–10.0	143–20.0	143–50.0	143–40.5	143–35.0	143–30.0	143–27.5	
Date	1994/06/06	1994/06/06	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07
Time(JST)	20:24	22:44	00:00	01:32	02:54	05:22	06:58	07:51	08:39	09:41	
Weather	F	BC	BC	BC	BC	B	B	B	B	B	
Air Temp.	10.0	9.0	9.5	10.0	9.0	10.0	16.0	18.5	14.0	14.5	
Bar	1015.5	1016.0	1015.5	1015.5	1015.5	1015.2	1015.3	1015.0	1014.5	1014.0	
Wind Dir	SE	ESE	SSE	S	SSW	S	SE	SE	ESE	ESE	
Wind Spd/F	F 2	F 1	F 2	F 1	F 1	F 1	F 1	F 1	F 1	F 2	
Transparency						9	10	10	14	10	
Depth	46	83	130	133	144	337	173	162	150	148	
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	9.2	N.D.	7.5	N.D.	8.2	N.D.	7.6	N.D.	8.3	N.D.	9.4
10m	9.23	33.91	7.00	33.68	6.02	32.72	6.59	32.32	6.81	32.20	4.86
20m	9.23	33.91	7.30	33.94	-0.95	32.88	3.45	32.45	3.08	32.47	1.40
30m	9.23	33.92	7.41	33.99	-0.52	33.06	1.06	32.66	0.53	32.64	0.07
50m			7.41	33.99	4.84	33.80	-1.65	32.96	-1.53	33.01	-1.05
75m			7.30	34.00	5.43	33.97	-1.77	33.06	-1.77	33.08	-1.21
100m					4.99	34.05	-1.72	33.12	-1.72	33.12	-1.29
125m					5.03	34.06	0.98	33.51	-1.72	33.12	-1.23
150m									-1.06	33.23	0.08
200m										-0.82	33.28
250m										-0.36	33.33
300m										-0.16	33.37
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6-8

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406
Station No	O2d	O2c	O23	O2b	O22	OA11	OA12	OA13	OA14	O35	
Latitude:N	44–45.0	44–42.5	44–40.0	44–37.5	44–35.0	44–20.0	44–25.5	44–30.0	44–40.0	44–50.0	
Longitude:E	143–25.0	143–22.5	143–20.0	143–17.5	143–15.0	143–40.0	143–42.5	143–50.0	144–0.0	144–20.0	
Date	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	1994/06/07	
Time(JST)	10:12	10:46	11:16	11:53	12:30	14:50	15:23	16:33	18:06	20:09	
Weather	BC	BC	BC	BC	BC	BC	BC	BC	BC	BC	
Air Temp.	15.0	14.0	14.0	14.0	14.5	17.5	15.5	20.0	14.5	13.0	
Bar	1013.5	1013.0	1013.0	1012.5	1012.0	1011.0	1010.5	1009.5	1009.5	1010.0	
Wind Dir	SE	SE	SE	ESE	E	E	E	ESE	ESE	SE	
Wind Spd/F	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 1	F 2	
Transparency	10	7	7	7	9	5	5	8	8		
Depth	139	128	113	90	72	61	91	163	189	154	
Equipment	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD	
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	9.5 N.D.	9.3 N.D.	9.2 N.D.	11.6 N.D.	12.5 N.D.	10.5 N.D.	9.5 N.D.	9.3 N.D.	9.5 N.D.	9.4 N.D.	
10m	4.89 32.49	4.91 33.32	6.35 33.51	8.47 33.94	10.26 33.59	9.37 33.86	8.00 33.96	2.17 32.76	6.24 32.74	5.54 32.45	
20m	2.45 33.21	6.88 33.99	5.87 33.78	7.89 33.94	9.99 33.71	8.45 33.83	7.92 33.97	0.42 32.97	1.03 33.09	2.81 32.66	
30m	-1.41 33.02	6.71 33.98	5.31 33.91	7.57 33.98	9.73 33.80	8.09 33.94	7.70 33.97	4.76 33.79	-1.24 33.03	0.53 32.78	
50m	5.63 33.95	6.49 33.99	5.46 33.99	7.17 34.00	9.19 33.82	7.89 34.00	7.24 33.97	5.97 34.01	-1.42 33.07	-1.03 33.03	
75m	3.75 33.76	5.78 34.00	5.27 33.97	6.24 33.98			6.62 33.99	5.32 33.89	-1.28 33.14	-1.18 33.12	
100m	4.52 33.87	5.21 34.03	5.17 34.00					5.78 34.03	-0.94 33.21	-1.09 33.16	
125m	4.99 33.96	5.20 34.03						5.45 33.99	-0.82 33.22	-0.54 33.25	
150m								5.23 33.98	0.06 33.28		
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6–9

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	O36	O46	O45	O44	O43	O42	O41	OA24	OA23	OA22		
Latitude:N	45–8.0	45–10.0	45–0.0	44–50.0	44–40.0	44–30.0	44–22.0	44–30.0	44–20.0	44–10.0		
Longitude:E	144–20.0	145–20.0	145–20.0	145–20.0	145–20.0	145–20.0	145–20.0	144–50.0	144–50.0	144–50.0		
Date	1994/06/07	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/08		
Time(JST)	22:00	02:12	03:32	04:45	06:06	07:37	09:01	11:32	13:48	15:15		
Weather	BC											
Air Temp.	12.0	10.0	10.0	13.5	12.5	13.0	13.0	19.0	15.0	17.0		
Bar	1010.0	1009.0	1010.0	1010.0	1010.2	1010.0	1009.0	1008.5	1007.0	1006.0		
Wind Dir	SSE	SSE	S	S	SSE	SE	ESE	ENE	NE			
Wind Spd/F	F 2	F 2	F 2	F 1	F 2	F 2	F 2	F 1	F 2	F 2		
Transparency	800			8	9	9	13	13	10	7		
Depth	800						139	9991	1093	593		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	8.1	N.D.	7.6	N.D.	7.9	N.D.	8.4	N.D.	7.9	N.D.	13.0	N.D.
10m	3.82	32.08	5.03	32.27	7.80	32.70	7.53	33.19	5.63	32.10	7.13	32.89
20m	2.29	32.25	2.29	32.39	4.04	32.78	0.08	32.91	-0.02	32.57	5.64	32.79
30m	0.22	32.56	0.55	32.59	-0.29	32.65	0.04	33.02	-0.37	32.85	3.79	32.97
50m	-1.05	32.90	-1.26	32.95	-1.07	33.01	-0.66	33.10	-1.02	32.97	2.65	33.16
75m	-1.06	33.07	-1.03	33.06	-1.35	33.08	1.05	33.31	-1.15	33.08	2.27	33.27
100m	-0.92	33.17	-1.20	33.13	-1.50	33.10	-0.20	33.29	-0.63	33.16	1.99	33.44
125m	-0.57	33.25	-0.63	33.21	-1.05	33.18	0.04	33.31	-0.64	33.22	2.43	33.55
150m	-0.26	33.29	-0.83	33.19	-0.41	33.28	0.17	33.36	-0.44	33.26	2.42	33.61
200m	-0.28	33.34	0.29	33.37	-0.18	33.34	0.82	33.45	0.37	33.38	2.75	33.73
250m	0.19	33.42	0.53	33.46	0.41	33.42	1.97	33.58	0.57	33.45	3.19	33.82
300m	0.54	33.48	0.67	33.48	0.32	33.46	1.68	33.60	0.73	33.52	2.96	33.82
400m	0.53	33.58	0.92	33.59	1.02	33.59	1.64	33.69	0.86	33.60	2.64	33.80
500m	1.17	33.70	1.61	33.79	1.42	33.74	1.99	33.78			2.19	33.80
600m												
700m												
800m												
900m												
1000m												

Table 6-10

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	199406	
Station No	OA21	O31	OA20	O32	O33	O34	WEB001	WEB002	WEB003	WEB004		
Latitude:N	44– 5.1	44– 2.2	44– 5.0	44–10.0	44–20.0	44–30.0	44–44.7	44–44.4	44–44.1	44–44.4		
Longitude:E	144–50.4	144–20.4	144–20.0	144–20.0	144–20.0	144–20.0	141–36.7	141–32.4	141–24.8	141–15.4		
Date	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/08	1994/06/27	1994/06/27	1994/06/28	1994/06/28		
Time(JST)	16:14	18:45	19:11	19:58	21:20	22:35	15:30	16:11	00:00	12:25		
Weather	BC	B										
Air Temp.	18.0	18.0	18.0	17.5	15.0	14.0			14.0	15.0		
Bar	1005.5	1005.8	1005.5	1005.5	1005.5	1005.0	1010.0	1010.0	1014.0	1013.5		
Wind Dir	NE	ESE	SE	SE	SSE	S	NE	NE	N	N		
Wind Spd/F	F 2	F 2	F 2	F 2	F 2	F 3	S 10	S 11	F 2	F 2		
Transparency	9	5							2	2		
Depth	232	35	36	112	268	750	71	82	91	101		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	12.3	N.D.	15.9	N.D.	15.9	N.D.	9.4	N.D.	10.8	N.D.	14.1	33.760
10m	10.30	33.44	11.43	33.20	11.30	33.24	9.28	33.86	3.91	32.28	5.23	32.55
20m	9.96	33.57	9.22	33.48	10.87	33.58	9.04	33.90	3.99	32.49	3.94	32.53
30m	9.57	33.62	8.45	33.76	9.14	33.85	8.88	33.95	1.25	32.65	1.47	32.67
50m	8.31	33.96					8.01	33.97	-1.18	32.98	-1.04	32.93
75m	7.62	33.99					6.56	33.97	-1.45	33.09	-1.43	33.06
100m	7.12	33.99					6.18	33.94	-1.20	33.15	-1.45	33.09
125m	6.74	33.96							-0.94	33.20	-1.37	33.14
150m	6.30	33.96							-0.38	33.27	-1.12	33.18
200m	5.55	33.89							0.44	33.39	-0.72	33.24
250m									2.72	33.76	1.18	33.44
300m											0.17	33.39
400m											0.49	33.49
500m											0.90	33.60
600m												
700m												
800m												
900m												
1000m												

Table 6–11

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199406	199406	199406	199407	199407	199407	199407	199407	199407	199407	199407
Station No	WEB005	WEB006	WEB007	WEB001	WEB002	WEB003	WEB004	WEB005	WEB006	WEB007	WEB007
Latitude:N	44–46.4	44–46.2	44–44.2	45–13.1	45–10.6	45–8.9	45–9.6	44–54.3	44–58.8	44–55.4	
Longitude:E	141–5.0	140–58.5	140–55.0	140–45.0	140–44.3	140–40.8	140–42.8	140–30.5	140–30.7	140–27.2	
Date	1994/06/29	1994/06/29	1994/06/30	1994/07/06	1994/07/06	1994/07/07	1994/07/07	1994/07/08	1994/07/08	1994/07/08	1994/07/09
Time(JST)	11:12	12:47	10:40	15:23	16:24	12:07	12:55	12:22	13:41		08:47
Weather	BC	BC	R	C	C	R	R	C	C		C
Air Temp.	17.0	15.0	16.5	15.5	16.5	16.0	20.0	21.5			17.5
Bar	1011.5	1010.0	1011.0	1011.0	1009.5	1009.0	1010.5	1010.0			1012.0
Wind Dir	SSW	S	ENE	NE	SSE	SSE	CALM	E			SE
Wind Spd/F	S	S 3	S 3	F 4	F 4	F 2	S 3	S 0	F 1		F 3
Transparency		3	3								
Depth	116	139	152	476	426	395	400	289	313		183
Equipment	STD		STD								
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	14.5	33.980	15.0	33.810	15.1	33.840	15.3	33.830	15.6	33.920	16.1
10m	14.18	34.02	14.52	33.95	15.14	33.83	15.21	33.85	15.80	33.92	16.13
20m	13.82	33.99	13.96	33.98	14.94	33.91	14.84	33.86	13.34	33.75	14.85
30m	12.48	33.84	13.93	33.96	12.48	33.89	11.33	33.99	10.42	34.10	10.38
50m	9.31	34.04	9.53	34.08	8.90	34.11	7.83	34.11	8.32	34.17	8.11
75m	7.94	34.08	7.12	34.11	7.15	34.06	5.44	34.07	6.00	34.13	6.84
100m	6.22	34.08	6.00	34.12	6.01	34.09	4.73	34.11	4.91	34.10	5.73
125m		5.12 34.11		5.14 34.09		4.13 34.11		4.35 34.11		4.99 34.11	
150m						3.55 34.10		3.91 34.09		4.33 34.12	
200m							2.38 34.11	2.54 34.07	2.85 34.11	2.89 34.10	4.99 34.13
250m								1.54 34.10	1.60 34.10	2.27 34.10	2.16 34.09
300m									1.12 34.10	1.15 34.09	1.30 34.11
400m										0.63 34.10	0.58 34.09
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6-12

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407	199407
Station No	WEB008	WEB009	WEB010	WEB011	WEB012	WEB013	WEB014	WSU001	WSU002	WSU003	
Latitude:N	44–56.1	44–53.5	44–55.2	44–49.8	44–48.6	44–57.0	44–57.6	45–30.0	45–1.0	45–13.6	
Longitude:E	140–27.4	140–25.9	140–26.6	140–24.0	140–22.8	140–27.7	140–29.1	142–47.0	143–18.7	143–18.8	
Date	1994/07/09	1994/07/11	1994/07/11	1994/07/12	1994/07/12	1994/07/13	1994/07/13	1994/07/25	1994/07/26	1994/07/26	
Time(JST)	09:26	13:25	13:58	10:31	11:02	10:45	11:10	16:20	08:30	10:00	
Weather	BC	R	R	BC	BC	C	R	R	C	C	
Air Temp.	19.0	16.5	16.5	16.5	17.5	17.5	17.5	13.5	17.5	18.0	
Bar	1012.0	1001.0	1001.0	1008.0	1008.0	1009.0	1009.0	1009.0	1004.0	1003.5	
Wind Dir	SSE	ENE	ENE	NW	NW	SSW	SSW	E	S	S	
Wind Spd/F	F 3	F 3	F 3	F 2	F 2	F 3	F 3	F 4	F 1	F 1	
Transparency											2
Depth	198	140	155	131	93	228	289	119	147	142	
Equipment	STD	STD									
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	16.1	33.840	15.7	33.700	15.9	33.530	100.0	N.D.	16.4	33.820	16.4
10m	15.98	33.83	15.80	33.70	15.90	33.71	16.04	33.83	16.15	33.87	16.43
20m	15.19	33.57	15.88	33.78	15.90	33.73	15.93	33.88	13.17	33.82	15.75
30m	12.25	33.88	12.93	33.84	15.31	33.70	12.23	33.91	11.90	33.96	10.99
50m	9.96	33.98	10.94	33.94	10.46	33.90	10.19	34.02	10.60	34.01	10.18
75m	9.16	34.03	10.12	34.03	9.79	33.99	9.08	34.20	9.62	34.23	9.43
100m	8.85	34.05	9.12	34.06	9.04	34.11	7.02	34.11			8.76
125m	8.74	34.04	8.31	34.04	8.16	34.09	6.26	34.11			8.16
150m	6.15	33.96			7.30	34.12			7.52	34.10	7.26
200m								2.60	34.08	2.99	34.07
250m										1.65	34.02
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6–13

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199407	199407	199407	199407	199408	199408	199408	199408	199408	199408	199408
Station No	WSU004	WSU005	WSU006	WSU007	J11	J12	J13	J14	J15		J16
Latitude:N	45–22.4	44–31.4	44–40.1	44–57.4	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0
Longitude:E	143–13.4	144–3.9	144–3.5	143–59.0	141–40.0	141–25.0	141–10.0	140–53.0	140–40.0	140–20.0	
Date	1994/07/26	1994/07/27	1994/07/27	1994/07/27	1994/08/01	1994/08/01	1994/08/01	1994/08/01	1994/08/01	1994/08/01	1994/08/01
Time(JST)	13:30	09:45	12:15	15:40	09:50	11:02	12:08	13:39	14:50		16:39
Weather	F	F	F	F	C	F	C	F	C		C
Air Temp.	19.0	18.5	19.0	17.0	23.0	23.5	23.5	22.6	22.6		22.0
Bar	1003.0	1003.0	1002.0	1003.0	1003.5	1003.0	1003.0	1003.0	1002.7		1002.5
Wind Dir	CALM	S	SSE	ENE	SSW	SW	SSW	SW	SW		SSW
Wind Spd/F	S 0	F 1	S 1	F 2	F 3	F 3	F 3	F 2	F 3		F 2
Transparency	2		3	3	12	15	11	8	11		17
Depth	132	200	201	200	53	112	127	430	550		398
Equipment	STD		STD								
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	20.0	33.717	19.0	33.866	20.3
10m	14.74	32.12	6.50	32.40	10.22	31.20	15.04	32.39	19.79	33.64	17.74
20m	1.94	32.47	7.12	33.77	3.07	33.07	5.22	32.68	17.85	33.72	13.17
30m	-0.39	32.79	4.85	33.57	-1.07	33.00	0.79	32.61	11.30	34.00	10.48
50m	-0.98	32.94	0.19	33.29	-1.24	33.11	-0.90	33.00	9.23	34.08	8.26
75m	-1.02	33.11	0.63	33.33	-0.25	33.19	-1.24	33.09			7.51
100m	2.83	33.61	0.32	33.30	0.37	33.29	0.34	33.26			5.83
125m			0.47	33.36	0.68	33.36	0.84	33.33			6.43
150m			3.55	33.71	0.92	33.47	1.28	33.41			5.53
200m											6.19
250m											4.86
300m											3.31
400m											0.48
500m											0.54
600m											
700m											
800m											
900m											
1000m											

Table 6–14

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	
Station No	J17	J18	JW15	JW16	J27	J26	J25	J24	J23	J22		
Latitude:N	45–30.0	45–30.0	45– 0.0	45– 0.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0		
Longitude:E	140– 0.0	139–40.0	140–20.0	140– 0.0	139–30.0	140– 0.0	140–20.0	140–40.0	141– 0.0	141–15.0		
Date	1994/08/01	1994/08/01	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02		
Time(JST)	18:12	19:58	00:03	02:02	05:42	07:54	09:35	11:05	12:27	13:33		
Weather	BC	BC	F	F	F	F	C	F	C	C		
Air Temp.	21.0	20.5	21.5	21.2	20.5	21.5	24.0	24.0	24.5	24.5		
Bar	1002.5	1003.0	1004.2	1003.2	1004.0	1005.5	1005.0	1005.0	1004.6	1004.0		
Wind Dir	SSW	SSW	SW	SSW	SW	SW	SSW	SSW	SSW	SSW		
Wind Spd/F	F 2	F 2	F 3	F 4	F 3	F 3	F 2	F 2	F 3	F 2		
Transparency	15				13	17	10	13	7	11		
Depth	602	845	157	250	510	578	252	142	198	117		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	19.7	33.620	19.3	33.599	21.0	33.995	20.9	33.938	20.2	33.737	20.9	33.844
10m	17.35	33.16	16.35	33.46	17.10	33.94	20.76	33.93	18.66	33.73	20.68	33.77
20m	11.41	33.48	8.17	33.99	16.06	33.94	15.93	33.65	14.79	33.58	16.44	33.92
30m	6.53	33.99	6.10	33.94	12.07	33.89	10.83	34.18	9.30	34.04	10.64	33.97
50m	3.90	34.06	3.42	34.12	9.12	34.15	7.76	34.16	6.01	34.10	6.81	34.13
75m	2.83	34.08	2.65	34.13	8.05	34.15	6.14	34.13	4.08	34.11	5.49	34.10
100m	2.27	34.12	2.18	34.09	6.78	34.10	4.97	34.09	3.07	34.09	4.99	34.10
125m	1.87	34.11	1.81	34.11	5.37	34.07	4.28	34.08	2.44	34.08	4.68	34.11
150m	1.57	34.09	1.61	34.09	4.19	34.09	3.53	34.11	1.97	34.09	4.07	34.10
200m	1.13	34.09	1.10	34.08			3.18	34.09	1.33	34.08	2.52	34.10
250m	0.83	34.09	0.79	34.09					1.02	34.09	1.44	34.10
300m	0.66	34.08	0.63	34.10					0.90	34.09	1.03	34.09
400m	0.45	34.08	0.45	34.11					0.53	34.08	0.57	34.10
500m	0.35	34.09	0.35	34.09					0.38	34.10	0.38	34.10
600m												
700m												
800m												
900m												
1000m												

Table 6-15

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408		199408		199408		199408		199408		199408		199408		199408	
Station No	J21		JW11		JW12		JW13		JW14		JW03		JW02		JW01	
Latitude:N	44-30.0		45- 0.0		45- 0.0		45- 0.0		45- 0.0		45-45.0		45-45.0		45-45.0	
Longitude:E	141-30.0		141-30.0		141-15.0		141- 0.0		140-40.0		141- 0.0		141-10.0		141-20.0	
Date	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/02	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03
Time(JST)	14:35	17:22	18:26	19:28	20:54	01:34	02:30	03:17	05:57	06:20						
Weather	BC	BC	BC	F	F	F	F	F	F	F						
Air Temp.	27.0	24.5	23.0	22.0	22.0	20.0	19.8	19.0	19.0	18.5						
Bar	1003.6	1003.5	1003.0	1004.0	1004.5	1004.5	1004.5	1004.7	1006.0	1006.0						
Wind Dir	S	SSE	SSE	NNE	CALM	ESE	ESE	ESE	ESE	ESE						
Wind Spd/F	F 1	F 1	F 1	F 1	F 0	F 2	F 2	F 2	F 3	F 3						
Transparency	11	22	16								12	16				
Depth	78	64	84	98	370	495	122	126	58	44						
Equipment	STD															
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S
0m	22.8	34.128	20.6	33.841	21.1	33.846	21.4	33.997	21.2	33.939	20.3	33.924	18.3	33.842	18.9	33.832
10m	21.70	34.13	18.81	33.98	18.04	33.82	18.42	33.90	18.78	33.86	19.99	33.93	18.20	33.74	18.91	33.83
20m	18.12	34.14	16.60	34.01	14.89	33.90	16.58	34.03	16.76	33.88	16.19	33.91	16.01	33.80	16.64	33.90
30m	16.53	34.10	13.83	33.85	11.69	33.93	14.99	33.78	13.75	33.83	12.09	34.17	12.45	33.90	14.77	33.61
50m	10.82	34.09	9.93	34.08	9.47	34.05	9.47	34.00	8.54	34.10	8.88	34.16	9.19	33.97	10.18	34.01
75m	8.54	34.15			7.99	34.04	7.92	34.17	7.01	34.10	7.33	34.14	7.64	34.06	8.10	34.02
100m							5.83	34.11	5.55	34.09	6.33	34.08	7.20	34.09		
125m							5.16	34.11	4.56	34.07						
150m							4.65	34.11	3.62	34.08						
200m							2.67	34.07	2.67	34.07						
250m							1.44	34.10	1.76	34.09						
300m							0.92	34.09	1.08	34.10						
400m									0.61	34.09						
500m																
600m																
700m																
800m																
900m																
1000m																

Table 6-16

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	S2	S1	O15	OA10	O14	O13	OA04	OA05	O26	O25	
Latitude:N	45–34.0	45–31.0	45–30.0	45–30.0	45–30.0	45–20.0	45–10.0	45–20.0	45–10.0	45–0.0	
Longitude:E	142–0.0	142–1.2	142–10.0	142–30.0	142–50.0	142–40.0	143–10.0	143–20.0	143–50.0	143–40.0	
Date	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	1994/08/03	
Time(JST)	06:42	07:01	07:35	08:48	10:14	11:28	13:39	14:52	17:05	18:35	
Weather	F	F	F	F	F	F	B	B	B	BC	
Air Temp.	19.0	19.0	19.0	18.5	20.0	21.0	24.2	26.0	27.0	22.0	
Bar	1005.5	1005.5	1005.5	1006.0	1005.0	1005.0	1003.2	1002.6	1002.0	1002.0	
Wind Dir	ESE	SE	SE	ESE	ESE	CALM	E	ESE	SE	WNW	
Wind Spd/F	F 3	F 3	F 2	F 1	F 1	F 0	F 1	F 1	F 2	F 1	
Transparency	15	14	12	6	10	13	12	12	12	8	
Depth	46	34	35	83	118	96	132	142	331	171	
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	18.4	33.779	16.2	33.814	18.7	33.664	10.5	31.754	18.7	31.835	9.7
10m	17.17	33.87	15.67	33.84	17.20	33.84	3.07	33.01	13.62	31.82	6.26
20m	10.58	33.75	15.05	33.99	11.36	33.99	2.14	33.38	4.04	32.32	6.19
30m	10.01	34.03	12.24	34.00	11.36	33.99	2.22	33.53	0.76	32.69	6.14
50m							4.58	33.99	-0.86	32.96	6.03
75m							4.51	33.99	-1.13	33.04	5.88
100m									2.25	33.54	2.22
125m										3.02	33.82
150m											-1.45
200m											
250m											
300m											
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6-17

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408
Station No	O35	O36	O46	O45	O44	O43	O42	O41	O41	OA24	OA23
Latitude:N	44–50.0	45–8.0	45–10.0	45–0.0	44–50.0	44–40.0	44–30.0	44–20.0	44–30.0	44–30.0	44–20.0
Longitude:E	144–20.0	144–20.0	145–20.0	145–20.0	145–20.0	145–20.0	145–20.0	145–20.0	144–50.0	144–50.0	144–50.0
Date	1994/08/03	1994/08/03	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04
Time(JST)	21:26	23:16	03:20	04:30	05:38	06:46	08:26	09:53	12:13	14:31	
Weather	BC										
Air Temp.	21.0	20.0	18.5	18.5	21.0	22.0	20.0	21.0	26.0	27.0	
Bar	1002.0	1002.0	1000.5	1001.0	1001.0	1001.0	1001.0	1001.0	1000.0	999.6	
Wind Dir	ESE	NNE	SW	SW	S	SW	SE	SE	S	CALM	
Wind Spd/F	F 2	F 1	F 2	F 2	F 2	F 2	F 1	F 1	F 1	F 0	
Transparency				10	13	12	8	7	11	14	
Depth	153	798		9991	9991	9991				1088	
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	20.0	32.182	19.8	32.262	17.5	32.849	17.0	32.651	18.3	32.446	17.4
10m	12.07	32.05	12.63	32.09	11.45	32.98	13.03	33.47	13.90	32.43	8.19
20m	1.98	32.71	4.59	32.15	2.38	32.79	2.57	33.06	5.00	33.24	2.17
30m	-0.73	32.94	2.84	33.12	3.61	33.16	2.31	33.18	3.45	33.31	3.06
50m	-1.39	33.05	1.00	33.17	3.00	33.42	-0.34	33.19	-0.22	33.13	-0.86
75m	-1.19	33.17	-0.29	33.15	2.37	33.43	1.54	33.38	0.92	33.32	-0.64
100m	-1.17	33.22	-0.48	33.21	1.74	33.40	0.96	33.34	0.24	33.35	-0.74
125m	0.18	33.36	-0.14	33.24	0.73	33.37	0.61	33.38	0.54	33.35	1.00
150m			-0.03	33.31	0.45	33.39	1.97	33.60	0.93	33.43	1.27
200m			0.36	33.39	0.96	33.45	0.83	33.49	0.82	33.47	0.41
250m			0.88	33.48	0.69	33.47	3.07	33.77	0.82	33.49	0.81
300m			1.16	33.54	1.63	33.61	3.18	33.80	1.67	33.62	1.28
400m			1.02	33.59	1.29	33.63	2.17	33.74	1.53	33.68	1.15
500m			1.37	33.76	1.52	33.76	1.86	33.78	1.36	33.75	1.28
600m											
700m											
800m											
900m											
1000m											

Table 6–18

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	199408	
Station No	OA22	OA21	O31	OA20	O32	O33	O34	OA14	OA13	OA12		
Latitude:N	44–10.0	44–2.0	44–2.0	44–5.0	44–10.0	44–20.0	44–30.0	44–40.0	44–30.0	44–22.6		
Longitude:E	144–50.0	144–50.0	144–20.0	144–20.0	144–20.0	144–20.0	144–20.0	144–0.0	143–50.0	143–42.6		
Date	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/04	1994/08/05	1994/08/05	1994/08/05		
Time(JST)	15:45	16:45	18:50	19:10	19:44	20:57	22:08	00:00	01:16	02:15		
Weather	BC											
Air Temp.	27.5	26.5	23.0	23.0	22.0	20.0	20.0	20.0	20.0	18.5		
Bar	999.5	1000.0	1002.0	1003.0	1003.0	1005.0	1005.5	1007.0	1007.8	1007.2		
Wind Dir	NNE	NNE	ENE	SSE	S	NW	WNW	NW	WNW	W		
Wind Spd/F	F 1	F 2	F 1	F 1	F 1	F 3	F 3	F 2	F 2	F 1		
Transparency	6	10										
Depth	573	75	34	36	114	266	877	189	164	91		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	14.7	33.248	20.3	33.760	21.7	33.533	19.1	33.728	16.8	33.901	15.9	32.953
10m	5.28	33.02	16.84	33.74	18.04	33.67	17.55	33.75	16.63	33.84	6.32	32.76
20m	6.93	33.68	14.89	33.84	17.13	33.75	16.86	33.79	14.46	33.84	1.00	32.90
30m	6.42	33.85	14.66	33.86	15.73	33.77	16.48	33.79	10.92	33.95	0.13	33.04
50m	6.27	33.83	13.11	33.91					9.69	34.04	0.72	33.19
75m	4.75	33.69					9.62	34.03	1.82	33.46	-0.47	33.17
100m	5.25	33.77					9.35	33.99	0.17	33.34	-0.72	33.19
125m	4.48	33.69							0.91	N.D.	-0.69	33.20
150m	3.59	33.63							1.08	33.46	-0.52	33.27
200m	2.44	33.52							2.98	33.69	-0.26	33.34
250m	-0.15	33.34							1.36	33.57	1.07	33.47
300m	0.53	33.45									1.17	33.51
400m	0.76	33.56									0.88	33.58
500m	1.80	33.75									1.07	33.68
600m												
700m												
800m												
900m												
1000m												

Table 6–19

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199408	199408	199408	199408	199408	199408	199408	199410	199410	199410
Station No	O22	O23	O24	OA03	OA02	O11	O12	S4	S3	S2
Latitude:N	44–35.0	44–40.0	44–50.0	45– 0.0	44–52.5	45– 8.0	45–12.4	45–40.0	45–37.0	45–34.0
Longitude:E	143–15.0	143–20.0	143–30.0	143– 0.0	142–52.5	142–28.0	142–32.5	142– 0.0	142– 0.0	142– 0.0
Date	1994/08/05	1994/08/05	1994/08/05	1994/08/05	1994/08/05	1994/08/05	1994/08/05	1994/10/03	1994/10/03	1994/10/03
Time(JST)	04:44	05:24	06:44	09:08	10:06	12:34	13:12	13:00	13:23	13:46
Weather	B	F	B	B	B	BC	BC	BC	BC	BC
Air Temp.	18.0	17.5	20.0	23.0	23.0	25.8	23.5	19.0	18.0	17.0
Bar	1011.0	1011.5	1012.5	1013.0	1013.0	1012.6	1012.5	1019.5	1019.0	1019.0
Wind Dir	NNW	NW	NW	CALM	CALM	E	ESE	WSW	NW	NW
Wind Spd/F	F 1	F 1	F 1	F 0	F 0	F 2	F 2	F 1	F 1	F 1
Transparency	13	8	12	7	12	10	15	21	16	14
Depth	73	112	148	128	83	31	60	54	47	45
Equipment	STD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	15.8	33.815	13.7	33.194	19.0	32.506	19.6	32.294	19.8	33.613
10m	15.26	33.84	10.51	33.30	11.43	32.27	12.14	32.75	16.15	33.84
20m	15.25	33.85	6.38	33.92	3.12	32.72	2.65	33.44	15.23	33.85
30m	15.14	33.84	6.93	34.05	1.57	32.89	5.86	34.02	14.01	33.87
50m	10.91	33.81	6.68	34.02	0.10	33.23	5.80	34.03	12.60	33.88
75m			5.97	34.02	2.16	33.45	5.65	34.02	8.88	34.05
100m			5.56	33.97	1.58	33.46	5.56	34.03		
125m					3.64	33.83	5.38	34.02		
150m										
200m										
250m										
300m										
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 6–20

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	
Station No	S1	O15	OA10	O14	O13	O12	OA02	OA03	OA04	OA05		
Latitude:N	45–31.0	45–30.0	45–30.0	45–30.0	45–20.0	45–12.5	44–53.0	45–0.0	45–10.0	45–20.0		
Longitude:E	142–0.0	142–10.0	142–30.0	142–50.0	142–40.0	142–32.5	142–52.3	143–0.0	143–10.0	143–20.0		
Date	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/03	1994/10/04	1994/10/04		
Time(JST)	14:06	14:47	16:02	17:21	18:37	19:41	22:15	23:18	00:45	02:01		
Weather	BC	C	BC	BC	C	BC	BC	BC	BC	BC		
Air Temp.	17.0	20.5	17.0	15.0	15.0	15.0	14.5	13.8	14.0	13.0		
Bar	1019.0	1019.5	1020.0	1020.0	1021.0	1021.0	1021.2	1021.0	1021.0	1021.0		
Wind Dir	W	NW	NW	W	WNW	ESE	S	S	S	S		
Wind Spd/F	F 1	F 2	F 2	F 1	F 1	F 1	F 2	F 2	F 2	F 2		
Transparency	15	16	8									
Depth	25	35	81	118	94	59	88	128	132	142		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	18.5	33.801	18.0	33.889	13.0	32.114	13.3	30.340	13.6	31.023	17.3	33.817
10m	18.68	33.75	17.51	33.92	11.46	32.52	12.51	32.22	13.57	31.93	17.54	33.91
20m	18.68	33.76	16.92	33.94	10.40	33.21	12.42	32.24	12.77	32.65	17.45	33.91
30m			16.67	33.95	9.87	33.41	11.91	32.27	10.86	33.29	17.43	33.89
50m					9.23	34.10	0.03	32.62	10.49	34.00	17.44	33.91
75m					9.25	34.11	-0.77	32.99	10.35	34.04		
100m							-1.14	33.14				
125m											9.02	33.98
150m											9.00	34.01
200m												1.41
250m												33.47
300m												-0.95
400m												33.23
500m												
600m												
700m												
800m												
900m												
1000m												

Table 6–21

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410
Station No	O26	O25	O24	O23	O22	OA12	OA13	OA14	O34	O35	
Latitude:N	45–10.0	45– 0.0	44–50.0	44–40.0	44–35.0	44–22.5	44–30.0	44–40.0	44–30.0	44–50.0	
Longitude:E	143–50.0	143–40.0	143–30.4	143–20.0	143–15.0	143–42.6	143–50.0	144– 0.0	144–20.0	144–20.0	
Date	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04	1994/10/04
Time(JST)	04:15	05:31	06:48	08:12	08:59	11:07	12:02	13:17	14:59	17:07	
Weather	BC	C	C	BC							
Air Temp.	13.0	13.0	14.0	16.0	17.0	16.5	16.5	19.0	17.0	14.0	
Bar	1022.5	1022.0	1022.0	1021.2	1021.6	1020.8	1020.0	1019.5	1019.5	1019.0	
Wind Dir	S	SSE	SSE	SE	SE	SE	ESE	ESE	E	SSE	
Wind Spd/F	F 2	F 1	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 2	F 3
Transparency		7	7	11	11	12	9	11	13		
Depth	353	171	148	111	72	89	163	187	860	152	
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	T
0m	12.6	32.421	12.3	32.207	12.4	31.981	13.6	32.332	15.4	33.803	13.6
10m	12.79	32.43	12.45	32.19	12.48	31.96	12.97	32.83	15.56	33.88	15.16
20m	12.63	32.39	7.02	32.35	11.45	31.78	13.47	33.39	15.46	33.85	14.88
30m	1.79	32.81	0.14	32.92	7.19	32.82	13.04	33.51	15.45	33.87	14.08
50m	-0.28	33.00	-0.77	33.07	7.80	33.87	12.23	33.84	15.37	33.85	13.65
75m	-0.87	33.13	-1.20	33.12	1.90	33.32	11.42	33.87			13.54
100m	-1.10	33.15	-0.94	33.17	1.04	33.28	10.47	33.95			2.15
125m	-1.07	33.14	-0.54	33.25	3.13	33.53					2.49
150m	-1.05	33.15	-0.46	33.26							2.05
200m	-0.80	33.21									
250m	-0.27	33.30									
300m	0.01	33.35									
400m											
500m											
600m											
700m											
800m											
900m											
1000m											

Table 6–22

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	
Station No	O36	O46	O45	O44	O43	OA23	OA22	OA21	O31	OA20		
Latitude:N	45– 8.0	45–10.0	45– 0.0	44–50.0	44–40.0	44–20.0	44–10.0	44– 2.0	44– 2.0	44– 5.0		
Longitude:E	144–20.0	145–20.0	145–20.0	145–20.0	145–20.0	144–50.0	144–50.0	144–50.0	144–21.3	144–20.0		
Date	1994/10/04	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/05	1994/10/05		
Time(JST)	19:20	00:25	02:18	04:08	06:05	10:08	11:36	12:43	14:50	17:56		
Weather	BC	C	BC	BC	C	R	R	R	C	C		
Air Temp.	13.5	12.0	12.0	13.0	12.0	14.5	14.8	15.0	15.0	15.0		
Bar	1018.0	1018.0	1017.5	1017.0	1016.0	1013.8	1012.4	1011.0	1011.0	1011.0		
Wind Dir	SE	SSE	SSE	SSE	SSE	S	SSE	SE	S	SSW		
Wind Spd/F	F 3	F 6	F 5	F 5	F 6	F 6	F 5	F 3	F 2	F 2		
Transparency					10	10	7	11	7			
Depth	803						593	77	40	36		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	12.0	33.088	12.3	33.066	12.9	33.240	11.8	32.786	13.2	32.891	13.2	32.652
10m	11.22	32.96	12.40	33.02	13.12	33.18	11.75	32.72	12.55	32.80	13.28	32.61
20m	10.18	33.09	12.38	33.00	13.05	33.16	9.02	32.92	6.48	33.19	11.11	32.86
30m	4.03	33.21	9.59	32.98	9.14	32.87	7.46	33.05	3.02	33.25	4.06	33.14
50m	2.34	33.22	1.01	32.95	1.96	33.26	3.85	33.47	2.11	33.38	0.58	33.15
75m	0.47	33.17	0.32	33.19	0.94	33.24	2.42	33.47	1.74	33.40	0.67	33.26
100m	0.06	33.23	1.38	33.28	1.18	33.33	2.08	33.49	1.53	33.40	0.83	33.28
125m	0.22	33.28	1.07	33.32	1.35	33.38	1.74	33.49	1.39	33.37	0.80	33.36
150m	0.24	33.29	0.56	33.33	1.70	33.44	1.45	33.50	1.03	33.43	0.69	33.40
200m	0.41	33.36	0.67	33.41	0.67	33.42	1.16	33.51	1.15	33.48	0.63	33.40
250m	0.68	33.44	1.18	33.48	0.80	33.45	1.34	33.58	1.12	33.51	0.81	33.46
300m	0.82	33.49	1.38	33.55	0.91	33.50	1.65	33.63	1.53	33.57	0.96	33.52
400m	1.04	33.59	1.07	33.59	1.03	33.58	1.41	33.66	2.04	33.71	1.71	33.68
500m	1.31	33.71	1.38	33.73	1.37	33.70	1.58	33.80			1.85	33.65
600m												
700m												
800m												
900m												
1000m												

Table 6-23

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410			
Station No	O32	O33	J11	J12	J13	J14	J15	J16	J17	J18				
Latitude:N	44–10.0	44–20.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0				
Longitude:E	144–20.0	144–20.0	141–40.0	141–25.0	141–10.0	140–53.0	140–40.0	140–20.0	140–0.0	139–40.0				
Date	1994/10/05	1994/10/05	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/11	1994/10/11				
Time(JST)	18:38	19:50	10:47	12:04	13:08	14:41	15:51	17:51	19:29	21:23				
Weather	BC	BC	BC	B	B	B	B	B	B	BC				
Air Temp.	15.0	15.0	16.0	15.5	15.0	14.0	13.5	12.0	12.0	12.0				
Bar	1011.0	1011.5	1019.2	1018.0	1017.0	1015.5	1015.0	1014.5	1016.0	1015.8				
Wind Dir	S	S	WSW	ESE	WSW	WSW	SW	SW	SW	SW				
Wind Spd/F	F 2	F 1	F 4	F 3	F 3	F 3	F 4	F 4	F 3	F 3				
Transparency			13	20	18	15	16							
Depth	112	266	52	112	127	430	560	399	595	840				
Equipment	STD													
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S		
0m	15.3	33.252	12.8	32.253	18.5	33.747	17.3	33.963	17.3	33.952	17.7	33.991		
10m	15.48	33.28	12.89	32.20	18.60	33.62	17.33	33.93	17.40	33.90	17.74	33.92		
20m	15.14	33.53	8.60	32.86	18.09	33.49	17.32	33.92	17.35	33.89	16.41	33.87		
30m	14.01	33.36	6.08	32.68	18.14	33.79	17.28	33.92	17.28	33.88	15.94	33.99		
50m	13.66	33.82	-0.35	32.86	16.16	34.01	15.85	33.97	17.25	33.89	12.59	34.33		
75m	13.71	33.87	0.04	33.21			9.65	34.14	9.67	34.15	9.54	34.18		
100m	13.62	33.87	1.64	33.34			8.15	34.18	7.33	34.09	8.27	34.18		
125m			0.57	33.29					5.64	34.10	7.88	34.18		
150m			0.59	33.34						6.97	34.15	3.91	34.07	
200m			0.11	33.32						3.94	34.07	2.75	34.07	
250m			1.45	33.57						1.74	34.05	1.71	34.09	
300m										1.13	34.07	1.23	34.09	
400m										0.68	34.08	0.57	34.08	
500m											0.31	34.08	0.25	34.07
600m														
700m														
800m														
900m														
1000m														

Table 6–24

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	199410	
Station No	J27	J26	J25	J24	J23	J22	J21	JW11	JW12	JW13		
Latitude:N	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.1	44–30.0	45– 0.0	45– 0.0	45– 0.0		
Longitude:E	139–30.0	140– 0.0	140–20.0	140–40.0	141– 0.0	141–15.0	141–30.0	141–30.0	141–15.0	141– 0.0		
Date	1994/10/12	1994/10/12	1994/10/12	1994/10/12	1994/10/12	1994/10/12	1994/10/12	1994/10/12	1994/10/12	1994/10/12		
Time(JST)	03:21	05:36	07:16	08:42	10:08	11:20	12:24	15:12	16:16	17:19		
Weather	BC	B	BC	BC	BC	BC	C	C	C	C		
Air Temp.	12.5	12.5	14.5	16.0	17.0	17.0	18.0	16.5	15.0	15.0		
Bar	1016.0	1016.0	1015.5	1015.2	1014.6	1013.8	1013.0	1010.0	1009.0	1008.5		
Wind Dir	WSW	W	S	S	S	S	WSW	NE	ENE	E		
Wind Spd/F	F 2	F 1	F 1	F 2	F 3	F 2	F 1	F 2	F 5	F 5		
Transparency			17	14	14	15	17	14	10			
Depth	510	568	240	143	198	116	78	63	84	97		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	14.5	34.028	16.6	34.032	17.8	34.021	18.3	34.009	18.7	33.962	18.9	33.921
10m	14.59	34.00	16.84	33.98	18.11	33.99	18.36	33.97	18.57	33.89	19.12	33.89
20m	14.55	33.99	16.82	33.98	17.36	33.95	18.31	33.99	18.36	33.91	19.09	33.91
30m	7.41	34.13	10.24	34.15	11.56	34.21	16.49	33.98	18.14	33.87	18.92	33.91
50m	4.85	34.03	6.99	34.15	9.36	34.29	9.87	34.26	13.12	34.39	18.16	33.94
75m	3.35	34.10	4.95	34.11	7.82	34.15	7.14	34.18	10.05	34.30	13.12	34.35
100m	2.26	34.09	3.69	34.10	6.30	34.11	5.57	34.13	8.14	34.21	10.50	34.36
125m	2.00	34.09	2.85	34.09	4.43	34.10	4.74	34.10	6.11	34.09		
150m	1.71	34.08	2.20	34.08	4.01	34.07			4.80	34.09		
200m	1.17	34.08	1.48	34.10	2.18	34.08						
250m	0.84	34.08	1.04	34.09								
300m	0.65	34.10	0.81	34.08								
400m	0.46	34.07	0.57	34.08								
500m			0.40	34.09								
600m												
700m												
800m												
900m												
1000m												

Table 6–25

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199410	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	
Station No	JW14	J11	J12	J13	J14	J15	J16	J17	J18	JW15		
Latitude:N	45° 0.0	45°30.0	45°30.0	45°30.0	45°30.0	45°29.9	45°30.0	45°30.0	45°30.0	45° 0.0		
Longitude:E	140°40.0	141°40.0	141°25.0	141°10.0	140°50.0	140°40.1	140°20.1	140° 0.1	139°40.0	140°20.0		
Date	1994/10/12	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/07	1994/12/08		
Time(JST)	18:40	11:26	12:37	13:44	15:10	16:15	18:04	19:35	21:42	01:45		
Weather	C	S	S	S	S	C	C	C	B	BC		
Air Temp.	15.0	-1.0	0.0	-2.0	-1.5	-0.8	-0.8	-2.0	-2.0	-1.5		
Bar	1007.0	1008.0	1008.5	1008.0	1009.0	1009.8	1011.8	1013.2	1014.0	1014.5		
Wind Dir	E	N	N	NNW	NNE	NNW	NW	NW	WNW	NW		
Wind Spd/F	F 5	F 3	F 2	F 1	F 3	F 3	F 4	F 3	F 3	F 3		
Transparency		6	9	11	12							
Depth	367	55	112	126	433	551	396	595	800	158		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	18.2	33.912	8.8	33.920	9.4	34.130	8.9	34.150	8.8	34.200	8.1	34.180
10m	18.50	33.88	9.36	33.92	9.97	34.12	9.91	34.14	9.70	34.20	8.31	34.15
20m	18.34	33.83	9.41	33.96	9.97	34.12	9.90	34.14	9.70	34.20	8.14	34.16
30m	18.14	33.87	9.47	33.96	9.99	34.12	9.89	34.15	9.66	34.20	7.85	34.15
50m	12.10	34.37	9.76	34.08	9.95	34.13	9.84	34.15	9.58	34.20	6.42	34.11
75m	10.18	34.33			9.45	34.16	9.69	34.17	6.85	34.11	4.71	34.09
100m	8.67	34.25			8.67	34.17	8.43	34.13	6.29	34.09	3.55	34.09
125m	7.37	34.16					5.51	34.11	3.09	34.07	3.01	34.07
150m	6.76	34.15					4.23	34.09	2.12	34.08	2.31	34.09
200m	3.31	34.05					2.56	34.09	1.26	34.09	1.47	34.09
250m	1.50	34.09					1.56	34.09	0.92	34.08	0.93	34.06
300m	0.81	34.08					1.11	34.08	0.69	34.09	0.67	34.09
400m							0.80	34.08	0.44	34.08		
500m								0.29	34.10			
600m												
700m												
800m												
900m												
1000m												

Table 6-26

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	
Station No	JW16	J27	J26	J25	J24	J23	J22	J21	JW11	JW12		
Latitude:N	45– 0.0	44–29.8	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	45– 0.0	45– 0.0		
Longitude:E	140– 0.0	139–29.5	140– 0.0	140–20.0	140–40.0	141– 0.0	141–15.0	141–30.0	141–30.0	141–15.0		
Date	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08	1994/12/08		
Time(JST)	03:20	07:00	09:55	11:41	13:05	14:22	15:25	16:28	19:25	20:39		
Weather	BC	BC	BC	BC	C	BC	C	C	BC	C		
Air Temp.	-1.5	-0.5	1.5	3.5	2.5	2.0	1.5	3.0	2.5	1.0		
Bar	1015.5	1017.2	1017.5	1017.0	1016.5	1016.0	1015.0	1013.8	1012.0	1012.0		
Wind Dir	NW	W	WNW	WSW	WSW	WSW	WSW	WSW	W	WSW		
Wind Spd/F	F 3	F 2	F 2	F 2	F 3	F 4	F 4	F 4	F 5	F 4		
Transparency		13	19	17	18	18	17					
Depth	260	570	574	243	145	198	117	77	64	86		
Equipment	STD											
STND. Dep	T	S	T	S	T	S	T	S	T	S	T	S
0m	5.4	34.130	8.4	34.220	10.1	34.230	9.9	34.230	10.6	34.190	10.0	34.220
10m	6.18	34.11	8.86	34.20	10.30	34.23	10.15	34.21	11.41	34.17	10.22	34.18
20m	6.18	34.11	8.85	34.21	10.24	34.22	10.13	34.21	11.41	34.16	8.77	34.16
30m	6.18	34.10	8.85	34.22	9.60	34.19	10.07	34.22	11.41	34.16	8.37	34.19
50m	6.19	34.10	8.81	34.21	8.47	34.23	8.78	34.22	11.29	34.15	7.98	34.17
75m	6.03	34.06	8.75	34.21	6.71	34.18	7.66	34.14	9.27	34.29	7.34	34.16
100m	4.02	34.10	6.97	34.06	5.42	34.10	6.14	34.14	7.70	34.20	6.66	34.13
125m	3.24	34.09	6.22	34.12	3.88	34.10	4.72	34.11	6.72	34.16	5.70	34.05
150m	2.26	34.08	5.20	34.13	2.85	34.09	3.83	34.10			4.13	34.06
200m	2.10	34.10	5.04	34.14	2.05	34.10	2.51	34.09				
250m	1.91	34.08	4.54	34.09	1.48	34.09						
300m		2.67	34.10	1.14	34.08							
400m		1.19	34.09	0.72	34.10							
500m		0.72	34.10	0.53	34.09							
600m												
700m												
800m												
900m												
1000m												

Table 6–27

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412
Station No	JW13	JW14	JW03	JW02	JW01	S4	S3	S2	S1	O15
Latitude:N	45° 0.0'	45° 0.0'	45°-45.0'	45°-45.0'	45°-45.0'	45°-40.0	45°-37.0	45°-34.0	45°-31.0	45°-30.0
Longitude:E	141°-0.0'	140°-40.0'	140°-59.9'	141°-10.0'	141°-20.0	142°-0.0	142°-0.0	142°-0.0	142°-0.0	142°-10.0
Date	1994/12/08	1994/12/08	1994/12/09	1994/12/09	1994/12/09	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12
Time(JST)	21:53	23:35	04:00	04:56	05:40	11:16	11:39	12:02	12:27	13:15
Weather	C	C	S	S	S	C	C	C	S	C
Air Temp.	1.0	0.5	-0.5	-0.5	-0.5	-5.0	-4.5	-4.0	-4.0	-5.0
Bar	1012.0	1012.0	1006.4	1004.8	1004.2	1015.5	1015.0	1014.0	1014.0	1014.0
Wind Dir	W	W	N	NNW	N	N	NE	NE	NE	NE
Wind Spd/F	F 4	F 3	F 1	F 2	F 2	F 2	F 2	F 2	F 2	F 2
Transparency						12	14	11	11	8
Depth	99	370	498	122	126	54	44	41	26	36
Equipment	STD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	10.3	34.200	7.4	34.190	9.1	34.180	8.4	34.180	9.0	34.170
10m	10.53	34.19	7.41	34.17	9.51	34.18	8.95	34.17	9.44	34.17
20m	10.54	34.19	7.40	34.18	9.51	34.19	8.92	34.17	9.45	34.17
30m	10.42	34.19	7.28	34.17	9.47	34.18	8.92	34.18	9.47	34.16
50m	10.16	34.19	7.20	34.16	9.39	34.17	8.87	34.17	9.43	34.16
75m	9.72	34.18	5.40	34.09	9.11	34.17	8.86	34.17	8.72	34.17
100m			4.27	34.11	8.79	34.17	8.82	34.17	7.94	34.16
125m			3.65	34.07	6.95	34.13				
150m			2.64	34.08	5.99	34.12				
200m			2.02	34.09	1.47	34.09				
250m			1.38	34.09	1.19	34.09				
300m			0.92	34.09	0.93	34.08				
400m					0.73	34.09				
500m										
600m										
700m										
800m										
900m										
1000m										

Table 6-28

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412
Station No	OA10	O14	O13	O12	O11	OA02	OA03	OA04	OA05	O26	
Latitude:N	45–30.0	45–30.0	45–20.0	45–12.5	45–8.3	44–52.5	45–0.0	45–10.0	45–20.0	45–10.0	
Longitude:E	142–30.0	142–50.0	142–40.0	142–32.5	142–28.4	142–52.5	143–0.0	143–10.0	143–20.0	143–50.0	
Date	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/12	1994/12/13	1994/12/13
Time(JST)	14:40	16:08	17:23	18:18	18:51	21:06	22:03	23:22	00:44	03:05	
Weather	S	S	S	S	S	S	S	S	S	C	
Air Temp.	-5.5	-5.5	-5.0	-4.5	-4.2	-4.0	-3.0	-2.5	-4.0	-3.0	
Bar	1014.0	1014.0	1013.6	1013.5	1012.8	1012.0	1011.0	1010.5	1010.0	1010.5	
Wind Dir	ENE	ENE	E	ESE	ESE	S	SSE	S	E	SW	
Wind Spd/F	F 2	F 2	F 3	F 2	F 2	F 2	F 3	F 3	F 4	F 3	
Transparency	10										
Depth	82	118	96	61	35	85	129	132	142	350	
Equipment	STD										
STND. Dep	T	S	T	S	T	S	T	S	T	S	
0m	1.5	30.765	1.9	30.294	1.8	30.571	3.1	31.007	3.0	31.185	3.0
10m	2.60	30.86	2.84	30.26	2.26	30.64	3.58	31.01	3.96	31.89	3.23
20m	3.20	30.94	2.84	30.25	2.32	30.69	6.73	32.86	5.47	32.59	3.59
30m	3.71	31.30	2.86	30.31	2.27	30.81	7.87	33.52	5.70	32.74	4.37
50m	6.84	33.22	2.61	30.63	5.08	32.23	7.27	33.48			8.17
75m	6.90	33.92	2.18	31.07	6.89	33.86					8.09
100m			2.81	31.73							9.05
125m											34.00
150m											-0.01
200m											32.96
250m											0.50
300m											32.94
400m											-0.10
500m											33.07
600m											0.38
700m											33.22
800m											0.32
900m											33.27
1000m											0.27

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Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412									
Station No	O25	O24	O23	O22	OA11	OA12	O34	O35	O36	O46										
Latitude:N	45° 0.0	44° 50.0	44° 40.0	44° 35.0	44° 17.5	44° 22.5	44° 30.0	44° 50.0	45° 8.0	45° 10.0										
Longitude:E	143° 40.0	143° 30.0	143° 20.0	143° 15.0	143° 40.5	143° 42.5	144° 20.0	144° 20.0	144° 20.0	145° 20.0										
Date	1994/12/13	1994/12/13	1994/12/13	1994/12/13	1994/12/13	1994/12/13	1994/12/13	1994/12/13	1994/12/13	1994/12/13										
Time(JST)	04:49	06:12	07:43	08:30	10:40	11:19	13:55	16:17	18:09	22:28										
Weather	C	BC	BC	BC	BC	BC	C	BC	C	BC										
Air Temp.	-3.0	-3.5	-3.5	-3.0	-3.0	-3.0	0.0	-3.5	-4.0	-4.0										
Bar	1009.8	1009.6	1011.5	1011.5	1012.0	1012.0	1010.0	1010.3	1011.0	1010.5										
Wind Dir	W	W	WNW	WNW	WNW	WNW	WNW	NNE	NNE	NNE										
Wind Spd/F	F 3	F 4	F 4	F 3	F 4	F 4	F 4	F 2	F 3	F 4										
Transparency			8	15	13	13	11													
Depth	172	150	116	75	46	90	875	152	796	2000										
Equipment	STD																			
STND. Dep	T	S	T	S	T	S	T	S	T	S										
0m	2.2	31.759	1.8	31.241	1.8	31.028	2.6	30.947	3.1	30.825	2.3	30.925	2.8	31.418	1.9	31.812	2.3	31.900	4.6	31.958
10m	2.37	31.74	2.08	31.25	2.12	30.98	2.50	31.02	3.29	30.81	2.33	30.88	2.94	31.26	3.47	31.94	2.57	31.85	4.79	31.92
20m	2.41	31.79	2.37	31.56	2.20	31.04	2.30	31.32	3.33	30.82	2.32	30.90	2.96	31.27	3.78	32.16	2.56	31.86	4.72	31.92
30m	2.52	31.86	2.72	31.64	2.41	31.33	4.18	32.02	2.56	31.12	2.37	30.96	3.37	31.68	3.79	32.32	2.77	31.92	5.76	32.49
50m	5.37	32.55	2.62	31.89	2.54	31.47	6.30	32.94			2.55	31.87	4.79	32.26	0.69	32.91	4.12	32.52	5.15	32.80
75m	-0.24	32.90	1.53	32.45	8.01	33.61			5.43	32.82	5.60	32.74	-0.13	33.10	1.07	33.08	7.93	33.87		
100m	0.17	33.09	0.26	32.85	8.11	33.64					1.19	33.10	-0.40	33.15	-0.29	33.20	7.22	33.81		
125m	-0.26	33.15	0.12	32.89							1.44	33.22	-0.37	33.20	-0.35	33.22	2.92	33.43		
150m	-0.24	33.18									0.61	33.25			-0.16	33.26	1.23	33.28		
200m											0.15	33.25			0.44	33.37	0.48	33.32		
250m											0.11	33.29			0.63	33.41	0.64	33.40		
300m											0.57	33.40			0.91	33.50	0.93	33.47		
400m											0.93	33.54			1.05	33.60	1.21	33.60		
500m											1.33	33.68			1.37	33.68	1.45	33.74		
600m																				
700m																				
800m																				
900m																				
1000m																				

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Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412	199412
Station No	O45	O44	O43	O42	O41	OA24	OA23	OA22	OA21	O31	
Latitude:N	45– 0.0	44–50.0	44–40.0	44–30.0	44–22.0	44–30.0	44–20.0	44–10.0	44– 2.0	44– 2.0	
Longitude:E	145–20.0	145–20.0	145–20.0	145–20.0	145–20.0	144–50.0	144–50.0	144–50.0	144–50.0	144–20.0	144–20.0
Date	1994/12/13	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1994/12/14
Time(JST)	23:44	00:55	02:08	03:25	04:29	06:54	09:23	10:36	11:41	13:49	
Weather	C	S	S	S	BC	S	S	BC	BC	BC	
Air Temp.	-3.5	-3.0	-4.0	-4.0	-4.5	-4.0	-4.5	-4.0	-3.0	-3.0	
Bar	1009.5	1009.5	1009.5	1009.0	1008.2	1009.0	1011.0	1010.5	1009.5	1008.5	
Wind Dir	NNE	NE	NE	ENE	NW	ENE	WSW	WSW	WSW	SE	
Wind Spd/F	F 3	F 3	F 2	F 1	F 2	F 2	F 4	F 3	F 2	F 1	
Transparency						12	12	16	9	8	
Depth				1700	284			606	80	34	
Equipment	STD										
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S	T S	T S	
0m	4.8 31.973	4.0 32.024	2.3 31.139	1.8 31.006	2.3 31.020	2.3 31.734	2.8 31.513	2.3 31.192	2.8 30.940	2.8 30.990	
10m	4.80 31.93	4.54 32.10	3.60 31.43	2.19 31.02	2.51 30.99	3.72 31.81	3.01 31.42	2.37 31.13	2.88 30.92	3.08 31.01	
20m	4.82 31.94	4.31 32.19	4.65 31.86	2.30 31.09	2.57 31.00	4.06 31.94	3.06 31.43	2.21 31.17	2.96 30.94	3.22 31.06	
30m	4.62 32.18	4.30 32.21	4.75 31.91	2.55 31.37	2.54 31.02	4.96 32.15	3.41 31.71	2.19 31.23	3.08 30.98	3.54 31.21	
50m	6.02 32.74	4.38 32.26	5.62 32.34	3.70 31.81	2.85 31.17	5.21 32.31	4.77 32.36	2.33 31.34	3.03 31.09		
75m	7.46 33.71	7.13 33.73	7.83 33.56	5.28 32.92	4.45 31.69	7.84 33.81	4.99 33.24	5.11 32.52	4.80 31.77		
100m	5.93 33.60	5.29 33.60	7.00 33.79	7.74 33.44	6.37 32.74	5.22 33.59	6.43 33.77	6.11 33.33			
125m	1.80 33.33	1.51 33.26	4.27 33.43	4.33 33.30	7.29 33.19	1.41 33.25	2.72 33.39	6.89 33.51			
150m	1.22 33.30	0.80 33.30	0.95 33.29	5.33 33.53	7.65 33.57	1.46 33.31	0.57 33.24	5.60 33.40			
200m	0.32 33.31	0.58 33.36	0.23 33.28	5.41 33.70	6.74 33.71	0.48 33.31	0.13 33.30	6.29 33.76			
250m	0.71 33.38	0.63 33.39	0.11 33.36	1.24 33.32	4.92 33.61	0.57 33.35	0.36 33.36	4.85 33.64			
300m	0.63 33.43	0.71 33.46	0.56 33.39	0.21 33.30		0.82 33.42	0.57 33.42	1.38 33.32			
400m	0.95 33.56	0.88 33.54	1.05 33.51	0.87 33.46		1.14 33.59	0.83 33.52	0.83 33.46			
500m	1.36 33.69	1.33 33.70	1.36 33.67	1.24 33.63		1.47 33.73					
600m											
700m											
800m											
900m											
1000m											

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Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199412	199412	199412	199412	199412	199502	199502	199502	199502	199502
Station No	OA20	O32	O33	OA14	OA13	J11	J12	J13	J14	J15
Latitude:N	44– 5.0	44–10.0	44–20.0	44–40.0	44–30.0	45–30.0	45–30.0	45–30.0	45–30.0	45–30.0
Longitude:E	144–20.1	144–20.0	144–20.0	144– 0.0	143–50.0	141–40.0	141–25.0	141–10.0	140–53.0	140–40.0
Date	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1994/12/14	1995/02/02	1995/02/02	1995/02/02	1995/02/02	1995/02/02
Time(JST)	14:10	14:44	15:47	18:24	19:40	10:49	12:00	13:09	14:33	15:44
Weather	BC	BC	BC	BC	S	BC	BC	BC	S	S
Air Temp.	-2.0	-2.0	-3.0	-3.5	-4.0	-4.0	-3.0	-5.5	-5.0	-5.0
Bar	1008.5	1008.5	1008.5	1009.2	1009.8	1030.0	1028.0	1027.6	1027.2	1027.5
Wind Dir	CALM	CALM	SW	W	WNW	NNE	NNE	NNE	NNE	NNW
Wind Spd/F	F 0	F 0	F 1	F 3	F 3	F 2	F 2	F 3	F 3	F 6
Transparency	11	9	8			11	12	20	16	13
Depth	37	115	267	188	163	55	114	128	406	550
Equipment	STD									
STND. Dep	T	S	T	S	T	S	T	S	T	S
0m	2.8	30.865	2.8	30.844	2.4	31.190	2.3	31.759	1.3	31.296
10m	2.99	30.88	2.91	30.81	2.30	31.21	2.62	31.73	1.67	31.21
20m	3.00	30.88	2.71	30.89	2.21	31.39	2.83	31.88	1.91	31.31
30m	3.01	30.90	2.49	30.92	2.53	31.59	2.76	32.15	2.29	31.43
50m			2.46	31.74	2.78	31.76	0.88	32.90	2.64	31.85
75m			4.94	32.84	2.80	32.70	0.02	33.06	8.50	33.68
100m			5.40	32.97	1.28	33.15	-0.24	33.14	7.07	33.56
125m					0.33	33.21	-0.45	33.18	6.95	33.52
150m					0.13	33.22	-0.46	33.20	2.85	33.01
200m										
250m										
300m										
400m										
500m										
600m										
700m										
800m										
900m										
1000m										

Table 6–32

Table 6 Results of serial oceanographic observations. Hokkaido Wakkai Fisheries Experimental Station 1994/Apr.-1995/Mar.

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502	199502						
Station No	JW13	JW12	JW11	J21	J22	J23	J24	J25	J26	J27							
Latitude:N	45– 0.0	45– 0.0	45– 0.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0	44–30.0							
Longitude:E	141– 0.0	141–15.0	141–30.0	141–30.0	141–15.0	141– 0.0	140–40.0	140–20.0	140– 0.0	139–30.0							
Date	1995/02/02	1995/02/02	1995/02/02	1995/02/03	1995/02/03	1995/02/03	1995/02/03	1995/02/03	1995/02/03	1995/02/03							
Time(JST)	19:14	20:21	21:25	00:17	01:22	02:26	03:55	05:21	06:48	09:06							
Weather	BC	S	BC	BC	BC	BC	C	BC	C	C							
Air Temp.	-6.0	-7.0	-7.0	-7.6	-5.2	-5.0	-4.2	-4.0	-3.0	-3.5							
Bar	1028.0	1028.0	1029.0	1029.2	1029.5	1029.0	1029.0	1028.5	1028.0	1028.0							
Wind Dir	NNE	ENE	E	ENE	NE	ENE	NE	NNW	NNW	NW							
Wind Spd/F	F 3	F 2	F 2	F 3	F 3	F 2	F 2	F 3	F 2	F 2							
Transparency																	
Depth	105	86	65	79	118	202	146	248	568	521							
Equipment	STD																
STND. Dep	T	S	T	S	T	S	T	S	T	S							
0m	4.3	34.190	4.6	32.548	3.3	33.975	4.9	34.171	4.5	34.173	4.8	34.183					
10m	5.49	34.21	5.38	34.21	3.90	34.03	5.23	34.18	5.35	34.17	5.91	34.18					
20m	5.47	34.19	5.39	34.19	3.89	34.03	5.23	34.20	5.35	34.17	5.90	34.18					
30m	5.47	34.19	5.31	34.19	3.90	34.03	5.23	34.17	5.37	34.17	5.90	34.20					
50m	5.41	34.19	4.36	34.10	3.91	34.05	5.25	34.17	5.33	34.17	5.91	34.18					
75m	5.32	34.17	4.22	34.08			5.25	34.18	5.31	34.17	5.92	34.17					
100m	5.04	34.17					5.30	34.16	5.93	34.16	5.98	34.19					
125m								5.93	34.17	5.99	34.19	2.27	34.07				
150m								5.93	34.18			1.95	34.07				
200m												1.45	34.07				
250m													2.81	34.11			
300m														2.08	34.11		
400m															1.26	34.08	
500m															0.70	34.09	
600m																0.41	34.07
700m																	
800m																	
900m																	
1000m																	

Table 6–33

Stn-prefix	199502	199502	199502	199502	199502	199502	199502	199502
Station No	JW16	JW15	J18	J17	J16	JW03	JW02	JW01
Latitude:N	45– 0.0	45– 0.0	45–30.0	45–30.0	45–30.0	45–45.0	45–45.0	45–44.6
Longitude:E	140– 0.0	140–20.0	139–40.0	140– 0.0	140–20.0	141– 0.0	141–10.0	141–20.5
Date	1995/02/03	1995/02/03	1995/02/03	1995/02/03	1995/02/03	1995/02/04	1995/02/04	1995/02/04
Time(JST)	12:45	14:30	18:24	19:56	21:38	01:12	02:04	02:56
Weather	C	BC	BC	BC	C	C	S	C
Air Temp.	-3.5	1.0	-6.0	-3.0	-3.5	-3.5	-4.0	-4.2
Bar	1025.2	1024.6	1025.5	1025.5	1025.0	1024.0	1023.2	1022.5
Wind Dir	W	W	WSW	WSW	WSW	WSW	WSW	NW
Wind Spd/F	F 2	F 2	F 3	F 2	F 3	F 2	F 3	F 2
Transparency	15	20						
Depth	250	144	836	596	399	494	124	140
Equipment	STD							
STND. Dep	T S	T S	T S	T S	T S	T S	T S	T S
0m	4.9 34.203	4.8 34.198	4.2 34.183	3.5 N.D.	3.2 34.129	5.0 34.197	1.5 N.D.	2.3 33.882
10m	5.38 34.19	5.12 34.18	4.43 34.18	4.34 34.17	3.43 34.15	5.30 34.19	3.98 34.06	3.56 33.91
20m	5.35 34.19	5.11 34.19	4.43 34.17	4.35 34.17	3.42 34.14	5.31 34.19	4.34 34.08	3.56 33.93
30m	5.34 34.19	5.08 34.20	4.43 34.17	4.35 34.18	3.27 34.10	5.31 34.19	4.30 34.08	3.55 33.93
50m	5.04 34.20	5.06 34.19	4.43 34.18	4.36 34.18	3.10 34.12	5.31 34.20	4.35 34.10	4.10 34.03
75m	3.37 34.13	4.80 34.17	3.18 34.12	4.36 34.17	2.85 34.12	5.32 34.19	4.35 34.10	4.29 34.08
100m	2.98 34.12	3.93 34.14	2.06 34.10	4.37 34.18	2.51 34.10	5.31 34.19	4.34 34.10	4.35 34.09
125m	2.86 34.12	1.49 34.09	1.81 34.09	4.29 34.17	2.42 34.10	5.21 34.18		4.38 34.10
150m	2.74 34.13		1.57 34.09	2.49 34.10	2.14 34.07	3.88 34.15		
200m	2.34 34.12		1.06 34.08	1.37 34.07	1.60 34.09	2.43 34.09		
250m			0.92 34.08	1.08 34.08	1.12 34.07	1.64 34.08		
300m			0.68 34.08	0.93 34.08	0.72 34.07	1.18 34.09		
400m			0.46 34.09	0.61 34.07		0.56 34.09		
500m			0.34 34.10	0.47 34.09				
600m								
700m								
800m								
900m								
1000m								

Table 6-34

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